AGENDA

VALLEJO PLANNING COMMISSION
REGULAR MEETING – 7:00 P.M.
COUNCIL CHAMBERS

555 Santa Clara Street, Vallejo, California

Jamar Stamps, Chair
Eric Blind, Vice Chair
Peggy Cohen-Thompson,
Donald Douglass
Wanda Madeiros
Anthony Taylor
Tara Beasley-Stansberry

November 6, 2023

NOTICE: Members of the public will be able to participate in-person or remotely via Zoom. City Hall and the Council Chambers will be open to members of the public 30 minutes prior to the start of the meeting.

VIEW THE MEETING:

There are four different ways you can view this public meeting:

- In Person
- Watch Vallejo local channel 28
- Stream from the City website: www.cityofvallejo.net/Streaming
- Join the Zoom webinar:https://ZoomRegular.Cityofvallejo.net

IMPORTANT NOTICE

This AGENDA contains a brief general description of each item to be considered. The posting of the recommended actions does not indicate what action may be taken. If comments come to the Planning Commission without prior notice for an item not listed on the AGENDA, no specific answers or responses should be expected at this meeting per State law.

Pursuant to Government Code Section 54954.3 of the Brown Act, members of the public shall be afforded the opportunity to speak on any agenda item of interest to them after being recognized by the presiding officer. Members of the public wishing to be so recognized are requested to submit a completed speaker card to the Secretary of the Planning Commission prior to the consideration of the item or raise their hand via ZOOM:(https://ZoomRegular.Cityofvallejo.net) or by phone: Dial (669) 900-6833. Enter Meeting ID: 914 0075 0676#. Press * 9 to digitally raise your hand from the phone. For additional instructions on how to speak remotely during public comment, please visit www.cityofvallejo.net/publiccomment. In person speakers will be recognized first.

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Notice of Availability of Public Records: All public records relating to an open session item, which are not exempt from disclosure pursuant to the Public Records Act, that are distributed to a majority of the Planning Commission will be available on the City of Vallejo website at www.cityofvallejo.net subject to staff's ability to post the documents prior to the meeting.

Disclosure Requirements: Government Code Section 84308 (d) sets forth disclosure requirements which apply to persons who actively support or oppose projects in which they have a "financial interest", as that term is defined by the Political Reform Act of 1974. If you fall within that category, and if you (or your agent) have made a contribution of $250 or more to any commissioner within the last twelve months to be used in a federal, state or local election, you must disclose the fact of that contribution in a statement to the Commission.

Appeal Rights: The applicant or any party adversely affected by the decision of the Planning Commission may, within ten days after the rendition of the decision of the Planning Commission, appeal the decision by filing a written appeal with the Director of Planning and Development Services. Such written appeal shall state the reason or reasons for the appeal and why the applicant believes he or she is adversely affected by the decision of the Planning Commission. Such appeal shall not be timely filed unless it is actually received by Director of Planning and Development Services or designee no later than the close of business on the tenth calendar day after the rendition of the decision of the Planning Commission. If such date falls on a weekend or City holiday, then the deadline shall be extended until the next regular business day.

	The Council Chambers in City Hall is ADA compliant. Devices for the hearing impaired are available from the City Clerk. Requests for disability related modifications or accommodations, aids or services may be made by a person with a disability to the City Clerk's office no less than 72 hours prior to the meeting as required by Section 202 of the Americans with Disabilities Act of 1990 and the federal rules and regulations adopted in implementation thereof.

If you have any questions regarding any of the following agenda items, please call the assigned planner or project manager at (707) 648-4326.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. CONSENT CALENDAR AND APPROVAL OF AGENDA

Upon motion of any Commissioner, all items placed upon the consent calendar may be acted upon collectively, and each shall be deemed to have received the action recommended by the Secretary or City Attorney; except that if any Commissioner objects to the placement of an item on the consent calendar, or if any member of the public wishes to address the Commission on any such item, the item shall be removed from the consent calendar and shall be heard and acted upon in its proper place on the agenda as designated by the Presiding Officer.

After making changes in the agenda, if any, as permitted under these rules of order and procedure, the Commission shall approve the agenda which shall constitute the agenda of business to be considered at the meeting. The motion offered to approve the agenda shall include the adoption of the consent calendar.

A. APPROVAL OF AGENDA

B. OTHER CONSENT ITEMS -None.

5. REPORT OF THE CITY COUNCIL LIASION

The City Council Liaison may, from time to time, wish to make announcements and report on items of activity that may be of interest to the Commission and the general public.

6. COMMUNITY FORUM

The Presiding Officer shall announce that members of the public have the opportunity to directly address the Commission on items of interest to the public that are within the subject matter jurisdiction of the Commission and not on the current agenda. Up to fifteen (15) minutes shall be set aside for the community forum and each speaker shall be allocated up to three (3) minutes, unless time is extended by the Presiding Officer with the Commission's consent. Items of business listed on the agenda shall not be further discussed under the community forum. Anyone desiring to address the Commission may indicate such interest in one of the two ways listed below:

1. Any interested members of the public desiring to communicate with the Planning Commission for this item may approach the podium to speak when the Presiding Officer opens the Community Forum and indicate that they would like to do so.
*2. Any interested members of the public desiring to communicate with the Planning Commission for this item may do so via ZOOM:(https://ZoomRegular.Cityofvallejo.net), or by phone: Dial (669) 900-6833. Enter Meeting ID: 914 0075 0676#. Press * 9 to digitally raise your hand from the phone. For additional instructions on how to speak remotely during public comment, please visit, www.cityofvallejo.net/publiccomment. Please know that in-person speakers will be recognized first.*

7. PUBLIC HEARINGS

A. PROJECT NUMBER(S): Development Review (DVR21-0021)
Design Review (DR21-0005)
Landscape Review (LR21-0009)
Environmental Document (ED23-0002)

PREPARED BY: Cesar Orozco, Principal Planner

PROJECT LOCATION 5180 Sonoma Boulevard / APN: 0067-150-280

APPLICABLE ZONING Central Corridor (CC)

APPLICABLE GENERAL PLAN District – North Gateway

PROJECT SUMMARY: The project consists of demolishing the existing vacant commercial building and constructing a total of 429 dwelling units that will be distributed across 11 buildings. Each of the 11 residential buildings will have a building height of 59 feet and four inches. Exterior materials would include a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White. In addition to the residential buildings, the project will provide a central amenity building containing leasing offices, restrooms, and a mailroom on the ground floor. Similar to the residential buildings, the amenity building will include a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White. Additionally, the site includes approximately 105,959 square feet of new landscaping that will provide for private and common open spaces, and 698 off-street parking spaces.

CEQA: Pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15074 of the Title 14 Public Resources of the California Code of Regulations, an Initial Study and Mitigated Negative Declaration were prepared and circulated for thirty days for this project.

RECOMMENDATION: Staff recommend that the Planning Commission:

1. Adopt Resolution No. PC23-08 adopting the Initial Study/Mitigated Negative Declaration (ED23-0002) and approving the Mitigation Monitoring and Reporting Program; and

2. Adopt Resolution No. PC23-09 approving Development Review (DVR21-0021), Design Review (DR21-0005) and Landscape Review (LR21-0009) to authorize construction of 429-unit multi-family residential project, subject to the findings contained in the Resolution and Conditions of Approval contained in Exhibit A to the resolution.

9. WRITTEN COMMUNICATIONS

Written communications from the public will be received and filed. Written communications regarding items on the agenda will be noted at the time the item is considered.

10. REGULAR REPORTS

A. SECRETARY'S REPORT

The Secretary may, from time to time, report on items that may be of interest to the Commission and general public.

B. CITY ATTORNEY'S REPORT

The City Attorney may, from time to time, report on items that may be of interest to the

Commission and general public.

C. REPORT OF THE PRESIDING OFFICER AND MEMBERS OF THE PLANNING COMMISSION
The Presiding Officer and any Commissioner may, from time to time, wish to make certain announcements, request information from staff, and to report on items of activity that may be of interest to the Commission and the general public.

D. REPORT OF THE SUBCOMMITTEES

11. OTHER AGENDA ITEMS

A. **Discussion of Future Agenda Items**
   a. Phase 2 Zoning Code Updates
   b. Mare Island Annual Update
   c. Housing, Safety and Environmental Justice Elements
   d. Overview of new State housing laws

12. ADJOURNMENT

I, Jasmine Thibeaux, do hereby certify that I have caused a true copy of the above notice and agenda to be delivered to each of the members of the Vallejo Planning Commission, at the time and in the manner prescribed by law and that this agenda was posted at City Hall, 555 Santa Clara Street, CA at 5:00 p.m. on Friday, November 3, 2023.

Dated: November 3, 2023

Jasmine Thibeaux .
Jasmine Thibeaux

STAFF REPORT
CITY OF VALLEJO
PLANNING COMMISSION

I. PROJECT INFORMATION

Item No. 7A

DATE OF MEETING:	November 6, 2023
PROJECT NUMBER:	Development Review (DVR21-0021) Design Review (DR21-0005) Landscape Review (LR21-0009) Environmental Document (ED23-0002)
PREPARED BY:	Cesar Orozco, Principal Planner
PROJECT LOCATION:	5180 Sonoma Boulevard / APN: 0067-150-280
APPLICABLE ZONING CODE SECTION(S):	Development Review (VMC Chapter 16.605) Design Review (VMC Chapter 16.604) Landscape Review (VMC Chapter 16.504)
PROJECT SUMMARY:	The project consists of a Development Review, Design Review, and Landscape review for the demolition of an existing vacant commercial building and construction of 429 dwelling units distributed across 11 buildings and one central amenity building. The project also includes site improvements such as 105,959 square feet of new landscaping, new lighting throughout the site, pedestrian paths along the new buildings, short-term bicycle racks and a total of 698 new off-street parking spaces.
CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA):	Pursuant to the California Environmental Quality Act (CEQA) Guidelines, Section 15074 of the Title 14 Public Resources of the California Code of Regulations, an Initial Study and proposed Mitigated Negative Declaration of the project were prepared by LSA and made available to the public for review on October 6, 2023. Adoption of the Mitigated Negative Declaration is part of the project. No impacts were identified as potentially significant that could not be mitigated to a less-than-significant level.

RECOMMENDATION:	
PROJECT DATA SUMMARY:	Staff recommend that the Planning Commission take the following actions: 1. Adopt Resolution No. PC23-08 adopting the Initial Study/Mitigated Negative Declaration (ED23-0002) and approving the Mitigation Monitoring and Reporting Program; and 2. Adopt Resolution No. PC23-09 approving Development Review (DVR21-0021), Design Review (DR21-0005) and Landscape Review (LR21-0009) to allow construction of a 429-unit multi-family residential project, subject to the findings contained in the Resolution and Conditions of Approval contained in Exhibit A to the Resolution.
APPLICANT:	Russell Square Consulting, Inc. 41428 McKenzie Court Murrieta, CA 92562
PROPERTY OWNER:	ACV Vallejo, LLC 465 First Street West, 2nd Floor. Sonoma, CA 95476
GENERAL PLAN DESIGNATION:	District - North Gateway (D-NG)
ZONING DISTRICT:	Central Corridor Commercial (CC)
EXISTING LAND USE:	Vacant Commercial Building
SURROUNDING LAND USE:	North – Commercial / Vacant Land South – Self Storage / Recology East – Broadway / Single-Family Residential West – Sonoma Boulevard / Single-family Residential
TOTAL LOT AREA:	548,856 square feet (12.60 Acres)

II. PROJECT DESCRIPTION

A. Background

On December 21, 2021, Russell Square Consulting, Inc., the applicant, applied for Development Review, Design Review and Landscape Review for the demolition of an existing vacant commercial building and the construction of 429 dwelling units distributed across 11 buildings and one central

amenity building, along with 105,959 square feet square feet of new landscaping at 5180 Sonoma Boulevard. The project plans were routed to various agencies for their review and the application was determined to be complete by the City on April 21, 2022.

On October 12, 2023, staff presented the project before the Design Review Board and provided an overview of the project. The Design Review Board unanimously recommended that the Planning Commission approve the project.

Location and Land Use Context

The project site is located between Sonoma Boulevard and Broadway. It is surrounded by existing residential uses, commercial uses, and an industrial use:

Table 1 – Surrounding Uses	
Direction	**Land Uses**
North	Commercial Center Vacant Land
East	Broadway Railroad Tracks Single-family Residential
South	Self-Storage Recology Highway 37
West	Sonoma Boulevard Single-family Residential

Interstate 80 (I-80) is approximately 2.0 miles to the east and State Route 37 (SR 37), is approximately 0.25 mile south of the project site. Each provides regional access while Sonoma Boulevard (State Route 29 (SR 29]) and Broadway Street provide direct access to the project site. The immediate vicinity of the project site is characterized by existing commercial uses, industrial uses and single-family residential (see Figure 1). The site's General Plan 2040 Land Use Designation is District – North Gateway (D-NG) and is implemented by Zoning District of Central Corridor Commercial (CC)

The subject site is currently occupied by a vacant 126,000 square-foot commercial building and associated asphalt parking lot that was formally occupied by Walmart that closed in 2007. According to the City's Planning Division records, the original Medows Plaza was approved by the Planning Commission on February 21, 1990 (see Figure 1).

Figure 1 – Vicinity Map

B. Project Description

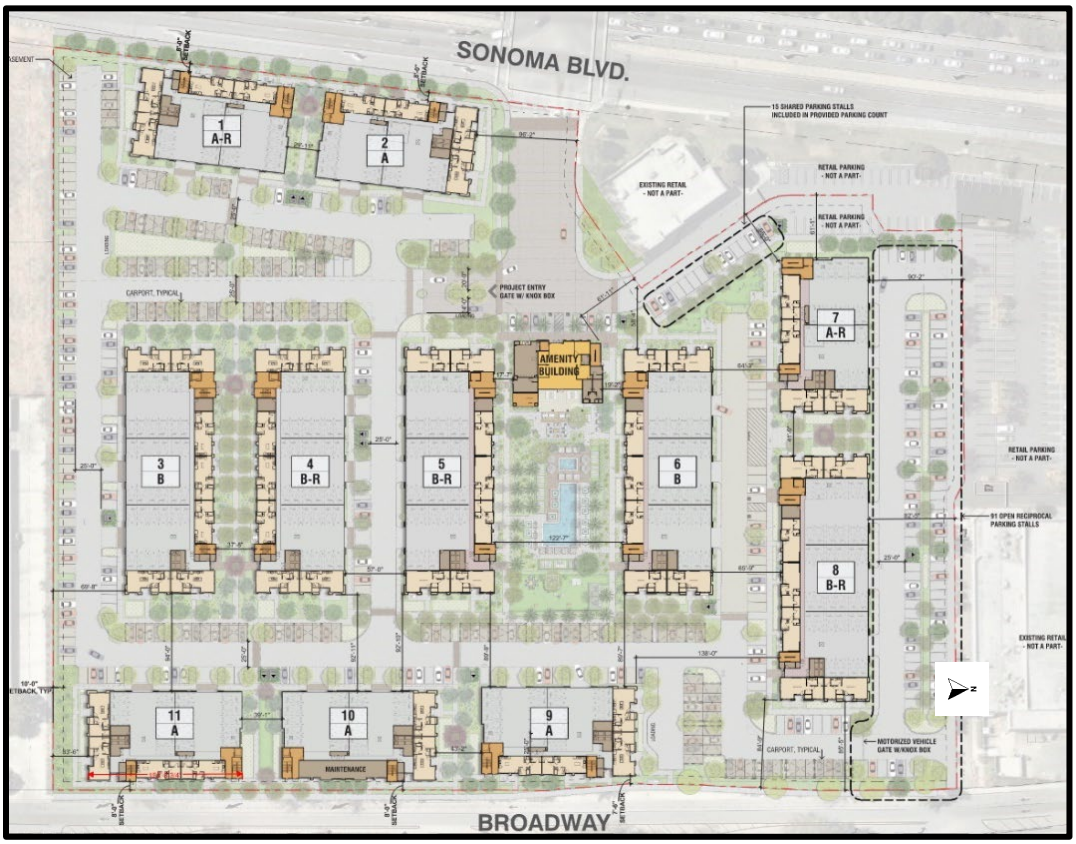
The proposed project consists of a Development Review, Design Review, Landscape Review and associated environmental review for the demolition of the existing 126,000 square foot vacant commercial building and the construction of a total of 11 multi-family residential buildings containing a total of 429 dwelling units. 184 units will be distributed between six "Building A" building types with 31 units per building. The remaining 245 units will be distributed between five "Building B" building types with 49 units per building. Both Building A and B types include residential units and a parking podium on the ground floor and three stories of residential units above, with an overall building height of 59 feet and four inches. The unit breakdown is as follows:

Table 2 – Unit Breakdown

Unit Type	# bedrooms/ # bathrooms	Square footage	Total # for Project
A1	1 bed / 1 bath	767	25
A2	1 bed / 1 bath	784	81
A3	1 bed / 1 bath	820	96
A4	1 bed / 1 bath	854	22
B1	2 bed / 2 bath	1,063	18
B2	2 bed / 2 bath	1,086	18
B3	2 bed / 2 bath	1,196	48
B4	2 bed / 2 bath	1,237	15
B5	2 bed / 2 bath	1,237	33
B6	2 bed / 2 bath	1,328	33
C1	3 bed / 2 bath	1,637	30
Total number of units			429

Project amenities include 105,959 square feet of new landscaping, new exterior lighting, pedestrian paths, short-term bicycle racks and a total of 698 new off-street parking spaces. The project will also include a central amenity building containing the leasing offices, restrooms, and a mailroom. A fitness and club room would be provided on the second floor along with a large terrace balcony overlooking the central courtyard and pool areas.(see Figure 2).

Figure 2 – Proposed Site Plan



III. STAFF ANALYSIS

Required Permits

The project requires the following approval under the Vallejo Municipal Code (VMC):

Table 2 – Required Permits

Permit Type	Description	VMC Chapter	Review Authority
Design Review	Residential projects of 50 or more units.	16.604	Design Review Board Recommendation to Planning Commission
Landscape Review	Installation of new landscaping exceeding 500 square feet.	16.504	Design Review Board Recommendation to Planning Commission
Development Review	Construction of four new buildings.	16.605	Planning Commission Action.

The Planning Commission will be asked to adopt the Initial Study (IS) and Mitigated Negative Declaration (MND) for the project. It will also act on the Development Review, Design Review and Landscape Review, with the recommendation of the Design Review Board. In addition to these entitlements, this project will also require a building permit(s) from the City of Vallejo.

General Plan Consistency

The General Plan 2040 Land Use Designation for the subject property is District – North Gateway (D-NG). The General Plan characterizes this designation as follows:

> *The D-NG designation applies to the northern portion of the area north of SR 37 between Sonoma Boulevard and Broadway Street, a highly visible area that serves as a gateway to Napa Valley from SR 37 (heading north) and to Vallejo from American Canyon (heading south). It is intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area. The maximum permitted FAR in the D-NG designation is 2.0, with a minimum residential density of 30 dwelling units per acre up to 50 dwelling units per acre.*

The project is consistent with the D-NG land use designation in that it incorporates high-density residential development that will support nearby and future services and activities in the area. Additionally, the project is also consistent with applicable General Plan 2040 policies and actions. Key policies and actions relevant to the project are shown in **bold**, followed by staff's analysis in *italic*:

Table 3 - General Plan 2040 Policies and Actions

Policies and Actions	Staff's Analysis
Policy NBE-1.8: Urban Forest. Encourage planting of street trees and landscaping to beautify the city, encourage walking and biking and create a stronger sense of identity.	*The project involves the planting of many trees, shrubs, and groundcovers contributing to the beautification of Vallejo and the cultivation of an urban forest. The construction of sidewalk improvements along the new residential buildings will contribute to the pedestrian realm within the subject site.*
Policy NBE-2.3: Inviting, Compatible Design. Promote attractive development that is compatible with surrounding uses.	*The project architecture is of a high quality that unifies the buildings of the proposed development with a variety of materials and architectural features that break up the expanse of wall planes.*
Policy NBE-2.8: Infill Development. Promote infill development targets vacant and underutilized sites for community-desired and enhancing uses that is compatible with surrounding uses.	*The project shall result in the development of additional units and will fulfill a housing need in the community and is compatible with the collection of surrounding uses.*
Policy NBE-1.15: Energy Efficiency: Support measures to reduce energy consumption and	*The project shall be required to comply with standards set in California Building Code (CBC) Title 24, which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources during operation.*

increase energy efficiency in residential, commercial, industrial, and public buildings.	*California's Green Building Standards Code (CBC Title 24, Part 11) requires implementation of energy efficient light fixtures and building materials into the design of new construction projects. The project includes sustainable and energy-efficient features, including solar panels, electric vehicle (EV) chargers, and an all-electric design, each provided at or exceeding City requirements.*

Vallejo Municipal Code Compliance

The project site is zoned Central Corridor Commercial (CC). The Zoning Code provides the following description for the CC Zoning District:

> *The CC Zoning District is intended to create and establish regulations for community serving mixed-use areas along the Sonoma Boulevard Central Corridor and areas subject to the Sonoma Boulevard Specific Plan. Land uses include mixed-use with housing, medium and high density residential or non-residential uses at street level, subject to design and development standards to promote a mixed-use and pedestrian orientation.*

VMC Table 16.102-A: Zoning Districts states, the CC Zoning District implements the D-NG General Plan Land Use Designation. VMC Table 16.301 – A: Land Use Regulations states: a "Multi-Unit Residential (Three or more units)" uses are permitted with a limitation of 2-10 units permitted subject to Director decision. 11-49 units permitted subject to Director decision with Design Review Board recommendation. 50 or more units require Design Review Board recommendation and Planning Commission decision.

The project is consistent with the CC zoning district in that it includes construction of 429 multi-family units in a mixed-use area that includes existing residential and commercial uses. The General Plan Density allows 50 dwelling units per acre, which would allow up to 630 units on the subject 12.60-acre site.

The project is consistent with the applicable standards in the CC zoning districts as demonstrated in the Table, below:

Table 4 – Commercial Standards – Development Standards (VMC16.204-B)			
Development Standard		Proposal	Compliant
Density: Max.	16-50 units/acre (Allowed 202 – 630 units)	429 units	Yes
BUILDING PLACEMENT			
Minimum Front Setback, Residential Development	0-8 feet	7.5 feet to 8 feet	Yes
Setbacks, Residential-only Development: Residential-only development is subject to the setback requirement of the RHD District	Interior: 5 for the first 2 stories, 10 thereafter	33.5 feet to 90.2 feet	Yes

BUILDING HEIGHT			
Building Maximum Height (stories)	8	4	Yes
Ground Floor Residential Use (ft.)	12	12	Yes
Parking Podium	Maximum height of a parking podium visible from the street is 9 ft. from finished grade	0	Yes, parking podium is not visible from the street
GROUND FLOOR MINIMUM HEIGHT			
Ground Floor Residential Uses (ft.)	12	12	Yes
Parking Podium	Maximum height of a parking podium visible from the street is 9 ft. from finished grade	0	Yes, parking podium is not visible from the street
OPEN SPACE			
Minimum Private Open Space (sq. ft. per unit)	60	61 – 96 sq.ft.	Yes
Minimum Common Open Space (sq. ft. per Unit)	200 (85,800 sq.ft for 429 units)	87,300 sq.ft.	Yes
Street Trees (ft. frontage)	1 per 30 ft. of frontage 1,278.41 ft. frontage = 43 street trees	43	Yes
Upper Story Limitation	All floors above the third story in the CC District shall contain only residential uses and shall be set back a minimum of ten feet from the story below.	Four feet above the first story	No.
ADDITIONAL REGULATIONS			
Build to line – NC and CC	At least 60 percent of building frontage shall be constructed at the required set back or install substantial landscaping at least five feet wide between the build to line and ground floor residential use	7.5 – 8 feet landscaping	Yes
Required side and rear yards for Residential uses	In order to provide light and air for	33.5 feet to 90.2 feet	Yes

	residential uses, any wall containing windows, living room or bedrooms = 10-foot setback		
Max Building Length (ft.)	150	150	Yes, buildings along Sonoma Boulevard and Broadway do not exceed maximum 150-foot length
Street Frontage Improvements	Sidewalks, street furniture, streetlights, and street trees	Installing sidewalks (where necessary), streetlights, furniture, and trees.	Yes
Building Orientation and Entrances	Building shall be oriented to face public streets, parallel to streets	Proposed buildings along Sonoma Boulevard and Broadway are oriented and parallel to streets	Yes
Pedestrian Access on Large Sites (over five acres)	Internal connections, circulations, and interior pedestrian walkways	Providing internal connections, vehicle circulation and interior pedestrian walkways	Yes

The VMC requires all floors above the third story in the CC District to contain only residential uses and to be set back a minimum of ten feet from the story below. The proposal currently provides a four-foot setback from above the first floor to all buildings along Sonoma Boulevard and Broadway. The error was identified after the project was determined complete and therefore is not applicable.

Discussion

The following comments provide a summary of the staff analysis of the project. They are separated by subject to facilitate the review by the Planning Commission. The information provided is also referenced in Section IV, the Findings section at the end of the report.

Architecture

The architectural design reflects the coastal cottage style with recessed windows and rooflines articulated with raised elements and towers and detailed with shaped cornices. As noted above, the 429 units will be distributed between 11 residential buildings. The proposed buildings are visually interesting and will be constructed with a variety of high-quality building materials and painted with simple colors. Vertical and horizontal breaks façade breaks, building massing and modulation have been incorporated into the design of the buildings. The building features modulation, building wall articulation, and building materials that are aesthetically pleasing and compatible with the existing development. Staff notes that under State Housing law (see further discussion, below under IV. Findings), the project cannot be denied based on subjective design standards.

The project consists of two types of buildings (A and B). Both building types will have an overall building height of 59 feet and four inches tall and will be oriented to face the project frontages on Sonoma Boulevard and Broadway. Floors 2 through 4 of each building are designed with a 4-foot step back from the ground level. Building Type A, fronting Sonoma Boulevard and Broadway will have an overall

building length of 150 feet, consistent with the development standard. This standard was created to ensure the buildings would not appear too massive and bulky along the public rights of way. Building Type B, located within the interior of the site will have an overall building length of 239 feet. Since building type B does not face Sonoma Boulevard or Broadway, the maximum building length has been determined to be not applicable. Exterior materials would include a mixture of stucco, stone veneer, and horizontal siding will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White (see figures 3 - 6).

Figure 3 – Building A (Front of the building - Facing Sonoma Boulevard and Broadway)

Figure 4 – Building A (Rear of the building)

Figure 5 – Building B (Front of the building)

Figure 6 – Building B (Rear)

In addition to the residential buildings, a central amenity building containing a leasing office, restrooms, a mailroom, fitness and club rooms and a large, terraced balcony overlooking the central courtyard and pool areas is being proposed. The amenity building will have an overall building height of 41 feet and six inches and overall building length of 86 feet. Similar to building types A and B, the amenity building will have exterior materials of stucco, stone veneer, and horizontal siding will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White (see figure 7) .

Figure 7 – Amenity Building (Front)

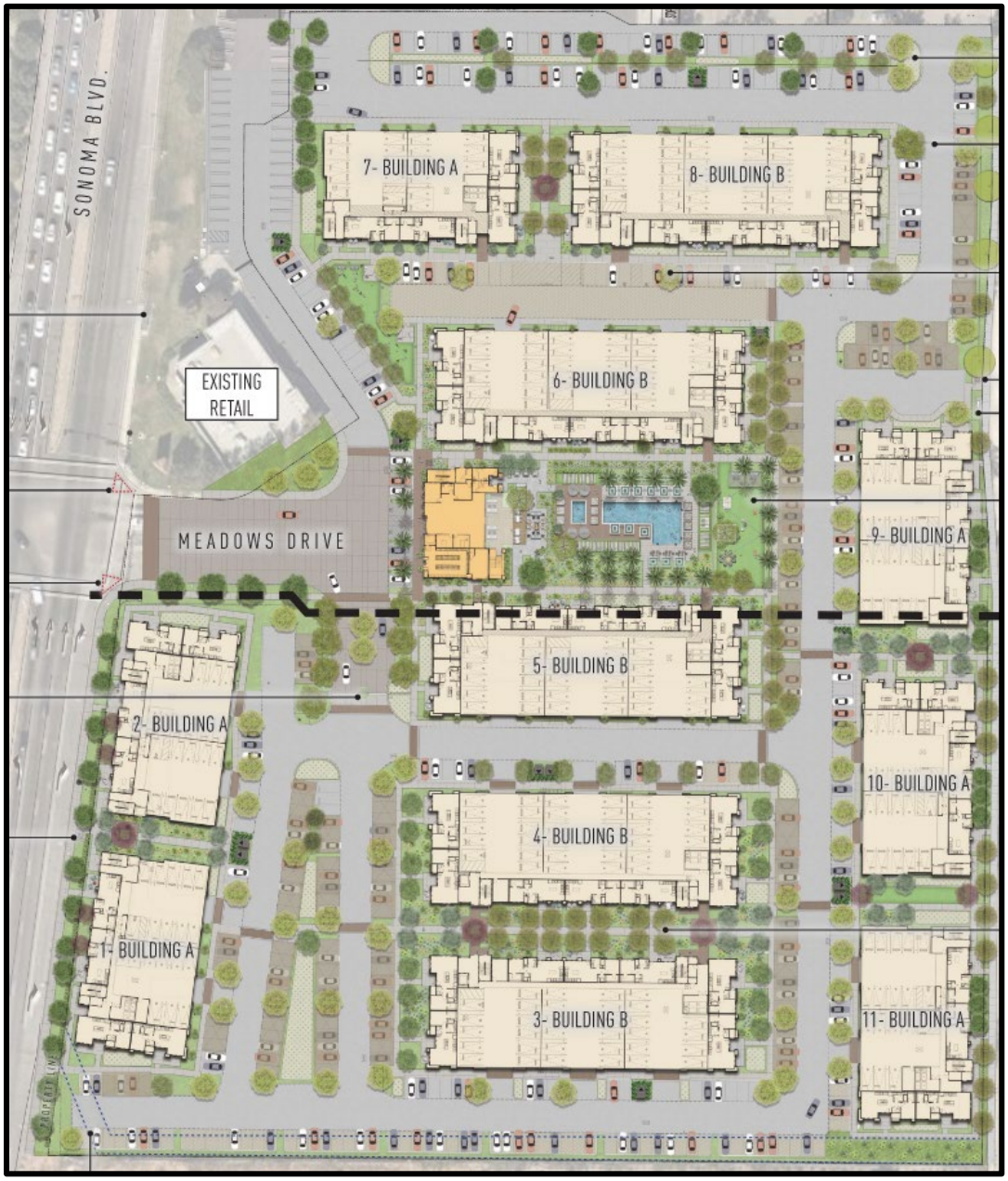
Landscaping and Open Space

The proposed landscaping is designed to complement the new buildings and provide transition from the buildings to the public realm. A variety of new drought tolerant shrubs, ground cover and trees totaling 105,959 square feet of new landscaping will be provided within the parking areas, common

areas and around the pool courtyard. A total of 43 trees will be planted along the south side of the entry driveway and along Sonoma Boulevard and Broadway, and 280 trees will be planted as part of the overall project. Staff believes that the new landscaping will create a visually pleasing setting (see Figure 8). A six-foot masonry block wall will be installed along the south property line while the remainder of the site would be secured with a six-foot tubular steel fence and vehicular gates.

Various outdoor amenity areas would be provided for residents and visitors, including a pool and courtyard with lounge seating and cabanas, recreation lawn, dog park, outdoor dining, and private patios. In total, the project will provide 87,300 square feet of common open space. In addition to the common open space, private outdoor space would be provided via balconies and ground-level patios.

Figure 8 – Proposed Landscaping



Lighting

Outdoor lighting will be provided throughout the project site, including landscaped and paved areas, along pedestrian pathways, internal vehicular roadways and within parking areas. Pole mounted streetlights would be installed along internal roadways within the project site and along Sonoma Boulevard and Broadway. Pedestrian pathways would be lit with lit bollards. In addition, wall-mounted lights and downlights would be installed on proposed buildings/garages and carports. Light levels would be sufficient for safety and wayfinding but would be directed downward to avoid light spillover to adjacent land uses.

Access, Circulation and Parking

The project will continue to have access off the existing Sonoma Boulevard (SR29)/Medows Drive intersection and off Broadway. The Sonoma Boulevard/Medows Drive intersection and Broadway driveway will continue to provide access to the existing commercial uses in the area. The primary entry into the project will be off the Sonoma Boulevard/Broadway that connects to 25-foot-wide drive aisles that will provide access to the proposed garages and covered/uncovered off-street parking spaces. A total of 698 off-street parking stalls will be provided, with approximately 276 surface parking spaces (covered/uncovered) and 422 covered parking stalls in the ground-level garages. 72 of the off-street parking will be electric vehicle (EV) stalls.

Additionally, four-foot pedestrian pathways will be provided to connect residents and visitors from Sonoma Boulevard and Broadway, through pedestrian gates, to the residential buildings, amenity areas throughout the site, off-street parking and to the existing public transit stop on Sonoma Boulevard and Broadway.

In addition, the proposed project will provide a total of 22 short- and 429 long-term bicycle stalls at various locations across the project site. Long-term bicycle parking would be provided within each residential building at the ground level utilizing wall-mounted bike racks.

Traffic

A Vehicles Miles Traveled (VMT) Assessment Memorandum has been prepared by Abrams Associates Traffic Engineer, Inc. VMT is estimated using an area-wide travel demand model maintained by the Solano Transportation Authority (STA) that is known as the Solano-Napa Activity Based Travel Demand Model (SNABM). The SNABM model calculates VMT based on the number of vehicles multiplied by the typical distance traveled by each vehicle originating from or driving to a certain area. The model divides areas within the City of Vallejo jurisdiction into transportation analysis zones (TAZ). Based on information from the SNABM, a typical multi-family residential development at the project site is forecast to generate approximately 26 daily vehicle miles of travel per resident and is within TAZ 395. As a result, the proposed project is forecast to have an average VMT of 14.4 miles, which is below the city's significance threshold of 26 VMT. Therefore, the project will not result in a significant effect relating to traffic.

Additionally, a Transportation Impact Assessment (TIA) was also prepared by Abrams Associates Traffic Engineer, Inc. The TIA was prepared to evaluate the potential transportation effects of the proposed project, such as intersection level of service, and site plan review regarding circulation and access for all modes (pedestrian, bicycle, transit) as well as parking.

The proposed Project is expected to generate approximately 176 trips during the AM peak hour and 167 trips during the PM peak hour. Intersection Levels of Service (LOS) were calculated at seven intersections. The results of this assessment found that the intersection of Sonoma Boulevard (State-Route 29) and Meadows Drive (primary project access) will operate at a LOS F. LOS F is Excessive Delays: Represents conditions at capacity, with extremely long delays. Queues may block upstream intersections. Operating at LOS F can lead to the potential for safety problems to develop with the

addition of more traffic. The City of Vallejo does not have an adopted minimum standard for LOS. Abrams Associates, suggests addressing the project's potential impact to the poor traffic operations by implementation of the right turn overlap phase for the eastbound approach. The proposed right-turn overlap phase would be forecast to improve the LOS from LOS F to LOS D in the AM peak hour from LOS F to LOS E in the PM peak hour. After review by the City of Vallejo Traffic Engineer, the proposed right-turn implementations would improve the LOS for the intersections of Sonoma Boulevard and Medows Drive and have added a condition of approval to implement the recommendation.

To address the potential safety problems, Abrams Associates suggests that the applicant work with the city to pay their fair share for the portion of future installation of the pedestrian and bicycle safety improvements. The applicant will work with the City of Vallejo Public Works department to add frontage improvements along Sonoma Boulevard and Broadway. The improvements will include sidewalk, curb and gutters, street furniture, trash receptacles and streetlights. Additionally, Cal Trans is planning on doing road improvements along Sonoma Boulevard that will include restriped travel lanes and bicycle lanes. On Broadway, the Vine trail will install a bicycle/pedestrian trail along that will connect to the existing Vine Trail located to the north of the site.

Solid Waste, Recycling, and Organic Waste Rooms

Each of the proposed residential buildings will have a solid waste, recycling, and organic waste (SWROW) room located on the ground floor of the building. The SWROW rooms in Building type A will measure 18 feet and five inches wide by 17 feet and nine inches in length. In Building type B, the SWROW rooms are 13 feet and 10 inches wide by 17 feet and 10 inches in length. The project will utilize a trash management service to remove bins from each of the SWROW rooms, stage them in locations to be picked up, and return them to the trash rooms. VMC Table 16.501-D: Minimum Resource and recycling Room Dimensions – Residential Multi-unit Dimensions states, buildings with 21-40 units require the trash room to be a minimum of 28 feet wide by 20 feet in length.

However, VMC Section 16.501.08 (L.1) modification states, *The public works director, in consultation with the chief building official or director, shall have the authority to modify the requirements, as listed below, subject to the design standards of this chapter when, upon a written application for a modification, the city engineer, chief building official or director determines that the applicant has demonstrated that imposition of the design standards is technically infeasible or creates an unreasonable hardship. Such authority shall be limited to the following:*

1. *Modify the dimensions of solid waste, recycling, and organic waste rooms, or outdoor enclosures, provided that the frequency of solid waste, recycling, and organic waste collection is modified to adequately serve the uses on the site and protect the public health, safety, and general welfare.*

The Public Works Director and Chief Building Official have reviewed the project and support the reduction in SWROW room size.

IV. ENVIRONMENTAL REVIEW

On October 6, 2023, the City of Vallejo prepared and circulated an Initial Study and Mitigated Negative Declaration (IS/MND) for public review (see Exhibit A to Attachment-1). The public review period was from October 6, 2023, to November 6, 2023.

The IS/MND concluded that with the implementation of mitigation measures, the project would not have a significant impact on the environment. A Mitigated Monitoring and Reporting Program (MMRP) has been prepared (see Exhibit B to Attachment-1). The IS/MND identified potential environmental impacts related to Air Quality, Biological Resources, Cultural Resources and Geology and Soils. The recommended mitigations to minimize these impacts to a less-than-significant level are provided in the Initial Study and MMRP. No impacts were identified in the Aesthetics, Agriculture and Forestry

Resources, Greenhouse Gas Emissions, Land Use and Planning, Mineral Resources, Public Services, Recreation, and Utilities and Service System topic areas.

V. FINDINGS

Development Review Findings

VMC Section 16.605.03, requires the review authority make the following findings prior to granting a Development Review (the findings are in bold, and staff's determination follows in italics):

A. Complies with all applicable specific standards and criteria of this Zoning Code.

The proposed project is located on a property zoned Central Corridor Commercial (CC). As noted in Tables 4, the project as conditioned, is consistent with the applicable development standards outlined in Title 16 of the Vallejo Municipal Code.

B. Is consistent with the general plan and any applicable approved specific plan or planned development.

The project site is designated as District – North Gateway (D-NG) on the General Plan Land Use Map. The General Plan 2040 D-NG designation applies to the northern portion of the area north of SR 37 between Sonoma Boulevard and Broadway Street, a highly visible area that serves as a gateway to Napa Valley from SR 37 (heading north) and to Vallejo from American Canyon (heading south). It is intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area. The maximum permitted FAR in the D-NG designation is 2.0, with a minimum residential density of 30 dwelling units per acre up to 50 dwelling units per acre. As proposed, the project is consistent with the D-NG General Plan land use designation in that it consists of the addition of 429-units apartment complex in an area that incorporates higher-density residential development that will support nearby services and activities in the area. The project is also consistent with applicable General Plan 2040 policies as noted in the report.

C. Complies with any design conditions, standards, or requirements imposed by a discretionary approval including but not limited to a major or minor use permit, variance, specific plan, planned development, or tentative map applicable to the project or the location where it is proposed.

The project shall comply with the approved design and conditions of approval imposed by the Planning commission in the attached Resolution.

D. Is in substantial compliance with any applicable adopted design guidelines.

Not applicable; City does not have any adopted design guidelines for multi-family development.

E. Will serve to achieve groupings of structures that are well related one to another and which, taken together, will result in a well-composed urban design, with consideration given to site, height, arrangement, texture, material, color and appurtenances, the relation of these factors to other structures in the immediate area, and the relation of the development to the total setting as seen from key points in the surrounding area; only elements of design which have some significant relationship to outside appearance shall be considered.

Not applicable; City does not have any adopted design guidelines for multi-family development.

F. Will be of a quality and demonstrates thoughtful site planning that will serve to protect the value of private and public investments in the area.

Not applicable; City does not have any adopted design guidelines for multi-family development.

G. That the project has been reviewed in compliance with the California Environmental Quality Act, if applicable, and the requirements of this chapter.

As discussed above, the project has been determined not to have a significant adverse impact on the environment with the implementation of all the required mitigation measures which have been incorporated in the Mitigation Monitoring and Reporting Program. A mitigated Negative Declaration (MND) will be adopted, and a Notice of Determination will be filed with the Solano County Clerk's Office.

Design Review Findings

VMC Section 16.604.03 (B) requires Planning Commission approval upon the recommendation of the Design Review Board. The required findings are in bold, and staff's analysis follows in italics:

A. Is consistent with the purposes of this chapter, the design policies of the general plan and any applicable specific plan, any adopted applicable design guidelines.

Purposes of the Chapter

1. **Establish regulations for an objective process that applies urban design principles to ensure that new construction supports the best of the city's architectural traditions.**

   As proposed, the project meets the objective design standards called out in VMC Chapter 16.204 – Commercial Districts, as discussed in detail below.

2. **Encourage new structures that show creativity and imagination, add distinction, interest, and variety to the community, and are environmentally sustainable.**

   The project is visually interesting and will be constructed with a variety of high-quality building materials and painted with simple, bold colors. Vertical and horizontal façade breaks, building massing, and modulation have all been incorporated into the design of the building and will create distinction in the established neighborhood. The project will incorporate a fully electric proposal, provide electric vehicle chargers and solar panels to be environmentally sustainable. Additionally, the project will be designed to meet the California Building Code Title 24 (energy efficiency standards) and the Green Building Standards.

3. **Promote architectural and design excellence in new construction and discourage poor quality development.**

   The project will be comprised of a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White. The project details, colors, materials, and landscaping are integrated with one and another to create a visually consistent proposal. Overall, the project uses high-quality, long-lasting material resulting in quality development.

4. **Ensure that future development should:**
   a. **Reflect the values of the community.**
   b. **Enhance the surrounding environment.**
   c. **Visually harmonize with its surroundings and not unnecessarily obstruct scenic views; and**

d. Avoid nostalgic misrepresentations that may confuse the relationships among structures over time.

The project reflects the promotion of infill development that targets underutilized sites, which is a policy identified in the General Plan. It will enhance the surrounding environment by incorporating high-density residential development that will support nearby and future services and activities in the area. Due to its location, the project will not obstruct scenic views and due to its nature and design, nor will it confuse the relationships among structures over time.

5. Ensure that decisions on housing development projects are based on objective design standards as required by the State Housing Accountability Act (Government Code Section 65589.5).

The Housing Accountability Act (HAA), California Government Code Section 65589.5(j), requires that when a proposed housing development complies with the applicable, objective general plan and zoning standards, but a local agency proposes to deny the project or approve it only if the density is reduced, the agency must base its decision on written findings supported by substantial evidence that:

1. The development would have a specific adverse impact on public health or safety unless disapproved, or approved at a lower density; and

2. There is no feasible method to satisfactorily mitigate or avoid the specific adverse impact, other than the disapproval, or approval at a lower density.

As described in Tables 3 and 4 of the staff report above, the project complies with the applicable, objective general plan and zoning standards. Therefore, the city may not deny the project or approve the project at a reduced density without basing its decision on the written findings under Section 65589.5(j), above.

6. Provide new landscaping to create a visually pleasing setting for structures on the site.

The project includes a total of 105,959 square feet of new drought tolerant landscaping throughout the site. A total of 43 new street trees, shrubs and ground cover will be planted to enhance the public realm within the subject site.

7. Promote the protection and retention of landmark, native, and specimen trees and if feasible mature canopy trees and other significant landscaping of aesthetic and environmental value.

Not applicable; the existing trees on the subject site do not meet the minimum dimensions of 24-inches in diameter as measured six-inches from the ground and therefore are not considered significant or specimen trees.

8. Ensure that the design, quality, and location of signs are consistent with the character and scale of the structures to which they are attached and are visually harmonious with surrounding development.

Not applicable; no signs being proposed with the project.

9. Promote the conservation, enhancement, preservation, and protection of historic resources.

Not applicable; there are no historic resources near this project's location.

Design policies of the General Plan

The project site is designated as District – North Gateway (D-NG) on the General Plan Land Use Map. The General Plan 2040 D-NG designation intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area. As proposed, the project is consistent with the D-NG land use designation in that it incorporates high-density residential development that will support nearby and future services and activities in the area. Additionally, the project is also consistent with applicable General Plan 2040 policies and actions.

Adopted applicable design guidelines.

The subject site is not within an adopted specific plan and design guidelines have not been adopted for this location.

B. Is consistent with any planning or zoning approvals by the director or the planning commission.

The project is consistent with the CC zoning district in that it is a proposal of a new 429 dwelling unit multi-family residential project and meets all appropriate development standards of the Vallejo Municipal Code. Vallejo Municipal Code Section 16.604.01(K.1.c), states residential projects with 50 or more units are a Design Review Board recommendation to the Planning Commission. The final authority of this action is the Planning Commission.

C. Complies with any other relevant city policies or regulations.

Not applicable; there are no additional city policies or regulations that are applicable to the project.

VI. NOTICING AND PUBLIC COMMENTS

On October 16, 2023, pursuant to VMC Section 16.602.08(A) – Noticing, a notice of this hearing was published in the Times Herald, mailed to all active neighborhood groups, all property owners within 500 feet of the subject property, and any other local agency expected to provide water, wastewater treatment, or other essential facilities or services to the project, as well as to members of the Planning Commission, the applicant and property owner.

VII. CONCLUSION / STAFF RECOMMENDATION

Based on the analysis contained in this staff report and attachments, staff recommends that the Planning Commission hold a public hearing, consider, and approve:

A. Resolution No. PC.23-08 ADOPTING the Initial Study/Mitigated Negative Declaration (ED23-0002) and APPROVING the associated Mitigation Monitoring and Reporting Program; and

B. Resolution No. PC23-09 APPROVING Development Review (DVR21-0021),Design Review (DR21-0005), and Landscape Review (LR21-0009) based on the findings and provided in the attached Resolution subject to the Conditions of Approval provided as Exhibit A to the Resolution.

VIII. EXPIRATION

Pursuant to VMC Section 16.602.12 (A.2), the approval of the Development Review (DVR21-0021), Design Review (DR21-0005), and Landscape Review (LR21-0009) shall automatically expire two years after approval, unless authorized construction has commenced prior to the expiration date of October 12, 2025.

IX. APPEAL PROCEDURE

VMC Section 16.602.14, Appeals, the applicant, or any party adversely affected by the decision of the Planning Commission may, within ten days after the rendering of the decision of the Planning Commission appeal in writing to the City Council by filing a written appeal with a fee of $1,409.21 with the City Clerk. Such a written appeal shall state the reason or reasons for the appeal and why the applicant believes he or she is adversely affected by the decision of the Planning Commission. Such appeal shall not be timely filed unless it is actually received by the City Clerk or designee no later than the close of business on the tenth calendar day after the rendition of the decision of the Planning Commission. If such date falls on a weekend or City holiday, then the deadline shall be extended until the next regular business day.

Notice of the appeal, including the date and time of the City Council's consideration of the appeal, shall be sent by the City Clerk to all property owners within five hundred feet of the project boundary. The Council may affirm, reverse, or modify any decision of the Planning Commission that is appealed.

X. ATTACHMENTS

1. Resolution No. PC23-08
    a. Exhibit A – Initial Study / Mitigated Negative Declaration.
    b. Exhibit B - Mitigation Monitoring and Reporting Program
2. Resolution No. PC23-09
    a. Exhibit A – Conditions of Approval
3. Traffic Impact Study
4. Vehicle Miles Travel Analysis
5. Design Review Board Resolution No. DRB23-03
6. Project Plans

Approved as to form:

By: _____ *for*
Veronica A.F. Nebb
City Attorney

CITY OF VALLEJO PLANNING COMMISSION

RESOLUTION NO. PC 23-08

A RESOLUTION OF THE PLANNING COMMISSION ADOPTING THE INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND THE MITIGATION MONITORING and REPORTING PROGRAM FOR THE 429-UNIT MULTI-FAMILY RESIDENTIAL HOUSING PROJECT LOCATED AT 5180 SONOMA BOULEVARD (APN:0067-150-280)

* *

I. GENERAL FINDINGS

WHEREAS, on August 29, 2017, the City Council adopted General Plan 2040; and

WHEREAS, on July 22, 2021, the City Council adopted a new Zoning Code and Zoning Map; and

WHEREAS, on December 21, 2021, Russell Square Consulting, Inc. submitted an application seeking a Development Review, Design Review Permit, and Landscape Review for the construction of a 429 dwelling unit multi-family housing project ("Project") located at 5180 Sonoma Boulevard ("the Property"); and

WHEREAS, the Property has a General Plan 2040 land use designation of District – North Gateway; and

WHEREAS, the Property is located in the Central Corridor Commercial Zoning District; and

WHEREAS, on April 21, 2022, the application for the Project was determined to be complete for processing; and

WHEREAS, pursuant to the California State Environmental Quality Act (CEQA) Guidelines, Section 15074 of Title 14 Public Resources of the California Code of Regulations, an Initial Study-Mitigated Negative Declaration (IS-MND), which is attached hereto as Exhibit A and incorporated herein, was prepared for the Project; and

WHEREAS, a Notice of Intent to Adopt the IS-MND was prepared and provided to adjacent property owners, all interested agencies, to all members of the public who had previously requested notification, and posted at City Hall and on the City's website,

notifying all interested parties of the availability of the IS-MND and the 30-day public review period commencing October 6, 2023 and ending on November 6, 2023; and

WHEREAS, the IS-MND identified potentially significant impacts to the environment, including specific impacts to Air Quality, Biological Resources, Cultural Resources, and Geology and Soils which would be avoided or mitigated to less than significant levels through adoption and implementation of the mitigation measures included in the Mitigation Monitoring and Reporting Program (MMRP), which is attached hereto as Exhibit B and incorporated herein; and

WHEREAS, on October 16, 2023, pursuant to Vallejo Municipal Code Section 16.602.08(A), notice of this hearing was published in the Times Herald and mailed to all active neighborhood groups and property owners within 500 feet of the Property and electronically mailed to the members of the Planning Commission and to the applicant; and

WHEREAS, the Planning Commission considered testimony and evidence, both written and oral, provided at the public hearing, as well as other documents contained in the record of proceedings relating to the Project, which are maintained in the offices of the City of Vallejo Planning Division; and

WHEREAS, based on evidence received at the public hearing, the Planning Commission makes the following factual findings:

II. CALIFORNIA ENVIRONMENTAL QUALITY ACT FINDINGS

1. The Planning Commission finds that on the basis of the whole record before it, the City of Vallejo, as a local agency, states that an Initial Study and proposed Mitigated Negative Declaration for the 429-unit multi-family residential project has been prepared and circulated for public review. The Initial Study-MND finds that the project would result in impacts that can be mitigated to a level of insignificance with the implementation of a Mitigation Monitoring and Reporting Program. Adoption of the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program satisfies Section 15074 (Consideration and Adoption of a Negative Declaration or Mitigated Negative Declaration) of the California Environmental Quality Act (CEQA).

2. The Planning Commission further finds that the Initial Study/Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program are adequate to support approval of the Project.

III. FINDINGS RELEVANT FOR PROJECT SUPPORTING THE MITIGATED NEGATIVE DECLARATION

1. The Project will not result in any development that would adversely affect any aesthetics, agriculture and forestry resources, greenhouse gas emission, land use and planning, mineral resources, population and housing, public services, recreation, or utility and service systems.

2. The Project is consistent with the City of Vallejo General Plan and the Zoning Ordinance.

3. The Project will not result in any development that would adversely affect any Air Quality, Biological Resources, Cultural Resources and Geology and Soils with the implementation of mitigation measures included in the Initial Study and Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program.

IV. RESOLUTION ADOPTING THE INITIAL STUDY-MITIGATED NEGATIVE DECLARATION AND MITIGATION MONITORING AND REPORTING PROGRAM TO ALLOW THE CONSTRUCTION OF A 429-UNIT MULTI-FAMILY RESIDENTIAL PROJECT

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF VALLEJO HEREBY RESOLVES that based upon the foregoing, the Planning Commission adopts the Initial Study- Mitigated Negative Declaration for the 429-unit multi-family residential project, provided as Exhibit A to this Resolution, and adopts the Mitigation Monitoring and Reporting Program, provided as Exhibit B to this Resolution.

V. VOTE

PASSED AND ADOPTED at a regular meeting of the Planning Commission of the City of Vallejo, State of California, on the 6th day of November 2023 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____

JAMAR STAMPS, CHAIRPERSON

City of Vallejo Planning Commission

Attest:

_____

CESAR OROZCO, SECRETARY
City of Vallejo Planning Commission

Exhibits

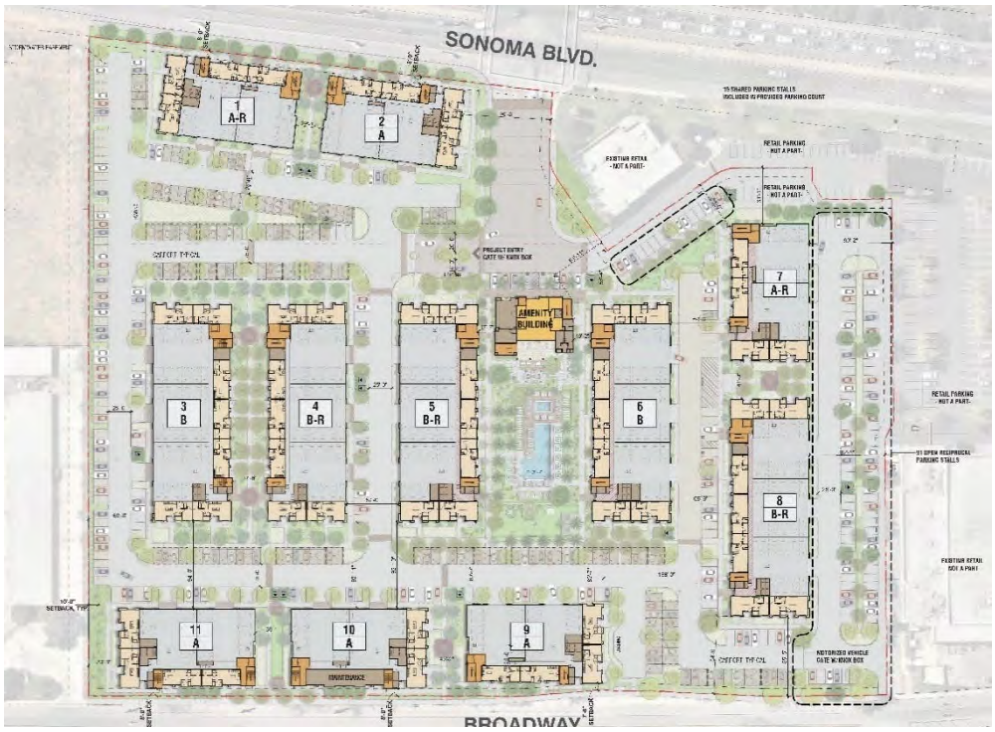
A. Exhibit A – Initial Study/Mitigated Negative Declaration
B. Exhibit B - Mitigation Monitoring and Reporting Program

DRAFT

INITIAL STUDY/
MITIGATED NEGATIVE DECLARATION

5180 SONOMA BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT

VALLEJO, CALIFORNIA



LSA

October 2023

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DRAFT

INITIAL STUDY/
MITIGATED NEGATIVE DECLARATION

5180 SONOMA BOULEVARD RESIDENTIAL DEVELOPMENT PROJECT

VALLEJO, CALIFORNIA

Submitted to:

City of Vallejo
Planning and Development Services
555 Santa Clara Street
Vallejo, California 94590

Prepared by:

LSA
157 Park Place
Pt. Richmond, California 94801
(510) 236-6810

Project No. CYV2201

LSA

October 2023

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LIST OF ABBREVIATIONS AND ACRONYMS

µg/m^3	Micrograms per cubic meter
A	Adaptation
AB	Assembly Bill
ABAG	Association of Bay Area Governments
ADA	Americans with Disabilities Act
ADT	average daily traffic
AFY	acre-feet per year
ALUC	Airport Land Use Commission
ALUCP	Airport Land Use Compatibility Plan
APN	Assessor's Parcel Number
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
Basin Plan	Water Quality Control Plan for the San Francisco Bay Basin
BMPs	Best Management Practices
Cal/OSHA	California Occupational Safety and Health Administration
CalEEMod	California Emissions Estimator Model
CALGreen Code	California Green Building Standards Code
California Register	California Register of Historical Resources
CalRecycle	California Department of Resources Recycling and Recovery
CARB	California Air Resources Board
CBC	California Building Code
CC	Central Corridor Commercial

CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CE	Community Engagement
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
cfs	cubic feet per second
CG	City Government Operations
CGP	Construction General Permit
CGS	California Geological Survey
CH_4	methane
City	City of Vallejo
Clean Air Plan	BAAQMD's 2017 Clean Air Plan
CNDDB	California Natural Diversity Data Base
CNEL	Community Noise Equivalent Level
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
County	Solano County
CRPR	California Rare Plant Rank
D-NG	North Gateway District
dB	decibels
dBA	A-weighted decibel(s)
DCE	dichloroethene

DOSH	Division of Occupational Safety and Health
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
E	Energy
EFZ	Earthquake Fault Zone
EOP	Emergency Operations Plan
ESA	Federal Endangered Species Act
EQ Zapp	California Earthquake Hazards Zone Application
EV	Electric vehicle
F	Fahrenheit
FAR	floor-area ratio
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FHWA-RD-77 108	FHWA Highway Traffic Noise Prediction Model
FTA	Federal Transit Administration
GHG	greenhouse gas
GVRD	Greater Vallejo Recreation District
GWh	gigawatt-hours
GWP	global warming potential
HFCs	hydrofluorocarbons
HVAC	heating, ventilation and air conditioning
I-80	Interstate 80
in/sec	Inches per second
IPaC	(USFWS) Information for Planning and Consultation

IS/MND	Initial Study/Mitigated Negative Declaration
kWh	kilowatt-hours
L_{eq}	equivalent continuous sound level
LID	Low Impact Development
L_{max}	maximum A-weighted sound level
LOS	Level of Service
LRA	Local Responsibility Area
LUST	Leaking Underground Storage Tank
MBTA	Migratory Bird Treaty Act
MEI	maximally exposed individual
MJHMP	Solano County Multi-Jurisdictional Hazard Mitigation Plan
MLD	Most Likely Descendant
mpg	miles per gallon
MRP	San Francisco Bay Region Municipal Regional Stormwater NPDES Permit
MTC	Metropolitan Transportation Commission
NAHC	Native American Heritage Commission
N_2O	nitrous oxide
NIMS	National Incident Management Systems
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Services
NWIC	Northwest Information Center
OES	Solano County Office of Emergency Services

OHP	(California) Office of Historic Preservation
OPR	(California) Governor's Office of Planning and Research)
OR	Off-Road Equipment
OSHA	Occupational Health and Safety Administration
OT	Optimized Travel
PCBs	polychlorinated biphenyls
Pb	lead
PCE	tetrachloroethylene
PFCs	perfluorocarbons
PG&E	Pacific Gas & Electric
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PM_{10}	particulate matter less than 10 microns in diameter
POTWs	publicly owned treatment works
PPV	peak particle velocity
PRC	California Public Resources Code
project	5180 Sonoma Boulevard Residential Development Project
RCRA	(Federal) Resource Conservation and Recovery Act
RE	Renewable Energy
RHNA	Regional Housing Needs Allocation
RMS	root mean square
ROGs	reactive organic gases
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SB	Senate Bill

SCP	Stormwater Control Plan
SCS	Sustainable Communities Strategy
SEMS	California's Standardized Emergency Management System
SF_6	sulfur hexafluoride
SO_2	sulfur dioxide
Soltrans	Solano County Transit
SPPS	Sears Point Pump Station
SPSF	Sears Point Storage Facility
SR 29	State Route 29
SR 37	State Route 37
STA	Solano Transportation Authority
STC	Sound Transmission Class
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TAZ	Transportation Analysis Zone
TCE	trichloroethylene
TDM	Transportation Demand Management
TIA	Traffic Impact Analysis
TPH	total petroleum hydrocarbons
Travis AFB	Travis Air Force Base
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency

USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UWMP	Urban Water Management Plan
VCUSD	Vallejo City Unified School District
VdB	vibration velocity decibels
VFWD	Vallejo Flood and Wastewater District
VHFHSZ	Very High Fire Hazard Severity Zone
VPD	Vallejo Police Department
VMT	vehicle miles traveled
W	Water, Wastewater and Solid Waste
WWTP	Wastewater Treatment Plant

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1.0 PROJECT INFORMATION

1. **Project Title:**

   5180 Sonoma Boulevard Residential Development Project

2. **Lead Agency Name and Address:**

   City of Vallejo
   Planning and Development Services
   555 Santa Clara Street
   Vallejo, California 94590

3. **Contact Person and Phone Number:**

   Cesar Orozco, Principal Planner
   (707) 648-5436

4. **Project Location:**

   The 12.6-acre project site is located at 5180 Sonoma Boulevard in the City of Vallejo (City), County of Solano (County) (Assessor's Parcel Number [APN] 0067-150-280). Interstate 80 (I-80), approximately 2.0 miles to the east, and State Route 37 (SR 37), approximately 0.25 mile south, provide regional access to the project site, while Sonoma Boulevard (State Route 29 [SR 29]) and Broadway provide direct access to the project site.

5. **Project Sponsor's Name and Address:**

   Russell Square Consulting
   700 Waterfront Way, Suite 301
   Vancouver, Washington 98660

6. **General Plan Designation:**

   North Gateway District (D-NG)

7. **Zoning:**

   Central Corridor Commercial

8. **Description of Project:**

   The proposed project involves the demolition of the existing, vacant "big box" retail store on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. A more detailed description of the proposed project is provided in Section 2.0, Project Description.

9. **Surrounding Land Uses and Setting:**

   The project site is bounded by Sonoma Boulevard to the west, Broadway to the east, commercial uses to the north, and industrial uses to the south. Single-family residential uses are located further to the west and east across Sonoma Boulevard and Broadway.

10. Other Public Agencies Whose Approval is Required (e.g., permits, financial approval, or participation agreements):

Please see Section 2.3, Project Approvals.

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resource Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

Native American consultation was conducted in compliance with Assembly Bill (AB) 52. On January 4, 2023, AB 52 consultation letters were sent to all Native American contacts that have formally requested notification. On January 18, 2023, the regionally affiliated tribe (Yocha Dehe Wintun Nation) responded by letter and indicated they have a cultural interest and would like to initiate consultation with the City.

On April 17, 2023, City staff met via teleconference with the tribal representative from the Yocha Dehe Wintun Nation (Tribe) to discuss the proposed project. During the meeting, the tribal representative requested that the City provide a copy of the cultural resources study prepared for the proposed project, which the City sent to the Tribe via email. During the tribal consultation, the tribal representatives did not provide substantial evidence of any tribal cultural resources occurring in or within the vicinity of the project site and did not express any specific concerns regarding the proposed project. However, in July 2023, the City received the treatment protocol for handling human remains and cultural items from the Tribe. This treatment protocol has been incorporated into this Initial Study.

2.0 PROJECT DESCRIPTION

The following describes the proposed 5180 Sonoma Boulevard Residential Development Project (project) that is the subject of this Initial Study/Mitigated Negative Declaration (IS/MND) prepared pursuant to the California Environmental Quality Act (CEQA). The proposed project would result in the construction of 429 residential dwelling units on the project site. The City of Vallejo (City) is the lead agency for review of the proposed project under CEQA.

2.1 PROJECT SITE

The following section describes the project location, existing conditions, surrounding land uses, and the regulatory setting.

2.1.1 Project Location

The 12.6-acre project site is located at 5180 Sonoma Boulevard in the City of Vallejo, Solano County (Assessor's Parcel Number [APN] 0067-150-280). The project site is bounded by Sonoma Boulevard to the west, Broadway to the east, commercial uses to the north, and industrial uses to the south. Single-family residential uses are located further to the west and east across Sonoma Boulevard and Broadway.

Interstate 80 (I-80), approximately 2.0 miles to the east, and State Route 37 (SR 37), approximately 0.25 mile south, provide regional access to the project site, while Sonoma Boulevard (State Route 29 [SR 29]) and Broadway provide direct access to the project site. Figure 2-1 shows the regional and local context of the project site. Delta Meadows and White Slough are located in close proximity to Meadows Plaza on the western side of Sonoma Boulevard (SR 29). Figure 2-2 depicts an aerial photograph of the project site and surrounding land uses.

2.1.2 Existing Conditions

The project site is currently developed with an existing, vacant "big box" retail store and associated asphalt parking. The existing commercial building is approximately 126,000 square feet and one story in height. Approximately 157 trees, including sycamore, ash, Bay laurel, Brazilian pepper tree, and redwoods are planted in the existing parking lot. There are also existing light standards within the parking area.

There are a number of existing utility easements on the project site which generally run along the project site boundaries. Specifically, a 20-foot-wide storm drain and water service easement runs in a north-south direction along the western boundary of the project site and continues east-west along the southern boundary of the project site. Additional easements on the project site include a 6-foot-wide public utility easement that runs along the site's eastern boundary, a 15-foot-wide water service easement that runs through the center of the site, and a 15-foot-wide water service easement that runs along the northern boundary.

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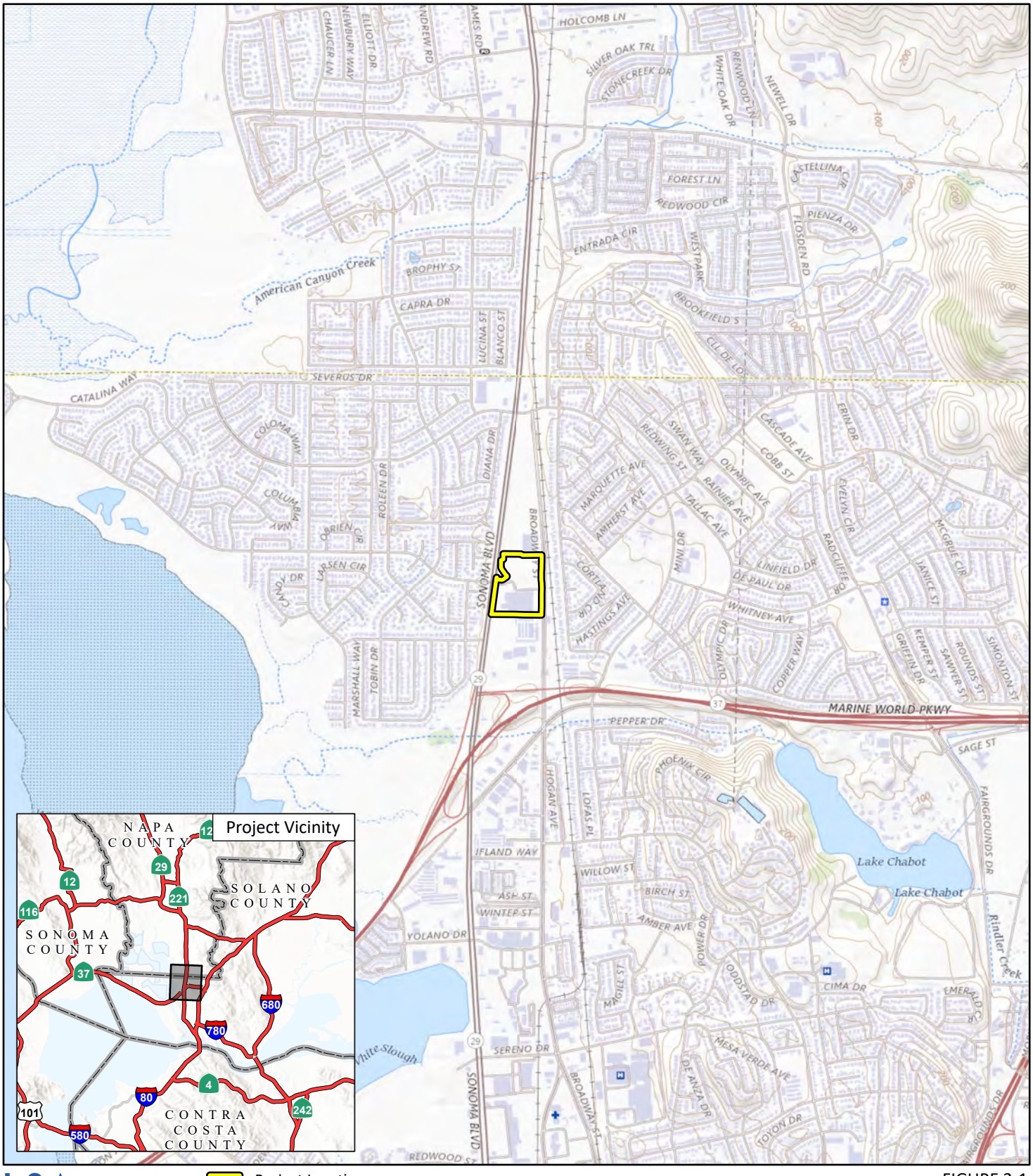

LSA

Project Location

FIGURE 2-1

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SOURCE: USGS The National Map (2018)

5180 Sonoma Boulevard Residential Development Project

Project Location

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LSA

FIGURE 2-2

Project Site Boundary

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SOURCES: Google Earth, 10/21/2020; LSA, 2022

5180 Sonoma Boulevard Residential Development Project
Aerial Photograph of the Project Site and Surrounding Land Uses

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2.1.3 Surrounding Land Uses

As shown in Figure 2-2, the project site is generally surrounded by residential uses with some vacant lands zoned for industrial and commercial use. To the north, the project site is bounded by a large triangular vacant lot that is zoned Central Corridor Commercial. The project is bordered immediately to the east by Broadway and railroad tracks. Further east is the College Estates Subdivision, consisting of single-family residential development. The project site is bordered immediately to the south by industrial uses, including Central Self-Storage and Recology Vallejo and SR 37. The project site is bordered immediately to the west by Sonoma Boulevard. Further west is the Delta Meadows subdivision, consisting of single-family residential development.

2.1.4 Circulation and Access

The primary vehicular access to the site is via the existing Sonoma Boulevard (SR 29)/Meadows Drive intersections, with a secondary driveway off Broadway. The Sonoma Boulevard/Meadows Drive intersection also provides vehicular access for the existing adjoining retail properties.

2.1.5 Regulatory Setting

The *Vallejo General Plan 2040* designates the project site as District - North Gateway (D-NG) The D-NG designation "is intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area." The maximum permitted floor-area ratio (FAR) in the D-NG designation is 2.0, with a minimum residential density of 16 dwelling units per acre up to 50 dwelling units per acre. The project site is zoned Central Corridor Commercial. Land uses in the Central Corridor Commercial zone include mixed-use with housing, medium and high density residential, or non-residential uses at street level, subject to design and development standards to promote a mixed-use and pedestrian orientation.

The City of Vallejo has adopted the 2022 California Building Code (CBC) (Title 24, Part 2 of the California Code of Regulations [CCR]). However, because the project application was deemed complete in April 2022, the 2019 CBC, which was in effect until January 1, 2023, would apply to the proposed project. The proposed project would be required to comply with all elements of the 2019 CBC, including the California Fire Code, and the California Green Building Standards Code (also referred to as the CALGreen Code).

2.2 PROPOSED PROJECT

The proposed project involves the demolition of the existing, vacant commercial building retail store on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. In addition to the residential buildings, the project would provide a central amenity building, as well as associated parking, infrastructure, and landscaping improvements. Individual components of the proposed project are discussed below.

2.2.1 Building Program

The project applicant proposes to develop the site with 11 multi-family residential buildings containing 429 dwelling units, ranging in size from approximately 767 to 1,637 square feet. Two building types are proposed with a mixture of one-, two-, and three-bedroom units. Both building types would be four-stories tall and would be oriented to face the project frontages on Sonoma Boulevard and Broadway. Levels 2 through 4 of the residential buildings would be designed with a 4-foot step back from the ground level. The architectural design would reflect the coastal cottage style with recessed windows and rooflines articulated with raised elements and towers and detailed with shaped cornices. Exterior materials would include a mixture of stucco, stone veneer, and horizontal siding. Figure 2-3 shows the conceptual site plan for the proposed project. Typical building elevations are shown in Figure 2-4. Conceptual renderings are shown in Figure 2-5.

Each building would provide ground floor units with enlarged patios for private open space and an enclosed parking garage for resident parking. In addition to the residential buildings, the project would provide a central amenity building containing leasing offices, restrooms, and a mailroom on the ground floor. Fitness and club rooms would be provided on the second floor along with a large terrace balcony overlooking the central courtyard and pool areas.

2.2.2 Open Space and Landscaping

Various outdoor amenity areas would be provided, including a pool and courtyard with lounge seating and cabanas, recreation lawn, dog park, outdoor dining, and private patios. The project does not include any outdoor areas intended for public use. In total, the proposed project would provide 87,300 square feet of common open space. In addition to the common outdoor areas, private outdoor spaces would be provided via private balconies and ground-level patios, as described above. In total, the proposed project would provide approximately 28,787 square feet of private open space. Figure 2-6 shows the proposed open space plan.

Landscaping, including various tree species, shrubs and groundcover would be provided in proposed parking areas, common areas, and around the pool courtyard. Trees would be planted along the south side of the entry driveway and along Sonoma Boulevard and Broadway. Existing street trees along Sonoma Boulevard and Broadway would be retained, as feasible. A total of approximately 280 trees would be planted as part of the proposed project. The proposed landscape site plan is shown in Figure 2-7.

The project proposes a 6-foot-high masonry block wall along the southern property line. The remainder of the site would be secured with a 6-foot-high tubular steel fence and vehicular gates. The tubular steel fencing would be open to preserve views, in compliance with Vallejo Municipal Code Section 16.505.04-D.1.

Outdoor lighting would be provided throughout the project site, including landscaped and paved areas, along pedestrian pathways, internal vehicular roadways and within proposed parking areas. Pole-mounted streetlights would be installed along internal roadways within the project site and along Sonoma Boulevard and Broadway, as needed. Pedestrian pathways would be lit with

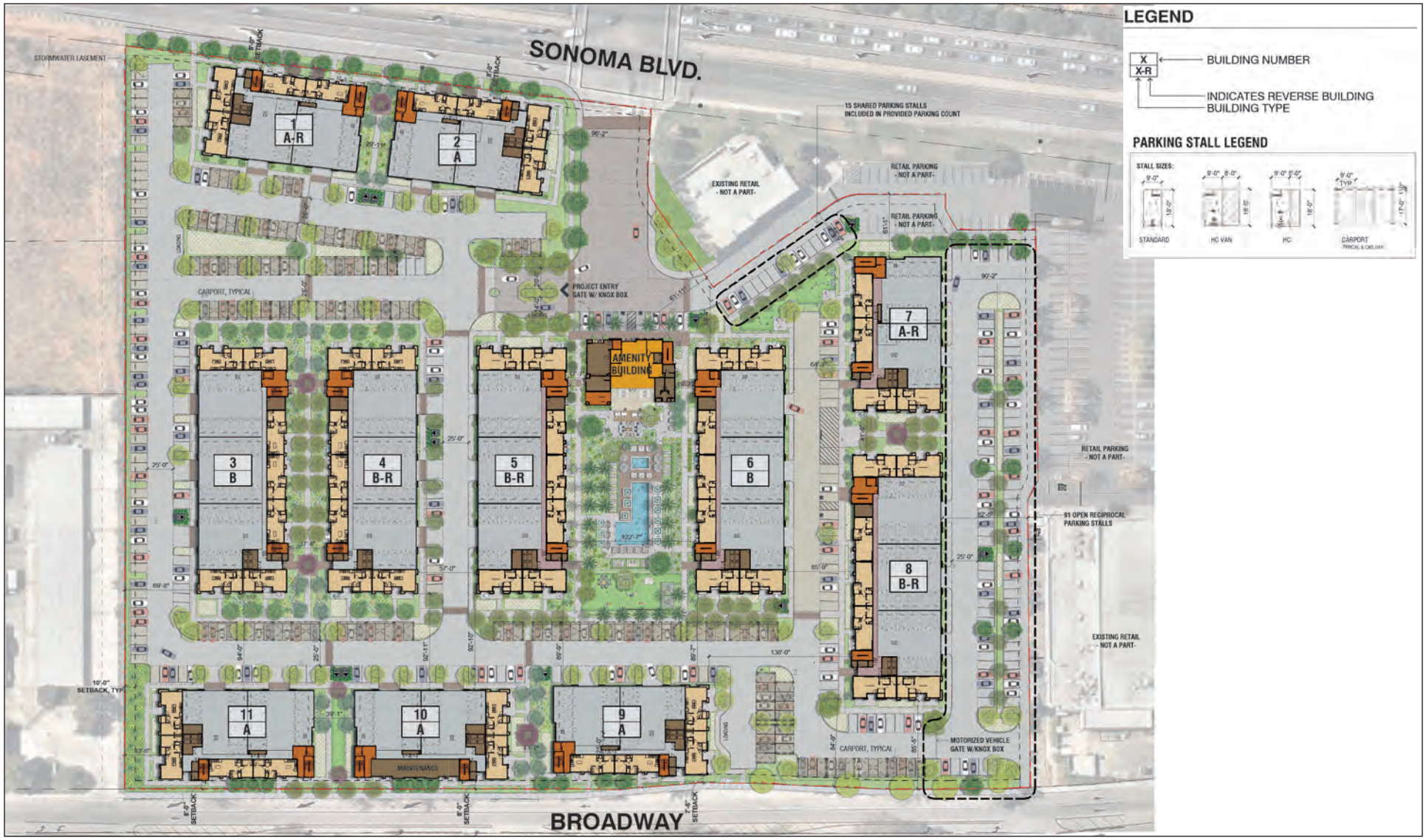

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FIGURE 2-3

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5180 Sonoma Boulevard Residential Development Project
Overall Site Plan

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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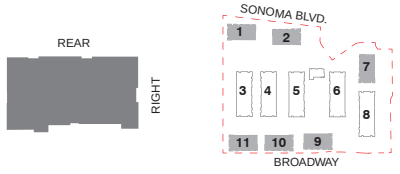
REAR

RIGHT

PERSPECTIVE



KEY MAP

SITE KEY MAP

BUILDING TYPE A (BLDG NO. 1, 2, 7, 9, 10, 11)

LSA

FIGURE 2-4a

0 16 32
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5180 Sonoma Boulevard Residential Development Project
Elevations

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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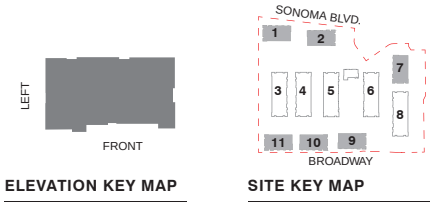
FRONT

LEFT

PERSPECTIVE



ELEVATION KEY MAP

SITE KEY MAP

BUILDING TYPE B (BLDG NO. 1, 2, 7, 9, 10, 11)

LSA

FIGURE 2-4b

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5180 Sonoma Boulevard Residential Development Project
Elevations

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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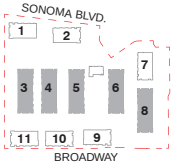
ELEVATIONS KEY MAP



SITE KEY MAP

BUILDING TYPE B (BLDG NO. 3, 4, 5, 6, 8)

LEFT

PERSPECTIVE

LSA

FIGURE 2-4c

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5180 Sonoma Boulevard Residential Development Project
Elevations

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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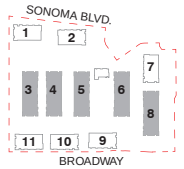
REAR

ELEVATIONS KEY MAP



SITE KEY MAP

BUILDING TYPE B (BLDG NO. 3, 4, 5, 6, 8)

RIGHT

PERSPECTIVE

LSA

FIGURE 2-4d

0 16 32
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5180 Sonoma Boulevard Residential Development Project
Elevations

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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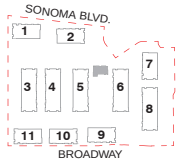
PERSPECTIVE

PERSPECTIVE



SITE KEY MAP

AMENITY BUILDING ELEVATIONS

LSA

FIGURE 2-4e

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5180 Sonoma Boulevard Residential Development Project
Elevations

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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VIEW OF PROJECT ENTRY

VIEW OF POOL COURTYARD AND AMENITY BUILDING

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FIGURE 2-5a

5180 Sonoma Boulevard Residential Development Project
Conceptual Renderings

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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VIEW OF POOL COURTYARD AND PASEO

VIEW FROM SONOMA BOULEVARD

LSA

FIGURE 2-5b

5180 Sonoma Boulevard Residential Development Project
Conceptual Renderings

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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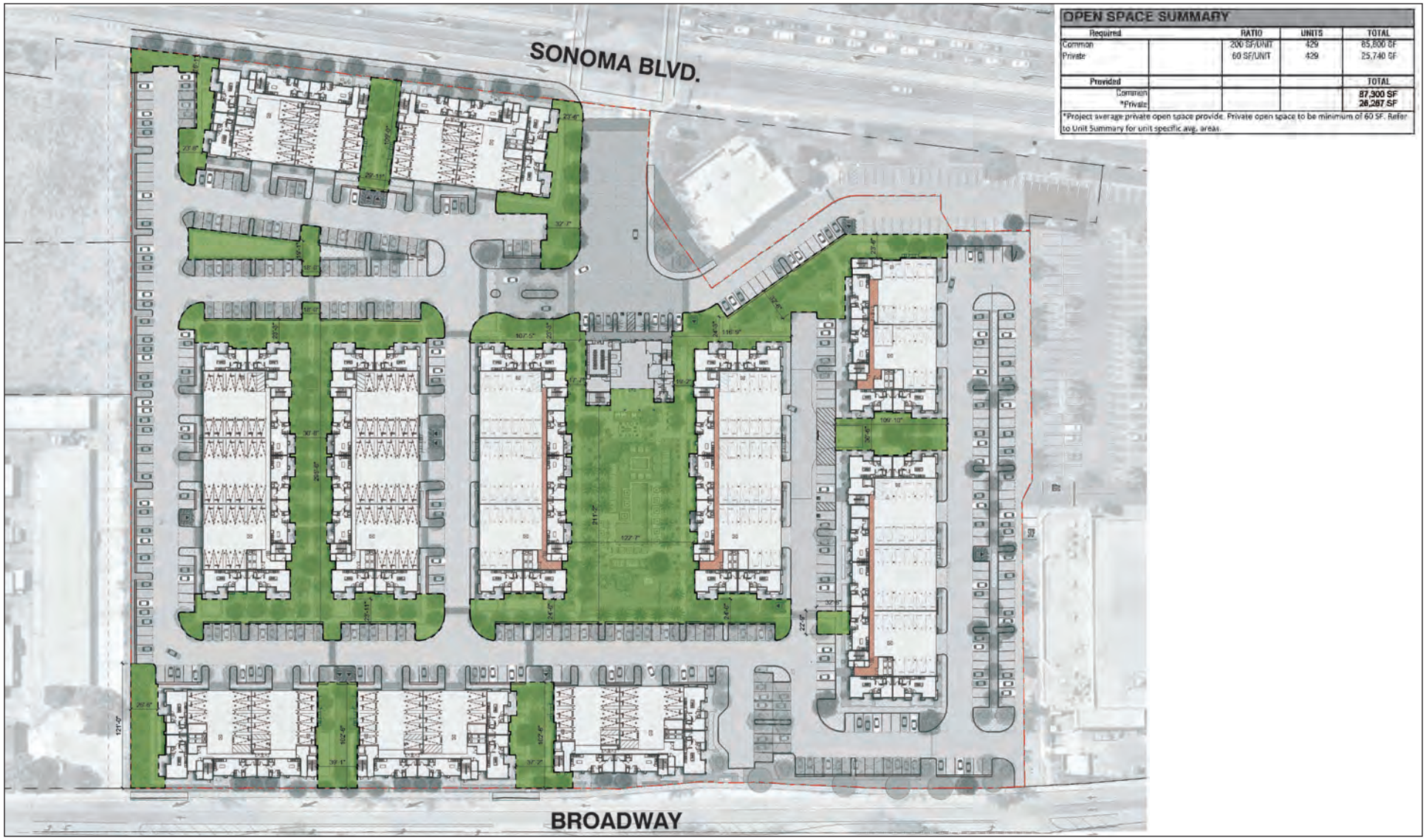

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FIGURE 2-6

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5180 Sonoma Boulevard Residential Development Project
Open Space Plan

SOURCES: TCA Architects; RSC Vallejo, 3/21/2021

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FIGURE 2-7a

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5180 Sonoma Boulevard Residential Development Project
Landscape Plan

SOURCES: MJS Landscape Architecture; RSC Vallejo, 3/18/2021

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CONCEPTUAL LANDSCAPE PLAN - NORTH SECTION

FIGURE 2-7b

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5180 Sonoma Boulevard Residential Development Project

Landscape Plan

SOURCES: MJS Landscape Architecture; RSC Vallejo, 3/18/2021

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CONCEPTUAL LANDSCAPE PLAN - SOUTH SECTION

LSA

FIGURE 2-7c

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5180 Sonoma Boulevard Residential Development Project

Landscape Plan

SOURCES: MJS Landscape Architecture; RSC Vallejo, 3/18/2021

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bollards. In addition, wall-mounted lights and downlights would be installed on proposed buildings/ garages and carports. Light levels would be sufficient for safety and wayfinding but would be directed downward to avoid light spillover to adjacent land uses.

2.2.3 Access, Circulation, and Parking

The proposed project would be accessed via the existing intersection of Sonoma Boulevard and Meadows Drive. From this primary entry, a network of 25-foot-wide drive aisles would provide access to proposed garages and off-street parking stalls. The existing driveway from Broadway would provide a secondary vehicular access point. Minimum 4-foot-wide pedestrian pathways would be provided to connect the proposed residential buildings with amenity areas, parking, and existing public transit stops on Sonoma Boulevard and Broadway. A total of 698 parking stalls would be provided, including approximately 276 surface parking stalls (open stalls and carports) and 422 covered parking stalls in ground-level garages. Approximately 10 percent of the provided parking is proposed to be electric vehicle (EV) charging ready as required by the California Green Building Standards Code.

In addition, the proposed project would provide 22 short- and 429 long-term bicycle parking stalls at various locations across the project site. Long-term bicycle parking would be provided within each residential building at the ground level utilizing wall-mounted bike racks to achieve the required one bicycle parking stall per dwelling unit.

2.2.4 Utilities and Infrastructure

The project site is located in an urban area that is currently served by existing utilities, including water, sanitary sewer, storm drainage, electricity, gas, and telecommunications infrastructure. Existing and proposed utility connections are discussed below.

2.2.4.1 Water

Water service in the City of Vallejo is provided by the City of Vallejo Water Department. The proposed project would include the installation of new 6-inch and 12-inch domestic water lines to provide domestic water supply. In addition, the proposed project would include 7 new fire hydrant assemblies, building connections, and 6-inch and 12-inch fire water lines to provide for fire protection. These new water lines would connect to existing 12-inch water pipelines along Broadway and across Sonoma Boulevard.

2.2.4.2 Wastewater

The Vallejo Flood and Wastewater District provides wastewater collection and treatment services for Vallejo. Sewer flows from the proposed project would be discharged into the existing 18-inch sanitary sewer main running south along Sonoma Boulevard. The proposed project would include installation of new 8- and 12-inch sewer mains within the internal roadways to serve the proposed development.

Sanitary sewer flows from the project site would flow to the Sears Point Pump Station (SPPS) and the Sears Point Storage Facility (SPSF), which are key elements of the sewer system. SPPS receives wastewater flow and pumps it into the 30-inch diameter force main running parallel to SR 37

and ultimately into the Wastewater Treatment Plant (WWTP).

2.2.4.3 Stormwater

As described above, the project site is currently developed with an existing commercial building, paving, concrete, and other impervious surfaces, which account for the majority of the 12.6-acre project site. Surface flows on the project site currently flow to existing storm drain pipelines located within the project site, discharging to an existing 30-inch storm drain that runs north-south along the western project boundary and a 48-inch storm drain that runs east-west along the southern project boundary.

Upon construction of the proposed project, approximately 9.7 acres (77 percent) of the project site would be covered by impervious surfaces and approximately 2.8 acres (23 percent) would be covered by pervious surfaces, consisting of landscaped areas with lawns, shrubs, and trees. The proposed project would include approximately 16,131 square feet of bioretention space throughout the project site that would be used for stormwater control. The proposed project would include the construction of 12-, 15- and 30-inch storm drains with associated manholes throughout the project area that would connect to the bioretention basins and existing stormwater facilities on Sonoma Boulevard and Broadway.

2.2.4.4 Electricity

Electricity and gas service is provided to the project site by Pacific Gas & Electric. The proposed project would include connections to the existing electric lines that run adjacent to the project site, including lines within Sonoma Boulevard and Broadway. The proposed project would not include the use of natural gas.

2.2.5 Demolition and Construction

The proposed project would result in the demolition of the existing 126,000-square-foot building and all surface pavements (approximately 422,493 square feet) on the project site. The maximum depth of excavation for building pads and utilities would be approximately 12 feet. It is anticipated that a total of 11,000 cubic yards of soils would be cut and 6,000 cubic yards would be used for fill, and therefore approximately 5,000 cubic yards of fill would be exported. Construction of the proposed project is anticipated to begin in October 2023 and would occur over an approximately 24-month period.

2.3 PROJECT APPROVALS

While the City is the CEQA Lead Agency for the proposed project, other agencies also have discretionary authority related to the project and approvals or serve as a responsible and/or trustee agency in connection to the proposed project. A list of these agencies and potential permits and approvals that may be required is provided in Table 2.A, below.

Table 2.A: Potential Permits and Approvals

Lead Agency	Permits/Approvals
City of Vallejo	● Adoption of the IS/MND for the 5180 Sonoma Boulevard Residential Development Project ● Planning Entitlements: Development Review, Design Review and Landscape Review ● Building Division: Building Permits ● Public Works: Grading Permits, On- and Off-site improvements, Encroachment Permits ● Review/Approve fire truck access and site fire flow design
Other Agencies	
Vallejo Flood and Wastewater District	● Review/Approve design of wastewater systems and connections to existing wastewater facilities

Source: LSA (2023).

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3.0 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

None of the environmental factors identified below would be potentially affected by this project, as indicated by the checklist in Section 4.0. All identified impacts can be mitigated to a less-than-significant level with implementation of recommended mitigation measures.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☐ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology/Soils	☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials
☐ Hydrology/Water Quality	☐ Land Use/Planning	☐ Mineral Resources
☐ Noise	☐ Population/Housing	☐ Public Services
☐ Recreation	☐ Transportation	☐ Tribal Cultural Resources
☐ Utilities/Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance

3.1 DETERMINATION

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "Potentially Significant Impact" or "Potentially Significant Unless Mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature _____ Date _____

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4.0 CEQA ENVIRONMENTAL CHECKLIST

4.1 AESTHETICS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Except as provided in Public Resources Code Section 21099, would the project:				
a. Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☒	☐
c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

a. Would the project have a substantial effect on a scenic vista? ***(No Impact)***

The City of Vallejo General Plan designates many panoramic views from hilltops and elevated roadways as scenic resources including views of San Pablo Bay, Mare Island Strait, the waterfront, Sulphur Springs Mountain, the Vaca Mountains, White Slough, the Napa River Wetlands, Sky Valley and the City itself.[1] In order to preserve these scenic views, the City has established residential view district zoning regulations for some residential neighborhoods located on the hills in Vallejo. However, the project site is not located within a hillside area; therefore, the site is not subject to the residential view district zoning regulations. Although the Napa River Wetlands and White Slough are located approximately 1.2 miles to the west of the project site and Sulphur Springs Mountain is located approximately 3.4 miles to the east, no scenic vista to or from the project site exists due to existing development and intervening vegetation.

The project site is located on a previously developed parcel containing a large, vacant commercial building and surrounding surface parking. The areas directly surrounding the project site are also developed including commercial uses to the north, industrial uses to the south, and single-family residential uses to the west and east across Sonoma Boulevard and Broadway. Under existing conditions, structures, roads and trees block any public views of scenic vistas. The existing commercial building is one story (approximately 30 feet) in height, and the proposed multi-family residential buildings would not exceed four stories (approximately 60 feet) in height. Although, implementation of the project would result in an overall increase in building height at the project site, the proposed project is well within the height limit of eight stories established in the City of Vallejo Municipal Code. Therefore, the proposed project would not obscure any views of scenic

[1] City of Vallejo. 2017. *Propel Vallejo 2040 General Plan.* August 29.

vistas from surrounding public vantage points. In addition, the project site is not located in an area considered to be within view of a scenic vista. Therefore, the proposed project would have **no impact** on a scenic vista.

b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? ***(Less-Than-Significant Impact)***

According to the California Department of Transportation (Caltrans),[2] there are no officially designated Scenic Highways located within the City of Vallejo. However, a portion of State Route 37 (SR 37) and a portion of State Route 29 (SR 29) west of the project site are eligible for designation as State Scenic Highways. SR 29 runs north-south and directly abuts the project site to the west as Sonoma Boulevard. As such, the project site would be directly visible from SR 29. SR 37 runs east-west through Vallejo as Marine World Parkway and crosses SR 29 approximately 0.5 mile south of the project site.

The proposed project involves the demolition of the existing, vacant commercial building on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. Proposed development would be consistent with existing development in the project vicinity; therefore, the proposed project is not anticipated to adversely affect views from SR 29. Furthermore, the proposed project would not damage any rock outcroppings, or historic buildings as these resources are not present on the project site.

As outlined in Section 2.0, Project Description, approximately 157 trees, including sycamore, ash, Bay laurel, Brazilian pepper tree, and redwoods are planted in the existing parking lot. These trees would be removed as part of the proposed project. However, existing street trees along Sonoma Boulevard and Broadway would be retained, as feasible. In addition, landscaping, including various tree species, shrubs, and groundcover would be provided in proposed parking areas, common areas, and around the pool courtyard. Trees would be planted along the south side of the entry driveway and along Sonoma Boulevard and Broadway. A total of approximately 280 trees would be planted as part of the proposed project. As such, the proposed project would have a **less-than-significant impact** on scenic resources located within view of an eligible State Scenic Highway.

c. In non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? ***(Less-Than-Significant Impact)***

The project site is located within an urbanized area. As noted previously in Section 2.0, Project Description, the project site is located in the North Gateway District (D-NG) and is zoned as Central Corridor Commercial (CC). The D-NG designation "is intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to

[2] California Department of Transportation (Caltrans). 2019. California State Scenic Highway System Map. Website: caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=2e921695c43643b1aaf7000dfcc19983 (accessed November 14, 2022).

both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area." The maximum permitted floor-area ratio (FAR) in the D-NG designation is 2.0, with a minimum residential density of 16 dwelling units per acre up to 50 dwelling units per acre. Land uses in the Central Corridor Commercial zone include mixed-use with housing, medium and high density residential, or non-residential uses at street level, subject to design and development standards to promote a mixed-use and pedestrian orientation.

The proposed project would provide 429 units on 12.6 acres with an overall density of 34 dwelling units per acre, which complies with the requirements of 16/50 units/acre, 5,000-square-foot minimum lot size, and 50-foot minimum lot width stated in Table 16.204-A of the Vallejo Municipal Code. In addition, the proposed project would undergo Development Review and Design Review consistent with Sections 16.604 and 16.605 of the Vallejo Municipal Code. These existing requirements would include review of the physical improvements to the project site, including the overall building scale, massing, and design to ensure compatibility and compliance with City requirements governing scenic quality. Compliance with the design standards and guidelines outlined for the D-NG land use designation and the CC zoning district would ensure that the proposed project would preserve and enhance the desired character of the existing surrounding residential neighborhoods. Therefore, the proposed project would not conflict with applicable zoning or other regulations governing scenic quality, and this impact would be **less than significant.**

*d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? **(Less-Than-Significant Impact)***

The project site is located in an urban area with a variety of existing light sources including streetlights, interior and exterior building lighting, and light associated with traffic on nearby roadways. According to City Municipal Code Chapter 16.506 on Lighting and Glare, the project site is located in an area of high ambient lighting levels. Development of the proposed project would incrementally increase the amount of nighttime lighting in the surrounding area due to new interior and exterior lighting at the individual residential units and lighting associated with additional vehicular traffic to and from the project site.

As previously discussed in Section 4.1.c, the project would comply with the design standards and guidelines outlined for the D-NG land use designation and CC zoning district and would be subject to Development Review and Design Review in compliance with Sections 16.604 and 16.605 of the Vallejo Municipal Code. Compliance with these City regulations would ensure that the additional lighting associated with the proposed project would not create a new source of substantial light or glare that would result in the disruption of day or nighttime views in the area. All lighting associated with the project would be shielded such that it would minimize light spillage onto adjacent properties in accordance with Development Standards established for the residential uses and City Municipal Code Chapter 16.506 on Lighting and Glare. Through compliance with City zoning and municipal code regulations, lighting would not substantially affect daytime or nighttime views in the project vicinity. Therefore, this impact would be **less than significant.**

4.2 AGRICULTURE AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d. Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

a. Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? ***(No Impact)***

The project site is currently developed with an existing, vacant commercial building and associated surface parking. Land uses surrounding the project site are primarily residential and commercial with some vacant lands zoned for commercial and industrial use. No agricultural uses are located within or adjacent to the project site. The project site is classified as "Urban and Built-Up Land" by the State Department of Conservation.[3] Therefore, the site is not classified as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (collectively known as "Important

[3] California Department of Conservation (DOC). 2018. Division of Land Use Resource Protection. California Important Farmland Finder. Website: maps.conservation.ca.gov/dlrp/ciff (accessed November 11, 2022).

Farmland"). As such, the proposed project would not result in the conversion of Important Farmland to another use, and **no impact** would occur.

b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract? ***(No Impact)***

The *Vallejo General Plan 2040* designates the project site as North Gateway District (D-NG) and the site is within the Central Corridor Commercial (CC) zoning district. Neither the land use designation nor the zoning district allows for development of the project site for agricultural use. In addition, the project site is not under a Williamson Act contract. Therefore, development of the proposed project would not conflict with existing zoning for agricultural use or a Williamson Act contract**. No impact** would occur.

c. Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))? ***(No Impact)***

The project site is currently developed with an existing, vacant commercial building and associated surface parking. Land use surrounding the project site is primarily residential with some vacant lands zoned for industrial and commercial use. The project site is zoned as Central Corridor Commercial (CC), which does not allow development of the project site for agricultural use. No parcels adjacent to or near the project site are zoned for forest land, timberland, or timberland production. The proposed project would not conflict with existing zoning for, or cause rezoning of, forest land or timberland, nor would it result in the loss of forest land or conversion of forest land to non-forest uses. As such, **no impact** to forest land or timberland would occur.

d. Would the project result in the loss of forest land or conversion of forestland to non-forest use? ***(No Impact)***

Please refer to Section 4.2.c. The proposed project would not result in the loss of forest land or conversion of forest land to non-forest uses. **No impact** would occur.

e. Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use? ***(No Impact)***

Please refer to Sections 4.2.a. and 4.2.c. The project site is located within an urban environment, and the proposed project would not involve other changes in the existing environment which, due to their location or nature, could result in the conversion of farmland to non-agricultural use or conversion of forest land to non-forest use. Therefore**, no impact** would occur.

4.3 AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☒	☐	☐
c. Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

The project site is located within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD), which regulates air quality in the San Francisco Bay Area. Air quality conditions in the San Francisco Bay Area have improved significantly since the BAAQMD was created in 1955. Ambient concentrations of air pollutants and the number of days during which the region exceeds air quality standards have fallen substantially. In the City of Vallejo, and the rest of the San Francisco Bay Area air basin, exceedances of air quality standards occur primarily during meteorological conditions conducive to high pollution levels, such as cold, windless winter nights or hot, sunny summer afternoons.

Within the BAAQMD, ambient air quality standards for ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter (PM_{10}, $PM_{2.5}$), and lead (Pb) have been set by both the State of California and the federal government. The State has also set standards for sulfate and visibility. The BAAQMD is under State non-attainment status for ozone and particulate matter standards. The BAAQMD is classified as non-attainment for the federal ozone 8-hour standard and non-attainment for the federal $PM_{2.5}$ 24-hour standard.

*a. Would the project conflict with or obstruct implementation of the applicable air quality plan? **(Less-Than-Significant Impact)***

The applicable air quality plan is the BAAQMD 2017 Clean Air Plan (Clean Air Plan),[4] which was adopted on April 19, 2017. The Clean Air Plan is a comprehensive plan to improve Bay Area air quality and protect public health. The Clean Air Plan defines control strategies to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest heath risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce greenhouse gas emissions to protect the climate.

[4] Bay Area Air Quality Management District (BAAQMD). 2017b. *Clean Air Plan*. April 19.

Consistency with the Clean Air Plan can be determined if the project: (1) supports the goals of the Clean Air Plan; (2) includes applicable control measures from the Clean Air Plan; and (3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

Clean Air Plan Goals. The primary goals of the Bay Area Clean Air Plan are to: attain air quality standards; reduce population exposure and protect public health in the Bay Area; and reduce greenhouse gas emissions and protect climate.

The BAAQMD has established significance thresholds for project construction and operational impacts at a level at which the cumulative impact of exceeding these thresholds would have an adverse impact on the region's attainment of air quality standards. The health and hazards thresholds were established to help protect public health. As discussed below in Section 4.3.b, implementation of the proposed project would result in less-than-significant operation-period emissions and, with implementation of **Mitigation Measure AIR-1**, the project would result in less-than-significant construction-period emissions. Therefore, the project would not conflict with the Clean Air Plan goals.

Clean Air Plan Control Measures. The control strategies of the Clean Air Plan include measures in the following categories: Stationary Source Measures, Transportation Measures, Energy Measures, Building Measures, Agriculture Measures, Natural and Working Lands Measures, Waste Management Measures, Water Measures, and Super-Greenhouse Gas (GHG) Pollutants Measures.

> ***Stationary Source Control Measures.*** The Stationary Source Measures, which are designed to reduce emissions from stationary sources such as metal melting facilities, cement kilns, refineries, and glass furnaces, are incorporated into rules adopted by the BAAQMD and then enforced by BAAQMD Permit and Inspection programs. Since the project would not include any stationary sources, the Stationary Source Measures of the Clean Air Plan are not applicable to the proposed project.
>
> ***Transportation Control Measures.*** The BAAQMD identifies Transportation Control Measures as part of the Clean Air Plan to decrease emissions of criteria pollutants, toxic air contaminants (TACs), and GHGs by reducing demand for motor vehicle travel, promoting efficient vehicles and transit service, decarbonizing transportation fuels, and electrifying motor vehicles and equipment. The proposed project involves the demolition of the existing, vacant commercial building on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. As discussed in Section 4.17, Transportation, the proposed project is not expected to result in a significant increase in the generation of vehicle trips or vehicle miles traveled (VMT). In addition, as discussed in Section 2.0, Project Description, approximately 10 percent of the provided parking is proposed to be electric vehicle (EV) charging ready as required by the California Green Building Standards Code (CALGreen Code). In addition, the proposed project would provide 22 short- and 429 long-term bicycle parking stalls at various locations across the project site; therefore, the project would support the ability to use alternative modes of transportation. As such, the proposed project would promote BAAQMD initiatives to reduce vehicle trips and VMT and would increase the use of alternate means of transportation.

Energy Control Measures. The Clean Air Plan also includes Energy Control Measures, which are designed to reduce emissions of criteria air pollutants, TACs, and GHGs by decreasing the amount of electricity consumed in the Bay Area, as well as decreasing the carbon intensity of the electricity used by switching to less GHG-intensive fuel sources for electricity generation. Since these measures apply to electrical utility providers and local government agencies (and not individual projects), the Energy Control Measures of the Clean Air Plan are not applicable to the proposed project.

Building Control Measures. The BAAQMD has authority to regulate emissions from certain sources in buildings such as boilers and water heaters but has limited authority to regulate buildings themselves. Therefore, the strategies in the control measures for this sector focus on working with local governments that have authority over local building codes, to facilitate adoption of best GHG control practices and policies. The proposed project would be required to comply with the latest CALGreen Code standards. Therefore, the Building Control Measures of the Clean Air Plan are not applicable to the proposed project.

Agriculture Control Measures. The Agriculture Control Measures are designed to primarily reduce emissions of methane. Since the project does not include any agricultural activities, the Agriculture Control Measures of the Clean Air Plan are not applicable to the proposed project.

Natural and Working Lands Control Measures. The Natural and Working Lands Control Measures focus on increasing carbon sequestration on rangelands and wetlands, as well as encouraging local governments to enact ordinances that promote urban-tree plantings. Since the project does not include the disturbance of any rangelands or wetlands, the Natural and Working Lands Control Measures of the Clean Air Plan are not applicable to the proposed project.

Waste Management Control Measures. The Waste Management Measures focus on reducing or capturing methane emissions from landfills and composting facilities, diverting organic materials away from landfills, and increasing waste diversion rates through efforts to reduce, reuse, and recycle. The project would comply with local requirements for waste management (e.g., recycling and composting services). Therefore, the proposed project would be consistent with the Waste Management Control Measures of the Clean Air Plan.

Water Control Measures. The Water Control Measures focus on reducing emissions of criteria pollutants, TACs, and GHGs by encouraging water conservation, limiting GHG emissions from publicly owned treatment works (POTWs), and promoting the use of biogas recovery systems. Since these measures apply to POTWs and local government agencies (and not individual projects), the Water Control Measures are not applicable to the proposed project.

Super-GHG Control Measures. The Super-GHG Control Measures are designed to facilitate the adoption of best GHG control practices and policies through the BAAQMD and local government agencies. Since these measures do not apply to individual projects, the Super-GHG Control Measures are not applicable to the proposed project.

Clean Air Plan Implementation. As discussed above, the proposed project would generally implement the applicable measures outlined in the Clean Air Plan, including Transportation Control Measures. Therefore, the project would not disrupt or hinder implementation of a control measure from the Clean Air Plan, and this impact would be **less than significant**.

b. Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? ***(Less-Than-Significant with Mitigation Incorporated)***

The BAAQMD is currently designated as a non-attainment area for State and national ozone standards and national particulate matter ambient air quality standards. The BAAQMD non-attainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in non-attainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. The following analysis assesses the potential construction- and operation-related air quality impacts and CO impacts of the proposed project.

Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate matter emissions (i.e., fugitive dust) generated by demolition, grading, hauling, and other activities. Emissions from construction equipment are also anticipated and would include CO, nitrogen oxide (NO_x), reactive organic gases (ROG), directly-emitted particulate matter ($PM_{2.5}$ and PM_{10}), and TACs such as diesel exhaust particulate matter.

Site preparation and project construction would involve demolition, grading, paving, and other activities. Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The BAAQMD has established standard measures for reducing fugitive dust

emissions (PM_{10}). With the implementation of these Basic Construction Mitigation Measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, SO_2, NO_x, ROGs and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles are delayed. These emissions would be temporary and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using the California Emissions Estimator Model (CalEEMod) version 2022.1, consistent with BAAQMD recommendations. Construction of the proposed project is anticipated to begin in October 2023 and would occur over an approximately 24-month period, which was included in CalEEMod. Construction activities would include the demolition of the existing building and all surface pavements on the project site, which was also included in CalEEMod. In addition, it is anticipated that a total of 11,000 cubic yards of soils would be cut and 6,000 cubic yards would be used for fill, and therefore approximately 5,000 cubic yards of fill would be exported, which was included in CalEEMod. Other construction details are not yet known; therefore, default assumptions (e.g., construction fleet activities and construction trips) from CalEEMod were used. Construction-related emissions are presented in Table 4.A. CalEEMod output sheets are included in Appendix A.

Table 4.A: Project Construction Emissions (in Pounds Per Day)

Project Construction	ROG	NO_X	Exhaust PM_{10}	Fugitive Dust PM_{10}	Exhaust $PM_{2.5}$	Fugitive Dust $PM_{2.5}$
Average Daily Emissions	9.2	17.9	0.5	2.9	0.5	0.7
BAAQMD Thresholds	**54.0**	**54.0**	**54.0**	**BMP**	**82.0**	**BMP**
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: LSA (July 2023)
BAAQMD =.Bay Area Air Quality Management District
BMPs = best management practices
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases

As shown in Table 4.A, construction emissions associated with the project would be less than significant for ROG, NO_X, $PM_{2.5}$, and PM_{10} exhaust emissions. The BAAQMD requires the implementation of the BAAQMD Basic Construction Mitigation Measures (best management practices) to reduce construction fugitive dust impacts to a less-than-significant level, as outlined in **Mitigation Measure AIR-1.**

Mitigation Measure AIR-1 In order to meet the Bay Area Air Quality Management District's (BAAQMD) fugitive dust threshold, the following BAAQMD Basic Construction Mitigation Measures shall be implemented:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
- All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.
- All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.
- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of the California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
- All construction equipment shall be maintained and properly tuned in accordance with manufacturers' specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
- A publicly-visible sign shall be posted with the telephone number and person to contact at the City of Vallejo regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

As shown in Table 4.A, construction emissions associated with the proposed project would be below established thresholds. In addition, consistent with BAAQMD requirements, **Mitigation Measure AIR-1** requires implementation of best management practices (BMPs) during construction to control fugitive dust emissions. Therefore, with implementation of this measure, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard, and impacts would be **less than significant with mitigation incorporated**.

Operational Emissions. Long-term air pollutant emission impacts are those associated with mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment) related to the proposed project. The proposed project would include all new electric buildings and would not utilize natural gas for the

operation of the proposed project. Therefore, the proposed project would not result in energy source emissions.

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other particulate matter emissions processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment. Area source emissions associated with the project would include emissions from the use of landscaping equipment.

Emission estimates for operation of the project were calculated using CalEEMod. Model results are shown in Table 4.B. Trip generation rates for the project were based on the project's trip generation of approximately 1,948 average daily trips, as identified in Traffic Impact Analysis (TIA) prepared for the proposed project.[5]

Table 4.B: Project Operational Emissions

	ROG	NO_X	PM_{10}	$PM_{2.5}$
Pounds Per Day				
Mobile Source Emissions	8.6	8.1	12.0	3.1
Area Source Emissions	10.4	0.0	0.0	0.0
Energy Source Emissions	0.0	0.0	0.0	0.0
Total Emissions	**18.9**	**8.1**	**12.0**	**3.1**
BAAQMD Thresholds	54.0	54.0	82.0	54.0
Exceed Threshold?	**No**	**No**	**No**	**No**
Tons Per Year				
Mobile Source Emissions	1.5	1.4	2.2	0.6
Area Source Emissions	1.9	0.0	0.0	0.0
Energy Source Emissions	0.0	0.0	0.0.	0.0
Total Emissions	**3.4**	**1.4**	**2.2**	**0.6**
BAAQMD Thresholds	10.0	10.0	15.0	10.0
Exceed Threshold?	**No**	**No**	**No**	**No**

Source: LSA (July 2023).
BAAQMD = Bay Area Air Quality Management District
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases

[5] Abrams Associates Traffic Engineering, Inc. 2022a. *Traffic Impact Analysis, Technical Appendix, RSC Vallejo, City of Vallejo.* April 11, 2022.

The primary emissions associated with the project are regional in nature, meaning that air pollutants are rapidly dispersed on release or, in the case of vehicle emissions associated with the project, emissions are released in other areas of the San Francisco Bay Area air basin. The daily and annual emissions associated with project operational trip generation, energy, and area sources are identified in Table 4.B for ROG, NO_x, PM_{10}, and $PM_{2.5}$.

The results shown in Table 4.B indicate the project would not exceed the significance criteria for daily or annual ROG, NO_x, PM_{10} or $PM_{2.5}$ emissions. Therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard. Impacts would be **less than significant**.

Localized CO Impacts. Emissions and ambient concentrations of CO have decreased dramatically in the Bay Area with the introduction of the catalytic converter in 1975. No exceedances of the State or federal CO standards have been recorded at Bay Area monitoring stations since 1991. The BAAQMD 2017 CEQA Guidelines[6] include recommended methodologies for quantifying concentrations of localized CO levels for proposed projects. A screening level analysis using guidance from the BAAQMD CEQA Guidelines was performed to determine the impacts of the project. The screening methodology provides a conservative indication of whether the implementation of a proposed project would result in significant CO emissions. According to the BAAQMD CEQA Guidelines, a proposed project would result in a less-than-significant impact to localized CO concentrations if the following screening criteria are met:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, and the regional transportation plan and local congestion management agency plans.

- Project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.

- The project would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, or below-grade roadway).

Implementation of the proposed project would not conflict with the policies or programs of the Solano Transportation Authority (STA). As identified in Section 4.17, Transportation, the proposed project would generate approximately 176 AM peak hour trips and 167 PM peak hour trips; therefore, the project's contribution to peak hour traffic volumes at intersections in the vicinity of the project site would be well below 44,000 vehicles per hour. Therefore, the proposed project would not result in localized CO concentrations that exceed State or federal standards, and impacts would be **less than significant**.

6 BAAQMD. 2017a. California Environmental Quality Act Air Quality Guidelines. May.

c. *Would the project expose sensitive receptors to substantial pollutant concentrations?* ***(Less-Than-Significant with Mitigation Incorporated)***

Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. Exposure from diesel exhaust associated with construction activity contributes to both cancer and chronic non-cancer health risks.

According to the BAAQMD, a project would result in a significant impact if it would: individually expose sensitive receptors to TACs resulting in an increased cancer risk greater than 10.0 in one million, increased non-cancer risk of greater than 1.0 on the hazard index (chronic or acute), or an annual average ambient $PM_{2.5}$ increase greater than 0.3 micrograms per cubic meter ($\mu g/m^3$).

The project site is located in an urban area in close proximity to existing residential uses that could be exposed to diesel emissions exhaust during the construction period. To estimate the potential cancer risk from project construction equipment exhaust (including diesel particulate matter), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location (i.e., a nearby residential land use). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the California Air Resources Board (CARB) exposure methodology, with the air dispersion modeling performed using the United States Environmental Protection Agency (USEPA) dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and site-specific meteorological data. Table 4.C, below, identifies the results of the analysis utilizing the standard Tier 2 construction equipment. Model snapshots of the sources are provided in Appendix B.

Table 4.C: Unmitigated Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Sensitive Receptor Risk	45.54	0.035	0.000	0.174
Worker Receptor Risk	0.78	0.052	0.000	0.262
Threshold	**10 in one million**	**1.0**	**1.0**	**0.30**
Exceed?	**Yes**	**No**	**No**	**No**

Source: LSA (July 2023).
$\mu g/m^3$ = micrograms per cubic meter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table 4.C, the maximum cancer risk for the sensitive receptor maximally exposed individual (MEI) would be 45.54 in one million, which would exceed the BAAQMD cancer risk threshold of 10 in one million. The worker receptor risk would be lower at 0.78 in one million. The total chronic hazard index would be 0.035 for the sensitive receptor MEI and 0.052 for the worker

receptor MEI, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. The results of the analysis indicate that the total $PM_{2.5}$ concentration would be 0.174 µg/m^3 for the sensitive receptor MEI and 0.212 µg/m^3, which would not exceed the BAAQMD significance threshold of 0.30 µg/m^3 for the worker receptor MEI. As indicated above, the cancer risk of 45.54 in one million at the sensitive receptor MEI would exceed BAAQMD thresholds. Therefore, implementation of **Mitigation Measure AIR-2** would be required to reduce substantial pollutant concentrations during project construction.

Mitigation Measure AIR-2 During construction of the proposed project, the project contractor shall ensure all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 2 emissions standards equipped with Level 3 diesel particulate filters or the equivalent.

Table 4.D identifies the results of the analysis with implementation of **Mitigation Measure AIR-2.**

Table 4.D: Mitigated Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration (µg/m^3)
Sensitive Receptor Risk	4.86	0.007	0.000	0.023
Worker Receptor Risk	0.15	0.010	0.000	0.034
Threshold	**10 in one million**	**1.0**	**1.0**	**0.30**
Exceed?	**No**	**No**	**No**	**No**

Source: LSA (July 2023).
µg/m^3 = micrograms per cubic meter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table 4.D, the mitigated cancer risk at the sensitive receptor MEI would be 4.86 in one million, which would not exceed the BAAQMD cancer risk of 10 in one million. Therefore, with implementation of **Mitigation Measure AIR-2**, construction of the proposed project would not exceed BAAQMD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations.

Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of TACs. Therefore, the project would not expose sensitive receptors to substantial levels of TACs, and this impact would be **less than significant with mitigation incorporated**.

d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? ***(Less-Than-Significant Impact)***

During project construction, some odors may be present due to diesel exhaust. However, these odors would be temporary and limited to the construction period. The proposed project would not include any activities or operations that would generate objectionable odors and once operational, the project would not be a source of odors. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. This impact would be **less than significant**.

4.4 BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

The majority of the project site consists of the existing commercial building, parking lots, and landscaping, including trees. Trees observed during a site survey conducted on January 7, 2023, include mostly non-native ornamental trees, such as Peruvian pepper (*Schinus molle*), sweet gum (*Liquidambar styraciflua*), and London plane (*Platanus* sp.). Ornamental shrubs, such as lily (*Agapanthus* spp.), have also been planted in the parking lot. Ruderal (weedy) vegetation is growing in the patches of understory vegetation beneath the trees and shrubs. These non-native plants include bristly ox-tongue (*Helminthotheca echioides*), stinkwort (*Dittrichia graveolens*), clover (*Trifolium* sp.), veldt grass (*Ehrharta erecta*), and various other non-native grasses and forbs. Native cudweed (*Gnaphalium* sp.) was also observed growing in cracks of the pavement within the parking lots.

The project site is located within a developed area with planted trees and shrubs, and patches of ruderal vegetation. Trees and/or shrubs on the project site provide nesting habitat for bird species, such as white-tailed kite (*Elanus leucurus*) and Anna's hummingbird (*Calypte anna*). Some birds could also nest in the eaves of the buildings. The paved areas provide suitable nesting habitat for killdeer (*Charadrius vociferus*).

Wildlife observed during the field survey consists of Anna's hummingbird, California gull (*Larus californicus*), American crow (*Corvus brachyrhynchos*), rock pigeon (*Columba livia*), downy woodpecker (*Picoides pubescens*), house sparrow (*Passer domesticus*), lesser goldfinch (*Spinus psaltria*), white-crowned sparrow (*Zonotrichia leucophrys*), and yellow-rumped warbler (*Setophaga coronate*). Bats could roost in the trees and buildings, but no bats or sign of roosting bats were observed during the field survey. Other species likely to occur on site include the non-native house mouse (*Mus musculus*) and roof rat (*Rattus rattus*).

a. Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? ***(Less-Than-Significant with Mitigation Incorporated)***

Special-status species are defined as follows:

- Species that are listed, formally proposed for listing, or designated as candidates for listing as threatened or endangered under the federal Endangered Species Act (ESA);
- Species that are listed, or designated as candidates for listing, as rare, threatened, or endangered under the California Endangered Species Act (CESA);
- Plant species on California Rare Plant Rank (CRPR) Lists 1A, 1B, and 2 in the CNPS Inventory of Rare and Endangered Plants;
- Animal species designated as Species of Special Concern or Fully Protected by the California Department of Fish and Wildlife (CDFW);
- Species that meet the definition of rare, threatened, or endangered under Section 15380 of the CEQA guidelines; and
- Species considered being a taxon of special concern by the relevant local agencies.

To identify special-status plant and wildlife species known to occur or potentially occurring in the project site vicinity, the following resources were queried: (1) the California Department of Fish and Wildlife's California Natural Diversity Database (CNDDB[7]) for species records in the project vicinity; (2) the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants of California[8] for records of special-status plant species in the Cuttings Wharf 7.5-minute U.S.

[7] California Department of Fish and Wildlife (CDFW). 2023. California Natural Diversity Database (CNDDB), commercial version dated January 2023. Biogeographic Data Branch, California Department of Fish and Wildlife, Sacramento.

[8] California Native Plant Society (CNPS). 2023. Rare Plant Program. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org (accessed February 1, 2023).

Geological Survey (USGS) quadrangle; and (3) the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation on-line system.[9]

A biologist conducted a reconnaissance-level field survey at the project site on January 7, 2023. During this survey, preliminary information on vegetation types, wildlife habitat, and potential jurisdictional features (e.g., wetlands) were collected. The disturbed condition of the project site is generally not suitable to support most special-status species, and no known candidate, sensitive, or special-status species were observed inhabiting the project site during the general survey.

Based on the results of the database search, literature review and the reconnaissance-level field surveys, four special-status wildlife species were determined to be potentially present on the project site. These species are shown in Table 4.E.

Table 4.E: Special-Status Species Evaluated for the Project

Species	Status[1]	Habitat/Blooming Period	Discussion
ANIMALS			
Birds			
White-tailed kite *Elanus leucurus*	CFP	Open grasslands, meadows, or marshes. Require dense-topped trees or shrubs for nesting and perching.	Suitable nesting habitat present in large trees and shrubs and suitable foraging habitat present.
American peregrine falcon *Falco peregrinus anatum*	CFP	Forages in open country, mountains, and sea coasts. Nests on high cliffs, bridges, and buildings.	No suitable nesting habitat present, but species may briefly fly or forage over the site.
Mammals			
Townsend's western big-eared bat *Corynorhinus townsendii*	SSC	Found in wooded areas with caves or old buildings for roost sites.	No suitable roosting and hibernating habitat present, but could forage over the site.
Pallid bat *Antrozous pallidus*	SSC	Roosts in caves, tunnels, buildings, under bridges, and in tree hollows; forages over variety of habitats.	Suitable roosting habitat may be present in trees adjacent to site; this bat could occasionally occur as a transient while foraging at night. No trees with large hollows observed during the field survey.

Source: LSA (2023).
[1] Status Codes: SSC = California Species of Special Concern; CFP = California Fully Protected Species

Of the four special-status species identified, only the following two wildlife species have suitable habitat present in the project area and are discussed in further detail below. No special-status plant species were identified on the project site.

White-Tailed Kite and Other Nesting Birds. White-tailed kite is a California Fully Protected Species. This species nests in trees or large shrubs with dense foliage located near suitable foraging habitat

[9] United States Fish and Wildlife Service (USFWS). 2023. Information for Planning and Consultation (IPaC). January 31.

(e.g., grasslands, marshes, agricultural fields). Preferred prey includes voles and mice. Although no nests were observed during the reconnaissance survey, the numerous trees near the site provide suitable nest sites. No suitable foraging habitat is present at the site, but suitable foraging habitat is present in the grasslands in the region.

Proposed construction of the project could result in a potentially significant impact to nesting white-tailed kites or otherwise protected bird species. Disturbance of other migratory birds during their nesting season (February 1 through August 31) could result in "take", which is prohibited under the Migratory Bird Treaty Act (MBTA) and Section 3513 of the California Fish and Game Code. California Fish and Game Code (Section 3503) also prohibits take or destruction of bird nests or eggs. Implementation of **Mitigation Measure BIO-1** would reduce potential impacts to nesting birds to a less-than-significant level.

Mitigation Measure BIO-1

Prior to construction activities occurring during the nesting bird season (February 1 through August 31), preconstruction activity surveys for nesting birds shall be conducted by a qualified biologist to ensure that no nests are disturbed during project implementation. Surveys shall be conducted no more than seven days prior to the initiation of construction activities. During this survey, the biologist shall inspect all trees and other potential nesting habitats (e.g., shrubs, ground and structures) in the impact area plus a surrounding 300-foot buffer for nests. If removal of potential nesting substrate or project grading would occur during more than one nesting season, or in different parts of the site in phases over the course of a single season, then additional pre-activity surveys must be performed within seven days prior to initiation of work in any particular area. If the preconstruction activity survey does not identify the presence of any active nests on or within 300 feet of the site, construction activities may proceed.

If nests known to have eggs or young, or that cannot be confirmed to be inactive or to lack eggs or young, are found, or adults are demonstrating nesting behavior, a qualified biologist shall establish an appropriate construction-free buffer around each nest. Generally, a buffer of 300 feet for raptors and 100 feet for songbirds are adequate to avoid causing nest abandonment. The buffer shall remain in place until the qualified biologist has confirmed that the nest is no longer active.

If less than a 100-foot nest buffer is necessary and determined to be appropriate for a particular nest or nests, a qualified biologist shall monitor the nest(s) before construction to document baseline nesting behavior and monitor the nest during construction to ensure nesting birds are not exhibiting signs of stress and territorial behavior. If signs of stress are observed during the monitoring, construction activities shall cease or the buffer shall increase, as

determined by a qualified biologist, to a sufficient distance where the nesting birds are longer exhibiting signs of stress.

To prevent encroachment, the buffer shall be clearly marked for avoidance. The established buffer shall remain in effect until the young have fledged or the nest is no longer active as confirmed by the biologist.

Implementation of **Mitigation Measure BIO-1** requires avoiding tree removal and other work activities during the nesting season and, if possible, conducting preconstruction surveys for nesting hawks and other migratory birds prior to any work during the nesting season, and additional measures to ensure avoidance of any "take". Implementation of **Mitigation Measure BIO-1** would reduce potential construction-related impacts, both permanent and temporary in nature, on nesting migratory birds to a **less-than-significant level with mitigation incorporated**.

Pallid Bat and other Roosting Bats. The pallid bat is a California Species of Special Concern that could roost and/or forage within the site. Pallid bats roost in caves, tunnels, and occasionally buildings and hollow trees. Suitable roosting habitat may be present in the structures and larger trees on and adjacent to the site. No bat roosts or signs of roosting bats were observed in the on-site structure or trees during the reconnaissance-level survey.

Bats, including special-status bats, such as the pallid bat, could roost in the structures and large trees in the project area and forage on the project site. Roosting bats could be disturbed, killed, or injured by tree removal and/or building demolition activities, if present in construction areas. Disturbance of roosting special-status bats would be a potentially significant impact. Implementation of **Mitigation Measure BIO-2** would reduce potential impacts to roosting bats to a less-than-significant level.

Mitigation Measure BIO-2

Prior to any tree removal during the maternity roosting period (April 15 to August 31) or hibernation period (October 15 to February 28), a focused tree habitat assessment shall be conducted by a qualified bat biologist of all trees that would be removed or impacted by construction activities. Trees containing suitable potential bat roosting habitat features would then be clearly marked. The habitat assessments should be conducted enough in advance to allow preparation of a report with specific recommendations, and to ensure tree removal can be scheduled during seasonal periods of bat activity if required. If it is determined that day roosting bats are unlikely to occur, the tree may be removed as described below. If the absence of roosting bats cannot be confirmed, then the removal of trees providing suitable maternity or hibernation roosting habitat should only be conducted during seasonal periods of bat activity, including:

1. Between March 1 (or after evening temperatures rise above 45 degrees Fahrenheit (F) and/or no more than 1/2 inch of rainfall within 24 hours occurs) and April 15; or

2. Between September 1 and about October 15 (or before evening temperatures fall below 45 degrees F and/or more than 1/2 inch of rainfall within 24 hours occurs).

Appropriate methods shall be used to minimize the potential of harm to bats during tree removal. Such methods may include but are not limited to using a two-step tree removal process. This method is conducted over two consecutive days and works by creating noise and vibration by cutting non-habitat branches and limbs from habitat trees using chainsaws only (no excavators or other heavy machinery) on Day 1. The noise and vibration disturbance, together with the visible alteration of the tree, is very effective in causing bats that emerge nightly to feed, to not return to the roost that night. The remainder of the tree is removed on Day 2. A bat biologist qualified in two-step tree removal is required on Day 1 to supervise and instruct the tree-cutters who will be on the site conducting the work, but only for a sufficient length of time to train all tree cutters who will conduct two-step removal of habitat trees. The bat biologist is generally not required on Day 2, unless a very large cavity is present and a large colony is suspected.

Implementation of **Mitigation Measure BIO-2** would require a focused habitat assessment, preconstruction survey, tree and structure removal (as needed), and measures for bat exclusion (as needed). Implementation of **Mitigation Measure BIO-2** would reduce potential construction-related impacts, both permanent and temporary in nature, on special-status bats to a **less-than-significant level with mitigation incorporated**.

b. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? ***(No Impact)***

The CDFW tracks the occurrences of natural plant communities that are of limited distribution statewide or within a county or region and are often vulnerable to environmental effects of projects. *A Manual of California Vegetation,* Second Edition,[10] lists vegetation alliances with State rarity rankings of S1-S3 as considered "highly imperiled" and project impacts to "high-quality occurrences" of these alliances could be considered significant under CEQA. Most types of wetlands, including alkali wetlands, and riparian communities are also considered sensitive natural communities due to their limited distribution in California. The CNDDB does not identify any sensitive natural

[10] Sawyer, J.O., T. Keeler-Wolf, and J.M. Evens. 2009. *A Manual of California Vegetation*. Second edition. California Native Plant Society Press, Sacramento.

communities on the site[11] and no sensitive plant communities were observed during the reconnaissance-level survey. No riparian habitat or other sensitive natural communities occur at the project site. Therefore, the proposed project would not have a substantial adverse effect on any riparian habitat or other sensitive natural community. **No impact** would occur.

*c. Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? **(No Impact)***

The project site does not contain any wetlands or other potentially jurisdictional features. Therefore, the proposed project would not have a substantial adverse effect on State or federally protected wetlands. **No impact** would occur.

*d. Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? **(Less-Than-Significant Impact)***

Wildlife movement includes migration (i.e., usually annual roundtrip), inter-population movement (i.e., long-term genetic flow), and small travel pathways (i.e., daily movement corridors within an animal's territory). While small travel pathways usually facilitate movement for daily home range activities such as foraging or escape from predators, they also provide connection between outlying populations and the main corridor, permitting an increase in gene flow among populations. In the San Francisco Bay Area, landscape elements that facilitate local and/or regional wildlife movement include stream drainages, canyons, ridges, or other prominent natural or human-made landscape features.

The proposed project would not substantially interfere with wildlife movement or corridors since the project site is already developed and is situated within an urban area. Wildlife species that currently move through or around the site would likely continue to move through or around the site during and after construction of the project since most of the species that likely occur in the area are generalists that are adept at moving through urban landscapes. Therefore, impacts to wildlife movement corridors would be **less than significant**.

The project site does not contain native wildlife nursery sites, such as heron rookeries or salmonid spawning areas. Any bird nests or bat roosts, if present, would be protected by implementing **Mitigation Measures BIO-1 and BIO-2**, respectively.

Given that the proposed project would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites, related impacts would be **less than significant.**

[11] CDFW. 2023. op. cit.

e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? ***(Less-Than-Significant Impact)***

Chapter 4, Nature and Built Environment, of the *Vallejo General Plan 2040* establishes goals, policies, and actions to protect natural resources within the City. Specifically, Policies NBE-1.1 and NBE-1.2 state:

Policy NBE-1.1 Natural Resources. Protect and enhance hillsides, waterways, wetlands, occurrences of special-status species and sensitive natural communities, and aquatic and important wildlife habitat through land use decisions that avoid and mitigate potential environmental impacts on these resources to the extent feasible.

Policy NBE-1.2 Sensitive Resources. Ensure that adverse impacts on sensitive biological resources, including special-status species, sensitive natural communities, and wetlands are avoided and mitigated to the greatest extent feasible as development takes place.

As described above, the majority of the project site consists of the existing commercial building, parking lots, and ruderal vegetation/landscaping. It does not support any sensitive natural communities or jurisdictional wetlands. Trees and structures on the site could provide nesting and/or roosting habitat for protecting bird and bat species. Implementation of **Mitigation Measures BIO-1 and BIO-2** would reduce potential impacts to nesting birds and bats to a less-than-significant level. Therefore, the proposed project would not conflict with the policies or goals of the *Vallejo General Plan 2040*

Chapter 16.504.07 of the City of Vallejo Municipal Code requires a tree removal permit for impacts to existing mature trees located in non-residential zoning districts if they are over 24 inches in diameter measured six inches above natural grade. Protected trees may be removed with the permission of the City upon submittal of an arborist's report, which determines that the tree is in poor health and not likely to survive; if the trees constitute a high fire hazard or a threat to persons, structures, or property; or, if they impede public works projects. Trees to be removed must be shown on the landscaping and irrigation plan and detailed on a tree inventory chart.

As outlined in Section 2.0, Project Description, approximately 157 trees, including sycamore, ash, Bay laurel, Brazilian pepper tree, and redwoods are planted in the existing parking lot of the project site. Some of these trees are considered protected trees as defined in the City's Municipal Code and would be removed as part of the proposed project. Existing street trees along Sonoma Boulevard and Broadway would be retained, as feasible. In addition, landscaping, including various tree species, shrubs and groundcover would be provided in proposed parking areas, common areas, and around the pool courtyard. Trees would be planted along the south side of the entry driveway and along Sonoma Boulevard and Broadway. A total of approximately 280 trees would be planted as part of the proposed project.

In compliance with the City's Tree Protection Ordinance, the project applicant would be required to submit an arborist report, implement protection measures for trees to be retained, pay required

permit application fees, and replace removed trees at a ratio of at least three new trees for every tree removed except for the fire-prone species identified in the City's Municipal Code. As stated above, the current landscape plan proposes to plant approximately 280 trees as part of the proposed project; the exact number of replacement trees required for mitigation of removed trees would be identified as part of the final landscape plan to be reviewed and approved by the City. Therefore, the proposed project would not conflict with the City's Tree Protection Ordinance.

Compliance with the City's Tree Protection Ordinance and implementation of the mitigation measures identified above would ensure that the proposed project would not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. This impact would be **less than significant.**

f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? ***(No Impact)***

The proposed project is not within any approved local, regional, or State conservation plan. Therefore, the project would not conflict with any approved local, regional, or State habitat conservation plan. **No impact** would occur.

4.5 CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☒	☐	☐
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c. Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

*a. Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? **(Less-Than-Significant with Mitigation Incorporated)***

CEQA defines a "historical resource" as a resource which meets one or more of the following criteria:

- Listed in, or eligible for listing in, the California Register of Historical Resources (California Register);
- Listed in a local register of historical resources as defined in Public Resources Code (PRC) Section 5020.1(k);
- Identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the Public Resources Code; or
- Determined to be a historical resource by a project's lead agency (PRC Section 21084.1 and State CEQA Guidelines Section 15064.5[a]).

The California Register defines a "historical resource" as a resource that meets one or more of the following criteria: (1) associated with events that have made a significant contribution to the broad patterns or local or regional history of the cultural heritage of California or the United States; (2) associated with the lives of persons important to local, California, or national history; (3) embodies the distinctive characteristics of a type, period, region, or method of construction or represents the work of a master or possesses high artistic values; or (4) has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation. Under CEQA, historical resources can include precontact (i.e., Native American) archaeological deposits, historic-period archaeological deposits, historic buildings, and historic districts.

Background research and a field survey were conducted to identify potential cultural resources at the project site. The results are summarized below.

On December 21, 2022, the staff of the Northwest Information Center (NWIC) conducted a records search (#22-0942) of the project site and a 0.5-mile radius. The NWIC, an affiliate of the State of California Office of Historic Preservation (OHP), is the official State repository of cultural resource records and reports for Solano County. As part of the background research, local and State inventories for cultural resources were also reviewed and the Native American Heritage Commission (NAHC) was contacted. No recorded cultural resources were identified within the project site; one resource was identified within the 0.5-mile radius.

On December 14, 2022, LSA sent an email describing the project with maps depicting the study area to the NAHC requesting a review of the Sacred Lands File to determine the potential presence of Native American cultural resources that might be affected by the proposed project. Ms. Pricilla Torres-Fuentes, NAHC Cultural Resource Analyst, responded via email on December 27, 2022, stating that a search of the Sacred Lands File for the study area had negative results for Native American cultural resources within the project site.

No built-environment historical resources are present at the project site. Although the cultural resources study did not yield historically significant resources, there is a possibility that the proposed project could impact as-yet-unrecorded, subsurface deposits on the project site. Should archaeological deposits be encountered during project ground disturbance, a substantial adverse change in the significance of a historical resource would occur from its demolition, destruction, relocation, or alteration such that the significance of the resource would be materially impaired (*CEQA Guidelines* Section 15064.5(b)(1)). Implementation of **Mitigation Measures CULT-1**, **CULT-2** and **CULT-3**would reduce potential impacts to historical resources to less than significant.

Mitigation Measure CULT-1 Should an archaeological deposit be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology contacted to assess the situation, determine if the deposit qualifies as a historical resource, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. If the deposit is found to be significant (i.e., eligible for listing in the California Register of Historical Resources), the project applicant shall be responsible for funding and implementing appropriate mitigation measures. Mitigation measures may include recording the archaeological deposit, data recovery and analysis, and public outreach regarding the scientific and cultural importance of the discovery. Upon completion of the selected mitigations, a report documenting methods, findings, and recommendations shall be prepared by the qualified archaeologist and submitted to the City of Vallejo for review, and the final report shall be submitted to the Northwest Information Center at Sonoma State University. Significant archaeological materials shall be submitted to an appropriate local curation facility and used for future research and public interpretive displays, as appropriate.

Mitigation Measure CULT-2 In the event that Native American human remains are found during development of the proposed project and the Yocha Dehe Wintun Nation (Tribe) or a member of the Tribe is determined to be the Most Likely Descendent (MLD), the following provisions shall apply:

- The Medical Examiner shall immediately be notified, ground disturbing activities in that location shall cease and the Tribe shall be allowed, pursuant to California Public Resources Code (PRC) Section 5097.98(a) to (1) inspect the site of the discovery and make determinations as to how the human remains and grave goods should be treated and disposed of with appropriate dignity.

- The Tribe shall complete its inspection and make its MLD recommendation within forty-eight (48) hours of getting access to the site. The Tribe shall have the final determination as to the disposition and treatment of human remains and grave goods. Said determination may include avoidance of the human remains, reburial on-site or reburial on tribal or other lands that will not be disturbed in the future.

- The Tribe may wish to rebury said remains and grave goods or ceremonial and cultural items on or near the site of their discovery, in an area which will not be subject to future disturbances over a prolonged period of time. Reburial of human remans shall be accomplished in compliance with California PRC Sections 5097.98(a) and (b). The term “human remains” encompasses more than human bones because the Tribe’s traditions call for the burial of associated cultural items with the deceased (funerary objects), and/or the ceremonial burning of Native American human remains, funerary objects, grave goods, and animals. Ashes, soils, and other remnants of these burning ceremonies, as well as associated funerary objects and unassociated funerary objects buried with or found near the Native American remains are to be treated in the same manner as bones or bone fragments that remain intact.

- Unless otherwise required by law, the site of any reburial of Native American human remains shall not be disclosed and will not be governed by public disclosure requirements of the California Public Records Act (California Government Code Section 6250 et. seq). The Medical Examiner shall withhold public disclosure of information related to such reburial pursuant to the specific exemption set forth in California Government Code Section 6254(r). The Tribe will require that the location for reburial is recorded with the California Historic

Resources Inventory System (CHRIS) on a form that is acceptable to the CHRIS center. The Tribe may also suggest that the landowner enter into an agreement regarding the confidentiality of site information that will run with title on the property.

- Treatment of all cultural items, including ceremonial items and archaeological items will reflect the religious beliefs, customs, and practices of the Tribe. All cultural items, including ceremonial items and archaeological items, which may be found at a Project site should be turned over to the Tribe for appropriate treatment, unless otherwise ordered by a court of agency of competent jurisdiction. The project applicant should waive any and all claims to ownership of Tribal ceremonial and cultural items, including archaeological items, which may be found on a project site in favor of the Tribe. If any intermediary (e.g., an archaeological retained by the project applicant) is necessary, said entity or individual shall not possess those items for longer than is reasonably necessary, as determined solely by the Tribe.

- If additional significant sites or sites not identified as significant in the environmental review process, but later determined to be significant are located within a project impact area, such sites will be subjected to further archaeological and cultural significance evaluation by the project applicant, Solano County and the Tribe to determine if additional mitigation measures are necessary to treat sites in a culturally appropriate manner consistent with CEQA requirements for mitigation of impacts to cultural resources. If there are human remains present that have been identified as Native American, all work will cease for a period of up to 30 days in accordance with Federal Law.

Mitigation Measure CULT-3 The preferred protocol upon the discovery of Native American human remains is to secure the area, cover any exposed human remains or other cultural items and avoid further disturbances in the area. All parties are advised to treat the remains with appropriate dignity, as provided in PRC Section 5097.98. All parties shall treat tribal representatives and the event itself with appropriate respect.

If, after the Yocha Dehe Tribal representative has been granted access to the site and it is determined that avoidance is not feasible, an examination of the human remains will be conducted to confirm they are human and to determine the position, posture, and

orientation of the remains. The following procedures shall be followed:

- All excavation in the vicinity of the human remains will be conducted using fine hand tools and fine brushes to sweep loose dirt free from the exposure.

- In order to determine the nature and extent of the grade and its contents, controlled excavation should extend to a full buffer zone around the perimeter of the remains.

- To initiate the exposure, a perimeter balk (especially, a shallow trench) should be excavated, representing a reasonable buffer a minimum of 10 centimeters around the maximum extent of the known skeletal remains, with attention to counterintuitive discoveries or unanticipated finds relating to this or other remains. The dirt from the perimeter balk should be bucketed, distinctly labeled, and screened for cultural materials.

- Excavation should then proceed inward from the walls of the balk as well as downward from the surface of the exposure. Loose dirt should be scooped out and brushed off into a dustpan or other collective device. Considerable care should be given to ensure that human remains are not further impacted by the process of excavation.

- Buckets, collection bags, notes, and tags should be fully labeled per provenience, and a distinction should be made between samples collected from: (1) Perimeter Balk (described above), (2) Exposure (dirt removed in exposing the exterior/burial plan and associations, and (3) Matrix (dirt from the interstices between bones or associations). Thus, each burial may have three bags, “Burial 1 Perimeter Balk,” “Burial 1 Exposure Balk,” “Burial 1 Matrix.”

- The following records should be compiled in the field: (1) a detailed scale drawing of the burial, including the provenience of and full for all human remains, associated artifacts, and the configuration of all associated phenomena such as burial pits, evidence for pre-interment grave pit burning, soil variability, and intrusive disturbance, (2) complete a formal burial record using the consultants proprietary form or other standard form providing information on site #, unit or other proveniences, level depth, depth and location of the burial from a fixed datum, workers, date(s), artifact list, skeletal inventory, and other pertinent observations, (3) crew chief and worker field notes

that may supplement or supercede information contained in the burial recording form, and (4) photographs, including either standard photography or high-quality (400-500 DPI or 10 MP recommended) digital imaging.

- Photographs and images may be used only for showing location or configuration of questionable formation or for the position of the skeleton. They are not to be duplicated for publication unless a written release is obtained from the Tribe.

- Association between the remains and other cultural materials should be determined in the field in consultation with an authorized Tribal representative, and may be amended per laboratory findings. Records of provenience and sample labels should be adequate to determine association or degree of likelihood of association of human remains and other cultural materials.

- For each burial, all Perimeter Balk soil is to be 1/8”-screened. All Exposure soil is to be 1/8”-screened, and a minimum of one 5-gallon bucket of excavated but unscreened Exposure soil is to be collected, placed in a plastic garbage bag in the bucket. All Matrix soil is to be carefully excavated, screened as appropriate, and then collected in plastic bags placed in 5-gallon buckets.

- Human remains are not to be cleaned in the field.

- Prior to any physical action related to human remains, a designated tribal representative will conduct prayers and blessings over the remains. The archaeological consultant will be responsible for insuring that individuals and tools involved in the action are available for traditional blessings and prayers, as necessary.

No laboratory studies are permitted without consultation with the tribe. Lab methods are determined on a project-specific basis in consultation with Yocha Dehe Wintun Nation representatives. The following procedures shall be implemented:

- The primary archaeological consultant will be responsible for insuring that all lab procedures follow stipulations made by the Tribe.

- Prior to any laboratory activities related to the remains, a designated tribal representative will conduct prayers and blessings over the remains. The archaeological consultant will

be responsible for insuring that individuals and tools involved in the action are available for traditional blessings and prayers, as necessary.

- To the extent possible, all remains, associations, samples, and original records are to be kept together throughout the laboratory process. In particular, Matrix dirt is to be kept in buckets and will accompany the remains to the lab. The primary archaeological consultant will be responsible for copying all field records and images and insuring that the original notes and records accompany the remains throughout the process.

- Laboratory study should be done making every effort to identify unanticipated finds or materials missed in the field, such as objects encased in dirt or human remains misidentified as faunal remains in the field. In the event of discovery of additional remains, materials, and other associations the tribal representatives are to be contacted immediately.

- No laboratory studies are permitted on human remains and funerary objects. The preferred treatment preference for exhumed Native American human remains is reburial in an area not subject to further disturbance. Any objects associated with remains will be reinterred with the remains. Laboratory study should be done making every effort to identify unanticipated finds or materials missed in the field, such as objects encased in dirt or human remains misidentified as faunal remains in the field. In the event of discovery of additional remains, materials, and other associations the tribal representatives are to be contacted immediately.

- Should all, or a sample, of any archaeological materials collected during the data recovery activities – with the exception of Human Remains – need to be curated, an inventory and location information of the curation facility shall be given to tribe for our records.

With implementation of **Mitigation Measure CULT-1**, which requires work stoppage in the event of an archaeological discovery, and **Mitigation Measures CULT-2 and CULT-3**, which require that identified archaeological resources be treated in accordance with the Treatment Protocol for Handling Human Remains and Cultural Items Affiliated with the Yocha Dehe Wintun Nation, potential impacts to archaeological historical resources would be reduced to a **less-than-significant level with mitigation incorporated.**

b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? ***(Less-Than-Significant with Mitigation Incorporated)***

According to the *State CEQA Guidelines*, "When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource" (*CEQA Guidelines* Section 15064.5(c)(1)). Those archaeological sites that do not qualify as historical resources shall be assessed to determine if these qualify as "unique archaeological resources" (California PRC Section 21083.2).

Archaeological deposits identified during project construction would be treated by the City and project applicant—in consultation with a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archeology—in accordance **with Mitigation Measure CULT-1**. With implementation of **Mitigation Measures CULT-1, CULT-2, and CULT-3**, identified above, impacts to archaeological resources would be **less than significant with mitigation incorporated**.

c. Would the project disturb any humans remains, including those interred outside of formal cemeteries? ***(Less-Than-Significant with Mitigation Incorporated)***

Based on previous archaeological investigation and analysis, there is a low potential for the disturbance of archaeological cultural resources or human remains. However, if human remains are encountered at the project site, State Health and Safety Code Section 7050.5 and *State CEQA Guidelines* Section 15064.5(e)(1) state that no further disturbance shall occur to the area of the find until the County Coroner has made a determination of origin and disposition of the human bone pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately and shall make a determination within two working days of being notified. If the remains are determined to be Native American, the County Coroner shall notify the NAHC by phone within 24 hours, and the NAHC shall then immediately determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection and make recommendations or preferences for treatment of the remains within 48 hours of being granted access to the site. MLD recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials, preservation of Native American human remains and associated items in place, relinquishment of Native American human remains and associated items to the descendants for treatment, or any other culturally appropriate treatment. In addition, any human remains and associated items would be treated in accordance with the Treatment Protocol for Handling Human Remains and Cultural Items Affiliated with the Yocha Dehe Wintun Nation, as outlined in **Mitigation Measures CULT-2 and CULT-3**, described above.

Compliance with Section 7050.5 of the California Health and Safety Code and PRC Section 5097.98 regarding the treatment of human remains and implementation of **Mitigation Measures CULT-3 and CULT-3** would ensure that potential impacts to human remains would be **less than significant with mitigation incorporated**.

4.6 ENERGY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?	☐	☐	☒	☐
b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

*a. Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation? **(Less-Than-Significant Impact)***

The proposed project would result in a small increase in the demand for electricity and gasoline. The discussion and analysis provided below is based on data included in the California Emissions Estimator Model (CalEEMod) output, which is included in Appendix A.

Construction-Period Energy Use. The proposed project would require demolition, grading, site preparation, building, paving, and architectural coating activities during construction. Construction of the proposed project would require energy for the manufacture and transportation of construction materials, preparation of the site for grading activities, and construction of the proposed residential buildings and associated amenity building and other improvements. Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. In order to increase energy efficiency on the site during project construction, the idling times for construction vehicles would be restricted to 5 minutes or less and construction workers would be required to shut off idle equipment, as required by **Mitigation Measure AIR-1**. In addition, construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the project. Energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources. Therefore, construction energy impacts would be less than significant.

Operational Energy Use. Energy use is typically associated with natural gas use, electricity consumption, and fuel used for vehicle trips. The proposed new buildings would be all electric buildings and would not utilize natural gas. Electricity consumption was estimated for the project using default energy intensities by building type in CalEEMod. In addition, the proposed buildings would be constructed to California Green Building Standards Code (CALGreen) standards, which was included in CalEEMod inputs. Electricity usage estimates associated with the proposed project are shown in Table 4.E.

In addition, the proposed project would result in energy usage associated with gasoline to fuel project-related trips. Based on the CalEEMod analysis, the proposed project would result in approximately 6,162,739 vehicle miles traveled (VMT) per year. The average fuel economy for light-

duty vehicles (autos, pickups, vans, and SUVs) in the United States has steadily increased from about 14.9 miles per gallon (mpg) in 1980 to 22.9 mpg in 2020.[12] The average fuel economy for heavy-duty trucks in the United States has also steadily increased, from 5.7 mpg in 2013 to a projected 8.0 mpg in 2021.[13] Therefore, based on the default vehicle fleet mix assumed in CalEEMod and using the U.S. Environmental Protection Agency (USEPA) fuel economy estimates for 2020, the proposed project would result in the consumption of approximately 220,290 gallons of gasoline per year and 139,839 gallons of diesel fuel per year.

Table 4.F, below, shows the estimated potential increased energy usage associated with the proposed project.

Table 4.F: Estimated Annual Energy Use of Proposed Project

Electricity Use (kWh per year)	Natural Gas Use (therms per year)	Gasoline (gallons per year)	Diesel (gallons per year)
2,581,201	0	220,290	139,839

Source: LSA (January 2023).
kWh = kilowatt-hours

As shown in Table 4.F, the estimated potential increased electricity demand associated with the proposed project is 2,581,201 kilowatt-hours (kWh) per year. In 2021, California consumed approximately 280,738 gigawatt-hours (GWh) or 280,738,376,720 kWh.[14] Of this total, Solano County consumed 3,301 GWh or 3,300,852,690 kWh.[15] Therefore, electricity demand associated with the proposed project would be approximately 0.1 percent of Solano County's total electricity demand.

In addition, the proposed project would result in energy usage associated with gasoline and diesel to fuel project-related trips. As shown above in Table 4.F, vehicle trips associated with the proposed project would consume approximately 220,290 gallons of gasoline per year and 139,839 gallons of diesel fuel per year. Based on fuel consumption obtained from EMFAC2021, approximately 54.3 million gallons of gasoline and approximately 29.4 million gallons of diesel fuel will be consumed from vehicle trips in Solano County in 2023. Therefore, gasoline and diesel fuel demand generated by vehicle trips associated with the proposed project would be a minimal fraction of gasoline and diesel fuel consumption in Solano County. Fuel consumption associated with vehicle trips generated by project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

12 United States Department of Transportation (USDOT). 2017. "Table 4-23: Average Fuel Efficiency of U.S. Light Duty Vehicles." Website: https://www.bts.gov/content/average-fuel-efficiency-us-light-duty-vehicles (accessed January 2023).

13 California Energy Commission (CEC). 2015. Medium and Heavy-Duty Truck Prices and Fuel Economy 2013–2026. Website: efiling.energy.ca.gov/getdocument.aspx?tn=206180 (accessed January 2023).

14 CEC. 2022a. Energy Consumption Data Management Service. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed January 2023).

15 Ibid.

In addition, proposed new development would be constructed using energy efficient modern building materials and construction practices, and the proposed project also would use new modern appliances and equipment, in accordance with the Appliance Efficiency Regulations (Title 20, CCR Sections 1601 through 1608). The expected energy consumption during construction and operation of the proposed project would be consistent with typical usage rates for residential uses.

Pacific Gas & Electric (PG&E) is the private utility that would supply the proposed project's electricity services. In 2021, a total of 50 percent of PG&E's delivered electricity came from renewable sources, including solar, wind, geothermal, small hydroelectric and various forms of bioenergy.[16] PG&E reached California's 2020 renewable energy goal in 2017, and is positioned to meet the State's 60 percent by 2030 renewable energy mandate set forth in Senate Bill (SB) 100. In addition, PG&E plans to continue to provide reliable service to their customers and upgrade their distribution systems as necessary to meet future demand.

Therefore, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of fuel or energy and would incorporate renewable energy or energy efficiency measures into building design, equipment use, and transportation. Construction and operation period impacts related to consumption of energy resources would be **less than significant**.

*b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? **(Less-Than-Significant Impact)***

In 2002, the State Legislature passed SB 1389, which required the California Energy Commission (CEC) to develop an integrated energy plan every 2 years for electricity, natural gas, and transportation fuels for the California Energy Policy Report. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero emission vehicles and their infrastructure needs, and encouragement of urban designs that reduce VMT and accommodate pedestrian and bicycle access.

The most recently adopted CEC energy report is the *2022 Integrated Energy Policy Report Update*.[17] The *2022 Integrated Energy Policy Report Update* provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs. The 2020 Integrated Energy Policy Report covers a broad range of topics, including implementation of SB 350, integrated resource planning, distributed energy resources, transportation electrification, solutions to increase resiliency in the electricity sector,

[16] Pacific Gas & Electric (PG&E). 2021. *Exploring Clean Energy Solutions*. Website: https://www.pge.com/en_US/about-pge/environment/what-we-are-doing/clean-energy-solutions/clean-energy-solutions.page?WT.mc_id=Vanity_cleanenergy (accessed January 2023).

[17] CEC. 2023. *Final 2022 Integrated Energy Policy Report Update*. February. Website: https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update (accessed April 3, 2023).

energy efficiency barriers faced by disadvantaged communities, demand response, transmission and landscape-scale planning, the California Energy Demand Preliminary Forecast, the preliminary transportation energy demand forecast, renewable gas (in response to SB 1383), updates on Southern California electricity reliability, natural gas outlook, and climate adaptation and resiliency.

As indicated above, energy usage on the project site during construction would be temporary in nature. In addition, energy usage associated with operation of the proposed project would be relatively small in comparison to the State's available energy sources, and energy impacts would be negligible at the regional level. Because California's energy conservation planning actions are conducted at a regional level, and because the project's total impact to regional energy supplies would be minor, the proposed project would not conflict with California's energy conservation plans as described in the CEC 2022 Integrated Energy Policy Report. Therefore, the proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency, and this impact would be **less than significant.**

4.7 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☒
ii. Strong seismic ground shaking?	☐	☐	☒	☐
iii. Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv. Landslides?	☐	☐	☒	☐
b. Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☒	☐
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

a. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

*i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. **(No Impact)***

The San Francisco Bay Area is one of the most seismically active regions in the United States. The significant earthquakes that occur in the Bay Area are generally associated with crustal movement along well-defined active fault zones of the San Andreas Fault system, which regionally trend in a northwesterly direction. Fault rupture is generally expected to occur along active fault traces that have exhibited signs of recent geological movement (i.e., within the last 11,000 years).

The State of California enacted the Alquist-Priolo Earthquake Fault Zoning Act in 1972, requiring the State Geologist to delineate Earthquake Fault Zones (EFZ) along known active faults that have high potential for fault rupture. Active faults are defined as a fault that has surface displacement within

the last 11,000 years.[18] State regulations prohibit habitable structures from being sited within 50 feet of an active fault. According to the California Earthquake Hazards Zone Application ("EQ Zapp"),[19] the project site is approximately 1.3 miles east of the Napa Valley Fault and approximately 1 mile southwest of the West Napa Fault, which are the nearest Alquist-Priolo Fault Zones. Therefore, fault rupture through the site is not anticipated, and the proposed project would not directly or indirectly cause substantial adverse effects related to fault rupture. **No impact** would occur.

ii. Strong seismic ground shaking? ***(Less-Than-Significant Impact)***

The project site is located in the San Francisco Bay Area, a region of intense seismic activity. Due to the location of the project site in a seismically active area, strong seismic ground shaking at the site is highly probable during the life of the project. The intensity of ground shaking would depend on the characteristics of the fault, distance from the fault, the earthquake magnitude and duration, and site-specific geologic conditions. The intensity of an earthquake is a subjective measure of the perceptible effects of a seismic event at a given point. The Modified Mercalli Intensity (MMI) scale is the most commonly used scale to measure the subjective effects of earthquake intensity. It uses values ranging from I to XII.[20]

Mapping has been compiled by the Metropolitan Transportation Commission (MTC) and Association of Bay Area Governments (ABAG) for the likely shaking intensities in the Bay Area that would have a 10 percent chance of occurring in any 50-year period. A large earthquake (magnitude 6.7 or greater) on one of the major active faults in the region would generate severe (MMI 8) ground shaking at the project site.[21]

The most significant adverse impact associated with strong seismic shaking is potential damage to structures and improvements. The risk of ground shaking impacts is reduced through adherence to the design and materials standards set forth in building codes. The California Building Code (CBC) (Title 24, Part 2 of the California Code of Regulations [CCR]), provides for stringent construction requirements on projects in areas of high seismic risk. The design and construction for the proposed project would be required to conform with, or exceed, current best standards for earthquake resistant construction in accordance with the 2019 CBC and with the generally accepted standards of geotechnical practice for seismic design in Northern California.

Adherence to the 2019 CBC requires a site-specific geotechnical investigation to be performed for the proposed project to evaluate soil stability, soil strength, position and adequacy of load-bearing

18 California Department of Conservation (DOC). 2019. Alquist-Priolo Earthquake Fault Zones. Website: www.conservation.ca.gov/cgs/alquist-priolo (accessed February 2023).

19 DOC. 2021. *California Earthquake Hazards Zone Application ("EQ Zapp").* Website: https://maps.conservation.ca.gov/cgs/EQZApp/app/ (accessed February 2023).

20 United States Geological Survey (USGS). 2018. The Modified Mercalli Intensity Scale. Website: www.usgs.gov/natural-hazards/earthquake-hazards/science/modified-mercalli-intensity-scale?qt-science_center_objects=0#qt-science_center_objects, (accessed February 2023).

21 Metropolitan Transportation Commission (MTC) and Association of Bay Area Governments (ABAG). 2018. Probabilistic Earthquake Shaking Hazard Map. Website: https://mtc.maps.arcgis.com/apps/webappviewer/index.html?id=4a6f3f1259df42eab29b35dfcd086fc8 (accessed February 2023).

soils, the effect of moisture variation on soil-bearing capacity, compressibility, liquefaction, and expansiveness; and that a geotechnical report be prepared to provide recommendations on foundation type and design criteria. With conformance with the CBC seismic design standards and completion of the required site-specific geotechnical investigation, potential impacts associated with strong seismic ground shaking would be reduced to a **less-than-significant** level.

iii. Seismic-related ground failure, including liquefaction? ***(Less-Than-Significant Impact)***

Liquefaction is the transformation of loose, fine-grained sediment to a fluid-like state similar to quicksand. This phenomenon occurs due to strong seismic activity and lessens the soil's ability to support a structural foundation. The primary factors affecting the possibility of liquefaction in soil are: (1) intensity and duration of earthquake shaking; (2) soil type and relative density; (3) overburden pressures; and (4) depth to groundwater. Soil most susceptible to liquefaction is clean, loose, fine-grained sands and non-plastic silts that are saturated.

The California Geological Survey (CGS) has mapped Seismic Hazard Zones that delineate areas susceptible to liquefaction and/or landslides that require proposed new developments in these areas to conduct additional investigation to determine the extent and magnitude of potential ground failure. According to CGS data,[22] the project site is not located in an area mapped as a liquefaction hazard zone. Therefore, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure. This impact would be **less than significant.**

iv. Landslides? ***(Less-Than-Significant Impact)***

A landslide generally occurs on relatively steep slopes and/or on slopes underlain by weak materials. The project would be located on a flat site surrounded by existing development. Review of the CGS survey data indicates that the proposed project is not located in an area prone to landslides.[23] Therefore, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides. This impact would be **less than significant.**

b. Would the project result in substantial soil erosion or the loss of topsoil? ***(Less-Than-Significant Impact)***

Grading and earthmoving during project construction has the potential to result in erosion and loss of topsoil. The potential for soil erosion exists during the period of earthwork activities and between the time when earthwork is completed, and new vegetation is established or hardscape is installed. Exposed soils could be entrained in stormwater runoff and transported off the project site. Because the proposed project would involve over 1 acre of land disturbance, it would be required to comply

22 DOC. 2021. op. cit.
23 Ibid.

with the Construction General Permit,[24] which requires preparation and implementation of a Stormwater Pollution and Prevention Plan (SWPPP) prior to any ground disturbance activities. Although designed primarily to protect stormwater quality, the SWPPP would provide the details of the erosion control measures to be applied on the project site during the construction period, including Best Management Practices (BMPs) for erosion control that are recognized by the Regional Water Quality Control Board (RWQCB). Additional details regarding the SWPPP are provided in Section 4.10, Hydrology and Water Quality. Compliance with the requirements of the Construction General Permit would ensure that the proposed project would result in **less-than-significant** impacts related to soil erosion or the loss of topsoil.

c. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? ***(Less-Than-Significant Impact)***

As discussed above in Section 4.7.a, the site would not be subject to landslides or liquefaction. The proposed project would be designed and constructed in accordance with standard engineering practices and the CBC. The project site is not anticipated to become unstable as a result of the proposed project, or potentially result in on- or off-site landslides, liquefaction, or lateral spreading. Further, preparation of a site-specific geotechnical evaluation as required by the CBC and implementation of proposed geotechnical recommendations, would ensure that the proposed project would not result in a geologic hazard from landslide, lateral spreading, subsidence, liquefaction or collapse. This impact would be **less than significant.**

d. Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? ***(Less-Than-Significant Impact)***

Expansive soils are characterized by the potential for shrinking and swelling as the moisture content of the soil decreases and increases, respectively. Shrink-swell potential is influenced by the amount and type of clay minerals present and can be measured by the percentage of change in the soil volume. Soils underlying the project site are composed of Clear Lake clay (0 to 2 percent slopes) and Rincon clay loam (0 to 2 percent slope) according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey.[25]

Clear Lake Clay consists of poorly drained soils in basins. The Rincon clay loam consists of well-drained soils on alluvial fans. Both of these soils have a high shrink-swell potential.[26] As described above, the proposed project would be required to comply with the 2019 CBC and the geotechnical

[24] State Water Resources Control Board (SWRCB). 2009. Division of Water Quality. *Construction General Permit Fact Sheet*. 2009-0009-DWQ amended by 2010-0014-DWQ & 2012-0006-DWQ. Website: https://www.water boards.ca.gov/water_issues/programs/stormwater/docs/constpermits/wqo_2009_0009_factsheet.pdf (accessed February 2023).

[25] United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). 2023. Web Soil Survey. Website: websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (accessed February 2023).

[26] Ibid.

recommendations identified in the site-specific geotechnical investigation. Compliance with geotechnical recommendations and the 2019 CBC during design and construction would ensure that the potential impacts associated with expansive soils would be **less than significant**.

e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? ***(No Impact)***

The proposed project would connect to the Vallejo Flood and Wastewater District's (VFWD) wastewater conveyance system. On-site treatment and disposal of wastewater is not proposed for the project; therefore, the proposed project would have **no impact** associated with soils incapable of supporting alternative wastewater disposal systems.

f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? ***(Less-Than-Significant with Mitigation Incorporated)***

Although no paleontological resources or unique geological features are known to exist within or near the project site, the proposed project would require ground disturbance to a depth of up to 12 feet below ground surface for building pads and utilities. The possibility of accidental discovery of paleontological resources during project construction cannot be discounted and **Mitigation Measure GEO-1** shall be incorporated.

Mitigation Measure GEO-1 Should paleontological resources be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified paleontologist contacted to assess the situation, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. For purposes of this mitigation, a "qualified paleontologist" shall be an individual with the following qualifications: (1) a graduate degree in paleontology or geology and/or a person with a demonstrated publication record in peer-reviewed paleontological journals; (2) at least two years of professional experience related to paleontology; (3) proficiency in recognizing fossils in the field and determining their significance; (4) expertise in local geology, stratigraphy, and biostratigraphy; and (5) experience collecting vertebrate fossils in the field. If the paleontological resources are found to be significant and project activities cannot avoid them, measures shall be implemented to ensure that the project does not cause a substantial adverse change in the significance of the paleontological resource. Measures may include monitoring, recording the fossil locality, data recovery and analysis, a final report, and accessioning the fossil material and technical report to a paleontological repository. Upon completion of the assessment, a report documenting methods, findings, and recommendations shall be prepared and submitted to the City of Vallejo for review. If paleontological materials are recovered, this

report also shall be submitted to a paleontological repository such as the University of California Museum of Paleontology, along with significant paleontological materials. Public educational outreach may also be appropriate.

Implementation of **Mitigation Measure GEO-1** would reduce the level of the potential impact through the identification of paleontological resources during construction; the evaluation of unanticipated discoveries; and the recovery of significant paleontological data from those resources that warrant such investigation. This process would recover scientifically consequential information from at-risk resources to offset their potential loss. Therefore, with implementation of **Mitigation Measure GEO-1**, this impact would be **less than significant with mitigation incorporated.**

4.8 GREENHOUSE GAS EMISSIONS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Greenhouse gases (GHGs) are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO_2);
- Methane (CH_4);
- Nitrous oxide (N_2O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur Hexafluoride (SF_6).

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, believed to be causing global warming. While human-made GHGs include naturally occurring GHGs such as CO_2, methane, and N_2O, some gases, like HFCs, PFCs, and SF_6 are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG. The definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of "CO_2 equivalents" (CO_2e).

a. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? ***(Less-Than-Significant Impact)***

The Bay Area Air Quality Management District's (BAAQMD) CEQA Guidelines[27] identifies applicable GHG significance thresholds. The BAAQMD recommends these thresholds of significance for use in determining whether a proposed project will have a significant impact related to climate change. These thresholds evaluate a project based on its effect on California's efforts to meet the State's long-term climate goals. Applying this approach, the BAAQMD identifies and provides supporting documentation outlining the requirements that new land use development projects must comply with in order to achieve California's long-term climate goal of carbon neutrality by 2045. Based on this research, the BAAQMD has determined that new land use development projects need to incorporate design elements to contribute the "fair share" towards implementation of the goal of carbon neutrality by 2045. If a project is designed and built to incorporate the identified design elements, then it will contribute its portion of what is necessary to achieve California's long-term climate goals—its "fair share"—and an agency reviewing the project under CEQA can conclude that the project will not make a cumulatively considerable contribution to global climate change. The BAAQMD determined that if a project does not incorporate these design elements, then it should be found to make a significant climate impact because it will hinder California's efforts to address climate change.

According to the BAAQMD, a project would have a less-than-significant impact related to GHG emissions if it would:

a. Include, at a minimum, the following project design elements:

    1. Buildings

        a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).

        b. The project will not result in any wasteful, inefficient, or unnecessary electrical usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.

    2. Transportation

        a. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:

[27] BAAQMD. 2023. *CEQA Guidelines*. Website: https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines (accessed July 2023).

1. Residential projects: 15 percent below the existing VMT per capita
2. Office projects: 15 percent below the existing VMT per employee
3. Retail projects: no net increase in existing VMT

b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.

b. Or be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

The City of Vallejo Climate Action Plan meets the BAAQMD requirements for a Qualified GHG Reduction Strategy and is designed to streamline environmental review of future development projects in the County of Solano consistent with *State CEQA Guidelines* Section 15183.5(b) and the BAAQMD CEQA Air Quality Guidelines. However, the City's Climate Action Plan identifies emission reduction goals to reduce GHG emissions in Vallejo by 15 percent below the 2005 emissions levels by 2020, consistent with Assembly Bill (AB) 32. The proposed project would not be operational until post-2020; therefore, because the City's Climate Action Plan was prepared based on the 2020 GHG targets, which are now superseded by the 2030 GHG targets established in Senate Bill (SB) 32, the City's Climate Action Plan would not be applicable for CEQA streamlining. Therefore, this section evaluates the proposed project's consistency with the BAAQMD's project design element thresholds.

Natural Gas Usage. According to the BAAQMD, a less-than-significant GHG impact would occur if the project does not include natural gas appliances or natural gas plumbing. Electricity and gas service is currently provided to the project site by Pacific Gas & Electric Company. However, as outlined in Section 2.0, Project Description, the proposed project would not utilize natural gas; therefore, the proposed project would be consistent with this design element.

Energy Usage. The project must not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*. Energy use consumed by the proposed project would be associated with electricity consumption and fuel used for vehicle trips associated with the project. Energy consumption was estimated for the project using default energy intensities by land use type in the CalEEMod output, which is included in Appendix A.

As previously discussed in Section 4.6, Energy, the estimated potential increased electricity demand associated with the proposed project is 2,581,201 kilowatt-hours (kWh) per year. In 2021, Solano County consumed 3,301 gigawatt-hours (GWh) or 3,300,852,690 kWh.[28] Therefore, electricity demand associated with the proposed project would be approximately 0.1 percent of Solano County's total electricity demand.

[28] BAAQMD. 2022. *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans*. April.

In addition, the proposed project would result in energy usage associated with gasoline and diesel to fuel project-related trips. As discussed in Section 4.6, Energy, vehicle trips associated with the proposed project would consume approximately 220,290 gallons of gasoline per year and 139,839 gallons of diesel fuel per year. Based on fuel consumption obtained from EMFAC2021, approximately 54.3 million gallons of gasoline and approximately 29.4 million gallons of diesel fuel will be consumed from vehicle trips in Solano County in 2023. Therefore, gasoline and diesel fuel demand generated by vehicle trips associated with the proposed project would be a minimal fraction of gasoline and diesel fuel consumption in Solano County.

As such, based on this analysis, as required under Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of fuel or energy and would incorporate renewable energy and energy efficiency measures into the building design, equipment use, and transportation. As such, the proposed project would be consistent with this design element.

Vehicle Miles Traveled **(VMT).** To meet the BAAQMD's VMT threshold, the project must achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan or meet a locally adopted SB 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's (OPR) 2018 *Technical Advisory on Evaluating Transportation Impacts in CEQA*. As discussed in Section 4.17, Transportation, the proposed project would have a less-than-significant VMT impact. As such, the proposed project would be consistent with this design element.

Electric Vehicle (EV) Requirements. This criterion requires that the project achieve compliance with off-street EV requirements in the most recently adopted version of the California Green Building Standards Code (CALGreen) Tier 2 measures. The current CALGreen Tier 2 requires that a minimum of 10 percent of the parking spaces provide EV charging. As discussed in Section 2.0, Project Description, approximately 10 percent of the provided parking is proposed to be EV charging ready as required by the CALGreen Code. As such, the proposed project would be consistent with this design element.

As demonstrated above, the proposed project would be consistent with the BAAQMD's project design elements related to natural gas, energy, VMT, and electric vehicle requirements. Therefore, the proposed project would be consistent with the BAAQMD's GHG emission thresholds. As such, the proposed project would not generate significant GHG emissions that would have a significant effect on the environment, and this impact would be **less than significant.**

b. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? ***(Less-Than-Significant with Mitigation Incorporated)***

The City of Vallejo Climate Action Plan identifies emission reduction goals to reduce GHG emissions in the City by 15 percent below the 2005 emission levels by 2020, consistent with AB 32. The proposed project would not be operational until post-2020; therefore, because the City's Climate Action Plan was prepared based on the 2020 GHG targets, which are now superseded by the 2030 GHG targets established in SB 32, the City's Climate Action Plan would not apply for streamlining.

However, the Climate Action Plan sets forth goals, measures, and actions to achieve emission reductions; therefore, a qualitative analysis of the proposed project's consistency with these goals, measures, and actions is provided. These goals include measures related to City Government Operations (CG), Community Engagement (CE), Energy (E), Renewable Energy (RE), Transportation Demand Management (TDM), Optimized Travel (OT), Water, Wastewater, and Solid Waste (W), Off-Road Equipment (OR), and Adaptation (A). The following measures are applicable to the proposed project:

- E-2. Building Standards: Require all new development to meet the minimum California Title 24 and California Green Building Standards Code requirements, as amended, and encourage new development to exceed the minimum requirements.

- E-4. Cool Roofs and Pavements. Increase tree planting and the use of cool roofs and cool pavement materials to reduce the urban heat island effect and corresponding energy consumption. Implement tree replacement policy for projects where tree removal is necessary.

- TDM-2. Mixed-Use, Higher-Density, Transit-Oriented Development. Promote mixed-use, higher-density development near transit nodes.

- TDM-3. Bicycle and Pedestrian Travel. Expand and link the network of pedestrian and bicycle paths and facilities through preparation of a Bicycle and Pedestrian Master Plan, with the goal of increasing the bicycle and pedestrian mode share 20 percent by 2035.

- TDM-8. Jobs/Housing Balance. Plan for an improved jobs/housing balance in order to reduce the need for long-distance travel from residences to places of work.

- OT-1. Efficient and Alternative Fuel Vehicles. Support the expanded use of efficient and alternative fuel vehicles.

- OT-4. Zero Emission Vehicle Stations. Provide electric vehicle charging stations.

- W-2. Development Standards for Water Conservation. Require water conservation in all new buildings and landscapes.

- W-3. Recycling and Composting Efforts. Support waste diversion through composting and recycling programs.

- W-4. Development Standards for Recycling and Composting. Require waste diversion and use of recycled materials in new development.

- OR-2. Construction Equipment. Reduce emissions from heavy-duty construction equipment by limiting idling and utilizing cleaner fuels, equipment, and vehicles.

The proposed project involves the demolition of the existing, vacant commercial building on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. The proposed project is not expected to result in a significant increase in the generation of

vehicle trips or VMT. Approximately 10 percent of the provided parking is proposed to be EV charging ready as required by the CALGreen Code. In addition, the proposed project would provide 22 short- and 429 long-term bicycle parking stalls at various locations across the project site; therefore, the project would support the ability to use alternative modes of transportation. The proposed project would also be required to comply with the 2019 Title 24 standards, regarding energy conservation and green building standards, reduction of wastewater and water use, and waste reduction. In addition, the proposed project would include landscaped areas and street planting, consistent with the urban cooling measure of the Climate Action Plan. As such, the proposed project would be consistent with applicable Climate Action Plan measures. In addition, the idling times for construction vehicles would be restricted to 5 minutes or less and construction workers would be required to shut off idle equipment, as required by **Mitigation Measure AIR-1**. Therefore, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the GHG emissions. This impact would be **less than significant**.

4.9 HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☐	☒
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☒	☐
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☒	☐

*a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? **(Less-Than-Significant Impact)***

The proposed project involves the demolition of the existing, vacant commercial building on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. Improvements on the site also include various outdoor amenity areas for private use including a pool and courtyard with lounge seating and cabanas, recreation lawn, dog park, outdoor dining, and private patios. Because the proposed project is for private residential use, it would generally not involve transport, use, or disposal of significant quantities of hazardous materials after the completion of construction; only small quantities of chemicals would be used for routine maintenance that would not pose a significant threat to human or environmental health.

Construction of the proposed project has the potential to create a hazard to the public or environment through the routine transportation, use, and disposal of construction-related hazardous materials such as fuels, soils, solvents, and other materials. These materials are typical of materials delivered to construction sites.

The removal of hazardous building materials prior to demolition of structures is governed by federal and State laws and regulations. Federal regulations require that lead-based paint be removed prior to demolition if the paint is loose and peeling. Loose and peeling paint must be disposed of as a State and/or federal hazardous waste if the concentration of lead exceeds applicable waste thresholds. State and federal construction worker health and safety regulations require air monitoring and other protective measures during demolition activities where lead-based paint is present, and notification to the California Division of Occupational Safety and Health (DOSH) for abatement activities.

Workers who conduct hazardous materials abatement and demolition activities must be trained in accordance with Occupational Health and Safety Administration (OSHA) and California OSHA (Cal/OSHA) requirements. Hazardous building materials removed during construction must be transported in accordance with U.S. Department of Transportation (USDOT) regulations and disposed of in accordance with the federal Resource Conservation and Recovery Act (RCRA), the California Code of Regulations (CCR), and/or the California Universal Waste Rule at a facility permitted to accept the wastes. Section 19827.5 of the California Health and Safety Code requires that local agencies not issue demolition or alteration permits until an applicant has demonstrated compliance with notification requirements under applicable federal regulations regarding hazardous air pollutants, including asbestos. If asbestos is identified, the Bay Area Air Quality Management District (BAAQMD) Regulation 11-2-401.3 requires notification to be made to BAAQMD prior to demolition activities. Other hazardous building materials, such as electrical equipment and fluorescent light ballasts containing polychlorinated biphenyls (PCBs), and fluorescent tubes or thermostats containing mercury, must be removed from buildings prior to demolition and disposed of in accordance with the California Universal Waste Rule and other federal and State regulations. Compliance with these regulations would ensure that demolition and removal of existing structures on the project site would be less than significant.

Transport and use of hazardous materials would be subject to all applicable State and federal laws, such as the Hazardous Materials Transportation Act, the Resource Conservation and Recovery Act, the California Hazardous Materials Management Act, the California Health and Safety Code, and California Code of Regulations Title 8 and Title 22. Therefore, compliance with existing regulations would ensure that the proposed project would not create a significant hazard to the public, or the environment associated with the routine transport, use, or disposal of hazardous materials by ensuring these materials are properly handled during construction of the proposed project. Therefore, this impact would be **less than significant**.

b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? ***(Less-Than-Significant Impact)***

There are two main ways that the public and/or the environment could be affected by the release of hazardous materials from the project site, including: (1) exposing workers and/or the public to potentially contaminated soil and groundwater during construction and/or operation of the project; or (2) exposing workers and/or the public to hazardous building materials (e.g., lead paint, asbestos) during demolition of existing structures.

As described above, small quantities of common hazardous materials would be used at the project site during construction and operation of the proposed project. Improper use, storage, or handling could result in a release of hazardous materials into the environment which could pose a risk to construction workers and the public. However, the project applicant would be required to comply with existing government regulations in the use and disposal of these materials, and such materials would not be used in sufficient strength or quantity to create a substantial risk to human or environmental health.

The portion of the project site proposed for construction is developed with an existing, vacant commercial building and associated asphalt parking. The project site is surrounded by residential uses with some vacant lands zoned for industrial and commercial use. As described further below in Section 4.9.d, there are no known hazardous materials sites located in proximity to the project site that would represent a significant risk to public health or safety (e.g., on-site storage, leaking tanks, approaching groundwater contamination plume). Therefore, it is unlikely that the soil and groundwater are contaminated with significant toxic or hazardous materials that would be released during construction. Additionally, compliance with the regulations described previously in Section 4.9.a would ensure that the proposed project would not create a significant hazard to the public or the environment through accident conditions involving the release of hazardous materials into the environment during the transport, use, or disposal of hazardous materials by ensuring that these materials are properly handled during construction of the proposed project. Therefore, this impact would be **less than significant**.

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? ***(No Impact)***

There are no existing or proposed schools within 0.25 mile of the proposed project. The three closest schools to the project site are: Dan Mini Elementary School, located at 1530 Lorenzo Drive approximately 0.42-mile northwest of the project site; Hogan Middle School, located at 850 Rosewood Avenue approximately 3.78 miles southeast of the project site; and Vallejo High School, located at 840 Nebraska Street approximately 3.0 miles south of the project site. Because these distances are greater than 0.25 mile from the project site, the proposed project would not emit hazardous emission or handle hazardous materials within 0.25 mile of an existing or proposed school. **No impact** would occur.

d. Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? ***(Less-Than-Significant Impact)***

The project site and a 1-mile radius encompassing the project site were evaluated via the State Water Resources Control Board (SWRCB) GeoTracker database,[29] the Department of Toxic

[29] State Water Resources Control Board (SWRCB). 2022. Geotracker Database. Website: https://geotracker.waterboards.ca.gov/ (accessed January 24, 2023).

Substances Control's (DTSC) EnviroStor database,[30] and the Hazardous Waste and Substances Sites (Cortese) List [31] for the purposes of identifying recognized environmental conditions or historical recognized environmental conditions. A total of 29 properties with recognized environmental conditions or historical recognized environmental conditions were identified within 1 mile of the project site, as detailed in Table 4.G.

Table 4.G: Hazardous Materials Database Search

Property	REC[1]	Historical Recognized Environmental Condition	Location Relative to the Project Site	Status of the Property
Texaco at 5201 Sonoma Boulevard	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 2,620 feet north of the project site.	Completed – Case closed as of 6/12/1998. A closure letter or other formal closure decision document has been issued for the site.
Chevron at 5200 Sonoma Boulevard	-	Gasoline, waste oil, motor oil, hydraulic oil, and lubricating oil contamination of groundwater for uses other than drinking water.	Approximately 2,750 feet north of the project site.	Completed - Case closed as of 12/12/2002. A closure letter or other formal closure decision document has been issued for the site.
B&N Super Stop at 701 Mini Drive	-	Non-specified.	Approximately 2,530 feet northeast of the project site.	Completed – Case closed as of 8/14/2015. A closure letter or other formal closure decision document has been issued for the site.
Vallejo Fire Station #5 at 595 Mini Drive	-	Gasoline contamination of soil.	Approximately 2,720 feet northeast of the project site.	Completed - Case closed as of 6/2/2004. A closure letter or other formal closure decision document has been issued for this site.
Goldberg Property at 380 Mini Drive	-	Gasoline contamination of soil.	Approximately 2,180 feet east of the project site.	Completed – Case closed as of 4/3/1997. A closure letter or other formal closure decision document has been issued for the site.
Chevron at 1610 Fairgrounds Drive	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 5,150 feet east of the project site.	Completed – Case closed as of 9/9/1998. A closure letter or other formal closure decision document has been issued for the site.

[30] California Department of Toxic Substances Control (DTSC). 2022. EnviroStar Database Website: https://www.envirostor.dtsc.ca.gov/public/ (accessed January 24, 2023).

[31] California Environmental Protection Agency (Cal/EPA). 2020. Cortese List Data Resources. Website: calepa.ca.gov/sitecleanup/corteselist/ (accessed January 24, 2023).

Table 4.G: Hazardous Materials Database Search

Property	REC[1]	Historical Recognized Environmental Condition	Location Relative to the Project Site	Status of the Property
Six Flags Marine World at 2001 S Marine World Parkway	-	Gasoline contamination of surface water.	Approximately 2,460 feet southeast of the project site.	Completed – Case closed as of 12/12/2002. A closure letter or other formal closure decision document has been issued for the site.
Vallejo Young USARC at 120 Mini Drive	-	Non-specified.	Approximately 1,670 feet southeast of the project site.	Completed – Case closed as of 5/20/2010. A closure letter or other formal closure decision document has been issued for this site.
Caltrans at 1700 Lewis Brown Drive	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 1,520 feet south of the project site.	Completed - Case closed as of 7/20/1998. A closure letter or other formal closure decision document has been issued for this site.
WDT Caltrans at 2001 Broadway	-	Diesel and total petroleum hydrocarbons (TPH) contamination of soil and groundwater for uses other than drinking water.	Approximately 1,350 feet south of the project site.	Completed - Case closed as of 12/17/2015. A closure letter or other formal closure decision document has been issued for this site.
Caltrans – Western Direct Transport at 2010 Broadway	Cleanup Program Site. Diesel and total petroleum hydrocarbons (TPH) contamination of soil and groundwater for uses other than drinking water.	-	Approximately 1,360 feet south of the project site.	Open – Site Assessment as of 1/27/2016.
Shell at 1990 Broadway	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 1,860 feet south of the project site.	Completed - Case closed as of 10/20/1999. A closure letter or other formal closure decision document has been issued for this site.
Arco #0761 at 1985 Broadway	-	Diesel and gasoline contamination of groundwater for uses other than drinking water.	Approximately 2,040 feet south of the project site.	Completed - Case closed as of 2/28/2014. A closure letter or other formal closure decision document has been issued for this site.
COFAB Corp at 1667 Marine World Parkway	-	Copper, diesel, waste oil, motor oil, hydraulic oil, and lubricating oil contamination of groundwater for uses other than drinking water.	Approximately 2,320 feet south of the project site.	Completed - Case closed as of 6/20/2006. A closure letter or other formal closure decision document has been issued for this site.

Table 4.G: Hazardous Materials Database Search

Property	REC[1]	Historical Recognized Environmental Condition	Location Relative to the Project Site	Status of the Property
Brad's Vallejo Transmission at 1627 Lewis Brown Drive	-	Stoddard solvent, mineral spirits, distillates, waste oil, motor oil, hydraulic oil, and lubricating oil contamination of groundwater for uses other than drinking water.	Approximately 2,640 feet south of the project site.	Completed - Case closed as of 5/25/2005. A closure letter or other formal closure decision document has been issued for this site.
Coca Cola at 1609 Marine World Parkway	-	Gasoline contamination of soil.	Approximately 3,010 feet south of the project site.	Completed - Case closed as of 5/29/1996. A closure letter or other formal closure decision document has been issued for this site.
Kilpatricks Bakery Inc. at 1901 Broadway	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 3,370 feet south of the project site.	Completed - Case closed as of 7/2/2001. A closure letter or other formal closure decision document has been issued for this site.
Powell Brothers at 1895 Broadway	-	Diesel contamination of soil.	Approximately 3,600 feet south of the project site.	Completed - Case closed as of 7/11/1996. A closure letter or other formal closure decision document has been issued for this site.
Vallejo Transit at 1850 Broadway	-	Diesel contamination of groundwater for uses other than drinking water.	Approximately 4,490 feet south of the project site.	Completed - Case closed as of 5/5/2009. A closure letter or other formal closure decision document has been issued for this site.
Ace Cleaners at 4380 Sonoma Boulevard	Cleanup Program Site. Dichloroethene (DCE), tetrachloroethylene (PCE), trichloroethylene (TCE), and vinyl chloride contamination of indoor air, soil, and soil vapor.	-	Approximately 2,900 feet south of the project site.	Open – Verification Monitoring as of 4/12/2019.
Shell at 1604 Lewis Brown Drive	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 2,740 feet south of the project site.	Completed - Case closed as of 61/23/2017. A closure letter or other formal closure decision document has been issued for this site.

Table 4.G: Hazardous Materials Database Search

Property	REC[1]	Historical Recognized Environmental Condition	Location Relative to the Project Site	Status of the Property
Chevron at 4375 Sonoma Boulevard	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 3,430 feet south of the project site.	Completed - Case closed as of 12/6/2013. A closure letter or other formal closure decision document has been issued for this site.
Bill Lang Pontiac Cadillac at 4301 Sonoma Boulevard (2 cleanup actions)	-	Metals, waste oil, motor oil, hydraulic oil, and lubricating oil contamination of soil and groundwater for uses other than drinking water.	Approximately 4,470 feet south of the project site.	Completed – The first case closed as of 5/13/1997. The second case closed as of 3/11/2010. A closure letter or other formal closure decision document has been issued for this site.
Connoly Development at 4300 Sonoma Boulevard	-	Gasoline contamination of unspecified media.	Approximately 5,080 feet south of the project site.	Completed - Case closed as of 7/23/1999. A closure letter or other formal closure decision document has been issued for this site.
Acme Transfer Storage Inc. at 163 Yolano Drive	-	Gasoline contamination of unspecified media.	Approximately 5,200 feet south of the project site.	Completed - Case closed as of 5/20/1996. A closure letter or other formal closure decision document has been issued for this site.
Auto Outlet at 140 Yolano Drive	-	Gasoline contamination of soil.	Approximately 1 mile south of the project site.	Completed - Case closed as of 7/2/2001. A closure letter or other formal closure decision document has been issued for this site.
Service Station formerly at 1502 Marine World Parkway	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 3,440 feet southwest of the project site	Completed - Case closed as of 1/25/2005. A closure letter or other formal closure decision document has been issued for this site.
Sharpe Van & Storage at 1133 Enterprise Street	-	Gasoline contamination of unspecified media.	Approximately 4,480 feet southwest of the project site.	Completed - Case closed as of 6/8/2000. A closure letter or other formal closure decision document has been issued for this site.
Former Tesoro #67115 at 1295 Enterprise Street	-	Gasoline contamination of groundwater for uses other than drinking water.	Approximately 4,790 feet southwest of the project site.	Completed - Case closed as of 1/8/2018. A closure letter or other formal closure decision document has been issued for this site.

Sources: State Water Resources Control Board (SWRCB) (2022); California Department of Toxic Substances Control (DTSC) (2022).
[1] Recognized Environmental Condition

As shown in Table 4.G, the regulatory oversight statuses of all but two recorded release sites listed leaking underground storage tanks (LUSTs) and spill sites within 1 mile of the project site as closed. A closed site indicates that regulatory requirements for response actions, such as site assessment and remediation, have either been completed or were not necessary and therefore potential migration of residual contaminants in groundwater beneath the project site does not likely pose a risk to human health and the environment.

The two active cleanup sites identified are (1) the Caltrans – Western Direct Transport at 2010 Broadway approximately 1,360 feet south of the project site, and (2) Ace Cleaners at 4380 Sonoma Boulevard approximately 2,900 feet south of the project site. Based on the type of cleanup site and distance from the project site, neither of these sites represents a significant risk to public health or safety on the project site. None of these properties occurs on or adjacent to the project site or has any activities or materials that would represent a significant risk to public health or safety (e.g., on-site storage, leaking tanks, or approaching groundwater contamination plume) on the project site. Therefore, impacts would be **less than significant**.

e. Would the project be located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? ***(No Impact)***

Solano County contains three airports: Travis Air force Base (Travis AFB), located approximately 17.2 miles northeast of the project site; the Nut Tree Airport, located approximately 22 miles northeast of the project site; and the Rio Vista Municipal Airport, located approximately 30 miles east of the project site. The Solano County Airport Land Use Commission (ALUC) oversees the orderly development of airports and adoption of land use measures that minimize public exposure to excessive noise and safety hazards in areas around public airports, as well as prepares the airport land use compatibility plans (ALUCP) for the three airports located within the County.

No airports are located within the City of Vallejo, and the project site is not within the Travis Air Force Base Plan, the Nut Tree Airport Plan, or the Rio Vista Municipal Airport Plan. In addition, all of these airports are located further than 2 miles from the project site. Therefore, the project would result in **no impact** regarding safety hazards or excessive noise for people residing within the project area.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? ***(Less-Than-Significant Impact)***

The *Vallejo General Plan 2040* Nature and Built Environment chapter addresses natural and human-made hazards and dangers and offers methods to mitigate natural hazards, enhance disaster resistance, and promote public safety. The element focuses on natural disasters, including earthquake hazards (surface faulting, ground shaking, liquefaction, landslides, and tsunamis), and weather-related hazards (flooding, landslides, wildfires, drought, and climate change). The element does not identify specific evacuation routes within the City.

The Solano County General Plan Public Health and Safety chapter discusses disaster preparedness, and the Solano County Office of Emergency Services (OES) is responsible for creating and

maintaining the Solano County Emergency Operations Plan (EOP). The plan establishes management organization and assigns functions and tasks consistent with California's Standardized Emergency Management System (SEMS) and the National Incident Management Systems (NIMS). It provides for the integration and coordination of planning efforts of Solano County and the intent of the EOP is to provide direction on how to respond for an emergency form the onset through extended response, and into the recovery process.[32] The Solano County OES also prepares and maintains the Solano County Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) which identifies risks and ways to minimize damage from natural and human-made disasters. Section 7 of the MJHMP details the hazard mitigation planning elements specific to the City of Vallejo.[33] Neither of these plans identify specific evacuation routes within the City or the County.

Construction activities that may temporarily restrict vehicular traffic would implement adequate and appropriate measures to facilitate the passage of persons and vehicles through/around any required road closures. As a condition of project approval, the applicant's construction manager would be required to provide lane closure requirements to the City as well as to local emergency service responders (i.e., ambulance companies, fire department, and police department). Adherence to the emergency access measures required by the City would ensure that impacts related to the implementation of or physical interference with an adopted emergency response plan or emergency evacuation plan would be less than significant.

The proposed project would be consistent with the policies outlined in the Solano County General Plan Public Health and Safety chapter, the City of Vallejo General Plan Nature and Built Environment chapter, Solano County EOP, and the Solano County MJHMP. The proposed project would not alter or block adjacent roadways, and implementation of the proposed project would not be expected to impair the function of nearby emergency evacuation routes. In addition, operation of the proposed project would not cause permanent alterations to vehicle circulation routes and patterns or impede public access or travel upon public rights-of-way. Prior to approval of final maps and improvement plans for any development project within Vallejo, plan review and approval by the Vallejo Fire District is required. Internal roadways and ingress/egress for each site would be required to meet State and local standards regarding turning radius, road width, and emergency vehicle access. Therefore, potential impacts to an adopted emergency response plan or emergency evacuation plan would be **less than significant**.

g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? ***(Less-Than-Significant Impact)***

According to the California Department of Forestry and Fire Protection (CAL FIRE), the project site is within a local responsibly area (LRA), meaning the local government (the City of Vallejo) is financially responsible for wildland fire protection but is not considered to be within a Very High Fire Hazard

[32] Solano County Office of Emergency Services (OES). 2017. *Solano County Emergency Operations Plan (EOP).* Updated January 2017. Website: https://www.solanocounty.com/civicax/filebank/blobdload.aspx?BlobID=13271 (accessed January 24, 2023).

[33] Solano County Office of Emergency Services (OES). 2022. *Solano County Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) Volume II, Section 7 City of Vallejo.* March 15, 2022. Website: https://www.solanocounty.com/civicax/filebank/blobdload.aspx?blobid=37785 (accessed January 24, 2023).

Severity Zone (VHFHSZ).[34] Additionally, the City of Vallejo General Plan states that there are no Very High Fire Hazard Areas in or adjacent to the City, and does not identify the project site or surrounding area as being in a moderate or high wildfire risk area.

Construction of the proposed project would involve the use of some flammable materials such as gasoline, diesel fuel, hydraulic oils, paints, solvents, or other wastes. During construction, there would be increased human activity and ignition sources, including equipment that could create spark, be a source of heat, or leak flammable materials on the project site. However, all construction equipment is required to have fire suppression equipment (such as a fire extinguisher) on board or at the work site, secondary containment would be required for fuel-powered equipment, and a spill kit would be required to be kept on site during construction for use in case of any leaks or spills of flammable materials. These existing requirements would reduce the potential exacerbation of wildfire risks related to construction activities.

The operation of the proposed project would be consistent with surrounding residential uses and the allowable zoning for the project site. The proposed project would be subject to the design standards and guidelines as outlined in the City of Vallejo Municipal Code and would undergo Development Review to ensure that proposed structures conform with all applicable regulations.

The proposed project would also be subject to requirements in Section 13000 et seq. of the California Health and Safety Code, the California Building Standards Code, and the California State Fire Code, which include regulations concerning the following: building standards for fire protection; fire protection and notification systems such as extinguishers and smoke alarms; safety for firefighters and emergency responders during emergency operations; minimum standards for hazardous vegetation and fuel management, defensible space, and building construction; and minimum standards for emergency access and water supply for fire response.

Compliance with these existing regulatory requirements would ensure that the proposed project would not exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. Impacts would be **less than significant**.

[34] California Department of Forestry and Fire Protection (CAL FIRE). 2022. Solano County, State Responsibility Area Fire Hazard Severity Zones. November 2022. Website: https://osfm.fire.ca.gov/media/5wwwjs5hp/fhsz_county_sra_11x17_2022_solano_ada.pedf (accessed January 24, 2022).

4.10 HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☒	☐
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☐	☐	☒	☐
i. Result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv. Impede or redirect flood flows?	☐	☐	☐	☒
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

*a. Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality? **(Less-Than-Significant Impact)***

Construction. The proposed project involves the demolition of the existing, vacant commercial building and associated surface parking on the project site and the construction of 11 new multi-family residential buildings and associated improvements. Pollutants of concern during construction include sediments, trash, petroleum products, concrete waste (dry and wet), sanitary waste, and chemicals. Each of these pollutants on its own or in combination with other pollutants can have a detrimental effect on water quality. During construction activities, excavated soil would be exposed, and there would be an increased potential for soil erosion and sedimentation compared to existing conditions. In addition, chemicals, liquid products, petroleum products (e.g., paints, solvents, and fuels), and concrete-related waste may be spilled or leaked and have the potential to be transported via stormwater runoff into receiving waters.

Because construction of the proposed project would disturb greater than 1 acre of soil, the project is subject to the requirements of the National Pollutant Discharge Elimination System (NPDES) permit Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ, NPDES No. CAS000002, as amended by

Order Nos. 2010-0014-DWQ and 2012-0006-DWQ) (Construction General Permit).[35] The Construction General Permit (CGP) requires preparation of a Stormwater Pollution Prevention Plan (SWPPP) and implementation of construction Best Management Practices (BMPs) during construction activities. Construction BMPs would include, but not be limited to, Erosion Control and Sediment Control BMPs designed to minimize erosion and retain sediment on site and Good Housekeeping BMPs to prevent spills, leaks, and discharge of construction debris and waste into receiving waters. Adherence with the CGP would ensure construction impacts related to surface water quality standards, waste discharge requirements, and surface water quality would be **less than significant**.

Operation. Pollutants of concern from long-term operations include pathogens (bacteria/viruses), metals, nutrients, toxic organic compounds, pesticides/herbicides, sediments/total suspended solids, trash and debris, and oil and grease. However, the proposed project would be subject to the requirements of the California Regional Water Quality Control Board San Francisco Bay Region Municipal Regional Stormwater NPDES Permit (MRP) (Order No. R2-2022-0018, NPDES Permit No. CAS612008).[36] The MRP covers stormwater discharges from municipalities and local agencies in Alameda, Contra Costa, San Mateo, and Santa Clara counties, and the cities of Fairfield, Suisun City, and Vallejo. Provision C.3 of the MRP requires new development and redevelopment projects that would replace more than 5,000 square feet of existing impervious surfaces to include post-construction stormwater control in project designs. Under the Provision C.3 requirements, the preparation and submittal of a Stormwater Control Plan (SCP) would be required for the project site. The purpose of an SCP is to detail the design elements and implementation measures necessary to meet the post-construction stormwater control requirements of the MRP. In particular, SCPs must include Low Impact Development (LID) design measures, which reduce water quality impacts by preserving and recreating natural landscape features, minimizing impervious surfaces, and using stormwater as a resource, rather than a waste product. As outlined in Section 2.0, Project Description, the proposed project would include approximately 16,131 square feet of bioretention space throughout the project site that would be used for stormwater control. The proposed project would include the construction of 12-, 15- and 30-inch storm drains with associated manholes throughout the project area that would connect to the bioretention basins and existing stormwater facilities on Sonoma Boulevard and Broadway. The proposed project would also be required to prepare a Stormwater Facility Operation and Maintenance Plan to ensure that stormwater control measures are inspected, maintained, and funded for the life of the project. Compliance with the Provision C.3 requirements of the MRP would ensure that operation-period impacts to water quality would be **less than significant**.

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35 California Regional Water Quality Control Board (RWQCB). 2013. Order No. 2009-0009-DWQ, NPDES No. CAS000002, as amended by Orders No. 2010-0014-DWQ, and 2012-0006-DWQ, *Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities* (accessed February 9, 2023).

36 California Regional Water Quality Control Board. 2022. San Francisco Bay Region Municipal Regional Stormwater NPDES Permit Order No. R2-2022-0018, Permit No. CAS612008. May 11. Website: https://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2022/R2-2022-0018.pdf (accessed February 9, 2023).

Therefore, because the proposed project would be required to comply with existing regulations including the CGP and the MRP, the proposed project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality. Impacts would be **less than significant**.

b. Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? ***(Less-Than-Significant Impact)***

The project site is located within the Napa-Sonoma Valley –Lowlands groundwater basin boundary.[37] Impacts related to groundwater recharge are discussed below.**Construction.** Dewatering from excavations is not anticipated to be required; however, it is possible that temporary dewatering from isolated areas of deeper excavation could be necessary during construction. If dewatering is required, it would be conducted in accordance with the requirements of the General Waste Discharge Requirements for Limited Threat Discharges to Surface Waters (General Waste Discharge Permit), Order No. R5-2022-006, NPDES No. CAG995002.

If needed, groundwater dewatering would be localized and temporary, and the volume of groundwater removed would not be substantial. In addition, any volume of water removed during groundwater dewatering would be minimal compared to the size of the Napa-Sonoma Valley – Napa-Sonoma Lowlands Groundwater Subbasin, which is 40,297.45 acres in size.[38] Therefore, construction impacts related to depletion of groundwater supplies or interference with groundwater recharge would be less than significant.

The project site is currently developed and largely covered with impervious surfaces; therefore, development of the project would not increase impervious surface area on the project site. As such, recharge would not change substantially from the existing condition, and no impacts would occur due to groundwater recharge.

Project operations would not require groundwater extraction. While the project would increase water use, the City of Vallejo obtains water from the Sacramento River watershed; the Solano Project from Putah Creek Watershed which includes Lake Berryessa; the Wild Horse Creek watershed through Lake Madigan, Lake Frey, and the Green Valley Diversion; and the Upper Suisun Creek watershed through Lake Curry.[39] Because the City does not use groundwater for municipal water supply, water use during operation of the proposed project would not affect groundwater. For these reasons, impacts related to depletion of groundwater supplies or interference with groundwater recharge in a manner that may impede sustainable groundwater management would be **less than significant**.

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37 California Department of Water Resources (DWR). 2022. SGMA Data Viewer. Website: https://sgma.water.ca.gov/webgis/index.jsp?appid=gasmaster&rz=true (accessed August 2022).

38 DWR. 2019. *Napa-Sonoma Valley – Lowlands* Groundwater Exchange. Website: https://groundwaterexchange.org/basin/napa-sonoma-valley-lowlands/ (accessed February 9, 2023).

39 City of Vallejo. 2021. *2020 Urban Water Management Plan*. October 12, 2021.

c. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i. Result in substantial erosion or siltation on- or off-site? ***(Less-Than-Significant Impact)***

During construction activities, more than 1 acre of soil would be disturbed. Soil would be exposed, and drainage patterns would be temporarily altered during grading and other construction activities, and there would be an increased potential for soil erosion and siltation compared to existing conditions. Additionally, during a storm event, soil erosion and siltation could occur at an accelerated rate. As discussed above in Section 4.10.a, the CGP requires the preparation of a SWPPP to identify construction BMPs to be implemented as part of the proposed project to reduce impacts on water quality during construction, including those impacts associated with soil erosion and siltation. With compliance with the requirements in the CGP and implementation of construction BMPs, construction impacts related to on- or off-site erosion or siltation would be **less than significant**.

Upon construction of the proposed project, approximately 9.7 acres (77 percent) of the project site would be covered by impervious surfaces and approximately 2.8 acres (23 percent) would be covered by pervious surfaces, consisting of landscaped areas with lawns, shrubs, and trees. In compliance with the MRP, the proposed project would include approximately 16,131 square feet of bioretention space that would be used for stormwater control, treatment, and infiltration. The proposed project would include the construction of 12-, 15- and 30-inch storm drains with associated manholes throughout the project area that would connect to the bioretention basins and existing stormwater facilities on Sonoma Boulevard and Broadway. Therefore, due to the implementation of LID techniques as required by the MRP, operational impacts related to on- or off-site erosion or siltation would be **less than significant**.

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite? ***(Less-Than-Significant Impact)***

The project site is currently developed with an existing commercial building, paving, concrete, and other impervious surfaces, which account for the majority of the 12.6-acre project site. Upon construction of the proposed project, approximately 9.7 acres (77 percent) of the project site would be covered by impervious surfaces and approximately 2.8 acres (23 percent) would be covered by pervious surfaces, consisting of landscaped areas with lawns, shrubs, and trees. The proposed project would include approximately 16,131 square feet of bioretention space throughout the project site that would be used for stormwater control. The proposed project would include the construction of 12-, 15- and 30-inch storm drains with associated manholes throughout the project area that would connect to the bioretention basins and existing stormwater facilities on Sonoma Boulevard and Broadway. The proposed drainage facilities and BMPs needed to accommodate stormwater runoff would also be appropriately sized so that on-site flooding would not occur. Therefore, due to the implementation of LID techniques as required by the MRP, the proposed project would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off site. Impacts would be **less than significant**.

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? ***(Less-Than-Significant Impact)***

The proposed project would include approximately 16,131 square feet of bioretention space throughout the project site that would be used for stormwater control. The proposed project would include the construction of 12-, 15- and 30-inch storm drains with associated manholes throughout the project area that would connect to the bioretention basins and existing stormwater facilities on Sonoma Boulevard and Broadway. The proposed drainage facilities and BMPs needed to accommodate stormwater runoff would be appropriately sized such that on-site drainage facility capacity would not be exceeded during a design storm. Therefore, the proposed project would not result in an exceedance of planned or existing stormwater drainage systems.

As discussed previously in Section 4.10.a, pollutants of concern during construction include sediments, trash, petroleum products, concrete waste (dry and wet), sanitary waste, and chemicals. Each of these pollutants on its own or in combination with other pollutants can have a detrimental effect on water quality. Drainage patterns would be temporarily altered during grading and other construction activities, and construction-related pollutants could be spilled, leaked, or transported via storm runoff into adjacent drainages and downstream receiving waters. However, as discussed, the proposed project would be required to comply with the requirements set forth by the CGP and SWPPP, which would specify BMPs to be implemented to control the discharge of pollutants in stormwater runoff as a result of construction activities.

Expected pollutants of concern from long--term operations include pathogens (bacteria/viruses), metals, nutrients, toxic organic compounds, pesticides/herbicides, sediments/total suspended solids, trash and debris, and oil and grease. As discussed, compliance with the MRP and the implementation of LID techniques, including the construction of approximately 16,131 square feet of bioretention space would ensure that no substantial sources of polluted runoff would be discharged from the project site. Impacts would be **less than significant**.

iv. Impede or redirect flood flows? ***(No Impact)***

The project site is not located within a Federal Emergency Management Agency (FEMA) designated 100-year or 500-year floodplain.[40] As the proposed project would not place improvements and structures directly within a 100-year floodplain, the project would not impede or redirect flood flows, and there would be **no impact**.

[40] Federal Emergency Management Agency (FEMA). 2016. *Flood Insurance Rate Map No. 06095C0419F*. August 13. Website: https://msc.fema.gov/portal/search?AddressQuery=5180%20Sonoma%20Boulevard%2C%20Vallejo%2C%20CA#searchresultsanchor (accessed February 9, 2023).

*d. In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation? **(No Impact)***

The project site is not located within a FEMA designated 100-year or 500-year floodplain.[41] The project site is not located in an area mapped by the California Emergency Management Agency as being potentially inundated by a tsunami.[42] Seiches are waves that are created in an enclosed body of water such as a bay, lake, or harbor and go up and down or oscillate and do not progress forward like standard ocean waves. The nearest water bodies are the Napa River, located approximately 1 mile west of the project site, and Lake Chabot, located approximately 1 mile southeast of the project site. Both of these water bodies are located at a lower elevation than the project site and would not inundate the project site in the event of a seiche. Therefore, there would be **no impact** related to the release of pollutants in the event of inundation due to flood hazard, tsunamis, or seiches.

*e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? **(Less-Than-Significant Impact)***

The Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan)[43] is the master policy document that establishes the water quality objectives and strategies needed to protect designated beneficial water uses in the San Francisco Bay region. The State Water Board and the Regional Water Board enforce compliance with the water quality objectives of the Basin Plan through the issuance of NPDES permits. The project's compliance with existing permit requirements as discussed in Section 4.10.a, including the CGP and MRP, would ensure that the proposed project would not conflict with the Basin Plan, and this impact would be less than significant.

The project site is located within a mapped Division of Water Rights groundwater basin boundary; however, the Napa-Sonoma Valley –Lowlands Groundwater Subbasin is a low-priority basin and is not subject to a sustainable groundwater management plan. Nevertheless, the proposed project would not interfere with groundwater recharge in the vicinity of the project site. For these reasons, the proposed project would not conflict with or obstruct the implementation of a sustainable groundwater management plan, and this impact would be **less than significant**.

41 Federal Emergency Management Agency (FEMA). 2016. *Flood Insurance Rate Map No. 06095C0419F*. August 13. Website: https://msc.fema.gov/portal/search?AddressQuery=5180%20Sonoma%20Boulevard%2C%20Vallejo%2C%20CA#searchresultsanchor (accessed February 9, 2023).

42 DOC. 2022. *Solano County Tsunami Hazard Areas.* Website: https://www.conservation.ca.gov/cgs/tsunami/maps/solano (accessed February 9, 2023).

43 California Regional Water Quality Control Board (RWQCB). 2017. San Francisco Bay Region. *Water Quality Control Plan for the San Francisco Bay Basin*. May 4.

4.11 LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Physically divide an established community?	☐	☐	☒	☐
b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

*a. Would the project physically divide an established community? **(Less-Than-Significant Impact)***

The physical division of an established community typically refers to the construction of a physical feature (such as an interstate highway or railroad tracks) or removal of a means of access (such as a local road or bridge) that would impair mobility within an existing community, or between a community and outlying area. For instance, the construction of an interstate highway through an existing community may constrain travel from one side of the community to another; similarly, such construction may also impair travel to areas outside the community.

The project site is located in an urban area of the City of Vallejo and is generally surrounded by residential uses. To the north, the project site is bounded by a large triangular vacant lot that is zoned Central Corridor Commercial (CC). The site is bordered immediately to the east by Broadway and railroad tracks. Further east is the College Estates Subdivision, consisting of a single-family residential development. The project site is bordered immediately to the south by industrial uses, including Central Self-Storage and Recology Vallejo, and State Route 37 further south. The project site is bordered immediately to the west by Sonoma Boulevard. Further west is the Delta Meadows subdivision, consisting of single-family residential development. The proposed project would include the development of the project site with residential uses, consistent with residential communities in the surrounding area. The proposed project would not require the construction of any new infrastructure that would divide an established community and would not remove any means of access. Therefore, the proposed project would not result in a physical division of an established community or adversely affect the continuity of land uses in the vicinity. This impact would be **less than significant.**

*b. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? **(Less-Than-Significant Impact)***

The *Vallejo General Plan 2040* designates the project site as North Gateway District (D-NG) The D-NG designation "is intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area." The maximum permitted floor-area ratio (FAR) in the D-NG designation is 2.0, with a minimum residential density of 30 dwelling units per acre up to 50 dwelling units per acre. The project site is zoned Central Corridor Commercial (CC). Land uses in

the Central Corridor Commercial zone include mixed-use with housing, medium and high density residential, or non-residential uses at street level, subject to design and development standards to promote a mixed-use and pedestrian orientation. The proposed project would develop the 12.6-acre project site with 11 multi-family residential buildings containing 429 dwelling units, resulting in 34 dwelling units per acre, which meets the residential density standard for the D-NG designation. In addition, the proposed project would also require building permits, Development Review, Design Review and Landscape Review.

It should be noted that according to CEQA, policy conflicts do not, in and of themselves, constitute a significant environmental impact. Policy conflicts are considered to be environmental impacts only when they would result in direct physical impacts or where those conflicts relate to avoiding or mitigating environmental impacts. As such, associated physical environmental impacts are discussed in this Initial Study/Mitigated Negative Declaration (IS/MND) under specific topical sections. The proposed project would not result in any direct physical impacts that cannot be mitigated to a less-than-significant level.

The proposed project would not conflict with any applicable land use plans, policies, or regulations that were adopted for the purpose of avoiding or mitigating an environmental effect. This impact would be **less than significant**.

4.12 MINERAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

*a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? **(No Impact)***

Minerals are any naturally occurring chemical element or compound, or groups of elements and compounds, formed from inorganic processes and organic substances including, but not limited to, coal, peat and oil-bearing rock, but excluding geothermal resources, natural gas and petroleum. Rock, sand, gravel, and earth are also considered minerals by the Department of Conservation when extracted by surface mining operations. The project site is located within an urban area on a previously developed site, and there are no known mineral resources within the vicinity of the project site that would be of value to the region or to the State. According to the 2008 Solano County General Plan, the project site is not located in any mineral resource zones and there are no mineral resource zones adjacent to the project site. The site has been disturbed and any construction activities (i.e., grading, soil excavation, etc.) would not be at a depth where unknown mineral resources may be inadvertently discovered. Therefore, development of the proposed Project would not result in the loss of available mineral resources. **No impact** related to mineral resources would occur.

*b. Would the project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? **(No Impact)***

Please refer to Section 4.12.a. The proposed project would not result in the loss of availability of any known locally important mineral resource recovery site. Therefore, **no impact** related to the availability of a locally important mineral resources recovery site would occur.

4.13 NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in:				
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b. Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☒	☐

Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, or sleep. Several noise measurement scales exist that are used to describe noise in a particular location. A decibel (dB) is a unit of measurement that indicates the relative intensity of a sound. Sound levels in dB are calculated on a logarithmic basis. An increase of 10 dB represents a 10-fold increase in acoustic energy, while 20 dB is 100 times more intense, and 30 dB is 1,000 times more intense. Each 10 dB increase in sound level is perceived as approximately a doubling of loudness; and similarly, each 10 dB decrease in sound level is perceived as half as loud. Sound intensity is normally measured through the A-weighted sound level (dBA), and this scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. The A-weighted sound level is the basis for 24-hour sound measurements which better represent how humans are more sensitive to sound at night.

As noise spreads from a source, it loses energy so that the farther away the noise receiver is from the noise source, the lower the perceived noise level would be. Geometric spreading causes the sound level to attenuate or be reduced, resulting in a 6 dB reduction in the noise level for each doubling of distance from a single point source of noise to the noise sensitive receptor of concern.

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. Equivalent continuous sound level (L_{eq}) is the total sound energy of time varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq}, the community noise equivalent level (CNEL), and the day-night average level (L_{dn}) based on A-weighted decibels (dBA). CNEL is the time varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours) and 10 dBA weighting factors applied to noise occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale, but without the adjustment for events occurring during the evening relaxation hours. CNEL and L_{dn} are within one dBA of each other and

are normally exchangeable. The noise adjustments are added to the noise events occurring during the more sensitive hours.

Regulatory Framework. The City of Vallejo sets noise and land use compatibility standards in the Nature and Built Environment section of the 2040 General Plan.[44] Specifically, Goal NBE-5 requires the City to protect life and property from natural and human-made hazards and Policies NBE-5.13 and NBE-5.14 establish noise and vibration control policies to protect the community from excessive noise and vibration. Policy NBE-5.15 establishes Noise Compatibility Standards for all new residential, commercial, and mixed-use development and redevelopment. For multi-family residential projects, the acceptable exterior and interior noise levels are an exterior L_{dn} of 65 dBA (excluding balconies) and an interior L_{dn} of 45 dBA.

In addition, the City regulates noise in Section 16.502.09 of the City of Vallejo Municipal Code.[45] Table 16.502-C of the Municipal Code, Maximum Noise Level by Noise Zone, classifies uses and facilities and establishes the maximum noise level to be generated by daily operations as measured at the property line or at any boundary of a residential zone. For single-unit residential and multiple-unit residential, the maximum noise levels are 60 dBA L_{eq} and 65 dBA L_{eq}, respectively.

Further, as established in the City of Vallejo Municipal Code, construction, demolition, and related loading/unloading activities that may generate noise exceeding levels in Table 4.H shall be limited to hours between 7:00 a.m. and 7:00 p.m. in residential zoning districts and in any mixed-use district.

Table 4.H: Maximum Noise Level For Temporary Construction Activity (Mobile Construction Equipment)

Time	Rural Residential, Residential Low Density	Residential Medium Density, Residential Medium Density, Neighborhood Mixed Use, Neighborhood Commercial	Commercial (including medical and office) and industrial
Weekdays 7:00 a.m. to 6:00 p.m.	75 dBA	80 dBA	85 dBA
Saturdays 9:00 a.m. to 6:00 p.m.	60 dBA	65 dBA	70 dBA
Sundays and legal holidays	None	None	None

Source: City of Vallejo Municipal Code, Section 16.502.09, Noise Ordinance.
dBA = A-weighted decibels

[44] City of Vallejo. 2017. *Vallejo General Plan 2040*. August 29.
[45] City of Vallejo. 2023. *Municipal Code Section 16.502.09*. February 7. Website: https://library.municode.com/ca/vallejo/codes/municipal_code (accessed March 2023).

Vibration standards included in the Federal Transit Administration's (FTA) 2018 *Transit Noise and Vibration Impact Assessment Manual* (FTA Manual) are used in this analysis for ground-borne vibration impacts on human annoyance. The criteria for environmental impact from ground-borne vibration and noise are based on the maximum levels for a single event. Table 4.I provides the criteria for assessing the potential for interference or annoyance from vibration levels in a building.

Table 4.I: Interpretation of Vibration Criteria for Detailed Analysis

Land Use	Max L_v (VdB)[1]	Description of Use
Workshop	90	Vibration that is distinctly felt. Appropriate for workshops and similar areas not as sensitive to vibration.
Office	84	Vibration that can be felt. Appropriate for offices and similar areas not as sensitive to vibration.
Residential Day	78	Vibration that is barely felt. Adequate for computer equipment and low-power optical microscopes (up to 20×).
Residential Night and Operating Rooms	72	Vibration is not felt, but ground-borne noise may be audible inside quiet rooms. Suitable for medium-power microscopes (100×) and other equipment of low sensitivity.

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
[1] As measured in 1/3-Octave bands of frequency over the frequency range 8 to 80 Hertz.
FTA = Federal Transit Administration
LV = velocity in decibels
Max = maximum
VdB = vibration velocity decibels

Table 4.J lists the potential vibration building damage criteria associated with construction activities, as suggested in the FTA Manual. FTA guidelines show that a vibration level of up to 0.5 inches per second (in/sec) in peak particle velocity (PPV) is considered safe for buildings consisting of reinforced concrete, steel, or timber (no plaster), and would not result in any construction vibration damage. For non-engineered timber and masonry buildings, the construction building vibration damage criterion is 0.2 in/sec in PPV.

Table 4.J: Construction Vibration Damage Criteria

Building Category	PPV (in/sec)
Reinforced concrete, steel, or timber (no plaster)	0.50
Engineered concrete and masonry (no plaster)	0.30
Non-engineered timber and masonry buildings	0.20
Buildings extremely susceptible to vibration damage	0.12

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
FTA = Federal Transit Administration
in/sec = inch/inches per second
PPV = peak particle velocity

Existing Conditions. Certain land uses are considered more sensitive to noise than others. Examples of these include residential areas, educational facilities, hospitals, childcare facilities, and senior housing. The project site is generally surrounded by a mix of commercial and residential uses. The closest sensitive receptors are the residences located to the west, approximately 150 feet from the project site boundary.

Existing noise sources at the project site are primarily associated with traffic on Sonoma Boulevard and surrounding roadways, including Broadway.

Residential Noise Analysis. In *California Building Industry Association v. Bay Area Air Quality Management District,* the Supreme Court of California ruled that "CEQA generally does not require an analysis of how existing environmental conditions will affect a project's future users or residents."[46] With this ruling, CEQA no longer considers the impact of the environment on a project to be an environmental impact, unless the project could exacerbate an existing environmental hazard. Therefore, an environmental document is not required to include an evaluation of whether the project would have the potential to expose project site residential receptors to excessive noise from existing noise sources near the project site, and such an analysis is not included the impact analysis below. However, the City of Vallejo General Plan requires that a noise analysis be completed for residential projects to ensure that the residents are not exposed to noise levels in excess of General Plan standards. To address this requirement, an analysis of noise levels that would be experienced in the private exterior living areas as well as inside the proposed residences was conducted. That analysis is presented below.

Exterior Noise Assessment. The existing measured noise levels at the project site range from approximately 65.8 dBA L_{dn} to 75.4 dBA L_{dn}, based on existing noise levels measured between February 9, 2023, and February 10, 2023, in the vicinity of the project. As established in the City's General Plan, an exterior noise level of up to 65 dBA L_{dn} would be considered the standard for community noise exposure.

Based on the project site plan, the pool area in the center of the project site is considered as an exterior sensitive use. Taking into account the reduction of noise due to distance attenuation, estimated noise levels would approach 65 dBA CNEL. Once the shielding provided by existing or proposed buildings is accounted for the exterior noise levels would be below the City's 65 dBA L_{dn} exterior noise level standard. Therefore, noise reduction measures would not be required.

***Interior Noise Assessment*.** As discussed above, per the California Code of Regulations (CCR) and the City's interior noise level standard, an interior noise level standard of 45 dBA L_{dn} or less is required for all noise-sensitive rooms. Based on the expected future exterior noise levels at the residences closest to Sonoma Boulevard approaching 75 dBA L_{dn}, a minimum noise reduction of 30 dBA would be required.

Based on reference information from transmission loss test reports for various Milgard windows[47], the necessary reduction can be achieved with standard building construction and upgraded windows with Sound Transmission Class (STC) ratings of 30–35. With upgraded windows with STC 32, interior noise levels would be of 45 dBA, and this noise level would not exceed the City's interior noise standard of 45 dBA L_{dn} for residential uses. Other façades on the project site are farther from surrounding roadways and would be exposed to lower traffic noise levels.

[46] *California Building Industry Assn. v. Bay Area Air Quality Management District.* 2015. 62 Cal.4th 369, 386.
[47] Milgard Windows and Doors. 2008. Various Transmission Loss Reports.

Once final plans are available and a window manufacturer has been chosen, a final acoustic report would be required to confirm the reduction capability of the exterior façades and to identify any specific upgrades necessary to achieve an interior noise level of 45 dBA L_{dn} or below.

a. Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? ***(Less-Than-Significant Impact)***

Construction-Period Impacts. Construction of the proposed project would include construction activities that would result in a temporary increase in ambient noise levels in the project site vicinity. Maximum construction noise levels would be short-term, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of noise impacts generally would be from one day to several days depending on the phase of construction. Project construction would occur for approximately 3 to 4 months. The level and types of noise impacts that would occur during construction are described below.

Short-term noise impacts would occur during paving and site preparation activities. **Error! Reference source not found.**K lists maximum noise levels recommended for noise impact assessments for typical construction equipment, based on a distance of 50 feet between the equipment and a noise receptor. Construction-related short-term noise levels would be higher than existing ambient noise levels currently in the project area but would no longer occur once construction of the project is completed.

Two types of short-term noise impacts could occur during construction of the proposed project. The first type involves construction crew commutes and the transport of construction equipment and materials to the site for the proposed project, which would incrementally increase noise levels on roads leading to the site. As shown in **Error! Reference source not found.**, there would be a relatively high single-event noise exposure potential at a maximum level of 85 dBA maximum A-weighted sound level (L_{max}) with trucks passing from 50 feet.

The second type of short-term noise impact is related to noise generated during demolition of existing structures, excavation, grading, and construction on the project site. Construction is performed in discrete steps, or phases, each with its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase.

Average maximum noise levels range up to 90 dBA L_{max} at 50 feet during the noisiest construction phases. The site preparation and grading phases, including excavation of the site, tend to generate the highest noise levels because earthmoving machinery is the noisiest construction equipment. Earthmoving equipment includes excavating machinery such as backfillers, bulldozers, draglines, and front loaders. Earthmoving and compacting equipment includes compactors, scrapers, and graders. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full-power operation followed by 3 or 4 minutes at lower power settings.

Table 4.K: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor (%)	Maximum Noise Level (L_{max}) at 50 Feet[1]
Backhoes	40	80
Compactor (ground)	20	80
Compressor	40	80
Cranes	16	85
Dozers	40	85
Dump Trucks	40	84
Excavators	40	85
Flat Bed Trucks	40	84
Forklift	20	85
Front-end Loaders	40	80
Graders	40	85
Impact Pile Drivers	20	95
Jackhammers	20	85
Pick-up Truck	40	55
Pneumatic Tools	50	85
Pumps	50	77
Rock Drills	20	85
Rollers	20	85
Scrapers	40	85
Tractors	40	84
Welder	40	73

Source: Roadway Construction Noise Model (FHWA 2006).
Note: Noise levels reported in this table are rounded to the nearest whole number.
[1] Maximum noise levels were developed based on Spec 721.560 from the Central Artery/Tunnel (CA/T) program to be consistent with the City of Boston's Noise Code for the "Big Dig" project.
FHWA = Federal Highway Administration
L_{max} = maximum instantaneous sound level

As identified above, the project site is generally surrounded by commercial and residential uses. The closest receptors include the commercial uses located north and south of the project site approximately 460 feet and 480 feet, respectively, from the center of project site and residential uses located 480 feet west and 570 feet east from the center of the project site, respectively. The 460-foot distance would decrease the noise level by approximately 19 dBA compared to the noise level measured at 50 feet from the construction activity. Therefore, the closest off-site receptors may be subject to short-term construction noise levels of 68 dBA L_{eq} when construction is occurring at the center of project site, and this noise level would be lower than the 75 dBA L_{eq} and 85 dBA L_{eq} criteria established by the City's Municipal Code for residential and commercial uses, respectively. Although the short-term construction noise level exceeds the Saturday (9:00 a.m. to 6:00 p.m.) standard of 60 dBA L_{eq} at residential zoned areas, the construction noise levels would remain below the existing ambient noise level of approximately 71 dBA L_{eq} measured for the same time period.

Further, as stated above, construction activities are regulated by the City's Municipal Code. The proposed project would comply with the construction hours specified in the City's noise regulations, which state that construction activities are allowed between the hours of 7:00 a.m. and 7:00 p.m. on weekdays and between 9:00 a.m. and 6:00 p.m. on Saturdays. Therefore, construction noise impacts would be considered less than significant.

Long-Term Noise Impacts. The project would generate long-term noise impacts from traffic as well as the heating, ventilation, and air conditioning (HVAC) equipment discussed below.

Traffic Noise Impacts. The guidelines included in the FHWA Highway Traffic Noise Prediction Model (FHWA-RD-77 108) were used to evaluate highway traffic-related noise conditions along roadway segments in the project vicinity. This model requires various parameters, including traffic volumes, vehicle mix, vehicle speed, and roadway geometry, to compute typical equivalent noise levels during daytime, evening, and nighttime hours. The resultant noise levels are weighted and summed over 24-hour periods to determine the CNEL values. Table 4.L provides the traffic noise levels for the existing with and without project and opening year with and without project scenarios. These noise levels represent the worst-case scenario, which assumes no shielding is provided between the traffic and the location where the noise contours are drawn.

Table 4.L: Traffic Noise Levels Without and With Proposed Project

Roadway Segment	Existing		Existing With Project			Cumulative		Cumulative Plus Project		
	ADT	CNEL (dBA) 50 feet from Centerline of Nearest Lane	ADT	CNEL (dBA) 50 feet from Centerline of Nearest Lane	Increase from Existing	ADT	CNEL (dBA) 50 feet from Centerline of Nearest Lane	ADT	CNEL (dBA) 50 feet from Centerline of Nearest Lane	Increase from Existing
Sonoma Boulevard North of Meadows Drive	23,530	68.8	23,850	68.9	0.1	28,930	69.7	29,250	69.8	0.1
Sonoma Boulevard South of Meadows Drive	31,090	70.1	32,080	70.2	0.1	38,230	71.0	39,220	71.1	0.1

Source: Compiled by LSA (February 2023).
Note: Traffic noise within 50 feet of the roadway centerline should be evaluated with site-specific information.
Shaded cells indicate roadway segments adjacent to the project site.
ADT = average daily traffic
CNEL= Community Noise Equivalent Level
dBA = A-weighted decibels

The without and with project scenario traffic volumes were obtained from the RSC Vallejo Traffic Impact Analysis.[48] Appendix C provides the specific assumptions used in developing these noise levels and model printouts. Table 4.L shows that the increase in project-related traffic noise would be no greater than 0.1 dBA. Noise level increases less than 1.0 dBA are not perceptible to the human ear. Therefore, traffic noise impacts from project-related traffic on off-site sensitive receptors would be **less than significant**.

[48] Abrams Associates Traffic Engineering, Inc. 2022b. *Traffic Impact Analysis RSC Vallejo, City of Vallejo.* April 11, 2022.

Heating, Ventilation, and Air Conditioning Equipment. The HVAC equipment could operate 24 hours per day. Based on previous measurements that LSA has conducted, the HVAC equipment would generate noise levels of 66.6 dBA L_{eq} at 5 feet per HVAC unit. The closest off-site sensitive use during operation of the proposed project would be the existing single-family residences east and west of the project site approximately 150 feet away. After distance attenuation, noise generated from on-site HVAC equipment would be up to 37.1 dBA L_{eq} at the nearest residences, which would not generate a noise level of more than 3 dBA or exceed the City's thresholds. Therefore, the impact would be **less than significant**.

b. Would the project result in generation of excessive groundborne vibration or groundborne noise levels? ***(Less-Than-Significant Impact)***

Vibration refers to ground-borne noise and perceptible motion. Ground-borne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem outdoors. Vibration energy propagates from a source, through intervening soil and rock layers, to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by the occupants as the motion of building surfaces, rattling of items on shelves or hanging on walls, or as a low-frequency rumbling noise. The rumbling noise is caused by the vibrating walls, floors, and ceilings radiating sound waves. Annoyance from vibration often occurs when the vibration exceeds the threshold of perception by 10 dB or less. This is an order of magnitude below the damage threshold for normal buildings.

Typical sources of ground-borne vibration are construction activities (e.g., pavement breaking and operating heavy-duty earthmoving equipment), rail activity, and occasional traffic on rough roads. In general, ground-borne vibration from standard construction practices is only a potential issue when within 25 feet of sensitive uses. Ground-borne vibration levels from construction activities very rarely reach levels that can damage structures; however, these levels are perceptible near the active construction site. With the exception of older buildings built prior to the 1950s or buildings of historic significance, potential structural damage from heavy construction activities rarely occurs. When roadways are smooth, vibration from traffic (even heavy trucks) is rarely perceptible.

The roadways surrounding the project area, including Sonoma Boulevard, Broadway, and the existing driveways, are paved, smooth, and unlikely to cause significant ground-borne vibration. In addition, the rubber tires and suspension systems of buses and other on-road vehicles make it unusual for on-road vehicles to cause ground-borne noise or vibration problems. It is, therefore, assumed that no such vehicular vibration impacts would occur and no vibration impact analysis of on-road vehicles is necessary.

The following vibration impact analysis discusses the level of human annoyance using vibration levels in vibration velocity decibels (VdB) and assesses the potential for structural damages using vibration levels in PPV (in/sec) because vibration levels calculated in root mean square (RMS) are best for characterizing human response to building vibration, while vibration level in PPV is best used to characterize potential for damage.

Construction Vibration. Construction of the proposed project could result in the generation of ground-borne vibration. This construction vibration impact analysis discusses the level of human

annoyance using vibration levels in VdB and will assess the potential for building damages using vibration levels in PPV (in/sec) because vibration levels calculated in RMS are best for characterizing human response to building vibration, while vibration level in PPV is best used to characterize potential for damage. The FTA Manual guidelines indicate that a vibration level up to 102 VdB (an equivalent to 0.5 in/sec in PPV) is considered safe for buildings consisting of reinforced concrete, steel, or timber (no plaster), and would not result in any construction vibration damage. For a non-engineered timber and masonry building, the construction vibration damage criterion is 94 VdB (0.2 in/sec in PPV).

Table 4.M shows the PPV and VdB values at 25 feet from the construction vibration source. As shown in Table 4.M, bulldozers, and other heavy-tracked construction equipment (expected to be used for this project) generate approximately 0.089 PPV in/sec or 87 VdB of ground-borne vibration when measured at 25 feet, based on the FTA Manual. The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project construction boundary (assuming the construction equipment would be used at or near the project setback line).

Table 4.M: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference PPV/L_V at 25 ft	
	PPV (in/sec)	L_V (VdB)[1]
Pile Driver (Impact), Typical	0.644	104
Pile Driver (Sonic), Typical	0.170	93
Vibratory Roller	0.210	94
Hoe Ram	0.089	87
Large Bulldozer[2]	**0.089**	**87**
Caisson Drilling	0.089	87
Loaded Trucks[2]	**0.076**	**86**
Jackhammer	0.035	79
Small Bulldozer	0.003	58

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
[1] RMS vibration velocity in decibels (VdB) is 1 µin/sec.
[2] Equipment shown in **bold** is expected to be used on site.
µin/sec = microinches per second
ft = foot/feet
FTA = Federal Transit Administration
in/sec = inch/inches per second
L_V = velocity in decibels
PPV = peak particle velocity
RMS = root-mean-square
VdB = vibration velocity decibels

The formulae for vibration transmission are provided below and Tables 4.N and 4.O below provide a summary of off-site construction vibration levels.

$$L_vdB\ (D) = L_vdB\ (25\ feet) - 30\ Log\ (D/25)$$

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

Table 4.N: Potential Construction Vibration Annoyance Impacts at Nearest Receptor

Receptor (Location)	Reference Vibration Level (VdB) at 25 ft[1]	Distance (ft)[2]	Vibration Level (VdB)
Commercial (North)	87	460	49
Commercial (South)		480	49
Residence (West)		480	49
Residence (East)		570	46

Source: Compiled by LSA (2023).
[1] The reference vibration level is associated with a large bulldozer, which is expected to be representative of the heavy equipment used during construction.
[2] The reference distance is associated with the average condition, identified by the distance from the center of construction activities to surrounding uses.
ft = foot/feet
VdB = vibration velocity decibels

Table 4.O: Potential Construction Vibration Damage Impacts at Nearest Receptor

Receptor (Location)	Reference Vibration Level (PPV) at 25 ft[1]	Distance (ft)[2]	Vibration Level (PPV)
Commercial (North)	0.089	20	0.124
Commercial (South)		40	0.044
Residence (West)		150	0.006
Residence (East)		180	0.005

Source: Compiled by LSA (2023).
[1] The reference vibration level is associated with a large bulldozer, which is expected to be representative of the heavy equipment used during construction.
[2] The reference distance is associated with the peak condition, identified by the distance from the perimeter of construction activities to surrounding structures.
ft = foot/feet
PPV = peak particle velocity

As shown previously in Table 4.I above, the threshold at which vibration levels would result in annoyance would be 84 VdB for office type uses and 78 VdB for daytime residential uses. As shown in Table 4.J, the FTA guidelines indicate that for a non-engineered timber and masonry building, the construction vibration damage criterion is 0.2 in/sec in PPV.

Based on the information provided in Table 4.N, vibration levels are expected to approach 49 VdB at the closest commercial uses to the north and south and at the closest residence to the west. The vibration levels would not exceed the annoyance thresholds.

Based on the information provided in Table 4.O, vibration levels are expected to approach 0.124 PPV in/sec at the nearest surrounding structures and would be below the 0.2 PPV in/sec damage threshold. Other building structures surrounding the project site are farther away and would

experience further reduced vibration. Therefore, the impact would be considered **less than significant**.

c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? ***(Less-Than-Significant Impact)***

The closest airport to the project site is the Napa County Airport, located approximately 4.5 miles north of the project site. The project site is not located within the 65 dBA CNEL noise contour for the airport and is not located within the vicinity of a private airstrip. Although aircraft-related noise may be audible on the project site, the proposed project would not expose people residing or working in the project area to excessive noise levels due to the proximity of a public airport. This impact would be **less than significant**.

4.14 POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☒	☐

*a. Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? **(Less-Than-Significant Impact)***

The proposed project would include the construction of 11 multi-family residential buildings containing 429 dwelling units. Based on the City of Vallejo's average household size (2016–2020) of 2.86 persons per household,[49] the proposed project would increase the local population by approximately 1,226 persons. The population of Vallejo was estimated to be approximately 124,886 persons as of July 1, 2021.[50] The anticipated population growth associated with the proposed project represents less than a 0.01 percent increase to the City's current population. The City's population is projected to grow by 14,274 persons to a total of 139,160 persons by 2040.[51] The proposed project represents approximately 8.5 percent of the population growth anticipated through 2040.

The first step in addressing State housing needs is the Regional Housing Needs Allocation (RHNA) which is mandated by California Government Code, Section 65584. The City of Vallejo's RHNA for the 2007 to 2014 planning period was 3,100 units. From 2007 to 2014, the effects of the economic recession greatly impacted the City's ability to finance and support many of the goals, policies, and programs of the previous Housing Element, resulting in only 210 units being constructed.[52] The City's RHNA for the 2015 to 2023 planning period is 1,362.[53] Implementation of the proposed project would result in the development of 429 housing units, supporting the City in meeting its RHNA goal. Therefore, the proposed project would not result in substantial unplanned population growth in the area, and this impact would be **less than significant**.

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49 United States Census Bureau. 2022. *Quick Facts, Vallejo City, California*. Website: U.S. Census Bureau QuickFacts: Vallejo city, California (accessed November 2022).

50 Ibid.

51 Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC). 2017. *Projections 2040*. Website: projections.planbayarea.org (accessed July 2022).

52 City of Vallejo. 2015. *General Plan 2030, 5th Cycle Housing Element Update (2015-2023), RHNA Progress in Planning Period January 2007-2014.* May 26, 2015.

53 Ibid.

b. Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? ***(Less-Than-Significant Impact)***

The project site is currently developed with an existing, vacant commercial building and associated asphalt parking. No residential uses currently exist within the project site. In addition, the proposed project would include the construction of 11 multi-family residential buildings containing 429 dwelling units. Therefore, the proposed project would not result in the displacement of people or housing and would not require the construction of replacement housing elsewhere. This impact would be **less than significant**.

4.15 PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i. Fire protection?	☐	☐	☒	☐
ii. Police protection?	☐	☐	☒	☐
iii. Schools?	☐	☐	☒	☐
iv. Parks?	☐	☐	☒	☐
v. Other public facilities?	☐	☐	☒	☐

a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: ***(Less-Than-Significant Impact)***

i. Fire protection? ***(Less-Than-Significant Impact)***

Fire suppression, emergency medical and rescue services, and other life safety services are provided to the project area and the site by the Vallejo Fire Department. In addition, the City of Vallejo and Solano County coordinate for response in emergency situations. The City and the County have adopted separate but consistent Emergency Operations Plans used for pre-emergency planning and emergency response to natural and human made disasters. There are six fire stations within the City of Vallejo consisting of 108 employees, 99 of which are firefighters, paramedics, engineers, captains, and battalion chiefs. The closest fire station to the project site is Vallejo Fire Station 23 at 900 Redwood Street, approximately 1.9 miles south of the project site.

The Solano County General Plan EIR describes the City of Vallejo as an urban area (population of more than 30,000 people with a density of more than 2,000 people per square mile). According to the Service and Response Standards described in the Solano County General Plan EIR, urban areas require a response time of 5-6 minutes about 80 percent of the time.[54] The average travel time between the nearest fire station and the project site is six minutes. Through compliance with California Vehicle Code 21806(A)(1), which requires all vehicles to yield to emergency vehicles, travel time between Fire Station 23 and the project site is expected to be less than six minutes.

[54] Solano County. 2008b. *Solano County General Plan EIR,* Chapter 4.9, Public Services and Utilities. August 5, 2008.

As noted in Section 4.14, Population and Housing, the proposed project would result in an incremental increase in the population of the City and therefore incrementally increase the demand for emergency fire services and emergency medical services. However, the proposed project would be required to comply with all applicable codes for fire safety and emergency access. In addition, the Fire Department would review the site plans, fire truck access, and site fire flow design for the proposed project to ensure that adequate emergency access is provided prior to issuance of a building permit. Project design features incorporated into the structural design and layout of the residential units would keep service demand increases to a minimum. For example, the project would be constructed in accordance with the current California Building Code, which requires all on-site structures to incorporate construction techniques and materials such as roofs, eaves, exterior walls, vents, appendages, windows, and doors resistant to and/or to perform at high levels against ignition during the exposure to fires. Fire sprinklers would be incorporated into each residential unit to further reduce fire risk and service demand. Access to the project site would be provided via the existing Sonoma Boulevard and Broadway and would be developed to City and Fire Code standards to allow emergency vehicles ease of access and maneuverability. In addition, the proposed project would include seven new fire hydrant assemblies, building connections, and 6-inch and 12-inch fire water lines to provide for fire protection.

Based on the proposed project's location in a Local Responsibility Area (LRA) Non-Very High Fire Hazard Severity Zone in proximity to existing Vallejo Fire Department facilities capable of responding to emergencies at the project site within the City's stated response time objective of 5–6 minutes 80 percent of the time; the development of the proposed project would not cause fire staffing, facilities, or equipment to operate at a deficient level of service. The Fire Department would continue providing services to the project site and would not likely require additional firefighters to serve the proposed project. The construction of a new or expanded fire station would also not be required. The potential increase in demand for service is not expected to adversely affect existing response times to the site or within the County. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts in order to maintain acceptable service ratios, response times, or other performance objectives for fire protection, and this impact would be **less than significant.**

*ii. Police protection? **(Less-Than-Significant Impact)***

The Vallejo Police Department (VPD) provides law enforcement services to the City of Vallejo. Property crimes such as burglary, larceny, and robbery account for most of the crime in Vallejo, and at times exceed the Bay Area and California averages.[55] The project site is located in an established residential area of the City, which is already served by the VPD. The VPD has one station within the city limits located at 111 Amador Street approximately 6.1 miles south of the project site.

As previously discussed, development of the proposed project would increase the population on the project site and incrementally increase demand for emergency police services. However, the VPD would continue to provide service to the project site and would likely not require additional officers

[55] City of Vallejo. 2017. op. cit.

to serve the proposed project considering the negligible increase in population that would result from the proposed project (less than 0.01 percent of the City's current population).

The construction of new or expanded police facilities would not be required to serve the proposed project. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts in order to maintain acceptable service ratios, response times, or other performance objectives for police protection, and this impact would be **less than significant**.

iii. Schools? ***(Less-Than-Significant Impact)***

Schools. The project site is within the boundaries of the Vallejo City Unified School District (VCUSD). According to the Solano County General Plan EIR (2008), the VCUSD currently has 16 elementary schools (serving kindergarten through 5th grade); five middle schools (serving grades 6th through 8th); four high schools (serving 9th through 12th); one continuation school; one alternative school; one special education school; and one adult school.

The three closest schools to the project site are as follows:

- Dan Mini Elementary School located at 1530 Lorenzo Drive approximately 0.42 mile northwest of the project site;
- Hogan Middle School located at 850 Rosewood Avenue approximately 3.78 miles southeast of the project site; and
- Vallejo High School located at 840 Nebraska Street approximately 3.0 miles south of the project site.

Based on the location of the above-mentioned schools' proximity to the project site, students generated by the site's population increase are anticipated to attend these three schools. Table 4.H shows the current and past enrollment data for Vallejo City Unified School District, Dan Mini Elementary School, Hogan Middle School, and Vallejo High School.

As shown in Table 4.P, enrollment in the Vallejo City Unified School District has decreased incrementally over the past three school years. In addition, enrollment in Dan Mini Elementary School and Vallejo High School has decreased in the last three school years. Enrollment in Hogan Middle School increased by almost 200 students between 2020 and 2021 but has since stabilized. The increase in enrollment in 2021 was most likely due to the closure of the near-by Solano Elementary School in 2021.

The proposed project would include the development of 11 multi-family residential buildings containing 429 dwelling units. The proposed project would increase the population in the local area and would consequently add students to the local school system. The VCUSD and the County have accounted for anticipated population growth as part of its facilities' planning activities.

Table 4.P: Vallejo City Unified School District Enrollment Data

District/School	2019-2020 Enrollment	2020-2021 Enrollment	2021-2022 Enrollment
Vallejo City Unified School District	13,735	13,252	12,717
Dan Mini Elementary School	484	460	444
Hogan Middle School	787	995	930
Vallejo High School	1,593	1,534	1,448

Source: Enrollment Data obtained from the California Department of Education, Data Quest Website: Enrollment by Grade - Vallejo City Unified (CA Dept of Education 2022) (accessed November 28, 2022).

In addition, under State law, the project applicant would be required to pay school impact fees per Senate Bill (SB) 50, prior to the issuance of a building permit, to mitigate for impacts to school facilities. Therefore, the project would not require the construction of new or physically altered educational facilities, the construction of which could result in an environmental impact. Impacts associated with the need to expand educational services and facilities in order to maintain acceptable levels of service would be **less than significant**.

*iv. Parks? **(Less-Than-Significant Impact)***

The Greater Vallejo Recreation District (GVRD) currently operates 33 parks with various amenities including: 20 neighborhood parks, 4 community parks, and 4 special purpose parks. It also manages over 1,000 acres of public land within the City and some surrounding areas. [56]

The proposed project involves the construction of 11 multi-family residential buildings containing 429 dwelling units, and, thus, would induce population growth in the area. The increase in residents within the area may result in an incremental increase in demand for and use of local parks and recreation areas. However, this increase in use is not expected to adversely affect the physical conditions of local and regional open space areas or recreational facilities or require the provision of new parks or facilities because the proposed project is anticipated to increase the City's population by less than 0.01 percent. The closest parks to the project site are Setterquist Park (approximately 0.34 mile east of the project site), Delta Meadows Park (approximately 0.62 mile west of the project site), and Dan Foley Park (approximately 1.33 miles southeast of the project site). Setterquist Park features a children's play area, turfed play areas, little league fields, two basketball courts, and four tennis courts. Delta Meadows Park has views of the Napa River delta and features a children's play area and half basketball courts. Dan Foley Park is one of the principal parks in the GVRD system and features a community center, fishing lake, playground, soccer and softball field, and boating/kayaking facilities on the lake.

As part of the proposed project, various outdoor amenity areas would be provided, including a pool and courtyard with lounge seating and cabanas, recreation lawn, dog park, outdoor dining, and private patios. However, the project does not include any outdoor areas intended for public use. In

[56] Greater Vallejo Recreation District (GVRD). 2023. City of Vallejo, Parks and Facilities. Website: Parks - Greater Vallejo Recreation District (gvrd.org) (accessed November 29, 2022).

total, the proposed project would provide 87,300 square feet of common open space. In addition to the common outdoor areas, private outdoor spaces would be provided via private balconies and ground-level patios, as described above. In total, the proposed project would provide approximately 28,787 square feet of private open space. The construction of these private facilities is expected to reduce the strain of use on existing neighborhood parks and recreational facilities.

In addition, the neighboring cities of Benicia and Fairfield are coordinating with the City of Vallejo and Solano County in planning a 10,000-acre open space area: the Tri-City and County Cooperative Planning Area for Agriculture and Open Space.[57]

Because the population increase due to the proposed project is not substantial enough to cause a strain on parks and facilities in the City and the City's plan for additional park space through the Tri-City and County Cooperative Planning Area for Agriculture and Open Space, the proposed project would not result in a substantial increase in demand for park or recreation services in the vicinity, such that new facilities would be required to serve the project. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts in order to maintain acceptable service ratios, response times, or other performance objectives for recreation, and this impact would be **less than significant**.

*v. Other public facilities? **(Less-Than-Significant Impact)***

Development of the proposed project could also increase demand for other public services, including libraries, community centers, and public health care facilities. However, due to the minimal increase in population, the proposed project would not substantially increase the use of these facilities, such that new facilities would be needed to maintain service standards, as these facilities are not currently overused and have the capacity to serve new demand. Therefore, impacts to other public facilities would be **less than significant**.

[57] Solano County. 2008b. *Solano County General Plan Environmental Impact Report, Revised Draft.* Page 4.14-2. Solano County. August 5, 2008.

4.16 RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

*a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? **(Less-Than-Significant Impact)***

As discussed in Section 4.15, Public Services, residents of the proposed project would be expected to use local parks and community facilities within the City of Vallejo and the surrounding neighborhood as well as regional recreational facilities. Although the proposed project would incrementally increase use of these facilities, this minor increase in use is not expected to result in substantial physical deterioration of local parks, trails, and community centers. As discussed in Section 4.14, Population and Housing, the anticipated population growth associated with the proposed project represents less than a 0.1 percent increase to the City's current population. Based on the estimated population increase, these facilities are anticipated to have capacity to serve this increase in demand. The project also includes the construction and development of various outdoor amenities within the project site including a pool and courtyard with lounge seating and cabanas, recreation lawn, dog, park, outdoor dining, and private patios for private use only. The construction of these private facilities is expected to reduce the strain of use on existing neighborhood parks and recreational facilities. Therefore, the proposed project would have a **less-than-significant impact** on existing parks or other recreational facilities.

*b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? **(No Impact)***

As discussed in Section 4.16.a above, the proposed project would include the construction and development of various outdoor amenities within the project site including a pool and courtyard with lounge seating and cabanas, recreation lawn, dog, park, outdoor dining, and private patios for private use only. These private amenities would be for use by residents of the development and not for public recreational use. The proposed project does not include or require the construction or expansion of existing public recreational facilities, which might have an adverse physical effect on the environment**. No impact** would occur.

4.17 TRANSPORTATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☒	☐
b. Conflict or be inconsistent with CEQA Guidelines §15064.3, subdivision (b)?	☐	☐	☒	☐
c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d. Result in inadequate emergency access?	☐	☐	☒	☐

a. Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? ***(Less-Than-Significant Impact)***

The proposed project would include the construction of 11 multi-family residential buildings containing 429 dwelling units. The proposed project would be accessed via the existing intersection of Sonoma Boulevard and Meadows Drive. From this primary entry, a network of 25-foot-wide drive aisles would provide access to proposed garages and off-street parking stalls. The existing driveway from Broadway would provide a secondary vehicular access point. Minimum 4-foot-wide pedestrian pathways would be provided to connect the proposed residential buildings with amenity areas, parking, and existing public transit stops on Sonoma Boulevard and Broadway. The proposed project would not affect access to bicycle or pedestrian facilities in the vicinity of the project site.

Roadway Analysis. On December 28, 2018, the California Office of Administrative Law and the California Governor's Office of Planning Research (OPR) cleared and adopted the revised *State CEQA Guidelines* Section 15064.3. Among the changes to the guidelines was the removal of vehicle delay and level of service (LOS) as the sole basis of determining CEQA impacts. With the implementation of the adopted guidelines, transportation impacts are to be evaluated based on a project's effect on vehicle miles traveled (VMT). On July 1, 2020, the provisions of Section 15064.3 became effective statewide.

In July 2020, the City adopted CEQA thresholds for VMT in the City's latest Transportation Impact Analysis (TIA) Guidelines.[58] In Vallejo, VMT is estimated using an area-wide travel demand model maintained by the Solano Transportation Authority (STA). The model calculates VMT based on the number of vehicles multiplied by the typical distance traveled by each vehicle originating from or driving to a certain area. The model divides areas within Vallejo jurisdiction into transportation analysis zones, or TAZs, which are used for transportation analysis and other planning purposes. The

[58] Fehr & Peers. 2020. *City of Vallejo CEQA Transportation Impact Analysis Guidelines.* July, Revised October 2020.

discussion of the project's consistency with Section 15064.3 of the CEQA Guidelines is discussed under Section 4.17.b, below.

Pedestrian, Bicycles, and Transit Analysis. The potential impacts of the project on pedestrian, bicycle and transit are described below.

Pedestrian Facilities. According to the U.S. Census Bureau,[59] pedestrian trips comprise approximately 1.6 percent of the total commute mode share in the City of Vallejo. The proposed project also would generate pedestrian trips to/from transit stops, recreation areas, and employment centers. The volume of pedestrian trips generated by the project would not exceed the carrying capacity of the sidewalks and crosswalks nearby.

In the immediate project vicinity, there are sidewalks in some areas and along the residential property frontages; however there are no sidewalks along Sonoma Boulevard adjacent to the project site. There are marked crosswalks, pedestrian push buttons, and pedestrian signals provided at all nearby signalized intersections. Although very few pedestrian trips are anticipated to and from the site, the City's General Plan policies encourage non-motorized travel, including walking, bicycling, and transit.

Consistent with existing City policies, the proposed project would provide minimum 4-foot-wide pedestrian pathways to connect the proposed residential buildings with amenity areas, parking, and existing public transit stops on Sonoma Boulevard and Broadway. Therefore, the proposed project would have a **less-than-significant impact** on pedestrian facilities.

Bicycle Facilities. U.S. Census Bureau data indicate that bicycle trips comprise approximately 1.7 percent of the total commute mode share in the City of Vallejo.[60] The low volume of bicycle trips generated by the project would not exceed the bicycle-carrying capacity of streets surrounding the site, and the increase in bicycle trips would not by itself require new off-site bicycle facilities.

There are no existing bike lanes in the area but an extension of the Bay Trail is proposed along Broadway adjacent to the project site. The proposed project, by itself, would not require additional bicycle service to the area. The proposed project would not preclude, modify, or otherwise affect existing or proposed bicycle projects or policies identified in the General Plan Transportation Element. Therefore, the proposed project would have a **less-than-significant impact** on bicycle facilities.

Transit Service. Solano County Transit (Soltrans) provides local bus, regional express bus, and Americans with Disabilities Act (ADA) paratransit bus services in Vallejo. Local bus service is supplemented by limited-service routes for school days and regional express bus service connecting to the Contra Costa communities of El Cerrito, Pleasant Hill, and Walnut Creek and

59 United States Census Bureau. 2021 Census. *5-year ACS Data Table B08134: Means of Transportation to Work by Travel Time to Work.* Website: https://data.census.gov/table?q=B08134:+MEANS+OF++TRANSPORTATION+TO+WORK+BY+TRAVEL+TIME+TO+WORK&g=160000+0US0681554_1600000US0681666&tid=ACSDT5Y2021.B08134 (accessed February 9, 2023).

60 Ibid.

the Fairfield Transportation Center in Fairfield. Express bus services also provide connections to San Francisco Bay Area Rapid Transit (BART), AC Transit, County Connection, Fairfield and Suisun Transit, Golden Gate Transit, San Francisco Bay Ferry, Vine Transit, and WestCAT. The Vallejo Transit Center is where riders can connect to the San Francisco Bay Ferry and the Napa Valley VINE transit. Soltrans local bus service includes four limited-service routes that operate during school in-service days and provide connectivity to local schools. The nearest bus stop for these routes is located on Sonoma Boulevard adjacent to the project site.

According to the U.S. Census, transit trips comprise approximately 5 percent of the total commute mode share in the City of Vallejo.[61] In addition to commute trips, there would be additional transit trips to nearby schools, parks, and shopping areas. The low volume of transit trips generated by the project would not exceed the carrying capacity of the existing transit service to the site.

The proposed project, by itself, would not require additional transit service to the area or improvements to existing transit service frequencies. The proposed project would not preclude, modify, or otherwise affect existing or proposed transit projects or policies identified in the City of Vallejo General Plan. Therefore, the proposed project would have a **less-than-significant impact** related to transit service.

b. Would the project conflict or be inconsistent with CEQA Guidelines §15064.3, subdivision (b)? ***(Less-Than-Significant Impact)***

Based on the STA Travel Demand Model, the City of Vallejo average VMT per resident is estimated to be 26 miles. The residents of the proposed project would be expected to have similar VMT to that within the TAZ and in other surrounding TAZs with similar land uses.

The project site is located in TAZ 395. The proposed project is forecast to have an average VMT of 14.4 miles.[62] Subject to City approval, the data indicate the project would be considered to have a less-than-significant impact according to the City's TIA guidelines. The projected land use (multi-family housing) would not alter the existing built environment in such a way as to increase the rate or length of vehicle trips. In general, the proposed project has been found to be consistent with existing land uses in the area and would be expected to contribute VMT consistent with existing land uses in the area. The project would not be expected to significantly alter travel patterns in the area.

The proposed project is consistent with the Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS). Therefore, subject to City approval, the project generated VMT would be considered to be below the established VMT thresholds, and the project would therefore have a **less-than-significant impact** on the VMT in the area.

61 United States Census Bureau. 2021. op. cit.

62 Abrams Associates Traffic Engineering, Inc. 2022b. *Vehicle Miles Traveled Analysis for the RSC Vallejo Project at 5180 Sonoma Boulevard.* April 11.

c. Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? ***(Less-Than-Significant Impact)***

The primary vehicular access to the site is via the existing Sonoma Boulevard (State Route 29 [SR 29])/Meadows Drive intersections, with a secondary driveway off Broadway. The Sonoma Boulevard/Meadows Drive intersection also provides vehicular access for the existing adjoining retail properties.

With implementation of the proposed project, vehicular access would be provided via the existing intersection of Sonoma Boulevard and Meadows Drive. From this primary entry, a network of 25-foot-wide drive aisles would provide access to proposed garages and off-street parking stalls. The existing driveway from Broadway would provide a secondary vehicular access point.

The design, construction, and maintenance of project access locations and on-site roads would be required to comply with the City's Municipal Code and relevant City standards. As shown previously in Figure 2-2, the project site is generally surrounded by residential uses and undeveloped parcels zoned for commercial and industrial use. Therefore, the proposed project would not substantially increase hazards due to a geometric design feature or incompatible uses. This impact would be **less than significant**.

d. Would the project result in inadequate emergency access? ***(Less-Than-Significant Impact)***

The design, construction, and maintenance of project access locations and on-site roads would be in compliance with the City's Municipal Code and would meet all emergency access standards. The Vallejo Fire Department would also review the proposed site plan and Fire Access Plan and would provide input on final design in relation to emergency access prior to issuance of a building permit. The proposed project would include entrances on both Sonoma Boulevard and Broadway. All lane widths within the project would meet the minimum width that can accommodate an emergency vehicle; therefore, the width of the internal roadways would be adequate. The proposed project would not alter or block adjacent roadways and implementation of the proposed project would not be expected to impair the function of nearby emergency evacuation routes. Therefore, the proposed project would not result in inadequate emergency access. This impact would be **less than significant.**

4.18 TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)? Or	☐	☐	☒	☐
ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☐	☒	☐

a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)? Or

ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. ***(Less-Than-Significant Impact)***

Enacted in 2014, Assembly Bill (AB) 52 amended CEQA to require tribal cultural resources to be considered as potentially significant cultural resources under the CEQA environmental review process. The procedures under AB 52 offer tribes an opportunity to take an active role in the CEQA process in order to protect tribal cultural resources. Pursuant to AB 52, if a Native American identifies tribal cultural resources within a project site, the Native American shall contact the local lead agency. Native American consultation was conducted by the City in compliance with AB 52. The City sent letters for the purposes of AB 52 consultation to Native American tribal contacts that previously requested to be notified of future projects proposed by the City. Consultation notices pursuant to AB 52 were sent by the City on January 4, 2023, to the following tribes Yocha Dehe

Wintun Nation and The Confederates Villages of Lisjan. On January 18, 2023, the regionally affiliated tribe (Yocha Dehe Wintun Nation) responded by letter and indicated they have a cultural interest and would like to initiate consultation with the City.

On April 17, 2023, City staff met via teleconference with the tribal representative from the Yocha Dehe Wintun Nation (Tribe) to discuss the proposed project. During the meeting, the tribal representative requested that the City provide a copy of the cultural resources study prepared for the proposed project, which the City sent to the Tribe via email. During the tribal consultation, the tribal representatives did not provide substantial evidence of any tribal cultural resources occurring in or within the vicinity of the project site and did not express any specific concerns regarding the proposed project. However, in July 2023, the City received the treatment protocol for handling human remains and cultural items from the Tribe. This treatment protocol has been incorporated into this Initial Study (please refer to Section 4.5, Cultural Resources).

As discussed in Section 4.5, Cultural Resources, a record search was conducted at the Northwest Information Center of the California Historical Resources Information System, which identified no archaeological or historical resources within the boundary of the project site.

The project site is currently developed with an existing, vacant commercial building and associated asphalt parking. No known significant archaeological or tribal cultural resources are located within the project site and the proposed project would not cause a substantial adverse change in the significance of a tribal cultural resource defined as a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is listed or eligible for listing in the California Register or in a local register of historical resources as defined in Public Resources Code (PRC) Section 5020.1(k).

Additionally, there are no tribal cultural resources within the project site that have been determined by the lead agency to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1. The proposed project would not cause a substantial adverse change in the significance of a tribal cultural resource defined as a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is listed or eligible for listing in the California Register or in a local register of historical resources as defined in PRC Section 5020.1(k). With implementation of **Mitigation Measures CULT-1**, **CULT-2, and CULT-3,** as detailed in Section 4.5, Cultural Resources, and compliance with Section 7050.5 of the California Health and Safety Code and Section 5097.98 of the PRC, the potential construction-period discovery of previously unidentified human remains, which may be of tribal origin, would be reduced to a **less-than-significant** level.

4.19 UTILITIES AND SERVICE SYSTEMS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

a. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? ***(Less-Than-Significant Impact)***

Water. Water service in the City of Vallejo is provided by the City of Vallejo Water Department. The proposed project would include the installation of new 6-inch and 12-inch domestic water lines to provide domestic water supply. In addition, the proposed project would include 7 new fire hydrant assemblies, building connections, and 6-inch and 12-inch fire water lines to provide for fire protection. These new water lines would connect to existing 12-inch water pipelines along Broadway and across Sonoma Boulevard. The proposed project would connect directly to existing mains, which have sufficient capacity to accommodate the proposed project. The new water lines would be constructed in conformance with City standards, and their construction would not cause significant environmental effects.

The City of Vallejo updated its Urban Water Management Plan (UWMP) in 2020, and it was adopted in 2021. According to the UWMP, the average water use for the City's service area is projected to be 30,331-acre feet per year (AFY) in 2035 and 31,892 AFY in 2045. [63] As discussed in Section 4.19.b, the proposed project would not substantially increase demand for water and would therefore not exceed the capacity of existing water treatment facilities. The proposed project would not require any new infrastructure, aside from the project-specific tie-ins and water pipelines to serve the proposed project, and all proposed water infrastructure would be limited to the project site.

[63] City of Vallejo. 2021. *2020 Urban Water Management Plan*. October 12, 2021.

Therefore, the impact of the proposed project on water infrastructure would be **less than significant.**

Wastewater. The Vallejo Flood and Wastewater District (VFWD) provides wastewater collection and treatment services for Vallejo. Sewer flows from the proposed project would be discharged into the existing 18-inch sanitary sewer main running south along Sonoma Boulevard. The proposed project would include installation of new 8- and 12-inch sewer mains within the internal roadways to serve the proposed development.

Sanitary sewer flow from the project site would flow to the Sears Point Pump Station (SPPS) and the Sears Point Storage Facility (SPSF), which are key elements of the sewer system. SPPS receives wastewater flow and pumps it into the 30-inch diameter force main running parallel to Highway 37 and ultimately into the wastewater treatment plant (WWTP). The existing SPPS and SPSF have adequate capacity for the wastewater flow from the proposed project and the existing sewer system has adequate capacity for the project. Therefore, impacts associated with the project's construction would be **less than significant**.

Stormwater. The project site is currently developed with an existing commercial building, paving, concrete, and other impervious surfaces, which account for the majority of the 12.6-acre project site. Surface flows on the project site currently flow to existing storm drain pipelines located within the project site, discharging to an existing 30-inch storm drain that runs north-south along the western project boundary and a 48-inch storm drain that runs east-west along the southern project boundary.

Upon construction of the proposed project, approximately 9.7 acres (77 percent) of the project site would be covered by impervious surfaces and approximately 2.8 acres (23 percent) would be covered by pervious surfaces, consisting of landscaped areas with lawns, shrubs, and trees. The proposed project would include approximately 16,131 square feet of bioretention space throughout the project site that would be used for stormwater control. The proposed project would include the construction of 12-, 15- and 30-inch storm drains with associated manholes throughout the project area that would connect to the bioretention basins and existing stormwater facilities on Sonoma Boulevard and Broadway.

The proposed stormwater infrastructure would be limited to the project site and would be constructed in accordance with all City regulations and requirements and be designed consistent with the Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit (MRP) Program requirements for low impact development (LID). Therefore, impacts associated with the construction of the proposed stormwater infrastructure would be **less than significant.**

Electricity and Natural Gas. Electricity and gas service is provided to the project site by Pacific Gas & Electric (PG&E). The proposed project would include connections to the existing electric lines that run adjacent to the project site, including lines within Sonoma Boulevard and Broadway. T The proposed project would not include the use of natural gas. The proposed project would not require any new infrastructure, aside from project-specific tie-ins and lines to serve the proposed project.

Therefore, because the proposed project would connect to existing utility services within or adjacent to the project site, the proposed project would not require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects, and this impact would be **less than significant**.

b. Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? ***(Less-Than-Significant Impact)***

Water service in the City of Vallejo is provided by the City of Vallejo Water Department. The City of Vallejo updated its Urban Water Management Plan (UWMP) in 2020, and it was adopted in 2021. The City provides water services to two geographically district service areas: the City of Vallejo jurisdictional limits and adjacent unincorporated areas ("Vallejo City Service Area"), and an area in the unincorporated western part of Solano County and southern Napa County ("Vallejo Lakes Service Area"). The City has numerous water supply sources that provide significant annual volumes of water including: the Sacramento River watershed; the Solano Project from Putah Creek Watershed which includes Lake Berryessa; the Wild Horse Creek watershed through Lake Madigan, Lake Frey, and the Green Valley Diversion; and the Upper Suisun Creek watershed through Lake Curry.[64] The City currently provides just over 20,000 AFY of treated water and almost 6,000 AFY of raw water to meet service area demand. According to the UWMP, the average water use for the City's service area is projected to be 28,111 AFY in 2025, 30,331 AFY in 2035, and 31,892 AFY in 2045[65], and the City expects to meet its current and 2045 project water demands.

The proposed project would increase water demand at the project site due to the construction of 11 new multi-family residential buildings containing 429 dwelling units, a clubhouse and associated landscape irrigation. The estimated water demand for the proposed project is shown in Table 4.Q.[66]

Table 4.Q: Estimated Water Demand

Demand Type	Units/Area	Unit Demand	Demand (gpd)
Multi-family Residential	429 residential units	141 gpd/unit	60,489
Clubhouse (Commercial)	0.21 acre	806 gpd/acre	170
Irrigation			6,480
Total			67,139

Source: Kennedy Jenks. *5180 Sonoma Blvd Development Hydraulic Modeling Assistance*. (July 2023)

As shown in Table 4.Q, the proposed project would result in an increase in water demand of approximately 67,139 gallons per day, or 75.2 AFY. This accounts for approximately 0.27 percent of the City's projected service-wide annual water demand for 2025. Furthermore, the City's projected

64 City of Vallejo. 2021. *2020 Urban Water Management Plan*. October 12.
65 Ibid.
66 Kennedy Jenks. 2023. *5180 Sonoma Blvd Development Hydraulic Modeling Assistance.* July 7.

water demand accounts for projected growth within the region as identified by the City's General Plan, which includes the proposed project. Therefore, the City would not require new or expanded water entitlements to serve the proposed project, and the impacts would be **less than significant**.

c. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? ***(Less Than Significant Impact)***

As described above, sewer flows from the proposed project would be discharged into the existing 18-inch sanitary sewer main running south along Sonoma Boulevard. The proposed project would include installation of new 8- and 12-inch sewer mains within the internal roadways to serve the proposed development.

Sanitary sewer flow from the project site would flow to the Sears Point Pump Station (SPPS) and the Sears Point Storage Facility (SPSF), which are key elements of the sewer system. SPPS receives wastewater flow and pumps it into the 30-inch diameter force main running parallel to State Route 37 and ultimately into the wastewater treatment plant (WWTP).

The sewer evaluation prepared for the proposed project,[67] concludes that the existing SPPS, SPSF, and the sewer system have adequate capacity to accommodate the wastewater flow from the proposed project. Modeling of 5180 Sonoma Boulevard shows there is sufficient system capacity such that the proposed development flow volume would not result in an overflow of the sanitary sewer system during peak wet weather flows (5-year, 24-hour storm event) based on the VFWD's current sanitary sewer facilities. Therefore, Therefore, the wastewater treatment provider would have adequate capacity to serve the project's projected demand in addition to the providers' existing commitments and this impact would be **less than significant**.

d. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? ***(Less-Than-Significant Impact)***

Solid waste, recycling, and yard waste collection services in the City of Vallejo, including the project site, are provided by Recology Vallejo. Solid waste collected by Recology is transported to the Devlin Road Transfer Station, a regional facility operated by the Napa-Vallejo Waste Management Authority. Green waste and recyclables are sorted and sent to various facilities and solid waste that cannot be recycled is sent to the Keller Canyon Landfill, located at 901 Bailey Road in Pittsburg, Contra Costa County. The landfill has a maximum permitted capacity of 75,018,280 cubic yards and a remaining capacity of 63,408,410 cubic yards as of November 2004. The landfill accepts a maximum of 3,500 tons per day and has an excepted closure date of December 2050. [68]

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67 West Yost. 2023. *5180 Sonoma Boulevard Apartments Sewer Evaluation.* October 2.

68 California Department of Resources Recycling and Recovery (CalRecycle*).* 2023. *Solid Waste Information System (SWIS), Keller Canyon Landfill (07-AA-0032).* Website: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/4407?siteID-228 (accessed January 23, 2023).

Based on the City's average household size (2016–2020) of 2.86 persons per household,[69] the proposed project would increase the local population by approximately 1,226 persons. In 2018, the average period generated 4.9 pounds of solid waste per day.[70] Based on these rates, the proposed project would generate approximately 6,007 pounds of solid waste per day, or 3.0 tons per day.

This increase in solid waste would account for less than 0.09 percent of Keller Canyon Landfill's maximum allowable capacity per day. With this minimal increase in solid waste disposal demand, the Keller Canyon Landfill has adequate capacity to serve the proposed project. As such, the project would be served by a landfill with sufficient capacity to accommodate the project's waste disposal needs, and impacts associated with the disposition of solid waste would be **less than significant**.

e. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste? ***(Less Than Significant Impact)***

The proposed project would be required to comply with all federal, State, and local solid waste statutes and/or regulations related to solid waste and as noted above, the Keller Canyon Landfill has adequate capacity to serve the proposed project. Therefore, the proposed project would result in a **less-than-significant impact** related to solid waste regulations.

69 United States Census Bureau. *Quick Facts, Vallejo City, California*. Website: U.S. Census Bureau QuickFacts: Vallejo city, California (accessed November 2022).

70 United States Environmental Protection Agency (USEPA). 2023. *National Overview: Facts and Figures on Materials, Wastes, and Recycling.* Website: https://www.epa.gov/facts-and-figures-about-materials-waste-and-recycling/national-overview-facts-and-figures-materiaols#NationalPicture (accessed March 1, 2023).

4.20 WILDFIRE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

*a. Would the project substantially impair an adopted emergency response plan or emergency evacuation plan? **(Less-Than-Significant Impact)***

The project site is within a local responsibly area (LRA) meaning the local government (the City of Vallejo) is financially responsible for wildland fire protection. However, the project site is not considered to be within a Very High Fire Hazard Severity Zone (VHFHSZ). As previously discussed in Section 4.9, Hazards and Hazardous Materials, the proposed project would be consistent with the policies outlined in the Solano County General Plan Public Health and Safety Chapter, City of Vallejo General Plan Nature and Built Environment chapter, the Solano County Emergency Operations Plan (EOP), and the Solano County Multi-Jurisdictional Hazard Mitigation Plan (MJHMP). The proposed project would not alter or block adjacent roadways, and implementation of the proposed project would not be expected to impair the function of nearby emergency evacuation routes. In addition, operation of the proposed project would not cause permanent alterations to vehicle circulation routes and patterns or impede public access or travel upon public rights-of-way. Prior to approval of final maps and improvement plans for any development project within Vallejo, plan review and approval by the Vallejo Fire District is required. Internal roadways and ingress/egress for each site would be required to meet State and local standards regarding turning radius, road width, and emergency vehicle access. Therefore, potential impacts to an adopted emergency response plan or emergency evacuation plan would be **less than significant**.

*b. Would the project, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? **(Less-Than-Significant Impact)***

Construction of the proposed project would involve the use of some flammable materials such as gasoline, diesel fuel, hydraulic oils, paints, solvents, or other wastes. During construction, there

would be increased human activity and ignition sources, including equipment that could create spark, be a source of heat, or leak flammable materials on the project site. However, all construction equipment is required to have fire suppression equipment (such as a fire extinguisher) on board or at the work site, secondary containment would be required for fuel-powered equipment, and a spill kit would be required to be kept on-site during construction for use in case of any leaks or spills of flammable materials. These existing requirements would reduce the potential exacerbation of wildfire risks related to construction activities.

The operation of the proposed project would be consistent with surrounding residential uses and the allowable zoning for the project site. The proposed project would be subject to the design standards and guidelines outlined in the City of Vallejo Municipal Code and would be subject to Development Review and Design Review to ensure the proposed structures conform with all the applicable regulations.

The proposed project would also be subject to requirements in Section 13000 et seq. of the California Health and Safety Code, California Building Standards Code, and California State Fire Code, which include regulations concerning the following: building standards for fire protection; fire protection and notification systems such as extinguishers and smoke alarms; safety for firefighters and emergency responders during emergency operations; minimum standards for hazardous vegetation and fuel management, defensible space, and building construction; and minimum standards for emergency access and water supply for fire response.

Compliance with these existing regulatory requirements would ensure that the proposed project would not exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. Impacts would **be less than significant**, and no mitigation is required.

c. Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? ***(Less-Than-Significant Impact)***

The proposed project involves the demolition of the existing, vacant commercial building on the project site and the construction of 11 multi-family residential buildings containing 429 dwelling units. Associated improvements include utility connections to existing utility facilities including water, sanitary sewer, storm drainage, electricity, gas, and telecommunication infrastructure. Utility connections/lines would be constructed in conformance with City standards as detailed in Section 4.19, Utilities and Service Systems. The project does not propose the installation or maintenance of any other associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment, and impacts would be **less than significant**.

d. Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? ***(Less-Than-Significant Impact)***

Construction of the proposed project would be required to obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Construction stormwater permit. As discussed in Section 4.10, Hydrology and Water Quality, the proposed project would implement a Stormwater Pollution and Prevention Plan (SWPPP) that specifies Best Management Practices (BMPs) and erosion control measures to be used during construction to manage runoff flows. Additionally, the proposed project would be required to implement Low Impact Development (LID) techniques as required by the Municipal Regional Stormwater NPDES Permit (MRP) and as detailed in Section 4.10, would not significantly alter drainage patterns compared to existing conditions. Furthermore, the project site is not located within a flood zone or within an area identified as having potential for landslides. Therefore, the proposed project would not have the potential to expose people or structures to downslope or downstream flooding or landslides. This impact would be **less than significant**.

4.21 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	☐	☒	☐	☐
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☐	☒

a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? ***(Less Than Significant with Mitigation Incorporated)***

Implementation of the mitigation measures recommended in this Initial Study/Mitigated Negative Declaration (IS/MND) would ensure that the construction and operation of the proposed project would not substantially degrade the quality of the environment; reduce the habitat, population, or range of a plant or animal species; or eliminate important examples of California history or prehistory. Section 4.4, Biological Resources, includes mitigation measures (**Mitigation Measures BIO-1 and BIO-2**) to minimize impacts to special-status species, including nesting birds and roosting bats. Mitigation (**Mitigation Measure CULT-1**) is provided in Section 4.5, Cultural Resources, in the event that unanticipated archaeological resources are identified in the project area during construction. With implementation of these mitigation measures, the proposed project would result in less-than-significant impacts to the quality of the environment. This impact would be **less than significant with mitigation incorporated.**

b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? ***(Less Than Significant with Mitigation Incorporated)***

The *State CEQA Guidelines* require a discussion of significant environmental impacts that would result from project-related actions in combination with "closely related past, present, and probably future projects: located in the immediate vicinity" (*State CEQA Guidelines* Section 15130[b][1][A]). Cumulative environmental impacts are those impacts that by themselves are not significant, but when considered with impacts occurring from other projects in the vicinity would result in a cumulative impact. Related projects considered to have the potential of creating cumulative impacts in association with the proposed project consist of projects that are reasonably foreseeable and that would be constructed or operated during the life of the proposed project.

The proposed project's impacts would be individually limited and not cumulatively considerable. The potentially significant impacts that can be reduced to a less-than-significant level with implementation of recommended mitigation measures include the topics of air quality, biological resources, cultural resources, geology and soils, and greenhouse gas emissions. These impacts would primarily be related to construction-period activities, would be temporary in nature, and would not substantially contribute to any potential cumulative impacts associated with these topics. For the topic of air quality, potentially significant impacts to air quality standards and exposure of sensitive receptors to substantial pollutant concentrations associated with project construction would be reduced to less-than-significant levels with implementation of **Mitigation Measures AIR-1 and AIR-2.** For the topic of biological resources, implementation of **Mitigation Measures BIO-1 and BIO-2** would ensure that impacts to special-status species, including white-tailed kite, nesting birds, pallid bat and other roosting bats are reduced to a less-than-significant level. For the topic of cultural resources, potentially significant impacts to archaeological and cultural resources would be reduced to less-than-significant levels with implementation of **Mitigation Measure CULT-1.**

For the topics of aesthetics, agricultural and forestry resources, energy, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation, tribal cultural resources, utilities and service systems, and wildfire, the project would have no impacts or less-than-significant impacts and, therefore, would not substantially contribute to any potential cumulative impacts for these topics. All environmental impacts that could occur as a result of the proposed project would be reduced to a less-than-significant level through the implementation of the mitigation measures recommended in this document.

Implementation of these measures would ensure that the impacts of the project would be below established thresholds of significance and that these impacts would not combine with the impacts of other cumulative projects to result in a cumulatively considerable impact on the environment as a result of project development. Therefore, this impact would be **less than significant with mitigation incorporated.**

*c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? **(No Impact)***

The proposed project would not result in any environmental effects that would cause substantial direct or indirect adverse effects to human beings, beyond those topics previously discussed in Sections 4.1 through 4.21 of this IS/MND.

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APPENDIX A

CALEEMOD OUTPUT SHEETS

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5180 Sonoma Boulevard Residential Development Project Custom Report

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1.1. Basic Project Information

Data Field	Value
Project Name	5180 Sonoma Boulevard Residential Development Project
Construction Start Date	7/3/2023
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	38.4
Location	5180 Sonoma Blvd, Vallejo, CA 94589, USA
County	Solano-San Francisco
City	Vallejo
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	861
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Apartments Mid Rise	427	Dwelling Unit	11.0	409,920	116,087	—	1,204	—
Parking Lot	276	Space	1.60	0.00	0.00	—	—	—
Enclosed Parking Structure	422	Space	0.00	168,800	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	166	22.6	31.9	0.04	0.72	3.64	4.36	0.67	0.88	1.54	—	7,841	7,841	0.24	0.45	20.4	8,001
Mit.	166	22.6	31.9	0.04	0.13	3.64	3.77	0.12	0.88	1.00	—	7,841	7,841	0.24	0.45	20.4	8,001
% Reduced	—	—	—	—	82%	—	13%	82%	—	35%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	166	50.3	36.6	0.13	1.38	16.1	17.1	1.25	3.97	4.99	—	18,866	18,866	0.82	2.50	0.88	19,634
Mit.	166	50.3	36.6	0.13	0.40	16.1	16.5	0.39	3.97	4.13	—	18,866	18,866	0.82	2.50	0.88	19,634
% Reduced	—	—	—	—	71%	—	4%	69%	—	17%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.7	18.5	21.6	0.03	0.56	2.57	3.13	0.52	0.66	1.18	—	5,439	5,439	0.18	0.30	5.66	5,539
Mit.	16.7	18.5	21.6	0.03	0.10	2.57	2.67	0.09	0.66	0.76	—	5,439	5,439	0.18	0.30	5.66	5,539
% Reduced	—	—	—	—	82%	—	15%	82%	—	36%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.05	3.37	3.94	0.01	0.10	0.47	0.57	0.10	0.12	0.22	—	900	900	0.03	0.05	0.94	917
Mit.	3.05	3.37	3.94	0.01	0.02	0.47	0.49	0.02	0.12	0.14	—	900	900	0.03	0.05	0.94	917
% Reduced	—	—	—	—	82%	—	15%	82%	—	36%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.26	22.6	31.9	0.04	0.72	3.64	4.36	0.67	0.88	1.54	—	7,841	7,841	0.24	0.45	20.4	8,001
2025	166	22.4	30.6	0.04	0.72	3.64	4.36	0.67	0.88	1.54	—	7,744	7,744	0.23	0.43	19.2	7,898
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.43	50.3	36.6	0.13	1.38	16.1	17.1	1.25	3.97	4.99	—	18,866	18,866	0.82	2.50	0.88	19,634
2024	2.17	50.2	36.6	0.07	1.38	4.02	5.39	1.25	1.53	2.78	—	7,763	7,763	0.32	0.45	0.53	7,836
2025	166	22.9	29.0	0.04	0.72	3.64	4.36	0.67	0.88	1.54	—	7,489	7,489	0.25	0.43	0.50	7,626
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.21	7.97	5.19	0.02	0.21	1.91	2.11	0.19	0.52	0.71	—	2,169	2,169	0.09	0.22	1.27	2,237

2024	1.48	18.5	21.6	0.03	0.56	2.57	3.13	0.52	0.66	1.18	—	5,439	5,439	0.18	0.30	5.66	5,539
2025	16.7	9.31	11.3	0.01	0.31	1.31	1.62	0.29	0.31	0.60	—	2,852	2,852	0.09	0.16	3.02	2,904
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.04	1.46	0.95	< 0.005	0.04	0.35	0.39	0.03	0.09	0.13	—	359	359	0.02	0.04	0.21	370
2024	0.27	3.37	3.94	0.01	0.10	0.47	0.57	0.10	0.12	0.22	—	900	900	0.03	0.05	0.94	917
2025	3.05	1.70	2.07	< 0.005	0.06	0.24	0.30	0.05	0.06	0.11	—	472	472	0.02	0.03	0.50	481

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.26	22.6	31.9	0.04	0.13	3.64	3.77	0.12	0.88	1.00	—	7,841	7,841	0.24	0.45	20.4	8,001
2025	166	22.4	30.6	0.04	0.13	3.64	3.77	0.12	0.88	1.00	—	7,744	7,744	0.23	0.43	19.2	7,898
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	1.43	50.3	36.6	0.13	0.40	16.1	16.5	0.39	3.97	4.13	—	18,866	18,866	0.82	2.50	0.88	19,634
2024	2.17	50.2	36.6	0.07	0.22	4.02	4.24	0.20	1.53	1.74	—	7,763	7,763	0.32	0.45	0.53	7,836
2025	166	22.9	29.0	0.04	0.13	3.64	3.77	0.12	0.88	1.00	—	7,489	7,489	0.25	0.43	0.50	7,626
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.21	7.97	5.19	0.02	0.05	1.91	1.96	0.05	0.52	0.57	—	2,169	2,169	0.09	0.22	1.27	2,237
2024	1.48	18.5	21.6	0.03	0.10	2.57	2.67	0.09	0.66	0.76	—	5,439	5,439	0.18	0.30	5.66	5,539
2025	16.7	9.31	11.3	0.01	0.05	1.31	1.36	0.05	0.31	0.37	—	2,852	2,852	0.09	0.16	3.02	2,904
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.04	1.46	0.95	< 0.005	0.01	0.35	0.36	0.01	0.09	0.10	—	359	359	0.02	0.04	0.21	370
2024	0.27	3.37	3.94	0.01	0.02	0.47	0.49	0.02	0.12	0.14	—	900	900	0.03	0.05	0.94	917

2025	3.05	1.70	2.07	< 0.005	0.01	0.24	0.25	0.01	0.06	0.07	—	472	472	0.02	0.03	0.50	481

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.9	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	199	15,846	16,045	20.9	0.74	59.8	16,848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.4	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	199	15,010	15,209	21.0	0.81	4.41	15,979
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.4	7.53	56.3	0.13	0.11	11.9	12.0	0.10	3.01	3.11	199	15,131	15,331	20.9	0.78	27.5	16,113
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.35	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	33.0	2,505	2,538	3.47	0.13	4.55	2,668

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.58	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	—	14,344	14,344	0.65	0.64	56.8	14,608
Area	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,443	1,443	0.23	0.03	—	1,457

Water	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Waste	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	18.9	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	199	15,846	16,045	20.9	0.74	59.8	16,848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.07	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,508	13,508	0.76	0.71	1.47	13,739
Area	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,443	1,443	0.23	0.03	—	1,457
Water	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Waste	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	18.4	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	199	15,010	15,209	21.0	0.81	4.41	15,979
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.00	7.53	56.3	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,629	13,629	0.70	0.68	24.5	13,873
Area	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,443	1,443	0.23	0.03	—	1,457
Water	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Waste	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	18.4	7.53	56.3	0.13	0.11	11.9	12.0	0.10	3.01	3.11	199	15,131	15,331	20.9	0.78	27.5	16,113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.46	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	—	2,256	2,256	0.12	0.11	4.06	2,297
Area	1.89	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	239	239	0.04	< 0.005	—	241
Water	—	—	—	—	—	—	—	—	—	—	4.81	9.88	14.7	0.49	0.01	—	30.6
Waste	—	—	—	—	—	—	—	—	—	—	28.2	0.00	28.2	2.82	0.00	—	98.6

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	3.35	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	33.0	2,505	2,538	3.47	0.13	4.55	2,668

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.58	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	—	14,344	14,344	0.65	0.64	56.8	14,608
Area	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,443	1,443	0.23	0.03	—	1,457
Water	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Waste	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	18.9	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	199	15,846	16,045	20.9	0.74	59.8	16,848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.07	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,508	13,508	0.76	0.71	1.47	13,739
Area	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,443	1,443	0.23	0.03	—	1,457
Water	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Waste	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	18.4	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	199	15,010	15,209	21.0	0.81	4.41	15,979
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	8.00	7.53	56.3	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,629	13,629	0.70	0.68	24.5	13,873

Area	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,443	1,443	0.23	0.03	—	1,457
Water	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Waste	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	18.4	7.53	56.3	0.13	0.11	11.9	12.0	0.10	3.01	3.11	199	15,131	15,331	20.9	0.78	27.5	16,113
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.46	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	—	2,256	2,256	0.12	0.11	4.06	2,297
Area	1.89	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	239	239	0.04	< 0.005	—	241
Water	—	—	—	—	—	—	—	—	—	—	4.81	9.88	14.7	0.49	0.01	—	30.6
Waste	—	—	—	—	—	—	—	—	—	—	28.2	0.00	28.2	2.82	0.00	—	98.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	3.35	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	33.0	2,505	2,538	3.47	0.13	4.55	2,668

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	—	3,437

Demolitio	—	—	—	—	—	12.1	12.1	—	1.82	1.82	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.05	1.49	< 0.005	0.06	—	0.06	0.06	—	0.06	—	282	282	0.01	< 0.005	—	282
Demolitio n	—	—	—	—	—	0.99	0.99	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.6	46.6	< 0.005	< 0.005	—	46.8
Demolitio n	—	—	—	—	—	0.18	0.18	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.63	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	129	129	< 0.005	0.01	0.02	131
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.32	20.6	6.77	0.10	0.28	3.90	4.18	0.28	1.07	1.35	—	15,312	15,312	0.68	2.47	0.86	16,066
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.03	1.67	0.55	0.01	0.02	0.31	0.34	0.02	0.09	0.11	—	1,258	1,258	0.06	0.20	1.18	1,321
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.30	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	208	208	0.01	0.03	0.19	219

3.2. Demolition (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.12	—	0.12	0.11	—	0.11	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	12.1	12.1	—	1.82	1.82	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.05	1.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	282	282	0.01	< 0.005	—	282
Demolition	—	—	—	—	—	0.99	0.99	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.37	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.6	46.6	< 0.005	< 0.005	—	46.8
Demolition	—	—	—	—	—	0.18	0.18	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.63	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	129	129	< 0.005	0.01	0.02	131
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.32	20.6	6.77	0.10	0.28	3.90	4.18	0.28	1.07	1.35	—	15,312	15,312	0.68	2.47	0.86	16,066
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.7	10.7	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	1.67	0.55	0.01	0.02	0.31	0.34	0.02	0.09	0.11	—	1,258	1,258	0.06	0.20	1.18	1,321
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.78	1.78	< 0.005	< 0.005	< 0.005	1.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.30	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	208	208	0.01	0.03	0.19	219

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.18	1.55	< 0.005	0.06	—	0.06	0.06	—	0.06	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	150	150	0.01	0.01	0.02	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.34	8.34	< 0.005	< 0.005	0.02	8.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	0.17	—	0.17	0.15	—	0.15	—	5,295	5,295	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.18	1.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	0.42	0.42	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.40	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Dust From Material Movement	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	150	150	0.01	0.01	0.02	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.34	8.34	< 0.005	< 0.005	0.02	8.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	2.01	1.45	< 0.005	0.06	—	0.06	0.05	—	0.05	—	271	271	0.01	< 0.005	—	272

Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	44.9	44.9	< 0.005	< 0.005	—	45.0
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.84	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	172	172	0.01	0.01	0.02	174
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.36	0.45	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,011	1,011	0.04	0.16	0.06	1,061
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.15	7.15	< 0.005	< 0.005	0.02	7.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.5	41.5	< 0.005	0.01	0.04	43.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.88	6.88	< 0.005	< 0.005	0.01	7.22

3.6. Grading (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	0.20	—	0.20	0.18	—	0.18	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	2.01	1.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	271	271	0.01	< 0.005	—	272
Dust From Material Movement	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.37	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.9	44.9	< 0.005	< 0.005	—	45.0

Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.84	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	172	172	0.01	0.01	0.02	174
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.36	0.45	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	1,011	1,011	0.04	0.16	0.06	1,061
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.15	7.15	< 0.005	< 0.005	0.02	7.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.5	41.5	< 0.005	0.01	0.04	43.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.88	6.88	< 0.005	< 0.005	0.01	7.22

3.7. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	1.36	—	1.36	1.23	—	1.23	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	3.82	2.77	< 0.005	0.11	—	0.11	0.10	—	0.10	—	516	516	0.02	< 0.005	—	518
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.70	0.50	< 0.005	0.02	—	0.02	0.02	—	0.02	—	85.5	85.5	< 0.005	< 0.005	—	85.8
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.78	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	169	169	0.01	0.01	0.02	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.32	0.44	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	996	996	0.04	0.16	0.06	1,044
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.03	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.0	78.0	< 0.005	0.01	0.07	81.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.01	13.5

3.8. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	48.8	35.3	0.06	0.20	—	0.20	0.18	—	0.18	—	6,598	6,598	0.27	0.05	—	6,621

Dust From Material Movement	—	—	—	—	—	3.59	3.59	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	3.82	2.77	< 0.005	0.02	—	0.02	0.01	—	0.01	—	516	516	0.02	< 0.005	—	518
Dust From Material Movement	—	—	—	—	—	0.28	0.28	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.70	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	85.5	85.5	< 0.005	< 0.005	—	85.8
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.78	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	169	169	0.01	0.01	0.02	171
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.32	0.44	0.01	0.02	0.26	0.28	0.02	0.07	0.09	—	996	996	0.04	0.16	0.06	1,044

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.03	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.0	78.0	< 0.005	0.01	0.07	81.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.21	2.21	< 0.005	< 0.005	< 0.005	2.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.01	13.5

3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.39	12.0	9.07	0.01	0.44	—	0.44	0.41	—	0.41	—	1,520	1,520	0.06	0.01	—	1,525
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.18	1.65	< 0.005	0.08	—	0.08	0.07	—	0.07	—	252	252	0.01	< 0.005	—	253
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.56	1.06	16.6	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,454	3,454	0.08	0.13	15.1	3,510
Vendor	0.08	2.66	1.04	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,990	1,990	0.06	0.30	5.28	2,085
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.48	1.43	14.8	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,192	3,192	0.10	0.13	0.39	3,234
Vendor	0.07	2.82	1.07	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,991	1,991	0.06	0.30	0.14	2,082
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.93	0.82	8.99	0.00	0.00	1.93	1.93	0.00	0.45	0.45	—	2,049	2,049	0.05	0.08	4.11	2,079
Vendor	0.05	1.75	0.67	0.01	0.02	0.32	0.34	0.02	0.09	0.11	—	1,262	1,262	0.04	0.19	1.44	1,321
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	1.64	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	339	339	0.01	0.01	0.68	344
Vendor	0.01	0.32	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	209	209	0.01	0.03	0.24	219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	12.0	9.07	0.01	0.07	—	0.07	0.06	—	0.06	—	1,520	1,520	0.06	0.01	—	1,525
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.18	1.65	< 0.005	0.01	—	0.01	0.01	—	0.01	—	252	252	0.01	< 0.005	—	253
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.56	1.06	16.6	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,454	3,454	0.08	0.13	15.1	3,510
Vendor	0.08	2.66	1.04	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,990	1,990	0.06	0.30	5.28	2,085
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.48	1.43	14.8	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,192	3,192	0.10	0.13	0.39	3,234
Vendor	0.07	2.82	1.07	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,991	1,991	0.06	0.30	0.14	2,082
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.93	0.82	8.99	0.00	0.00	1.93	1.93	0.00	0.45	0.45	—	2,049	2,049	0.05	0.08	4.11	2,079
Vendor	0.05	1.75	0.67	0.01	0.02	0.32	0.34	0.02	0.09	0.11	—	1,262	1,262	0.04	0.19	1.44	1,321
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	1.64	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	339	339	0.01	0.01	0.68	344
Vendor	0.01	0.32	0.12	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	209	209	0.01	0.03	0.24	219
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	6.57	4.98	0.01	0.24	—	0.24	0.22	—	0.22	—	835	835	0.03	0.01	—	838
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.20	0.91	< 0.005	0.04	—	0.04	0.04	—	0.04	—	138	138	0.01	< 0.005	—	139
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.50	0.95	15.3	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,387	3,387	0.07	0.13	13.9	3,441
Vendor	0.06	2.55	1.00	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,959	1,959	0.06	0.28	5.26	2,051
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.41	1.31	13.7	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,131	3,131	0.09	0.13	0.36	3,173

Vendor	0.06	2.69	1.03	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,961	1,961	0.06	0.28	0.14	2,047
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.41	4.58	0.00	0.00	1.06	1.06	0.00	0.25	0.25	—	1,104	1,104	0.03	0.05	2.09	1,120
Vendor	0.02	0.92	0.35	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	683	683	0.02	0.10	0.79	714
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.84	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	183	183	< 0.005	0.01	0.35	185
Vendor	< 0.005	0.17	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.13	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	6.57	4.98	0.01	0.04	—	0.04	0.03	—	0.03	—	835	835	0.03	0.01	—	838
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.20	0.91	< 0.005	0.01	—	0.01	0.01	—	0.01	—	138	138	0.01	< 0.005	—	139
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.50	0.95	15.3	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,387	3,387	0.07	0.13	13.9	3,441
Vendor	0.06	2.55	1.00	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,959	1,959	0.06	0.28	5.26	2,051
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.41	1.31	13.7	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	3,131	3,131	0.09	0.13	0.36	3,173
Vendor	0.06	2.69	1.03	0.01	0.03	0.52	0.54	0.03	0.14	0.17	—	1,961	1,961	0.06	0.28	0.14	2,047
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.41	4.58	0.00	0.00	1.06	1.06	0.00	0.25	0.25	—	1,104	1,104	0.03	0.05	2.09	1,120
Vendor	0.02	0.92	0.35	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	683	683	0.02	0.10	0.79	714
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.84	0.00	0.00	0.19	0.19	0.00	0.05	0.05	—	183	183	< 0.005	0.01	0.35	185

Vendor	< 0.005	0.17	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.13	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.28	1.02	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	—	145
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.61	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	134	134	< 0.005	0.01	0.55	136
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.02	12.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,517
Paving	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.28	1.02	< 0.005	0.01	—	0.01	0.01	—	0.01	—	145	145	0.01	< 0.005	—	145
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.61	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	134	134	< 0.005	0.01	0.55	136
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.02	12.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	12.8	12.8	< 0.005	< 0.005	—	12.8
Architectural Coatings	15.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	—	2.13
Architectural Coatings	2.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.19	3.06	0.00	0.00	0.63	0.63	0.00	0.15	0.15	—	677	677	0.01	0.03	2.78	688
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.26	2.73	0.00	0.00	0.63	0.63	0.00	0.15	0.15	—	626	626	0.02	0.03	0.07	635
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.8	60.8	< 0.005	< 0.005	0.12	61.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.10	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	—	12.8
Architectural Coatings	15.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	—	2.13
Architectural Coatings	2.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.19	3.06	0.00	0.00	0.63	0.63	0.00	0.15	0.15	—	677	677	0.01	0.03	2.78	688
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.26	2.73	0.00	0.00	0.63	0.63	0.00	0.15	0.15	—	626	626	0.02	0.03	0.07	635
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.8	60.8	< 0.005	< 0.005	0.12	61.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	8.58	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	—	14,344	14,344	0.65	0.64	56.8	14,608
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.58	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	—	14,344	14,344	0.65	0.64	56.8	14,608
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	8.07	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,508	13,508	0.76	0.71	1.47	13,739

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.07	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,508	13,508	0.76	0.71	1.47	13,739
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.46	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	—	2,256	2,256	0.12	0.11	4.06	2,297
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.46	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	—	2,256	2,256	0.12	0.11	4.06	2,297

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	8.58	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	—	14,344	14,344	0.65	0.64	56.8	14,608
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.58	6.87	60.8	0.14	0.11	11.9	12.0	0.10	3.01	3.11	—	14,344	14,344	0.65	0.64	56.8	14,608

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	8.07	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,508	13,508	0.76	0.71	1.47	13,739
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.07	8.07	59.7	0.13	0.11	11.9	12.0	0.10	3.01	3.11	—	13,508	13,508	0.76	0.71	1.47	13,739
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.46	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	—	2,256	2,256	0.12	0.11	4.06	2,297
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.46	1.37	10.3	0.02	0.02	2.17	2.19	0.02	0.55	0.57	—	2,256	2,256	0.12	0.11	4.06	2,297

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,078	1,078	0.17	0.02	—	1,089
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	34.1	34.1	0.01	< 0.005	—	34.5
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	334
Total	—	—	—	—	—	—	—	—	—	—	—	1,443	1,443	0.23	0.03	—	1,457
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,078	1,078	0.17	0.02	—	1,089
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	34.1	34.1	0.01	< 0.005	—	34.5
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	334
Total	—	—	—	—	—	—	—	—	—	—	—	1,443	1,443	0.23	0.03	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	178	178	0.03	< 0.005	—	180
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	5.65	5.65	< 0.005	< 0.005	—	5.70
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	54.7	54.7	0.01	< 0.005	—	55.2
Total	—	—	—	—	—	—	—	—	—	—	—	239	239	0.04	< 0.005	—	241

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,078	1,078	0.17	0.02	—	1,089
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	34.1	34.1	0.01	< 0.005	—	34.5
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	334
Total	—	—	—	—	—	—	—	—	—	—	—	1,443	1,443	0.23	0.03	—	1,457
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	1,078	1,078	0.17	0.02	—	1,089
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	34.1	34.1	0.01	< 0.005	—	34.5
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	330	330	0.05	0.01	—	334
Total	—	—	—	—	—	—	—	—	—	—	—	1,443	1,443	0.23	0.03	—	1,457
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	178	178	0.03	< 0.005	—	180
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	5.65	5.65	< 0.005	< 0.005	—	5.70
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	54.7	54.7	0.01	< 0.005	—	55.2

Total	—	—	—	—	—	—	—	—	—	—	—	239	239	0.04	< 0.005	—	241

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	8.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consumer Products	8.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	1.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.89	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	8.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	8.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	10.4	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	1.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.89	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	4.81	9.88	14.7	0.49	0.01	—	30.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	4.81	9.88	14.7	0.49	0.01	—	30.6

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	29.1	59.7	88.7	2.99	0.07	—	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	4.81	9.88	14.7	0.49	0.01	—	30.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	4.81	9.88	14.7	0.49	0.01	—	30.6

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	28.2	0.00	28.2	2.82	0.00	—	98.6

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	28.2	0.00	28.2	2.82	0.00	—	98.6

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	595

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	28.2	0.00	28.2	2.82	0.00	—	98.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	28.2	0.00	28.2	2.82	0.00	—	98.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.94	2.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/2/2023	11/10/2023	5.00	30.0	—
Site Preparation	Site Preparation	11/13/2023	12/8/2023	5.00	20.0	—
Grading	Grading	12/11/2023	2/9/2024	5.00	45.0	—
Building Construction	Building Construction	2/12/2024	6/27/2025	5.00	360	—
Paving	Paving	6/30/2025	8/15/2025	5.00	35.0	—
Architectural Coating	Architectural Coating	8/18/2025	10/3/2025	5.00	35.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73

Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 2	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 2	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2

Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	210	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	13.9	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	378	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	73.3	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	75.7	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT

Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	210	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	13.9	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	378	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	73.3	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	75.7	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	830,088	276,696	0.00	0.00	4,182

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	548,648	—

Site Preparation	—	—	30.0	0.00	—
Grading	—	5,000	135	0.00	—
Paving	0.00	0.00	0.00	0.00	1.60

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Parking Lot	1.60	100%
Enclosed Parking Structure	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	204	0.03	< 0.005
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Apartments Mid Rise	1,947	1,947	1,947	710,699	16,884	16,884	16,884	6,162,739
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	1,947	1,947	1,947	710,699	16,884	16,884	16,884	6,162,739
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	427
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	427
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
830088	276,696	0.00	0.00	4,182

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	1,929,105	204	0.0330	0.0040	0.00
Parking Lot	61,054	204	0.0330	0.0040	0.00
Enclosed Parking Structure	591,042	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	1,929,105	204	0.0330	0.0040	0.00
Parking Lot	61,054	204	0.0330	0.0040	0.00
Enclosed Parking Structure	591,042	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	15,163,133	1,734,988
Parking Lot	0.00	0.00
Enclosed Parking Structure	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	15,163,133	1,734,988
Parking Lot	0.00	0.00
Enclosed Parking Structure	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	316	—
Parking Lot	0.00	—
Enclosed Parking Structure	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	316	—
Parking Lot	0.00	—
Enclosed Parking Structure	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Land Use	Total 12.6-acre project site.
Construction: Construction Phases	Construction of the proposed project is anticipated to begin in October 2023 and would occur over an approximately 24-month period.
Construction: Off-Road Equipment	Assuming use of Tier 2 construction equipment.
Operations: Vehicle Data	Based on trip generation in the proposed project's Traffic Impact Analysis (Abrams Associates, April 11, 2022).
Operations: Hearths	The proposed project would be all electric.
Operations: Energy Use	The proposed project would be all electric.

APPENDIX B

MODEL SNAPSHOTS

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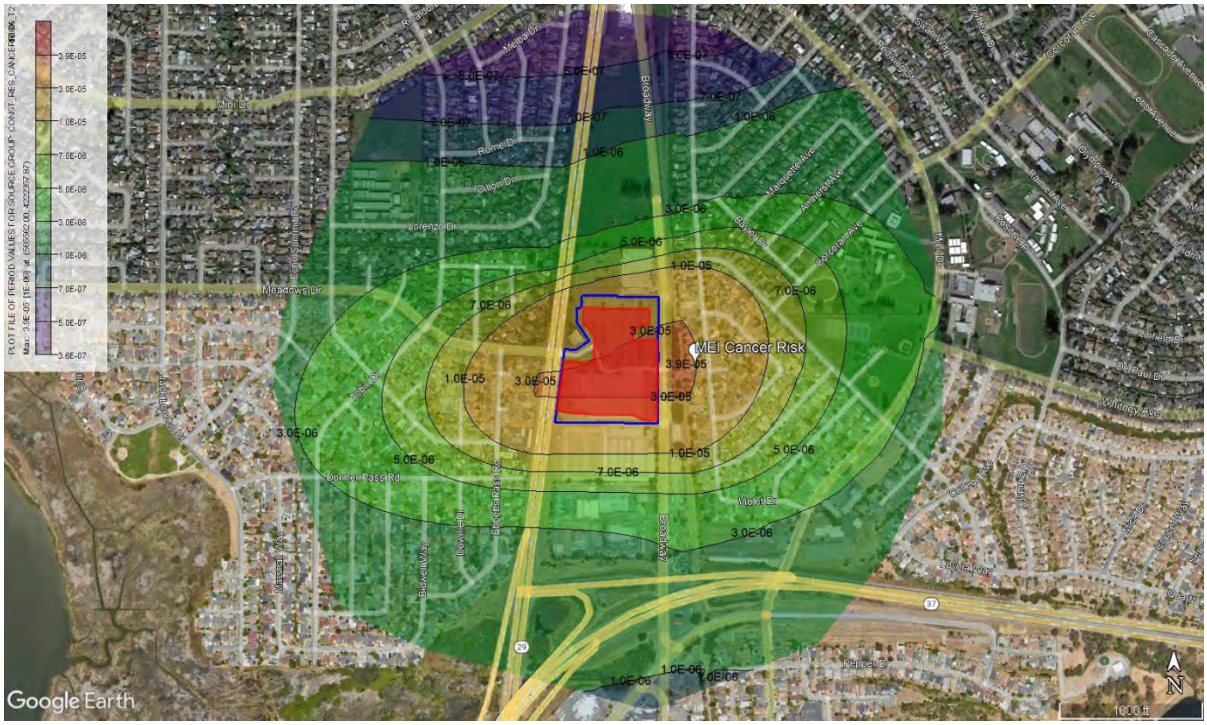
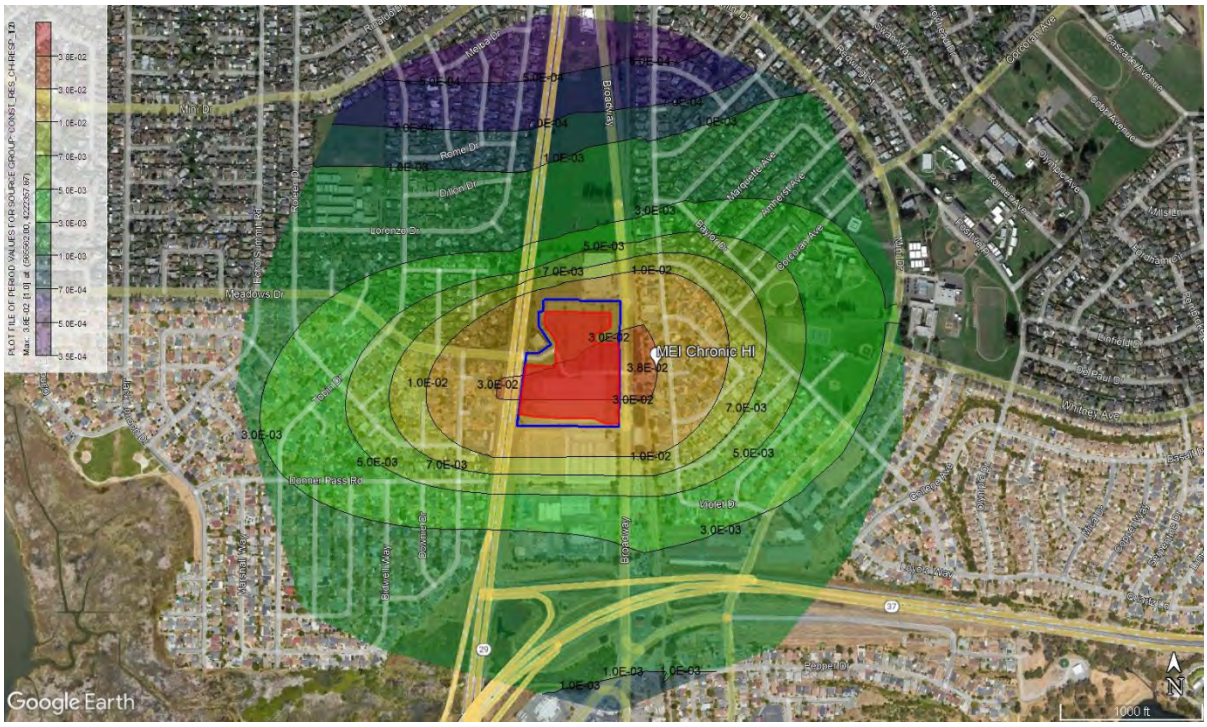
Project Location

Receptor Grid

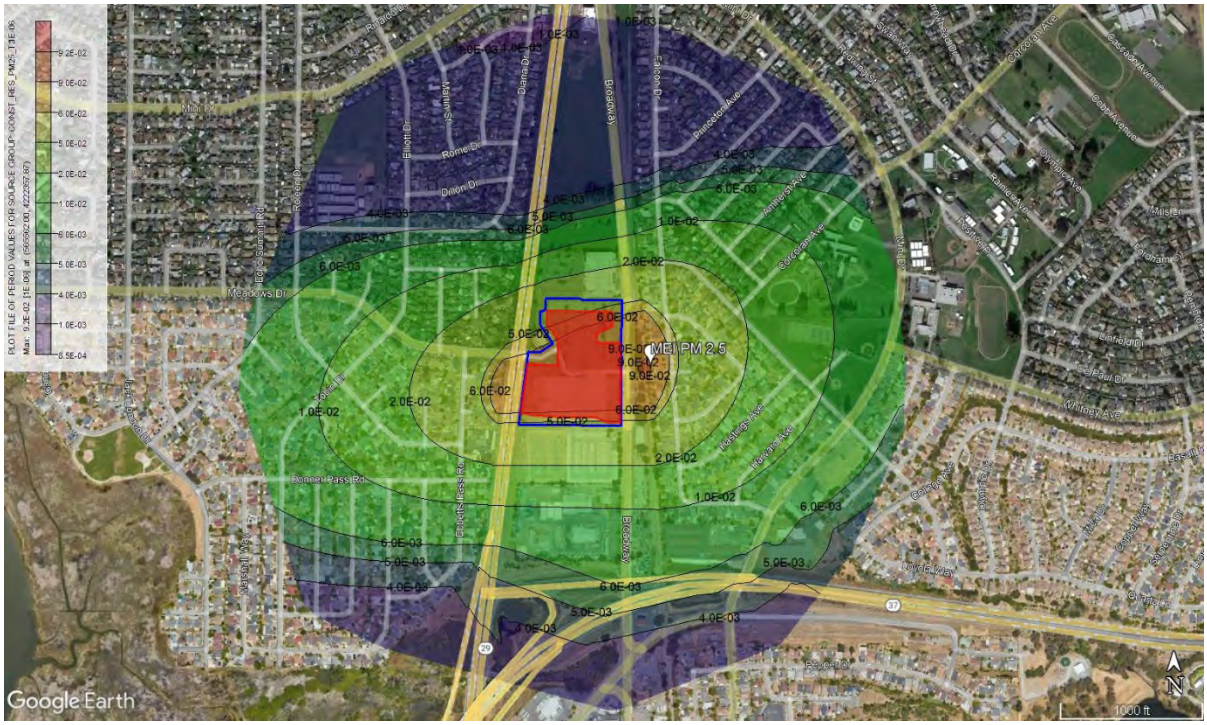
Unmitigated Construction Cancer Risk – Sensitive Receptor



Unmitigated Construction Chronic Hazard Index – Sensitive Receptor



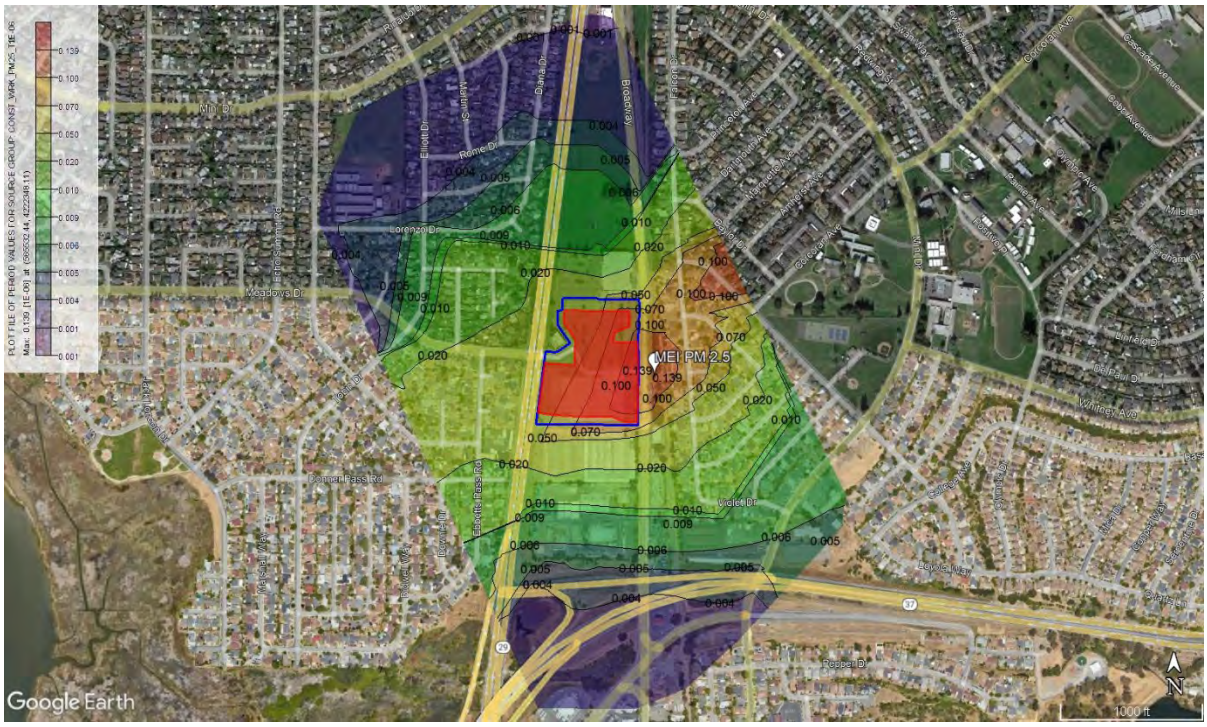
Unmitigated Construction $PM_{2.5}$ Concentrations – Sensitive Receptor



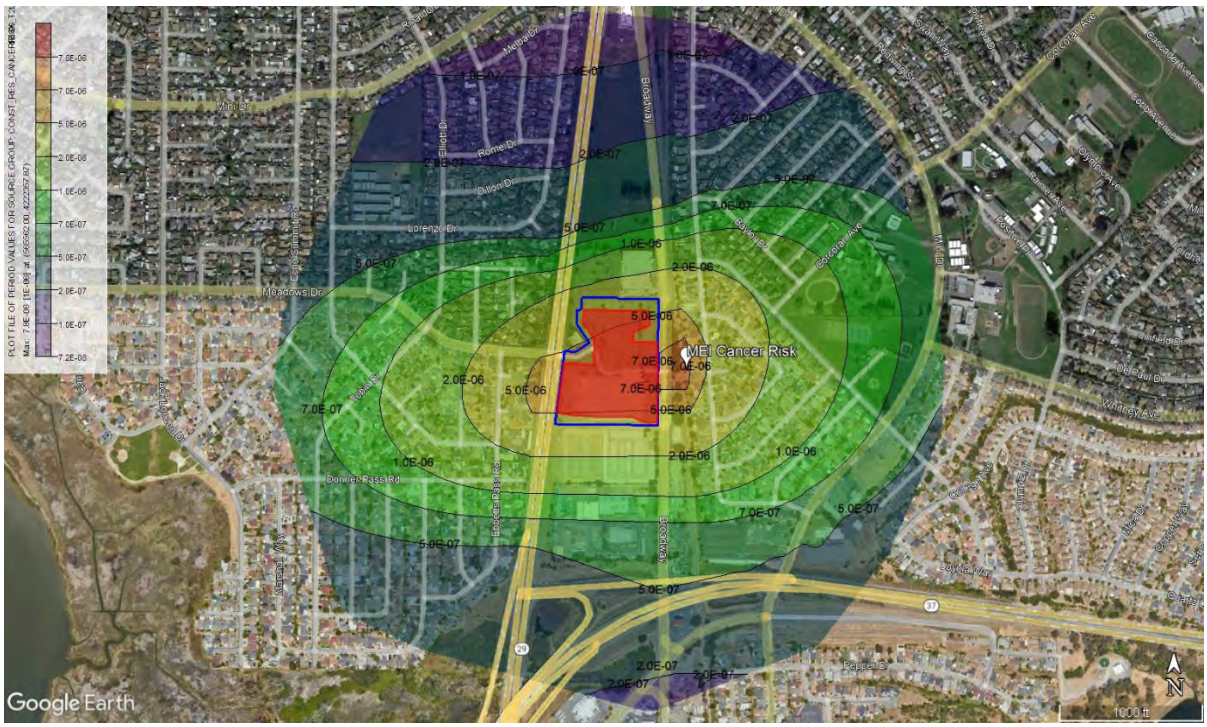
Unmitigated Construction Cancer Risk – Worker Receptor

Unmitigated Construction Chronic Hazard Index – Worker Receptor

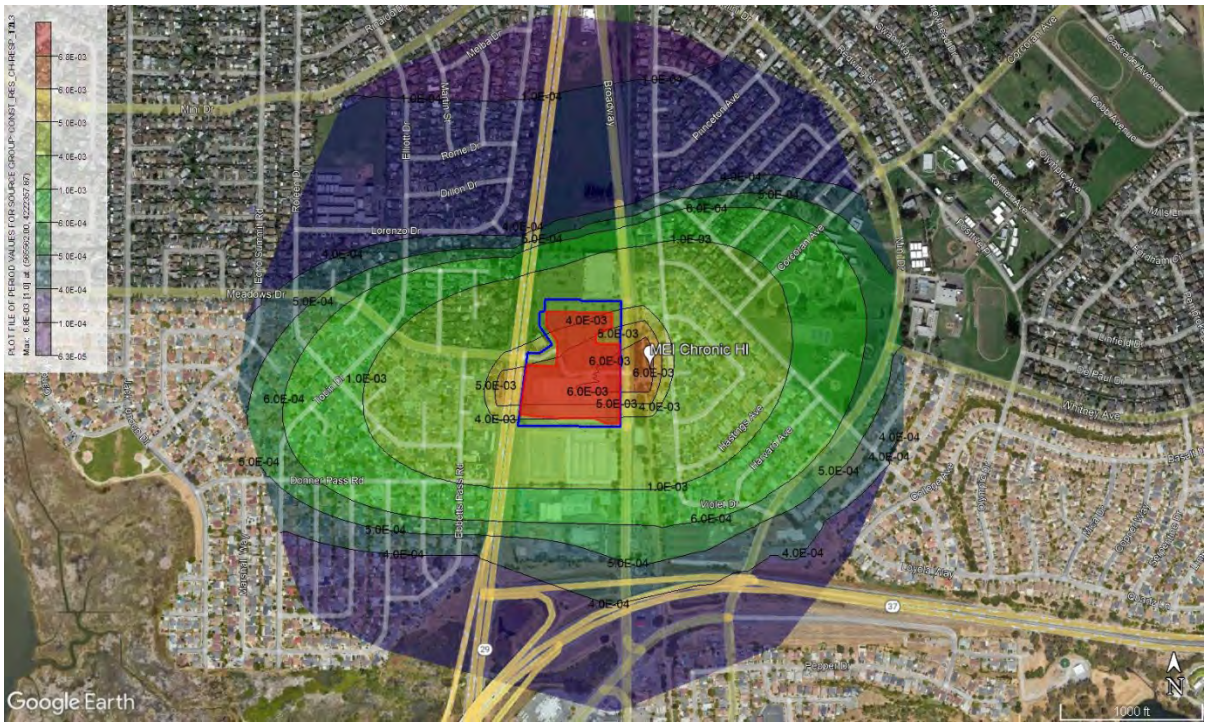
Unmitigated Construction $PM_{2.5}$ Concentrations – Worker Receptor



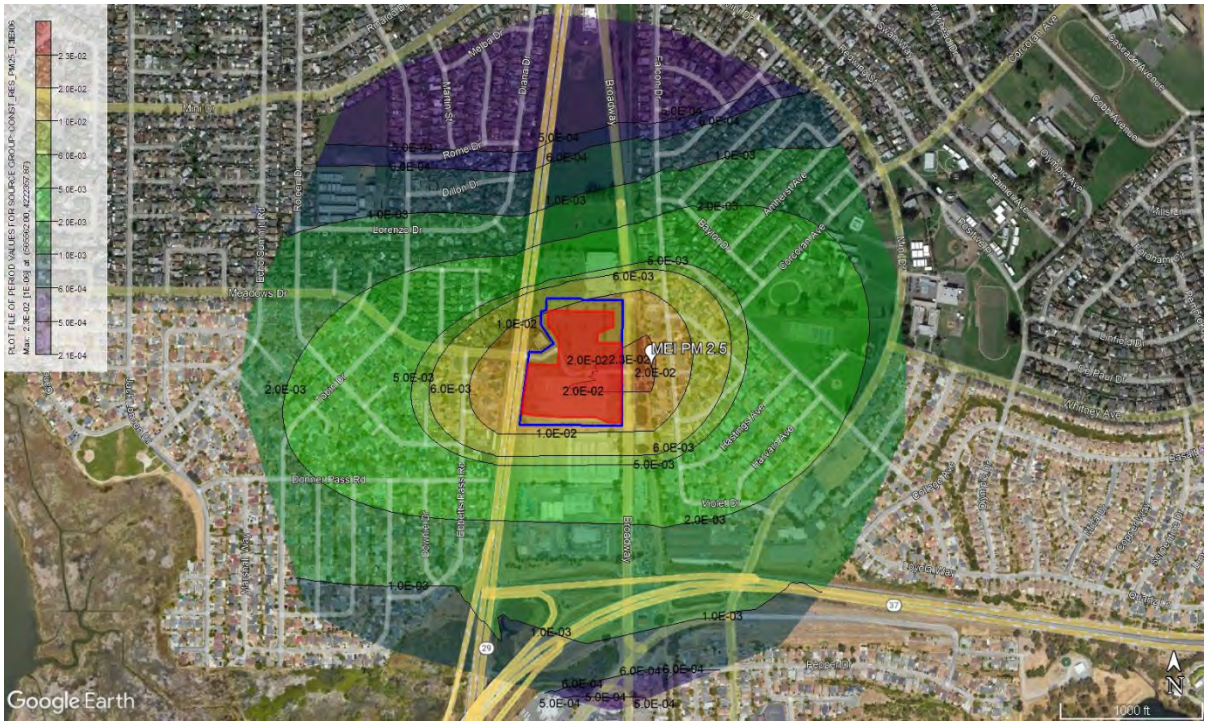
Mitigated Construction Cancer Risk – Sensitive Receptor



Mitigated Construction Chronic Hazard Index – Sensitive Receptor



Mitigated Construction $PM_{2.5}$ Concentrations – Sensitive Receptor



Mitigated Construction Cancer Risk – Worker Receptor

Mitigated Construction Chronic Hazard Index – Worker Receptor

Mitigated Construction $PM_{2.5}$ Concentrations – Worker Receptor

Construction	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.78	45.54
Chronic HI	5.24E-02	3.49E-02
Acute HI	0.0	0.0
PM 2.5	0.262	0.174

Construction (T2)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.54	38.52
Chronic HI	5.74E-02	3.82E-02
Acute HI	0.0	0.0
PM 2.5	0.139	0.092

Construction (T2L3)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.15	7.79
Chronic HI	1.02E-02	6.81E-03
Acute HI	0.0	0.0
PM 2.5	0.034	0.023

Construction (T4)	Worker Receptor	Sensitive Receptor
Cancer Risk (in a Million)	0.09	4.86
Chronic HI	5.70E-03	3.79E-03
Acute HI	0.0	0.0
PM 2.5	0.027	0.018

PM 10				
Tons/Yr	UM	T2	T2L3	T4
Year 1	0.0707	0.0375	0.0093	0.0072
Year 2	0.0935	0.1025	0.0183	0.0102
Year 3	0.0335	0.0568	0.0110	0.0050

PM 2.5				
Tons/Yr	UM	T2	T2L3	T4
Year 1	0.06485	0.0344	0.01403	1.06E-02
Year 2	0.0874	0.09525	1.61E-02	9.19E-03
Year 3	0.03138	0.0531	0.006335	0.002718

PM 10				
Lbs /Yr	UM	T2	T2L3	T4
Year 1	141.4	74.97	18.57	14.37
Year 2	187	205	36.53	20.34
Year 3	66.99	113.5	21.92	10

PM 2.5				
Lbs /Yr	UM	T2	T2L3	T4
Year 1	129.7	68.8	28.06	21.1
Year 2	174.8	190.5	32.26	18.38
Year 3	62.76	106.2	12.67	5.435

PM 10				
% Chng	UM	M	T2L3	T4
Year 1	100%	53%	13%	10%
Year 2	100%	110%	20%	11%
Year 3	100%	100%	33%	15%

PM 2.5				
g/sec	UM	T2	T2L3	T4
Year 1	0.001866	0.00099	0.000404	0.000303
Year 2	0.002514	0.00274	0.000464	0.000264
Year 3	0.000903	0.001528	0.000182	7.82E-05

			UnMitigated				T2				T2L3				T4			
						4.55E-05				3.85E-05				7.79E-06				4.86E-06
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	565529.2	4222707	1.17E-06	1.42E-06	7.50E-08	2.66E-06	6.18E-07	1.56E-06	7.50E-08	2.25E-06	1.53E-07	2.78E-07	2.46E-08	4.56E-07	1.18E-07	1.55E-07	1.12E-08	2.85E-07
2	565533.8	4222716	1.11E-06	1.36E-06	7.14E-08	2.54E-06	5.88E-07	1.49E-06	7.14E-08	2.15E-06	1.46E-07	2.65E-07	2.34E-08	4.34E-07	1.13E-07	1.47E-07	1.07E-08	2.71E-07
3	565527.7	4222729	9.89E-07	1.21E-06	6.37E-08	2.26E-06	5.25E-07	1.32E-06	6.37E-08	1.91E-06	1.30E-07	2.36E-07	2.08E-08	3.87E-07	1.01E-07	1.31E-07	9.51E-09	2.41E-07
4	565538.4	4222725	1.06E-06	1.29E-06	6.81E-08	2.42E-06	5.61E-07	1.42E-06	6.81E-08	2.05E-06	1.39E-07	2.52E-07	2.23E-08	4.14E-07	1.08E-07	1.41E-07	1.02E-08	2.58E-07
5	565532.3	4222737	9.47E-07	1.16E-06	6.09E-08	2.16E-06	5.02E-07	1.27E-06	6.09E-08	1.83E-06	1.24E-07	2.26E-07	1.99E-08	3.70E-07	9.62E-08	1.26E-07	9.10E-09	2.31E-07
6	565543	4222733	1.01E-06	1.23E-06	6.50E-08	2.31E-06	5.36E-07	1.35E-06	6.50E-08	1.95E-06	1.33E-07	2.41E-07	2.13E-08	3.95E-07	1.03E-07	1.34E-07	9.71E-09	2.47E-07
7	565536.7	4222746	9.06E-07	1.11E-06	5.83E-08	2.07E-06	4.80E-07	1.21E-06	5.83E-08	1.75E-06	1.19E-07	2.16E-07	1.91E-08	3.54E-07	9.21E-08	1.20E-07	8.71E-09	2.21E-07
8	565547.6	4222742	9.66E-07	1.18E-06	6.22E-08	2.21E-06	5.12E-07	1.29E-06	6.22E-08	1.87E-06	1.27E-07	2.30E-07	2.03E-08	3.78E-07	9.81E-08	1.28E-07	9.28E-09	2.36E-07
9	565541.4	4222755	8.69E-07	1.06E-06	5.59E-08	1.99E-06	4.61E-07	1.16E-06	5.59E-08	1.68E-06	1.14E-07	2.07E-07	1.83E-08	3.40E-07	8.83E-08	1.15E-07	8.35E-09	2.12E-07
10	565530.1	4222758	8.24E-07	1.01E-06	5.31E-08	1.88E-06	4.37E-07	1.10E-06	5.31E-08	1.59E-06	1.08E-07	1.97E-07	1.74E-08	3.22E-07	8.38E-08	1.10E-07	7.92E-09	2.01E-07
11	565552.2	4222751	9.24E-07	1.13E-06	5.95E-08	2.11E-06	4.90E-07	1.24E-06	5.95E-08	1.79E-06	1.21E-07	2.20E-07	1.95E-08	3.61E-07	9.39E-08	1.23E-07	8.88E-09	2.26E-07
12	565546	4222764	8.34E-07	1.02E-06	5.37E-08	1.91E-06	4.42E-07	1.12E-06	5.37E-08	1.61E-06	1.10E-07	1.99E-07	1.76E-08	3.26E-07	8.47E-08	1.11E-07	8.01E-09	2.04E-07
13	565534.8	4222766	7.92E-07	9.68E-07	5.10E-08	1.81E-06	4.20E-07	1.06E-06	5.10E-08	1.53E-06	1.04E-07	1.89E-07	1.67E-08	3.10E-07	8.05E-08	1.05E-07	7.61E-09	1.93E-07
14	565556.8	4222759	8.85E-07	1.08E-06	5.70E-08	2.02E-06	4.69E-07	1.19E-06	5.70E-08	1.71E-06	1.16E-07	2.11E-07	1.86E-08	3.46E-07	9.00E-08	1.18E-07	8.51E-09	2.16E-07
15	565550.7	4222772	8.02E-07	9.79E-07	5.16E-08	1.83E-06	4.25E-07	1.07E-06	5.16E-08	1.55E-06	1.05E-07	1.91E-07	1.69E-08	3.13E-07	8.15E-08	1.06E-07	7.70E-09	1.96E-07
16	565539.5	4222775	7.63E-07	9.31E-07	4.91E-08	1.74E-06	4.04E-07	1.02E-06	4.91E-08	1.47E-06	1.00E-07	1.82E-07	1.61E-08	2.98E-07	7.75E-08	1.01E-07	7.33E-09	1.86E-07
17	565528.4	4222778	7.26E-07	8.87E-07	4.68E-08	1.66E-06	3.85E-07	9.73E-07	4.68E-08	1.40E-06	9.54E-08	1.73E-07	1.53E-08	2.84E-07	7.38E-08	9.65E-08	6.98E-09	1.77E-07
18	565561.4	4222768	8.50E-07	1.04E-06	5.47E-08	1.94E-06	4.51E-07	1.14E-06	5.47E-08	1.64E-06	1.12E-07	2.03E-07	1.79E-08	3.32E-07	8.64E-08	1.13E-07	8.17E-09	2.07E-07
19	565560.1	4222790	7.42E-07	9.06E-07	4.78E-08	1.70E-06	3.93E-07	9.93E-07	4.78E-08	1.43E-06	9.74E-08	1.77E-07	1.56E-08	2.90E-07	7.54E-08	9.86E-08	7.13E-09	1.81E-07
20	565549.1	4222793	7.08E-07	8.64E-07	4.55E-08	1.62E-06	3.75E-07	9.47E-07	4.55E-08	1.37E-06	9.29E-08	1.69E-07	1.49E-08	2.77E-07	7.19E-08	9.40E-08	6.80E-09	1.73E-07
21	565538	4222795	6.76E-07	8.25E-07	4.35E-08	1.54E-06	3.58E-07	9.05E-07	4.35E-08	1.31E-06	8.87E-08	1.61E-07	1.42E-08	2.64E-07	6.87E-08	8.98E-08	6.49E-09	1.65E-07
22	565527	4222798	6.46E-07	7.90E-07	4.16E-08	1.48E-06	3.43E-07	8.66E-07	4.16E-08	1.25E-06	8.49E-08	1.54E-07	1.36E-08	2.53E-07	6.57E-08	8.59E-08	6.21E-09	1.58E-07
23	565558	4222810	6.56E-07	8.02E-07	4.22E-08	1.50E-06	3.48E-07	8.79E-07	4.22E-08	1.27E-06	8.62E-08	1.57E-07	1.38E-08	2.57E-07	6.67E-08	8.72E-08	6.31E-09	1.60E-07
24	565546.7	4222813	6.28E-07	7.67E-07	4.04E-08	1.44E-06	3.33E-07	8.41E-07	4.04E-08	1.21E-06	8.25E-08	1.50E-07	1.32E-08	2.45E-07	6.38E-08	8.34E-08	6.03E-09	1.53E-07
25	565535.4	4222816	6.02E-07	7.35E-07	3.87E-08	1.37E-06	3.19E-07	8.05E-07	3.87E-08	1.16E-06	7.90E-08	1.44E-07	1.27E-08	2.35E-07	6.11E-08	7.99E-08	5.78E-09	1.47E-07
26	565578.8	4222825	5.70E-07	6.96E-07	3.67E-08	1.30E-06	3.02E-07	7.63E-07	3.67E-08	1.10E-06	7.49E-08	1.36E-07	1.20E-08	2.23E-07	5.79E-08	7.57E-08	5.48E-09	1.39E-07
27	565556.4	4222831	5.35E-07	6.54E-07	3.45E-08	1.22E-06	2.84E-07	7.17E-07	3.45E-08	1.04E-06	7.03E-08	1.28E-07	1.13E-08	2.09E-07	5.44E-08	7.11E-08	5.14E-09	1.31E-07
28	565545.2	4222833	5.64E-07	6.89E-07	3.63E-08	1.29E-06	2.99E-07	7.55E-07	3.63E-08	1.09E-06	7.41E-08	1.35E-07	1.19E-08	2.21E-07	5.73E-08	7.50E-08	5.42E-09	1.38E-07
29	565534	4222836	5.43E-07	6.63E-07	3.49E-08	1.24E-06	2.88E-07	7.27E-07	3.49E-08	1.05E-06	7.13E-08	1.29E-07	1.14E-08	2.12E-07	5.51E-08	7.21E-08	5.21E-09	1.32E-07
30	565589.6	4222821	5.96E-07	7.28E-07	3.84E-08	1.36E-06	3.16E-07	7.98E-07	3.84E-08	1.15E-06	7.83E-08	1.42E-07	1.26E-08	2.33E-07	6.06E-08	7.92E-08	5.73E-09	1.45E-07
31	565588.2	4222843	5.25E-07	6.41E-07	3.38E-08	1.20E-06	2.78E-07	7.03E-07	3.38E-08	1.02E-06	6.89E-08	1.25E-07	1.11E-08	2.05E-07	5.34E-08	6.97E-08	5.04E-09	1.28E-07
32	565577.1	4222846	5.09E-07	6.22E-07	3.28E-08	1.16E-06	2.70E-07	6.82E-07	3.28E-08	9.85E-07	6.69E-08	1.22E-07	1.07E-08	1.99E-07	5.18E-08	6.77E-08	4.90E-09	1.24E-07
33	565554.9	4222851	4.84E-07	5.92E-07	3.12E-08	1.11E-06	2.57E-07	6.49E-07	3.12E-08	9.37E-07	6.36E-08	1.16E-07	1.02E-08	1.89E-07	4.92E-08	6.44E-08	4.65E-09	1.18E-07
34	565543.8	4222854	5.11E-07	6.24E-07	3.29E-08	1.17E-06	2.71E-07	6.84E-07	3.29E-08	9.88E-07	6.71E-08	1.22E-07	1.08E-08	2.00E-07	5.19E-08	6.79E-08	4.91E-09	1.25E-07
35	565532.7	4222857	4.93E-07	6.02E-07	3.17E-08	1.13E-06	2.61E-07	6.60E-07	3.17E-08	9.53E-07	6.47E-08	1.18E-07	1.04E-08	1.93E-07	5.01E-08	6.55E-08	4.74E-09	1.20E-07
36	565599	4222839	5.48E-07	6.69E-07	3.53E-08	1.25E-06	2.90E-07	7.34E-07	3.53E-08	1.06E-06	7.20E-08	1.31E-07	1.15E-08	2.14E-07	5.57E-08	7.28E-08	5.26E-09	1.34E-07
37	565597.5	4222861	4.85E-07	5.93E-07	3.12E-08	1.11E-06	2.57E-07	6.50E-07	3.12E-08	9.38E-07	6.37E-08	1.16E-07	1.02E-08	1.90E-07	4.93E-08	6.45E-08	4.66E-09	1.18E-07
38	565586.1	4222863	4.70E-07	5.74E-07	3.02E-08	1.07E-06	2.49E-07	6.29E-07	3.02E-08	9.08E-07	6.17E-08	1.12E-07	9.89E-09	1.84E-07	4.77E-08	6.24E-08	4.51E-09	1.15E-07
39	565574.8	4222866	4.58E-07	5.59E-07	2.95E-08	1.05E-06	2.43E-07	6.13E-07	2.95E-08	8.85E-07	6.01E-08	1.09E-07	9.64E-09	1.79E-07	4.65E-08	6.08E-08	4.40E-09	1.12E-07
40	565552.2	4222872	4.37E-07	5.34E-07	2.81E-08	9.99E-07	2.32E-07	5.85E-07	2.81E-08	8.45E-07	5.74E-08	1.04E-07	9.21E-09	1.71E-07	4.44E-08	5.81E-08	4.20E-09	1.07E-07
41	565540.8	4222874	4.28E-07	5.23E-07	2.75E-08	9.78E-07	2.27E-07	5.73E-07	2.75E-08	8.27E-07	5.62E-08	1.02E-07	9.01E-09	1.67E-07	4.35E-08	5.68E-08	4.11E-09	1.04E-07
42	565608.3	4222856	5.06E-07	6.17E-07	3.25E-08	1.16E-06	2.68E-07	6.77E-07	3.25E-08	9.77E-07	6.64E-08	1.21E-07	1.06E-08	1.98E-07	5.14E-08	6.72E-08	4.86E-09	1.23E-07
43	565606.9	4222878	4.50E-07	5.50E-07	2.90E-08	1.03E-06	2.39E-07	6.03E-07	2.90E-08	8.70E-07	5.91E-08	1.07E-07	9.48E-09	1.76E-07	4.58E-08	5.98E-08	4.33E-09	1.10E-07
44	565595.7	4222881	4.37E-07	5.33E-07	2.81E-08	9.98E-07	2.31E-07	5.85E-07	2.81E-08	8.44E-07	5.73E-08	1.04E-07	9.19E-09	1.71E-07	4.44E-08	5.80E-08	4.19E-09	1.07E-07
45	565584.4	4222884	4.24E-07	5.18E-07	2.73E-08	9.70E-07	2.25E-07	5.68E-07	2.73E-08	8.20E-07	5.57E-08	1.01E-07	8.93E-09	1.66E-07	4.31E-08	5.64E-08	4.08E-09	1.04E-07
46	565562	4222889	4.05E-07	4.94E-07	2.61E-08	9.25E-07	2.15E-07	5.42E-07	2.61E-08	7.83E-07	5.32E-08	9.66E-08	8.53E-09	1.58E-07	4.11E-08	5.38E-08	3.89E-09	9.88E-08
47	565550.8	4222892	3.96E-07	4.84E-07	2.55E-08	9.06E-07	2.10E-07	5.31E-07	2.55E-08	7.66E-07	5.20E-08	9.45E-08	8.34E-09	1.55E-07	4.03E-08	5.26E-08	3.81E-09	9.67E-08
48	565539.5	4222895	3.90E-07	4.76E-07	2.51E-08	8.90E-07	2.07E-07	5.22E-07	2.51E-08	7.53E-07	5.12E-08	9.29E-08	8.20E-09	1.52E-07	3.96E-08	5.18E-08	3.74E-09	9.51E-08
49	565617.7	4222874	4.69E-07	5.73E-07	3.02E-08	1.07E-06	2.49E-07	6.28E-07	3.02E-08	9.07E-07	6.16E-08	1.12E-07	9.88E-09	1.83E-07	4.77E-08	6.23E-08	4.51E-09	1.14E-07
50	565560.6	4222910	3.69E-07	4.50E-07	2.37E-08	8.42E-07	1.95E-07	4.93E-07	2.37E-08	7.13E-07	4.84E-08	8.79E-08	7.76E-09	1.44E-07	3.75E-08	4.90E-08	3.54E-09	9.00E-08
51	565549.5	4222912	3.62E-07	4.42E-07	2.33E-08	8.27E-07	1.92E-07	4.85E-07	2.33E-08	7.00E-07	4.75E-08	8.64E-08	7.62E-09	1.42E-07	3.68E-08	4.81E-08	3.48E-09	8.83E-08
52	565538.4	4222915	3.57E-07	4.36E-07	2.30E-08	8.15E-07	1.89E-07	4.78E-07	2.30E-08	6.90E-07	4.68E-08	8.51E-08	7.51E-09	1.39E-07	3.62E-08	4.74E-08	3.43E-09	8.71E-08
53	565627.1	4222892	4.21E-07	5.14E-07	2.71E-08	9.63E-07	2.23E-07	5.64E-07	2.71E-08	8.14E-07	5.53E-08	1.00E-07	8.87E-09	1.65E-07	4.28E-08	5.60E-08	4.05E-09	1.03E-07
54	565625.6	4222914	3.74E-07	4.57E-07	2.41E-08	8.55E-07	1.98E-07	5.01E-07	2.41E-08	7.23E-07	4.91E-08	8.92E-08	7.87E-09	1.46E-07	3.80E-08	4.97E-08	3.59E-09	9.13E-08
55	565602.9	4222919	3.66E-07	4.48E-07	2.36E-08	8.37E-07	1.94E-07	4.91E-07	2.36E-08	7.08E-07	4.81E-08	8.74E-08	7.72E-09	1.43E-07	3.72E-08	4.87E-08	3.52E-09	8.94E-08
56	565591.6	4222922	3.58E-07	4.37E-07	2.30E-08	8.18E-07	1.90E-07	4.79E-07	2.30E-08	6.92E-07	4.70E-08	8.54E-08	7.54E-09	1.40E-07	3.64E-08	4.75E-08	3.44E-09	8.74E-08
57	565580.2	4222925	3.50E-07	4.28E-07	2.26E-08	8.01E-07	1.86E-07	4.69E-07	2.26E-08	6.78E-07	4.60E-08	8.36E-08	7.38E-09	1.37E-07	3.56E-08	4.66E-08	3.37E-09	8.55E-08
58	565557.6	4222930	3.38E-07	4.13E-07	2.18E-08	7.73E-07	1.79E-07	4.53E-07	2.18E-08	6.54E-07	4.44E-08	8.07E-08	7.12E-09	1.32E-07	3.44E-08	4.49E-08	3.25E-09	8.26E-08
59	565546.2	4222933	3.32E-07	4.06E-07	2.14E-08	7.60E-07	1.76E-07	4.45E-07	2.14E-08	6.43E-07	4.37E-08	7.93E-08	7.00E-09	1.30E-07	3.38E-08	4.42E-08	3.19E-09	8.12E-08
60	565534.9	4222936	3.26E-07	3.99E-07	2.10E-08	7.46E-07	1.73E-07	4.37E-07	2.10E-08	6.31E-07	4.29E-08	7.79E-08	6.87E-09	1.28E-07	3.32E-08	4.34E-08	3.14E-09	7.97E-08
61	565636.5	4222909	3.90E-07	4.77E-07	2.51E-08	8.93E-07	2.07E-07	5.23E-07	2.51E-08	7.55E-07	5.13E-08	9.32E-08	8.22E-09	1.53E-07	3.97E-08	5.19E-08	3.75E-09	9.53E-08
62	565635	4222931	3.48E-07	4.25E-07	2.24E-08	7.95E-07	1.84E-07	4.66E-07	2.24E-08	6.72E-07	4.57E-08	8.30E-08	7.32E-09	1.36E-07	3.53E-08	4.62E-08	3.34E-09	8.49E-08
63	565623.8	4222934	3.36E-07	4.11E-07	2.16E-08	7.69E-07	1.78E-07	4.50E-07	2.16E-08	6.50E-07	4.42E-08	8.02E-08	7.08E-09	1.31E-07	3.42E-08	4.47E-08	3.23E-09	8.21E-08
64	565612.5	4222937	3.37E-07	4.12E-07	2.17E-08	7.71E-07	1.79E-07	4.52E-07	2.17E-08	6.52E-07	4.43E-08	8.05E-08	7.10E-09	1.32E-07	3.43E-08	4.48E-08	3.24E-09	8.23E-08
65	565601.3	4222940	3.31E-07	4.05E-07	2.13E-08	7.58E-07	1.76E-07	4.44E-07	2.13E-08	6.41E-07	4.35E-08	7.91E-08	6.98E-09	1.30E-07	3.37E-08	4.40E-08	3.18E-09	8.09E-08
66	565590	4222942	3.26E-07	3.98E-07	2.10E-08	7.45E-07	1.73E-07	4.36E-07	2.10E-08	6.30E-07	4.28E-08	7.78E-08	6.86E-09	1.27E-07	3.31E-08	4.33E-08	3.13E-09	7.95E-08
67	565578.8	4222945	3.21E-07	3.92E-07	2.06E-08	7.33E-07	1.70E-07	4.29E-07	2.06E-08	6.20E-07	4.21E-08	7.65E-08	6.75E-09	1.25E-07	3.26E-08	4.26E-08	3.08E-09	7.83E-08
68	565556.3	4222951	3.12E-07	3.81E-07	2.01E-08	7.13E-07	1.65E-07	4.17E-07	2.01E-08	6.03E-07	4.09E-08	7.44E-08	6.57E-09	1.22E-07	3.17E-08	4.14E-08	3.00E-09	7.61E-08
69	565545	4222953	3.08E-07	3.76E-07	1.98E-08	7.03E-07	1.63E-07	4.12E-07	1.98E-08	5.95E-07	4.04E-08	7.34E-08	6.48E-09	1.20E-07	3.13E-08	4.09E-08	2.96E-09	7.51E-08
70	565533.8	4222956	3.04E-07	3.71E-07	1.96E-08	6.95E-07	1.61E-07	4.07E-07	1.96E-08	5.88E-07	3.99E-08	7.26E-08	6.40E-09	1.19E-07	3.09E-08	4.04E-08	2.92E-09	7.42E-08
71	565645.8	4222927	3.62E-07	4.42E-07	2.33E-08	8.28E-07	1.92E-07	4.85E-07	2.33E-08	7.00E-07	4.76E-08	8.64E-08	7.63E-09	1.42E-07	3.68E-08	4.81E-08	3.48E-09	8.84E-08
72	565644.3	4222949	3.26E-07	3.98E-07	2.10E-08	7.46E-07	1.73E-07	4.37E-07	2.10E-08	6.31E-07	4.28E-08	7.78E-08	6.87E-09	1.28E-07	3.32E-08	4.33E-08	3.13E-09	7.96E-08
73	565632.9	4222952	3.16E-07	3.86E-07	2.04E-08	7.23E-07	1.68E-07	4.23E-07	2.04E-08	6.11E-07	4.15E-08	7.54E-08	6.66E-09	1.24E-07	3.21E-08	4.20E-08	3.04E-09	7.72E-08
74	565621.4	4222955	3.07E-07	3.75E-07	1.98E-08	7.02E-07	1.63E-07	4.11E-07	1.98E-08	5.94E-07	4.03E-08	7.33E-08	6.47E-09	1.20E-07	3.12E-08	4.08E-08	2.95E-09	7.50E-08
75	565610	4222957	3.10E-07	3.78E-07	1.99E-08	7.07E-07	1.64E-07	4.14E-07	1.99E-08	5.98E-07	4.06E-08	7.38E-08	6.52E-09	1.21E-07	3.15E-08	4.11E-08	2.97E-09	7.55E-08
76	565598.6	4222960	3.04E-07	3.71E-07	1.96E-08	6.94E-07	1.61E-07	4.07E-07	1.96E-08	5.87E-07	3.99E-08	7.25E-08	6.40E-09	1.19E-07	3.09E-08	4.04E-08	2.92E-09	7.42E-08
77	565587.1	4222963	2.98E-07	3.65E-07	1.92E-08	6.82E-07	1.58E-07	4.00E-07	1.92E-08	5.77E-07	3.92E-08	7.12E-08	6.29E-09	1.17E-07	3.03E-08	3.96E-08	2.87E-09	7.28E-08
78	565575.7	4222966	2.94E-07	3.59E-07	1.89E-08	6.73E-07	1.56E-07	3.94E-07	1.89E-08	5.69E-07	3.87E-08	7.02E-08	6.20E-09	1.15E-07	2.99E-08	3.91E-08	2.83E-09	7.18E-08
79	565552.8	4222971	2.89E-07	3.53E-07	1.86E-08	6.60E-07	1.53E-07	3.86E-07	1.86E-08	5.58E-07	3.79E-08	6.89E-08	6.08E-09	1.13E-07	2.93E-08	3.83E-08	2.77E-09	7.05E-08
80	565541.4	4222974	2.87E-07	3.50E-07	1.85E-08	6.56E-07	1.52E-07	3.84E-07	1.85E-08	5.55E-07	3.77E-08	6.84E-08	6.04E-09	1.12E-07	2.91E-08	3.81E-08	2.76E-09	7.00E-08
81	565530	4222977	2.85E-07	3.48E-07	1.83E-08	6.51E-07	1.51E-07	3.81E-07	1.83E-08	5.50E-07	3.74E-08	6.79E-08	6.00E-09	1.11E-07	2.89E-08	3.78E-08	2.74E-09	6.95E-08
82	565655.2	4222945	3.38E-07	4.12E-07	2.17E-08	7.72E-07	1.79E-07	4.52E-07	2.17E-08	6.53E-07	4.43E-08	8.05E-08	7.11E-09	1.32E-07	3.43E-08	4.48E-08	3.24E-09	8.24E-08
83	565642.4	4222969	2.99E-07	3.65E-07	1.92E-08	6.83E-07	1.59E-07	4.00E-07	1.92E-08	5.78E-07	3.93E-08	7.13E-08	6.30E-09	1.17E-07	3.04E-08	3.97E-08	2.87E-09	7.30E-08
84	565631	4222972	2.91E-07	3.56E-07	1.87E-08	6.66E-07	1.54E-07	3.90E-07	1.87E-08	5.63E-07	3.82E-08	6.95E-08	6.13E-09	1.14E-07	2.96E-08	3.87E-08	2.80E-09	7.11E-08
85	565619.7	4222975	2.84E-07	3.47E-07	1.83E-08	6.50E-07	1.51E-07	3.81E-07	1.83E-08	5.49E-07	3.73E-08	6.78E-08	5.99E-09	1.11E-07	2.89E-08	3.78E-08	2.73E-09	6.94E-08
86	565608.3	4222978	2.86E-07	3.49E-07	1.84E-08	6.54E-07	1.52E-07	3.83E-07	1.84E-08	5.53E-07	3.76E-08	6.83E-08	6.03E-09	1.12E-07	2.91E-08	3.80E-08	2.75E-09	6.98E-08
87	565597	4222981	2.82E-07	3.45E-07	1.82E-08	6.45E-07	1.50E-07	3.78E-07	1.82E-08	5.46E-07	3.71E-08	6.73E-08	5.94E-09	1.10E-07	2.87E-08	3.75E-08	2.71E-09	6.89E-08
88	565585.6	4222983	2.79E-07	3.41E-07	1.79E-08	6.37E-07	1.48E-07	3.73E-07	1.79E-08	5.39E-07	3.66E-08	6.65E-08	5.87E-09	1.09E-07	2.83E-08	3.70E-08	2.68E-09	6.81E-08
89	565551.6	4222992	2.72E-07	3.32E-07	1.75E-08	6.21E-07	1.44E-07	3.64E-07	1.75E-08	5.26E-07	3.57E-08	6.49E-08	5.72E-09	1.06E-07	2.76E-08	3.61E-08	2.61E-09	6.63E-08
90	565540.3	4222994	2.70E-07	3.30E-07	1.74E-08	6.18E-07	1.43E-07	3.62E-07	1.74E-08	5.22E-07	3.55E-08	6.45E-08	5.69E-09	1.06E-07	2.75E-08	3.59E-08	2.60E-09	6.60E-08
91	565528.9	4222997	2.68E-07	3.28E-07	1.73E-08	6.13E-07	1.42E-07	3.59E-07	1.73E-08	5.19E-07	3.52E-08	6.40E-08	5.65E-09	1.05E-07	2.73E-08	3.57E-08	2.58E-09	6.55E-08
92	565663.1	4222984	2.94E-07	3.59E-07	1.89E-08	6.71E-07	1.56E-07	3.93E-07	1.89E-08	5.68E-07	3.85E-08	7.00E-08	6.18E-09	1.15E-07	2.98E-08	3.90E-08	2.82E-09	7.16E-08
93	565651.9	4222987	2.86E-07	3.49E-07	1.84E-08	6.53E-07	1.51E-07	3.82E-07	1.84E-08	5.52E-07	3.75E-08	6.81E-08	6.01E-09	1.12E-07	2.90E-08	3.79E-08	2.74E-09	6.97E-08
94	565640.6	4222990	2.78E-07	3.40E-07	1.79E-08	6.36E-07	1.48E-07	3.73E-07	1.79E-08	5.38E-07	3.65E-08	6.64E-08	5.86E-09	1.09E-07	2.83E-08	3.70E-08	2.67E-09	6.79E-08
95	565629.3	4222993	2.72E-07	3.32E-07	1.75E-08	6.21E-07	1.44E-07	3.64E-07	1.75E-08	5.25E-07	3.57E-08	6.48E-08	5.72E-09	1.06E-07	2.76E-08	3.61E-08	2.61E-09	6.63E-08
96	565618.1	4222995	2.66E-07	3.25E-07	1.71E-08	6.08E-07	1.41E-07	3.56E-07	1.71E-08	5.14E-07	3.49E-08	6.35E-08	5.60E-09	1.04E-07	2.70E-08	3.53E-08	2.56E-09	6.49E-08
97	565606.8	4222998	2.67E-07	3.26E-07	1.72E-08	6.10E-07	1.41E-07	3.57E-07	1.72E-08	5.16E-07	3.50E-08	6.36E-08	5.62E-09	1.04E-07	2.71E-08	3.54E-08	2.56E-

108	565638.1	4223010	2.62E-07	3.20E-07	1.68E-08	5.98E-07	1.39E-07	3.50E-07	1.68E-08	5.06E-07	3.44E-08	6.24E-08	5.51E-09	1.02E-07	2.66E-08	3.48E-08	2.51E-09	6.39E-08
109	565626.7	4223013	2.56E-07	3.13E-07	1.65E-08	5.86E-07	1.36E-07	3.43E-07	1.65E-08	4.96E-07	3.37E-08	6.12E-08	5.40E-09	1.00E-07	2.61E-08	3.41E-08	2.46E-09	6.26E-08
110	565615.3	4223016	2.55E-07	3.12E-07	1.64E-08	5.84E-07	1.35E-07	3.42E-07	1.64E-08	4.94E-07	3.36E-08	6.10E-08	5.38E-09	9.99E-08	2.60E-08	3.39E-08	2.45E-09	6.24E-08
111	565603.8	4223019	2.53E-07	3.08E-07	1.63E-08	5.77E-07	1.34E-07	3.38E-07	1.63E-08	4.88E-07	3.32E-08	6.03E-08	5.32E-09	9.87E-08	2.57E-08	3.36E-08	2.43E-09	6.16E-08
112	565592.4	4223022	2.50E-07	3.05E-07	1.61E-08	5.71E-07	1.32E-07	3.35E-07	1.61E-08	4.83E-07	3.28E-08	5.96E-08	5.26E-09	9.77E-08	2.54E-08	3.32E-08	2.40E-09	6.10E-08
113	565581	4223024	2.48E-07	3.03E-07	1.59E-08	5.66E-07	1.31E-07	3.32E-07	1.59E-08	4.79E-07	3.25E-08	5.91E-08	5.22E-09	9.68E-08	2.52E-08	3.29E-08	2.38E-09	6.05E-08
114	565558.1	4223030	2.46E-07	3.01E-07	1.59E-08	5.63E-07	1.31E-07	3.30E-07	1.59E-08	4.77E-07	3.24E-08	5.88E-08	5.19E-09	9.64E-08	2.50E-08	3.27E-08	2.37E-09	6.02E-08
115	565546.7	4223033	2.45E-07	3.00E-07	1.58E-08	5.61E-07	1.30E-07	3.28E-07	1.58E-08	4.74E-07	3.22E-08	5.85E-08	5.17E-09	9.59E-08	2.49E-08	3.26E-08	2.36E-09	5.99E-08
116	565535.3	4223036	2.44E-07	2.98E-07	1.57E-08	5.57E-07	1.29E-07	3.26E-07	1.57E-08	4.71E-07	3.20E-08	5.82E-08	5.13E-09	9.53E-08	2.48E-08	3.24E-08	2.34E-09	5.95E-08
117	565683.3	4222998	2.88E-07	3.52E-07	1.86E-08	6.59E-07	1.53E-07	3.86E-07	1.86E-08	5.58E-07	3.79E-08	6.88E-08	6.08E-09	1.13E-07	2.93E-08	3.83E-08	2.77E-09	7.04E-08
118	565681.8	4223020	2.70E-07	3.30E-07	1.74E-08	6.17E-07	1.43E-07	3.62E-07	1.74E-08	5.22E-07	3.55E-08	6.44E-08	5.69E-09	1.06E-07	2.75E-08	3.59E-08	2.60E-09	6.59E-08
119	565670.5	4223022	2.65E-07	3.23E-07	1.70E-08	6.05E-07	1.40E-07	3.54E-07	1.70E-08	5.11E-07	3.47E-08	6.31E-08	5.57E-09	1.03E-07	2.69E-08	3.51E-08	2.54E-09	6.46E-08
120	565659.1	4223025	2.58E-07	3.16E-07	1.66E-08	5.91E-07	1.37E-07	3.46E-07	1.66E-08	5.00E-07	3.39E-08	6.17E-08	5.44E-09	1.01E-07	2.63E-08	3.43E-08	2.48E-09	6.31E-08
121	565647.8	4223028	2.53E-07	3.09E-07	1.63E-08	5.78E-07	1.34E-07	3.39E-07	1.63E-08	4.89E-07	3.32E-08	6.04E-08	5.33E-09	9.89E-08	2.57E-08	3.36E-08	2.43E-09	6.17E-08
122	565636.4	4223031	2.48E-07	3.03E-07	1.60E-08	5.67E-07	1.31E-07	3.32E-07	1.60E-08	4.80E-07	3.26E-08	5.92E-08	5.22E-09	9.70E-08	2.52E-08	3.29E-08	2.38E-09	6.05E-08
123	565625.1	4223034	2.44E-07	2.97E-07	1.57E-08	5.57E-07	1.29E-07	3.26E-07	1.57E-08	4.71E-07	3.20E-08	5.81E-08	5.13E-09	9.52E-08	2.48E-08	3.24E-08	2.34E-09	5.95E-08
124	565613.7	4223036	2.43E-07	2.97E-07	1.56E-08	5.55E-07	1.29E-07	3.25E-07	1.56E-08	4.69E-07	3.19E-08	5.79E-08	5.11E-09	9.49E-08	2.47E-08	3.23E-08	2.33E-09	5.93E-08
125	565602.4	4223039	2.41E-07	2.94E-07	1.55E-08	5.50E-07	1.28E-07	3.22E-07	1.55E-08	4.65E-07	3.16E-08	5.74E-08	5.07E-09	9.41E-08	2.45E-08	3.20E-08	2.31E-09	5.87E-08
126	565591	4223042	2.39E-07	2.92E-07	1.54E-08	5.46E-07	1.27E-07	3.20E-07	1.54E-08	4.62E-07	3.14E-08	5.70E-08	5.03E-09	9.34E-08	2.43E-08	3.17E-08	2.29E-09	5.83E-08
127	565579.7	4223045	2.38E-07	2.90E-07	1.53E-08	5.43E-07	1.26E-07	3.18E-07	1.53E-08	4.59E-07	3.12E-08	5.67E-08	5.00E-09	9.29E-08	2.41E-08	3.16E-08	2.28E-09	5.80E-08
128	565557	4223050	2.36E-07	2.88E-07	1.52E-08	5.40E-07	1.25E-07	3.16E-07	1.52E-08	4.56E-07	3.10E-08	5.63E-08	4.97E-09	9.23E-08	2.40E-08	3.14E-08	2.27E-09	5.76E-08
129	565545.6	4223053	2.35E-07	2.86E-07	1.51E-08	5.36E-07	1.24E-07	3.14E-07	1.51E-08	4.53E-07	3.08E-08	5.60E-08	4.94E-09	9.17E-08	2.38E-08	3.12E-08	2.25E-09	5.72E-08
130	565534.3	4223056	2.32E-07	2.84E-07	1.50E-08	5.31E-07	1.23E-07	3.11E-07	1.50E-08	4.49E-07	3.05E-08	5.55E-08	4.90E-09	9.09E-08	2.36E-08	3.09E-08	2.23E-09	5.67E-08
131	565692.7	4223015	2.77E-07	3.38E-07	1.78E-08	6.33E-07	1.47E-07	3.71E-07	1.78E-08	5.35E-07	3.64E-08	6.60E-08	5.83E-09	1.08E-07	2.81E-08	3.68E-08	2.66E-09	6.76E-08
132	565691.3	4223037	2.60E-07	3.18E-07	1.68E-08	5.95E-07	1.38E-07	3.49E-07	1.68E-08	5.04E-07	3.42E-08	6.21E-08	5.49E-09	1.02E-07	2.65E-08	3.46E-08	2.50E-09	6.36E-08
133	565680	4223040	2.55E-07	3.12E-07	1.64E-08	5.83E-07	1.35E-07	3.42E-07	1.64E-08	4.93E-07	3.35E-08	6.09E-08	5.37E-09	9.98E-08	2.59E-08	3.39E-08	2.45E-09	6.23E-08
134	565668.7	4223043	2.50E-07	3.05E-07	1.61E-08	5.71E-07	1.32E-07	3.34E-07	1.61E-08	4.83E-07	3.28E-08	5.96E-08	5.26E-09	9.77E-08	2.54E-08	3.32E-08	2.40E-09	6.10E-08
135	565657.4	4223046	2.45E-07	2.99E-07	1.57E-08	5.59E-07	1.30E-07	3.27E-07	1.57E-08	4.73E-07	3.21E-08	5.84E-08	5.15E-09	9.56E-08	2.49E-08	3.25E-08	2.35E-09	5.97E-08
136	565646.1	4223048	2.40E-07	2.93E-07	1.54E-08	5.48E-07	1.27E-07	3.21E-07	1.54E-08	4.64E-07	3.15E-08	5.72E-08	5.05E-09	9.38E-08	2.44E-08	3.19E-08	2.30E-09	5.86E-08
137	565634.9	4223051	2.36E-07	2.88E-07	1.52E-08	5.39E-07	1.25E-07	3.16E-07	1.52E-08	4.56E-07	3.10E-08	5.62E-08	4.96E-09	9.22E-08	2.40E-08	3.13E-08	2.26E-09	5.75E-08
138	565623.6	4223054	2.32E-07	2.83E-07	1.49E-08	5.30E-07	1.23E-07	3.10E-07	1.49E-08	4.48E-07	3.05E-08	5.53E-08	4.88E-09	9.07E-08	2.36E-08	3.08E-08	2.23E-09	5.66E-08
139	565612.3	4223057	2.32E-07	2.83E-07	1.49E-08	5.29E-07	1.23E-07	3.10E-07	1.49E-08	4.48E-07	3.04E-08	5.52E-08	4.88E-09	9.05E-08	2.35E-08	3.08E-08	2.22E-09	5.65E-08
140	565601	4223059	2.30E-07	2.81E-07	1.48E-08	5.27E-07	1.22E-07	3.08E-07	1.48E-08	4.45E-07	3.03E-08	5.50E-08	4.85E-09	9.01E-08	2.34E-08	3.06E-08	2.21E-09	5.62E-08
141	565589.7	4223062	2.29E-07	2.80E-07	1.47E-08	5.24E-07	1.21E-07	3.07E-07	1.47E-08	4.43E-07	3.01E-08	5.47E-08	4.83E-09	8.96E-08	2.33E-08	3.04E-08	2.20E-09	5.59E-08
142	565578.4	4223065	2.28E-07	2.78E-07	1.47E-08	5.21E-07	1.21E-07	3.05E-07	1.47E-08	4.41E-07	2.99E-08	5.44E-08	4.80E-09	8.92E-08	2.32E-08	3.03E-08	2.19E-09	5.57E-08
143	565555.9	4223070	2.26E-07	2.75E-07	1.45E-08	5.15E-07	1.20E-07	3.02E-07	1.45E-08	4.36E-07	2.96E-08	5.38E-08	4.75E-09	8.82E-08	2.29E-08	3.00E-08	2.17E-09	5.50E-08
144	565544.6	4223073	2.23E-07	2.73E-07	1.44E-08	5.11E-07	1.18E-07	2.99E-07	1.44E-08	4.32E-07	2.93E-08	5.33E-08	4.70E-09	8.73E-08	2.27E-08	2.97E-08	2.15E-09	5.45E-08
145	565533.3	4223076	2.21E-07	2.70E-07	1.42E-08	5.05E-07	1.17E-07	2.96E-07	1.42E-08	4.27E-07	2.90E-08	5.27E-08	4.65E-09	8.64E-08	2.25E-08	2.94E-08	2.12E-09	5.39E-08
146	565702.1	4223033	2.67E-07	3.26E-07	1.72E-08	6.10E-07	1.41E-07	3.57E-07	1.72E-08	5.16E-07	3.50E-08	6.37E-08	5.62E-09	1.04E-07	2.71E-08	3.54E-08	2.56E-09	6.51E-08
147	565529.9	4222867	4.68E-07	5.71E-07	3.01E-08	1.07E-06	2.48E-07	6.26E-07	3.01E-08	9.04E-07	6.14E-08	1.12E-07	9.85E-09	1.83E-07	4.75E-08	6.21E-08	4.49E-09	1.14E-07
148	565535.7	4222886	4.04E-07	4.93E-07	2.60E-08	9.23E-07	2.14E-07	5.41E-07	2.60E-08	7.81E-07	5.30E-08	9.64E-08	8.51E-09	1.58E-07	4.10E-08	5.37E-08	3.88E-09	9.86E-08
149	565541.5	4222906	3.72E-07	4.54E-07	2.39E-08	8.50E-07	1.97E-07	4.98E-07	2.39E-08	7.19E-07	4.88E-08	8.87E-08	7.83E-09	1.45E-07	3.78E-08	4.94E-08	3.57E-09	9.08E-08
150	565548.9	4222924	3.45E-07	4.21E-07	2.22E-08	7.88E-07	1.83E-07	4.62E-07	2.22E-08	6.67E-07	4.53E-08	8.23E-08	7.26E-09	1.35E-07	3.50E-08	4.58E-08	3.31E-09	8.42E-08
151	565593.6	4223078	2.22E-07	2.71E-07	1.43E-08	5.08E-07	1.18E-07	2.97E-07	1.43E-08	4.29E-07	2.92E-08	5.30E-08	4.68E-09	8.68E-08	2.26E-08	2.95E-08	2.13E-09	5.42E-08
152	565549.1	4222507	1.00E-05	1.22E-05	6.44E-07	2.29E-05	5.31E-06	1.34E-05	6.44E-07	1.93E-05	1.31E-06	2.39E-06	2.11E-07	3.91E-06	1.02E-06	1.33E-06	9.62E-08	2.44E-06
153	565543.1	4222521	8.83E-06	1.08E-05	5.68E-07	2.02E-05	4.68E-06	1.18E-05	5.68E-07	1.71E-05	1.16E-06	2.11E-06	1.86E-07	3.45E-06	8.97E-07	1.17E-06	8.48E-08	2.15E-06
154	565552.3	4222491	1.14E-05	1.40E-05	7.36E-07	2.61E-05	6.06E-06	1.53E-05	7.36E-07	2.21E-05	1.50E-06	2.73E-06	2.41E-07	4.47E-06	1.16E-06	1.52E-06	1.10E-07	2.79E-06
155	565552.5	4222482	1.23E-05	1.50E-05	7.93E-07	2.82E-05	6.53E-06	1.65E-05	7.93E-07	2.38E-05	1.62E-06	2.94E-06	2.59E-07	4.82E-06	1.25E-06	1.64E-06	1.18E-07	3.01E-06
156	565552.7	4222473	1.32E-05	1.61E-05	8.50E-07	3.02E-05	7.00E-06	1.77E-05	8.50E-07	2.55E-05	1.73E-06	3.15E-06	2.78E-07	5.16E-06	1.34E-06	1.75E-06	1.27E-07	3.22E-06
157	565558.3	4222509	9.43E-06	1.15E-05	6.07E-07	2.16E-05	5.00E-06	1.26E-05	6.07E-07	1.82E-05	1.24E-06	2.25E-06	1.99E-07	3.69E-06	9.59E-07	1.25E-06	9.06E-08	2.30E-06
158	565551.1	4222525	8.20E-06	1.00E-05	5.28E-07	1.87E-05	4.35E-06	1.10E-05	5.28E-07	1.59E-05	1.08E-06	1.96E-06	1.73E-07	3.21E-06	8.33E-07	1.09E-06	7.88E-08	2.00E-06
159	565547.5	4222533	7.54E-06	9.21E-06	4.85E-07	1.72E-05	4.00E-06	1.01E-05	4.85E-07	1.46E-05	9.90E-07	1.80E-06	1.59E-07	2.95E-06	7.66E-07	1.00E-06	7.25E-08	1.84E-06
160	565561.9	4222501	9.98E-06	1.22E-05	6.43E-07	2.28E-05	5.29E-06	1.34E-05	6.43E-07	1.93E-05	1.31E-06	2.38E-06	2.10E-07	3.90E-06	1.01E-06	1.33E-06	9.59E-08	2.44E-06
161	565562.1	4222492	1.08E-05	1.31E-05	6.93E-07	2.46E-05	5.70E-06	1.44E-05	6.93E-07	2.08E-05	1.41E-06	2.57E-06	2.27E-07	4.21E-06	1.09E-06	1.43E-06	1.03E-07	2.63E-06
162	565562.3	4222483	1.15E-05	1.41E-05	7.42E-07	2.64E-05	6.12E-06	1.54E-05	7.42E-07	2.23E-05	1.52E-06	2.75E-06	2.43E-07	4.51E-06	1.17E-06	1.53E-06	1.11E-07	2.82E-06
163	565562.6	4222473	1.23E-05	1.50E-05	7.92E-07	2.81E-05	6.53E-06	1.65E-05	7.92E-07	2.38E-05	1.62E-06	2.94E-06	2.59E-07	4.81E-06	1.25E-06	1.64E-06	1.18E-07	3.00E-06
164	565568.2	4222509	9.02E-06	1.10E-05	5.80E-07	2.06E-05	4.78E-06	1.21E-05	5.80E-07	1.74E-05	1.18E-06	2.15E-06	1.90E-07	3.53E-06	9.16E-07	1.20E-06	8.66E-08	2.20E-06
165	565561.3	4222525	7.98E-06	9.75E-06	5.14E-07	1.82E-05	4.23E-06	1.07E-05	5.14E-07	1.54E-05	1.05E-06	1.90E-06	1.68E-07	3.12E-06	8.11E-07	1.06E-06	7.67E-08	1.95E-06
166	565554.3	4222541	6.85E-06	8.37E-06	4.41E-07	1.57E-05	3.63E-06	9.18E-06	4.41E-07	1.33E-05	9.00E-07	1.64E-06	1.44E-07	2.68E-06	6.97E-07	9.10E-07	6.59E-08	1.67E-06
167	565542.7	4222552	6.07E-06	7.41E-06	3.91E-07	1.39E-05	3.22E-06	8.13E-06	3.91E-07	1.17E-05	7.97E-07	1.45E-06	1.28E-07	2.37E-06	6.17E-07	8.06E-07	5.83E-08	1.48E-06
168	565572	4222492	1.02E-05	1.24E-05	6.54E-07	2.32E-05	5.39E-06	1.36E-05	6.54E-07	1.97E-05	1.33E-06	2.42E-06	2.14E-07	3.97E-06	1.03E-06	1.35E-06	9.76E-08	2.48E-06
169	565572.2	4222483	1.08E-05	1.32E-05	6.98E-07	2.48E-05	5.75E-06	1.45E-05	6.98E-07	2.10E-05	1.42E-06	2.59E-06	2.28E-07	4.24E-06	1.10E-06	1.44E-06	1.04E-07	2.65E-06
170	565572.4	4222474	1.15E-05	1.41E-05	7.42E-07	2.63E-05	6.11E-06	1.54E-05	7.42E-07	2.23E-05	1.51E-06	2.75E-06	2.43E-07	4.51E-06	1.17E-06	1.53E-06	1.11E-07	2.81E-06
171	565578.1	4222509	8.62E-06	1.05E-05	5.55E-07	1.97E-05	4.57E-06	1.15E-05	5.55E-07	1.67E-05	1.13E-06	2.06E-06	1.82E-07	3.37E-06	8.76E-07	1.15E-06	8.29E-08	2.11E-06
172	565571.3	4222525	7.74E-06	9.46E-06	4.98E-07	1.77E-05	4.11E-06	1.04E-05	4.98E-07	1.50E-05	1.02E-06	1.85E-06	1.63E-07	3.03E-06	7.87E-07	1.03E-06	7.44E-08	1.89E-06
173	565564.5	4222540	6.77E-06	8.27E-06	4.36E-07	1.55E-05	3.59E-06	9.07E-06	4.36E-07	1.31E-05	8.89E-07	1.62E-06	1.43E-07	2.65E-06	6.88E-07	9.00E-07	6.51E-08	1.65E-06
174	565549.7	4222559	5.58E-06	6.81E-06	3.59E-07	1.28E-05	2.96E-06	7.47E-06	3.59E-07	1.08E-05	7.33E-07	1.33E-06	1.18E-07	2.18E-06	5.67E-07	7.41E-07	5.36E-08	1.36E-06
175	565581.8	4222492	9.62E-06	1.18E-05	6.19E-07	2.20E-05	5.10E-06	1.29E-05	6.19E-07	1.86E-05	1.26E-06	2.30E-06	2.03E-07	3.76E-06	9.78E-07	1.28E-06	9.25E-08	2.35E-06
176	565582	4222483	1.02E-05	1.25E-05	6.58E-07	2.34E-05	5.42E-06	1.37E-05	6.58E-07	1.98E-05	1.34E-06	2.44E-06	2.15E-07	4.00E-06	1.04E-06	1.36E-06	9.83E-08	2.50E-06
177	565582.2	4222474	1.08E-05	1.32E-05	6.97E-07	2.47E-05	5.74E-06	1.45E-05	6.97E-07	2.09E-05	1.42E-06	2.58E-06	2.28E-07	4.23E-06	1.10E-06	1.44E-06	1.04E-07	2.64E-06
178	565581.3	4222524	7.49E-06	9.15E-06	4.82E-07	1.71E-05	3.97E-06	1.00E-05	4.82E-07	1.45E-05	9.84E-07	1.79E-06	1.58E-07	2.93E-06	7.62E-07	9.96E-07	7.20E-08	1.83E-06
179	565574.6	4222540	6.65E-06	8.13E-06	4.28E-07	1.52E-05	3.53E-06	8.91E-06	4.28E-07	1.29E-05	8.74E-07	1.59E-06	1.40E-07	2.60E-06	6.76E-07	8.84E-07	6.39E-08	1.62E-06
180	565567.8	4222555	5.77E-06	7.05E-06	3.71E-07	1.32E-05	3.06E-06	7.73E-06	3.71E-07	1.12E-05	7.58E-07	1.38E-06	1.22E-07	2.26E-06	5.87E-07	7.67E-07	5.55E-08	1.41E-06
181	565556.6	4222566	5.16E-06	6.30E-06	3.32E-07	1.18E-05	2.73E-06	6.90E-06	3.32E-07	9.97E-06	6.77E-07	1.23E-06	1.09E-07	2.02E-06	5.24E-07	6.85E-07	4.95E-08	1.26E-06
182	565541	4222572	4.73E-06	5.78E-06	3.05E-07	1.08E-05	2.51E-06	6.34E-06	3.05E-07	9.15E-06	6.22E-07	1.13E-06	9.97E-08	1.85E-06	4.81E-07	6.29E-07	4.55E-08	1.16E-06
183	565577.9	4222555	5.73E-06	7.00E-06	3.69E-07	1.31E-05	3.04E-06	7.67E-06	3.69E-07	1.11E-05	7.53E-07	1.37E-06	1.21E-07	2.24E-06	5.82E-07	7.61E-07	5.51E-08	1.40E-06
184	565563.6	4222573	4.78E-06	5.84E-06	3.08E-07	1.09E-05	2.54E-06	6.41E-06	3.08E-07	9.25E-06	6.28E-07	1.14E-06	1.01E-07	1.87E-06	4.86E-07	6.36E-07	4.60E-08	1.17E-06
185	565548.2	4222579	4.40E-06	5.38E-06	2.83E-07	1.01E-05	2.33E-06	5.89E-06	2.83E-07	8.51E-06	5.78E-07	1.05E-06	9.27E-08	1.72E-06	4.47E-07	5.85E-07	4.23E-08	1.07E-06
186	565601.5	4222493	8.67E-06	1.06E-05	5.58E-07	1.98E-05	4.60E-06	1.16E-05	5.58E-07	1.68E-05	1.14E-06	2.07E-06	1.83E-07	3.39E-06	8.81E-07	1.15E-06	8.33E-08	2.12E-06
187	565607.8	4222509	7.57E-06	9.25E-06	4.88E-07	1.73E-05	4.02E-06	1.01E-05	4.88E-07	1.46E-05	9.95E-07	1.81E-06	1.60E-07	2.96E-06	7.70E-07	1.01E-06	7.28E-08	1.85E-06
188	565601.2	4222524	7.00E-06	8.55E-06	4.51E-07	1.60E-05	3.71E-06	9.37E-06	4.51E-07	1.35E-05	9.19E-07	1.67E-06	1.47E-07	2.74E-06	7.11E-07	9.30E-07	6.73E-08	1.71E-06
189	565570.5	4222580	4.46E-06	5.44E-06	2.87E-07	1.02E-05	2.36E-06	5.97E-06	2.87E-07	8.62E-06	5.85E-07	1.06E-06	9.38E-08	1.74E-06	4.53E-07	5.92E-07	4.28E-08	1.09E-06
190	565555.2	4222586	4.11E-06	5.02E-06	2.64E-07	9.39E-06	2.18E-06	5.50E-06	2.64E-07	7.95E-06	5.40E-07	9.80E-07	8.65E-08	1.61E-06	4.18E-07	5.46E-07	3.95E-08	1.00E-06
191	565540	4222592	3.72E-06	4.54E-06	2.39E-07	8.50E-06	1.97E-06	4.98E-06	2.39E-07	7.19E-06	4.88E-07	8.87E-07	7.83E-08	1.45E-06	3.78E-07	4.94E-07	3.57E-08	9.07E-07
192	565611.3	4222493	8.25E-06	1.01E-05	5.31E-07	1.89E-05	4.37E-06	1.10E-05	5.31E-07	1.60E-05	1.08E-06	1.97E-06	1.74E-07	3.23E-06	8.38E-07	1.10E-06	7.93E-08	2.01E-06
193	565611.5	4222484	8.67E-06	1.06E-05	5.58E-07	1.98E-05	4.60E-06	1.16E-05	5.58E-07	1.68E-05	1.14E-06	2.07E-06	1.83E-07	3.39E-06	8.81E-07	1.15E-06	8.33E-08	2.12E-06
194	565611.7	4222475	9.08E-06	1.11E-05	5.85E-07	2.08E-05	4.82E-06	1.22E-05	5.85E-07	1.76E-05	1.19E-06	2.17E-06	1.91E-07	3.55E-06	9.23E-07	1.21E-06	8.73E-08	2.22E-06
195	565617.3	4222510	7.24E-06	8.84E-06	4.66E-07	1.65E-05	3.84E-06	9.69E-06	4.66E-07	1.40E-05	9.50E-07	1.73E-06	1.52E-07	2.83E-06	7.35E-07	9.61E-07	6.95E-08	1.77E-06
196	565613.7	4222518	6.97E-06	8.51E-06	4.49E-07	1.59E-05	3.69E-06	9.33E-06	4.49E-07	1.35E-05	9.15E-07	1.66E-06	1.47E-07	2.72E-06	7.08E-07	9.26E-07	6.70E-08	1.70E-06
197	565606.5	4222535	6.37E-06	7.78E-06	4.10E-07	1.46E-05	3.38E-06	8.53E-06	4.10E-07	1.23E-05	8.36E-07	1.52E-06	1.34E-07	2.49E-06	6.47E-07	8.46E-07	6.12E-08	1.55E-06
198	565599.3	4222551	5.70E-06	6.96E-06	3.67E-07	1.30E-05	3.02E-06	7.63E-06	3.67E-07	1.10E-05	7.49E-07	1.36E-06	1.20E-07	2.23E-06	5.79E-07	7.57E-07	5.48E-08	1.39E-06
199	565595.8	4222559	5.35E-06	6.54E-06	3.44E-07	1.22E-05	2.84E-06	7.17E-06	3.44E-07	1.03E-05	7.03E-07	1.28E-06	1.13E-07	2.09E-06	5.44E-07	7.11E-07	5.14E-08	1.31E-06
200	565576.6	4222587	4.15E-06	5.07E-06	2.67E-07	9.48E-06	2.20E-06	5.56E-06	2.67E-07	8.02E-06	5.45E-07	9.90E-07	8.74E-08	1.62E-06	4.22E-07	5.51E-07	3.99E-08	1.01E-06
201	565560	4222594	3.80E-06	4.64E-06	2.44E-07	8.68E-06	2.01E-06	5.09E-06	2.44E-07	7.34E-06	4.99E-07	9.06E-07	8.00E-08	1.49E-06	3.86E-07	5.05E-07	3.65E-08	9.27E-07
202	565551.7	4222597	3.60E-06	4.40E-06	2.32E-07	8.24E-06	1.91E-06	4.83E-06	2.32E-07	6.97E-06	4.73E-07	8.60E-07	7.59E-08	1.41E-06	3.66E-07	4.79E-07	3.46E-08	8.80E-07
203	565621.1	4222493	7.86E-06	9.59E-06	5.06E-07	1.80E-05	4.17E-06	1.05E-05	5.06E-07	1.52E-05	1.03E-06	1.87E-06	1.65E-07	3.07E-06	7.98E-07	1.04E-06	7.55E-08	1.92E-06
204	565621.3	4222484	8.23E-06	1.00E-05	5.29E-07	1.88E-05	4.36E-06	1.10E-05	5.29E-07	1.59E-05	1.08E-06	1.96E-06	1.73E-07	3.22E-06	8.36E-07	1.09E-06	7.90E-08	2.01E-06
205	565621.6	4222475	8.59E-06	1.05E-05	5.53E-07	1.96E-05	4.55E-06	1.15E-05	5.53E-07	1.66E-05	1.13E-06	2.05E-06	1.81E-07	3.36E-06	8.73E-07	1.14E-06

218	565623.1	4222542	5.74E-06	7.02E-06	3.70E-07	1.31E-05	3.05E-06	7.69E-06	3.70E-07	1.11E-05	7.54E-07	1.37E-06	1.21E-07	2.25E-06	5.84E-07	7.63E-07	5.52E-08	1.40E-06
219	565616.1	4222558	5.21E-06	6.36E-06	3.35E-07	1.19E-05	2.76E-06	6.98E-06	3.35E-07	1.01E-05	6.84E-07	1.24E-06	1.10E-07	2.04E-06	5.30E-07	6.92E-07	5.01E-08	1.27E-06
220	565602.1	4222590	4.06E-06	4.96E-06	2.62E-07	9.29E-06	2.15E-06	5.44E-06	2.62E-07	7.86E-06	5.34E-07	9.70E-07	8.56E-08	1.59E-06	4.13E-07	5.40E-07	3.90E-08	9.92E-07
221	565590.6	4222601	3.66E-06	4.47E-06	2.35E-07	8.36E-06	1.94E-06	4.90E-06	2.35E-07	7.07E-06	4.80E-07	8.72E-07	7.70E-08	1.43E-06	3.72E-07	4.86E-07	3.51E-08	8.92E-07
222	565574.4	4222608	3.37E-06	4.11E-06	2.17E-07	7.70E-06	1.79E-06	4.51E-06	2.17E-07	6.51E-06	4.42E-07	8.04E-07	7.10E-08	1.32E-06	3.42E-07	4.48E-07	3.24E-08	8.22E-07
223	565558.2	4222614	3.05E-06	3.72E-06	1.96E-07	6.97E-06	1.62E-06	4.08E-06	1.96E-07	5.89E-06	4.00E-07	7.27E-07	6.42E-08	1.19E-06	3.10E-07	4.05E-07	2.93E-08	7.44E-07
224	565542	4222621	2.71E-06	3.31E-06	1.75E-07	6.20E-06	1.44E-06	3.63E-06	1.75E-07	5.25E-06	3.56E-07	6.47E-07	5.71E-08	1.06E-06	2.76E-07	3.60E-07	2.61E-08	6.62E-07
225	565640.8	4222493	7.14E-06	8.72E-06	4.59E-07	1.63E-05	3.78E-06	9.56E-06	4.59E-07	1.38E-05	9.37E-07	1.70E-06	1.50E-07	2.79E-06	7.25E-07	9.48E-07	6.86E-08	1.74E-06
226	565641	4222484	7.43E-06	9.08E-06	4.78E-07	1.70E-05	3.94E-06	9.95E-06	4.78E-07	1.44E-05	9.76E-07	1.77E-06	1.57E-07	2.91E-06	7.55E-07	9.87E-07	7.14E-08	1.81E-06
227	565641.2	4222475	7.71E-06	9.42E-06	4.96E-07	1.76E-05	4.09E-06	1.03E-05	4.96E-07	1.49E-05	1.01E-06	1.84E-06	1.62E-07	3.02E-06	7.84E-07	1.02E-06	7.41E-08	1.88E-06
228	565647	4222511	6.38E-06	7.80E-06	4.11E-07	1.46E-05	3.39E-06	8.55E-06	4.11E-07	1.23E-05	8.39E-07	1.52E-06	1.34E-07	2.50E-06	6.49E-07	8.48E-07	6.13E-08	1.56E-06
229	565640.1	4222526	6.02E-06	7.35E-06	3.88E-07	1.38E-05	3.19E-06	8.06E-06	3.88E-07	1.16E-05	7.91E-07	1.44E-06	1.27E-07	2.35E-06	6.12E-07	8.00E-07	5.79E-08	1.47E-06
230	565633.1	4222542	5.59E-06	6.83E-06	3.60E-07	1.28E-05	2.96E-06	7.49E-06	3.60E-07	1.08E-05	7.34E-07	1.33E-06	1.18E-07	2.19E-06	5.68E-07	7.43E-07	5.37E-08	1.36E-06
231	565626.2	4222558	5.11E-06	6.24E-06	3.29E-07	1.17E-05	2.71E-06	6.84E-06	3.29E-07	9.88E-06	6.71E-07	1.22E-06	1.08E-07	2.00E-06	5.19E-07	6.79E-07	4.91E-08	1.25E-06
232	565612.4	4222589	4.08E-06	4.98E-06	2.62E-07	9.32E-06	2.16E-06	5.46E-06	2.62E-07	7.88E-06	5.35E-07	9.73E-07	8.59E-08	1.59E-06	4.14E-07	5.42E-07	3.92E-08	9.95E-07
233	565597.5	4222608	3.45E-06	4.21E-06	2.22E-07	7.87E-06	1.83E-06	4.61E-06	2.22E-07	6.66E-06	4.52E-07	8.22E-07	7.26E-08	1.35E-06	3.50E-07	4.58E-07	3.31E-08	8.41E-07
234	565565.5	4222621	2.89E-06	3.53E-06	1.86E-07	6.61E-06	1.53E-06	3.87E-06	1.86E-07	5.59E-06	3.80E-07	6.90E-07	6.09E-08	1.13E-06	2.94E-07	3.84E-07	2.78E-08	7.06E-07
235	565549.5	4222628	2.59E-06	3.16E-06	1.67E-07	5.92E-06	1.37E-06	3.47E-06	1.67E-07	5.01E-06	3.40E-07	6.18E-07	5.45E-08	1.01E-06	2.63E-07	3.44E-07	2.49E-08	6.32E-07
236	565533.5	4222634	2.29E-06	2.80E-06	1.47E-07	5.23E-06	1.21E-06	3.06E-06	1.47E-07	4.43E-06	3.01E-07	5.46E-07	4.82E-08	8.95E-07	2.33E-07	3.04E-07	2.20E-08	5.59E-07
237	565650.6	4222494	6.81E-06	8.31E-06	4.38E-07	1.56E-05	3.61E-06	9.12E-06	4.38E-07	1.32E-05	8.94E-07	1.62E-06	1.43E-07	2.66E-06	6.92E-07	9.04E-07	6.54E-08	1.66E-06
238	565650.9	4222485	7.07E-06	8.63E-06	4.55E-07	1.62E-05	3.75E-06	9.46E-06	4.55E-07	1.37E-05	9.28E-07	1.69E-06	1.49E-07	2.76E-06	7.18E-07	9.39E-07	6.79E-08	1.73E-06
239	565651.1	4222476	7.31E-06	8.93E-06	4.71E-07	1.67E-05	3.88E-06	9.79E-06	4.71E-07	1.41E-05	9.61E-07	1.75E-06	1.54E-07	2.86E-06	7.43E-07	9.72E-07	7.03E-08	1.79E-06
240	565656.8	4222511	6.12E-06	7.48E-06	3.94E-07	1.40E-05	3.25E-06	8.20E-06	3.94E-07	1.18E-05	8.04E-07	1.46E-06	1.29E-07	2.39E-06	6.22E-07	8.14E-07	5.88E-08	1.49E-06
241	565650	4222526	5.81E-06	7.10E-06	3.74E-07	1.33E-05	3.08E-06	7.78E-06	3.74E-07	1.12E-05	7.63E-07	1.39E-06	1.22E-07	2.27E-06	5.91E-07	7.72E-07	5.58E-08	1.42E-06
242	565643.1	4222542	5.44E-06	6.64E-06	3.50E-07	1.24E-05	2.88E-06	7.28E-06	3.50E-07	1.05E-05	7.14E-07	1.30E-06	1.14E-07	2.13E-06	5.52E-07	7.22E-07	5.22E-08	1.33E-06
243	565636.3	4222558	5.01E-06	6.12E-06	3.22E-07	1.14E-05	2.66E-06	6.71E-06	3.22E-07	9.68E-06	6.58E-07	1.19E-06	1.05E-07	1.96E-06	5.09E-07	6.65E-07	4.81E-08	1.22E-06
244	565622.6	4222589	4.06E-06	4.96E-06	2.62E-07	9.29E-06	2.15E-06	5.44E-06	2.62E-07	7.86E-06	5.34E-07	9.69E-07	8.56E-08	1.59E-06	4.13E-07	5.40E-07	3.90E-08	9.92E-07
245	565615.7	4222605	3.59E-06	4.39E-06	2.31E-07	8.21E-06	1.90E-06	4.81E-06	2.31E-07	6.95E-06	4.72E-07	8.57E-07	7.57E-08	1.40E-06	3.65E-07	4.77E-07	3.45E-08	8.77E-07
246	565604.4	4222616	3.25E-06	3.97E-06	2.09E-07	7.43E-06	1.72E-06	4.36E-06	2.09E-07	6.29E-06	4.27E-07	7.76E-07	6.85E-08	1.27E-06	3.31E-07	4.32E-07	3.13E-08	7.94E-07
247	565572.7	4222628	2.75E-06	3.36E-06	1.77E-07	6.28E-06	1.46E-06	3.68E-06	1.77E-07	5.31E-06	3.61E-07	6.56E-07	5.79E-08	1.07E-06	2.79E-07	3.65E-07	2.64E-08	6.71E-07
248	565556.9	4222634	2.47E-06	3.02E-06	1.59E-07	5.65E-06	1.31E-06	3.31E-06	1.59E-07	4.78E-06	3.25E-07	5.90E-07	5.21E-08	9.67E-07	2.51E-07	3.28E-07	2.38E-08	6.03E-07
249	565541	4222641	2.20E-06	2.68E-06	1.41E-07	5.02E-06	1.17E-06	2.94E-06	1.41E-07	4.25E-06	2.89E-07	5.24E-07	4.63E-08	8.59E-07	2.23E-07	2.92E-07	2.11E-08	5.36E-07
250	565660.5	4222494	6.49E-06	7.93E-06	4.18E-07	1.48E-05	3.44E-06	8.69E-06	4.18E-07	1.26E-05	8.53E-07	1.55E-06	1.37E-07	2.54E-06	6.60E-07	8.63E-07	6.24E-08	1.58E-06
251	565660.7	4222485	6.72E-06	8.21E-06	4.33E-07	1.54E-05	3.56E-06	9.00E-06	4.33E-07	1.30E-05	8.83E-07	1.60E-06	1.42E-07	2.63E-06	6.83E-07	8.93E-07	6.46E-08	1.64E-06
252	565660.9	4222476	6.94E-06	8.48E-06	4.47E-07	1.59E-05	3.68E-06	9.30E-06	4.47E-07	1.34E-05	9.12E-07	1.66E-06	1.46E-07	2.71E-06	7.06E-07	9.22E-07	6.67E-08	1.69E-06
253	565666.7	4222511	5.88E-06	7.18E-06	3.78E-07	1.34E-05	3.11E-06	7.87E-06	3.78E-07	1.14E-05	7.72E-07	1.40E-06	1.24E-07	2.30E-06	5.97E-07	7.81E-07	5.64E-08	1.43E-06
254	565659.9	4222526	5.61E-06	6.85E-06	3.61E-07	1.28E-05	2.97E-06	7.51E-06	3.61E-07	1.08E-05	7.36E-07	1.34E-06	1.18E-07	2.19E-06	5.70E-07	7.45E-07	5.39E-08	1.37E-06
255	565653.1	4222542	5.28E-06	6.45E-06	3.40E-07	1.21E-05	2.80E-06	7.07E-06	3.40E-07	1.02E-05	6.93E-07	1.26E-06	1.11E-07	2.06E-06	5.36E-07	7.01E-07	5.07E-08	1.29E-06
256	565646.3	4222557	4.90E-06	5.98E-06	3.15E-07	1.12E-05	2.60E-06	6.56E-06	3.15E-07	9.47E-06	6.43E-07	1.17E-06	1.03E-07	1.92E-06	4.98E-07	6.51E-07	4.71E-08	1.20E-06
257	565632.7	4222588	4.04E-06	4.94E-06	2.60E-07	9.24E-06	2.14E-06	5.41E-06	2.60E-07	7.82E-06	5.31E-07	9.65E-07	8.52E-08	1.58E-06	4.11E-07	5.37E-07	3.89E-08	9.87E-07
258	565626	4222604	3.60E-06	4.40E-06	2.32E-07	8.23E-06	1.91E-06	4.82E-06	2.32E-07	6.96E-06	4.73E-07	8.59E-07	7.58E-08	1.41E-06	3.66E-07	4.78E-07	3.46E-08	8.79E-07
259	565611.3	4222623	3.08E-06	3.76E-06	1.98E-07	7.03E-06	1.63E-06	4.12E-06	1.98E-07	5.95E-06	4.04E-07	7.34E-07	6.48E-08	1.20E-06	3.13E-07	4.09E-07	2.96E-08	7.51E-07
260	565595.6	4222629	2.86E-06	3.49E-06	1.84E-07	6.53E-06	1.51E-06	3.83E-06	1.84E-07	5.52E-06	3.75E-07	6.82E-07	6.02E-08	1.12E-06	2.90E-07	3.80E-07	2.75E-08	6.97E-07
261	565564.2	4222641	2.36E-06	2.88E-06	1.52E-07	5.40E-06	1.25E-06	3.16E-06	1.52E-07	4.57E-06	3.10E-07	5.64E-07	4.97E-08	9.23E-07	2.40E-07	3.14E-07	2.27E-08	5.76E-07
262	565548.5	4222648	2.11E-06	2.58E-06	1.36E-07	4.83E-06	1.12E-06	2.83E-06	1.36E-07	4.08E-06	2.77E-07	5.04E-07	4.45E-08	8.26E-07	2.15E-07	2.81E-07	2.03E-08	5.15E-07
263	565532.7	4222654	1.87E-06	2.29E-06	1.21E-07	4.28E-06	9.93E-07	2.51E-06	1.21E-07	3.62E-06	2.46E-07	4.47E-07	3.94E-08	7.32E-07	1.90E-07	2.49E-07	1.80E-08	4.57E-07
264	565670.3	4222494	6.20E-06	7.57E-06	3.99E-07	1.42E-05	3.29E-06	8.30E-06	3.99E-07	1.20E-05	8.14E-07	1.48E-06	1.31E-07	2.42E-06	6.30E-07	8.23E-07	5.95E-08	1.51E-06
265	565670.5	4222485	6.40E-06	7.82E-06	4.12E-07	1.46E-05	3.39E-06	8.57E-06	4.12E-07	1.24E-05	8.40E-07	1.53E-06	1.35E-07	2.50E-06	6.50E-07	8.50E-07	6.15E-08	1.56E-06
266	565670.7	4222476	6.59E-06	8.05E-06	4.24E-07	1.51E-05	3.50E-06	8.83E-06	4.24E-07	1.27E-05	8.66E-07	1.57E-06	1.39E-07	2.58E-06	6.70E-07	8.76E-07	6.34E-08	1.61E-06
267	565676.3	4222512	5.63E-06	6.88E-06	3.62E-07	1.29E-05	2.99E-06	7.54E-06	3.62E-07	1.09E-05	7.39E-07	1.34E-06	1.19E-07	2.20E-06	5.72E-07	7.48E-07	5.41E-08	1.37E-06
268	565672.7	4222520	5.51E-06	6.73E-06	3.55E-07	1.26E-05	2.92E-06	7.38E-06	3.55E-07	1.07E-05	7.24E-07	1.32E-06	1.16E-07	2.16E-06	5.60E-07	7.33E-07	5.30E-08	1.35E-06
269	565665.6	4222536	5.23E-06	6.39E-06	3.37E-07	1.20E-05	2.77E-06	7.01E-06	3.37E-07	1.01E-05	6.87E-07	1.25E-06	1.10E-07	2.05E-06	5.32E-07	6.95E-07	5.03E-08	1.28E-06
270	565662	4222544	5.07E-06	6.19E-06	3.26E-07	1.16E-05	2.69E-06	6.79E-06	3.26E-07	9.80E-06	6.66E-07	1.21E-06	1.07E-07	1.98E-06	5.15E-07	6.73E-07	4.87E-08	1.24E-06
271	565640.4	4222594	3.86E-06	4.72E-06	2.49E-07	8.83E-06	2.05E-06	5.17E-06	2.49E-07	7.47E-06	5.07E-07	9.21E-07	8.13E-08	1.51E-06	3.92E-07	5.13E-07	3.71E-08	9.42E-07
272	565636.8	4222602	3.64E-06	4.45E-06	2.34E-07	8.33E-06	1.93E-06	4.88E-06	2.34E-07	7.04E-06	4.78E-07	8.69E-07	7.67E-08	1.42E-06	3.70E-07	4.84E-07	3.50E-08	8.89E-07
273	565629.6	4222618	3.21E-06	3.92E-06	2.07E-07	7.34E-06	1.70E-06	4.30E-06	2.07E-07	6.21E-06	4.22E-07	7.66E-07	6.76E-08	1.26E-06	3.26E-07	4.27E-07	3.09E-08	7.84E-07
274	565617.7	4222630	2.91E-06	3.56E-06	1.87E-07	6.65E-06	1.54E-06	3.90E-06	1.87E-07	5.63E-06	3.82E-07	6.95E-07	6.13E-08	1.14E-06	2.96E-07	3.87E-07	2.80E-08	7.11E-07
275	565601	4222636	2.69E-06	3.29E-06	1.73E-07	6.15E-06	1.43E-06	3.60E-06	1.73E-07	5.20E-06	3.54E-07	6.42E-07	5.67E-08	1.05E-06	2.74E-07	3.58E-07	2.59E-08	6.57E-07
276	565592.7	4222640	2.57E-06	3.14E-06	1.66E-07	5.88E-06	1.36E-06	3.45E-06	1.66E-07	4.98E-06	3.38E-07	6.14E-07	5.42E-08	1.01E-06	2.62E-07	3.42E-07	2.47E-08	6.28E-07
277	565559.5	4222653	2.08E-06	2.54E-06	1.34E-07	4.76E-06	1.10E-06	2.79E-06	1.34E-07	4.02E-06	2.73E-07	4.97E-07	4.38E-08	8.14E-07	2.12E-07	2.77E-07	2.00E-08	5.08E-07
278	565551.1	4222656	1.96E-06	2.40E-06	1.26E-07	4.48E-06	1.04E-06	2.63E-06	1.26E-07	3.79E-06	2.58E-07	4.68E-07	4.13E-08	7.67E-07	1.99E-07	2.61E-07	1.88E-08	4.79E-07
279	565534.5	4222663	1.73E-06	2.11E-06	1.11E-07	3.96E-06	9.18E-07	2.32E-06	1.11E-07	3.35E-06	2.27E-07	4.13E-07	3.65E-08	6.77E-07	1.76E-07	2.30E-07	1.66E-08	4.23E-07
280	565680.1	4222494	5.92E-06	7.23E-06	3.81E-07	1.35E-05	3.14E-06	7.92E-06	3.81E-07	1.14E-05	7.77E-07	1.41E-06	1.25E-07	2.31E-06	6.01E-07	7.86E-07	5.69E-08	1.44E-06
281	565680.4	4222485	6.10E-06	7.45E-06	3.92E-07	1.39E-05	3.23E-06	8.16E-06	3.92E-07	1.18E-05	8.01E-07	1.45E-06	1.28E-07	2.38E-06	6.20E-07	8.10E-07	5.86E-08	1.49E-06
282	565680.6	4222476	6.27E-06	7.66E-06	4.04E-07	1.43E-05	3.32E-06	8.39E-06	4.04E-07	1.21E-05	8.23E-07	1.50E-06	1.32E-07	2.45E-06	6.37E-07	8.33E-07	6.02E-08	1.53E-06
283	565686.2	4222512	5.40E-06	6.60E-06	3.48E-07	1.24E-05	2.87E-06	7.24E-06	3.48E-07	1.04E-05	7.10E-07	1.29E-06	1.14E-07	2.11E-06	5.49E-07	7.18E-07	5.19E-08	1.32E-06
284	565679.1	4222528	5.19E-06	6.34E-06	3.34E-07	1.19E-05	2.75E-06	6.95E-06	3.34E-07	1.00E-05	6.82E-07	1.24E-06	1.09E-07	2.03E-06	5.28E-07	6.90E-07	4.99E-08	1.27E-06
285	565657.7	4222577	4.23E-06	5.17E-06	2.72E-07	9.67E-06	2.24E-06	5.66E-06	2.72E-07	8.18E-06	5.56E-07	1.01E-06	8.91E-08	1.65E-06	4.30E-07	5.62E-07	4.06E-08	1.03E-06
286	565654.2	4222585	4.04E-06	4.93E-06	2.60E-07	9.23E-06	2.14E-06	5.40E-06	2.60E-07	7.80E-06	5.30E-07	9.63E-07	8.50E-08	1.58E-06	4.10E-07	5.36E-07	3.88E-08	9.85E-07
287	565647.1	4222601	3.64E-06	4.44E-06	2.34E-07	8.32E-06	1.93E-06	4.87E-06	2.34E-07	7.03E-06	4.78E-07	8.68E-07	7.66E-08	1.42E-06	3.70E-07	4.83E-07	3.50E-08	8.88E-07
288	565640	4222617	3.24E-06	3.96E-06	2.08E-07	7.40E-06	1.72E-06	4.34E-06	2.08E-07	6.26E-06	4.25E-07	7.73E-07	6.82E-08	1.27E-06	3.29E-07	4.30E-07	3.11E-08	7.90E-07
289	565624.6	4222637	2.76E-06	3.37E-06	1.77E-07	6.30E-06	1.46E-06	3.69E-06	1.77E-07	5.33E-06	3.62E-07	6.58E-07	5.81E-08	1.08E-06	2.80E-07	3.66E-07	2.65E-08	6.73E-07
290	565608.1	4222643	2.56E-06	3.13E-06	1.65E-07	5.85E-06	1.36E-06	3.43E-06	1.65E-07	4.95E-06	3.36E-07	6.11E-07	5.39E-08	1.00E-06	2.60E-07	3.40E-07	2.46E-08	6.25E-07
291	565591.7	4222650	2.34E-06	2.86E-06	1.51E-07	5.35E-06	1.24E-06	3.13E-06	1.51E-07	4.52E-06	3.07E-07	5.58E-07	4.93E-08	9.15E-07	2.38E-07	3.11E-07	2.25E-08	5.71E-07
292	565558.8	4222663	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.66E-06	2.48E-07	4.51E-07	3.98E-08	7.39E-07	1.92E-07	2.51E-07	1.82E-08	4.62E-07
293	565542.3	4222670	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.90E-07	2.25E-06	1.08E-07	3.25E-06	2.20E-07	4.00E-07	3.54E-08	6.56E-07	1.71E-07	2.23E-07	1.61E-08	4.10E-07
294	565689.8	4222504	5.49E-06	6.70E-06	3.53E-07	1.25E-05	2.91E-06	7.35E-06	3.53E-07	1.06E-05	7.21E-07	1.31E-06	1.16E-07	2.15E-06	5.58E-07	7.29E-07	5.27E-08	1.34E-06
295	565690	4222495	5.66E-06	6.91E-06	3.64E-07	1.29E-05	3.00E-06	7.57E-06	3.64E-07	1.09E-05	7.43E-07	1.35E-06	1.19E-07	2.21E-06	5.75E-07	7.51E-07	5.43E-08	1.38E-06
296	565690.2	4222486	5.81E-06	7.10E-06	3.74E-07	1.33E-05	3.08E-06	7.78E-06	3.74E-07	1.12E-05	7.64E-07	1.39E-06	1.22E-07	2.27E-06	5.91E-07	7.72E-07	5.59E-08	1.42E-06
297	565690.4	4222477	5.97E-06	7.29E-06	3.84E-07	1.36E-05	3.16E-06	7.99E-06	3.84E-07	1.15E-05	7.84E-07	1.42E-06	1.26E-07	2.33E-06	6.06E-07	7.93E-07	5.73E-08	1.46E-06
298	565696.1	4222512	5.19E-06	6.34E-06	3.34E-07	1.19E-05	2.75E-06	6.95E-06	3.34E-07	1.00E-05	6.81E-07	1.24E-06	1.09E-07	2.03E-06	5.27E-07	6.89E-07	4.99E-08	1.27E-06
299	565674.9	4222560	4.49E-06	5.48E-06	2.89E-07	1.03E-05	2.38E-06	6.01E-06	2.89E-07	8.68E-06	5.89E-07	1.07E-06	9.45E-08	1.75E-06	4.56E-07	5.96E-07	4.31E-08	1.10E-06
300	565667.9	4222576	4.16E-06	5.08E-06	2.68E-07	9.51E-06	2.21E-06	5.57E-06	2.68E-07	8.04E-06	5.46E-07	9.92E-07	8.76E-08	1.63E-06	4.23E-07	5.53E-07	4.00E-08	1.02E-06
301	565660.8	4222592	3.80E-06	4.64E-06	2.45E-07	8.69E-06	2.02E-06	5.09E-06	2.45E-07	7.35E-06	4.99E-07	9.07E-07	8.01E-08	1.49E-06	3.86E-07	5.05E-07	3.65E-08	9.28E-07
302	565653.8	4222608	3.43E-06	4.19E-06	2.21E-07	7.85E-06	1.82E-06	4.60E-06	2.21E-07	6.64E-06	4.51E-07	8.19E-07	7.23E-08	1.34E-06	3.49E-07	4.56E-07	3.30E-08	8.38E-07
303	565646.7	4222625	3.07E-06	3.74E-06	1.97E-07	7.01E-06	1.63E-06	4.10E-06	1.97E-07	5.93E-06	4.03E-07	7.31E-07	6.46E-08	1.20E-06	3.12E-07	4.07E-07	2.95E-08	7.48E-07
304	565631.5	4222644	2.62E-06	3.20E-06	1.69E-07	5.99E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.44E-07	6.26E-07	5.52E-08	1.03E-06	2.66E-07	3.48E-07	2.52E-08	6.40E-07
305	565615.2	4222650	2.44E-06	2.98E-06	1.57E-07	5.58E-06	1.29E-06	3.27E-06	1.57E-07	4.72E-06	3.20E-07	5.82E-07	5.14E-08	9.54E-07	2.48E-07	3.24E-07	2.34E-08	5.96E-07
306	565598.9	4222657	2.24E-06	2.73E-06	1.44E-07	5.11E-06	1.19E-06	2.99E-06	1.44E-07	4.32E-06	2.94E-07	5.34E-07	4.71E-08	8.74E-07	2.27E-07	2.97E-07	2.15E-08	5.46E-07
307	565566.3	4222670	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
308	565550	4222676	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.62E-07	2.18E-06	1.05E-07	3.14E-06	2.14E-07	3.88E-07	3.42E-08	6.36E-07	1.65E-07	2.16E-07	1.56E-08	3.97E-07
309	565533.7	4222683	1.44E-06	1.76E-06	9.30E-08	3.30E-06	7.66E-07	1.93E-06	9.30E-08	2.79E-06	1.90E-07	3.45E-07	3.04E-08	5.65E-07	1.47E-07	1.92E-07	1.39E-08	3.53E-07
310	565699.8	4222495	5.41E-06	6.61E-06	3.48E-07	1.24E-05	2.87E-06	7.24E-06	3.48E-07	1.05E-05	7.10E-07	1.29E-06	1.14E-07	2.11E-06	5.50E-07	7.18E-07	5.20E-08	1.32E-06
311	565700	4222486	5.55E-06	6.78E-06	3.57E-07	1.27E-05	2.94E-06	7.43E-06	3.57E-07	1.07E-05	7.29E-07	1.32E-06	1.17E-07	2.17E-06	5.64E-07	7.37E-07	5.33E-08	1.35E-06
312	565700.3	4222477	5.68E-06	6.94E-06	3.66E-07	1.30E-05	3.01E-06	7.61E-06	3.66E-07	1.10E-05	7.46E-07	1.36E-06	1.20E-07	2.22E-06	5.78E-07	7.55E-07	5.46E-08	1.39E-06
313	565692	4222544	4.63E-06	5.65E-06	2.98E-07	1.06E-05	2.45E-06	6.20E-06	2.98E-07	8.95E-06	6.08E-07	1.10E-06	9.75E-08	1.81E-06	4.70E-07	6.15E-07	4.45E-08	1.13E-06
314	565685	4222560	4.37E-06	5.34E-06	2.82E-07	1.00E-05	2.32E-06	5.86E-06	2.82E-07	8.46E-06	5.74E-07	1.04E-06	9.21E-08	1.71E-06	4.45E-07	5.81E-07	4.20E-08	1.07E-06
315	565678	4222576	4.08E-06	4.99E-06	2.63E-07	9.33E-06	2.16E-06	5.47E-06	2.63E-07	7.89E-06	5.36E-07	9.74E-07	8.60E-08	1.60E-06	4.15E-07	5.42E-07	3.92E-08	9

328	565710.1	4222477	5.42E-06	6.62E-06	3.49E-07	1.24E-05	2.87E-06	7.26E-06	3.49E-07	1.05E-05	7.12E-07	1.29E-06	1.14E-07	2.12E-06	5.51E-07	7.20E-07	5.21E-08	1.32E-06
329	565708.9	4222528	4.66E-06	5.69E-06	3.00E-07	1.07E-05	2.47E-06	6.24E-06	3.00E-07	9.01E-06	6.12E-07	1.11E-06	9.81E-08	1.82E-06	4.74E-07	6.19E-07	4.48E-08	1.14E-06
330	565701.9	4222544	4.48E-06	5.48E-06	2.89E-07	1.02E-05	2.38E-06	6.00E-06	2.89E-07	8.67E-06	5.89E-07	1.07E-06	9.44E-08	1.75E-06	4.56E-07	5.96E-07	4.31E-08	1.09E-06
331	565695	4222560	4.26E-06	5.2E-06	2.74E-07	9.74E-06	2.26E-06	5.70E-06	2.74E-07	8.24E-06	5.59E-07	1.02E-06	8.97E-08	1.67E-06	4.33E-07	5.66E-07	4.09E-08	1.04E-06
332	565688.1	4222576	4E-06	4.88E-06	2.57E-07	9.14E-06	2.12E-06	5.35E-06	2.57E-07	7.73E-06	5.25E-07	9.54E-07	8.42E-08	1.56E-06	4.06E-07	5.31E-07	3.84E-08	9.76E-07
333	565681.1	4222591	3.71E-06	4.53E-06	2.39E-07	8.47E-06	1.97E-06	4.96E-06	2.39E-07	7.17E-06	4.87E-07	8.84E-07	7.81E-08	1.45E-06	3.77E-07	4.92E-07	3.56E-08	9.05E-07
334	565674.2	4222607	3.39E-06	4.15E-06	2.19E-07	7.76E-06	1.80E-06	4.55E-06	2.19E-07	6.56E-06	4.46E-07	8.10E-07	7.15E-08	1.33E-06	3.45E-07	4.51E-07	3.26E-08	8.29E-07
335	565667.2	4222623	3.08E-06	3.76E-06	1.98E-07	7.03E-06	1.63E-06	4.12E-06	1.98E-07	5.95E-06	4.04E-07	7.34E-07	6.48E-08	1.20E-06	3.13E-07	4.09E-07	2.95E-08	7.51E-07
336	565660.3	4222639	2.76E-06	3.37E-06	1.78E-07	6.31E-06	1.46E-06	3.69E-06	1.78E-07	5.33E-06	3.62E-07	6.58E-07	5.81E-08	1.08E-06	2.80E-07	3.66E-07	2.65E-08	6.73E-07
337	565645.3	4222658	2.38E-06	2.91E-06	1.53E-07	5.44E-06	1.26E-06	3.19E-06	1.53E-07	4.60E-06	3.13E-07	5.68E-07	5.01E-08	9.31E-07	2.42E-07	3.16E-07	2.29E-08	5.81E-07
338	565629.3	4222664	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.95E-07	2.13E-08	5.41E-07
339	565613.2	4222671	2.05E-06	2.5E-06	1.32E-07	4.69E-06	1.09E-06	2.75E-06	1.32E-07	3.96E-06	2.69E-07	4.89E-07	4.32E-08	8.02E-07	2.08E-07	2.72E-07	1.97E-08	5.01E-07
340	565597.2	4222677	1.87E-06	2.29E-06	1.20E-07	4.28E-06	9.92E-07	2.51E-06	1.20E-07	3.62E-06	2.46E-07	4.47E-07	3.94E-08	7.32E-07	1.90E-07	2.49E-07	1.80E-08	4.57E-07
341	565565.1	4222690	1.52E-06	1.86E-06	9.81E-08	3.48E-06	8.08E-07	2.04E-06	9.81E-08	2.95E-06	2.00E-07	3.64E-07	3.21E-08	5.96E-07	1.55E-07	2.02E-07	1.46E-08	3.72E-07
342	565549	4222696	1.37E-06	1.67E-06	8.79E-08	3.12E-06	7.24E-07	1.83E-06	8.79E-08	2.64E-06	1.79E-07	3.26E-07	2.88E-08	5.34E-07	1.39E-07	1.81E-07	1.31E-08	3.33E-07
343	565719.7	4222486	5.07E-06	6.19E-06	3.26E-07	1.16E-05	2.69E-06	6.79E-06	3.26E-07	9.80E-06	6.66E-07	1.21E-06	1.07E-07	1.98E-06	5.15E-07	6.74E-07	4.87E-08	1.24E-06
344	565719.9	4222477	5.18E-06	6.32E-06	3.33E-07	1.18E-05	2.74E-06	6.93E-06	3.33E-07	1.00E-05	6.80E-07	1.23E-06	1.09E-07	2.02E-06	5.26E-07	6.88E-07	4.97E-08	1.26E-06
345	565725.5	4222513	4.6E-06	5.62E-06	2.96E-07	1.05E-05	2.44E-06	6.17E-06	2.96E-07	8.90E-06	6.05E-07	1.10E-06	9.70E-08	1.80E-06	4.68E-07	6.12E-07	4.42E-08	1.12E-06
346	565718.2	4222529	4.48E-06	5.48E-06	2.89E-07	1.02E-05	2.38E-06	6.00E-06	2.89E-07	8.67E-06	5.89E-07	1.07E-06	9.44E-08	1.75E-06	4.56E-07	5.96E-07	4.31E-08	1.09E-06
347	565711	4222546	4.32E-06	5.27E-06	2.78E-07	9.87E-06	2.29E-06	5.78E-06	2.78E-07	8.35E-06	5.67E-07	1.03E-06	9.09E-08	1.69E-06	4.39E-07	5.74E-07	4.15E-08	1.05E-06
348	565707.4	4222554	4.22E-06	5.15E-06	2.71E-07	9.64E-06	2.24E-06	5.64E-06	2.71E-07	8.15E-06	5.54E-07	1.01E-06	8.88E-08	1.65E-06	4.28E-07	5.60E-07	4.05E-08	1.03E-06
349	565700.1	4222571	3.98E-06	4.86E-06	2.56E-07	9.10E-06	2.11E-06	5.33E-06	2.56E-07	7.70E-06	5.23E-07	9.50E-07	8.39E-08	1.56E-06	4.05E-07	5.29E-07	3.83E-08	9.72E-07
350	565692.8	4222587	3.71E-06	4.53E-06	2.39E-07	8.48E-06	1.97E-06	4.97E-06	2.39E-07	7.18E-06	4.87E-07	8.86E-07	7.82E-08	1.45E-06	3.77E-07	4.93E-07	3.57E-08	9.06E-07
351	565685.6	4222604	3.42E-06	4.17E-06	2.20E-07	7.81E-06	1.81E-06	4.57E-06	2.20E-07	6.60E-06	4.49E-07	8.15E-07	7.19E-08	1.34E-06	3.47E-07	4.54E-07	3.28E-08	8.34E-07
352	565678.3	4222620	3.11E-06	3.79E-06	2.00E-07	7.10E-06	1.65E-06	4.16E-06	2.00E-07	6.00E-06	4.08E-07	7.41E-07	6.54E-08	1.21E-06	3.16E-07	4.13E-07	2.98E-08	7.58E-07
353	565671.1	4222637	2.79E-06	3.41E-06	1.80E-07	6.38E-06	1.48E-06	3.74E-06	1.80E-07	5.40E-06	3.67E-07	6.66E-07	5.88E-08	1.09E-06	2.84E-07	3.71E-07	2.68E-08	6.81E-07
354	565667.5	4222645	2.64E-06	3.22E-06	1.70E-07	6.03E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.56E-08	1.03E-06	2.68E-07	3.51E-07	2.54E-08	6.44E-07
355	565651.8	4222665	2.27E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.04E-06	1.46E-07	4.38E-06	2.98E-07	5.41E-07	4.78E-08	8.87E-07	2.30E-07	3.01E-07	2.18E-08	5.54E-07
356	565643.4	4222669	2.19E-06	2.68E-06	1.41E-07	5.01E-06	1.16E-06	2.93E-06	1.41E-07	4.24E-06	2.88E-07	5.23E-07	4.62E-08	8.57E-07	2.23E-07	2.91E-07	2.11E-08	5.35E-07
357	565635	4222672	2.11E-06	2.58E-06	1.36E-07	4.82E-06	1.12E-06	2.83E-06	1.36E-07	4.08E-06	2.77E-07	5.03E-07	4.44E-08	8.25E-07	2.14E-07	2.80E-07	2.03E-08	5.15E-07
358	565618.2	4222679	1.95E-06	2.38E-06	1.25E-07	4.45E-06	1.03E-06	2.61E-06	1.25E-07	3.76E-06	2.56E-07	4.64E-07	4.10E-08	7.61E-07	1.98E-07	2.59E-07	1.87E-08	4.75E-07
359	565609.9	4222682	1.86E-06	2.27E-06	1.20E-07	4.25E-06	9.85E-07	2.49E-06	1.20E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.27E-07	1.89E-07	2.47E-07	1.79E-08	4.54E-07
360	565601.5	4222685	1.77E-06	2.16E-06	1.14E-07	4.05E-06	9.39E-07	2.37E-06	1.14E-07	3.42E-06	2.33E-07	4.23E-07	3.73E-08	6.92E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
361	565584.7	4222692	1.6E-06	1.95E-06	1.03E-07	3.65E-06	8.47E-07	2.14E-06	1.03E-07	3.09E-06	2.10E-07	3.81E-07	3.37E-08	6.25E-07	1.62E-07	2.12E-07	1.54E-08	3.90E-07
362	565559.5	4222702	1.35E-06	1.65E-06	8.72E-08	3.10E-06	7.18E-07	1.81E-06	8.72E-08	2.62E-06	1.78E-07	3.23E-07	2.85E-08	5.30E-07	1.38E-07	1.80E-07	1.30E-08	3.31E-07
363	565551.1	4222705	1.28E-06	1.56E-06	8.24E-08	2.93E-06	6.79E-07	1.71E-06	8.24E-08	2.48E-06	1.68E-07	3.05E-07	2.70E-08	5.01E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
364	565729.8	4222477	4.95E-06	6.04E-06	3.18E-07	1.13E-05	2.62E-06	6.62E-06	3.18E-07	9.56E-06	6.50E-07	1.18E-06	1.04E-07	1.93E-06	5.03E-07	6.57E-07	4.75E-08	1.21E-06
365	565735.4	4222513	4.52E-06	5.52E-06	2.91E-07	1.03E-05	2.40E-06	6.05E-06	2.91E-07	8.74E-06	5.94E-07	1.08E-06	9.52E-08	1.77E-06	4.60E-07	6.01E-07	4.34E-08	1.10E-06
366	565728.2	4222529	4.33E-06	5.29E-06	2.79E-07	9.89E-06	2.29E-06	5.79E-06	2.79E-07	8.37E-06	5.68E-07	1.03E-06	9.11E-08	1.69E-06	4.40E-07	5.75E-07	4.16E-08	1.06E-06
367	565721	4222546	4.18E-06	5.11E-06	2.69E-07	9.56E-06	2.22E-06	5.60E-06	2.69E-07	8.09E-06	5.49E-07	9.98E-07	8.81E-08	1.64E-06	4.25E-07	5.56E-07	4.02E-08	1.02E-06
368	565713.8	4222562	4E-06	4.88E-06	2.57E-07	9.13E-06	2.12E-06	5.35E-06	2.57E-07	7.72E-06	5.25E-07	9.53E-07	8.41E-08	1.56E-06	4.06E-07	5.31E-07	3.84E-08	9.75E-07
369	565706.6	4222579	3.77E-06	4.61E-06	2.43E-07	8.62E-06	2.00E-06	5.05E-06	2.43E-07	7.29E-06	4.95E-07	9.00E-07	7.94E-08	1.47E-06	3.83E-07	5.01E-07	3.62E-08	9.20E-07
370	565703	4222587	3.65E-06	4.45E-06	2.35E-07	8.33E-06	1.93E-06	4.88E-06	2.35E-07	7.05E-06	4.79E-07	8.70E-07	7.68E-08	1.43E-06	3.70E-07	4.84E-07	3.50E-08	8.90E-07
371	565695.8	4222603	3.38E-06	4.12E-06	2.17E-07	7.72E-06	1.79E-06	4.52E-06	2.17E-07	6.53E-06	4.43E-07	8.06E-07	7.11E-08	1.32E-06	3.43E-07	4.49E-07	3.24E-08	8.24E-07
372	565688.6	4222620	3.09E-06	3.78E-06	1.99E-07	7.07E-06	1.64E-06	4.14E-06	1.99E-07	5.98E-06	4.06E-07	7.38E-07	6.51E-08	1.21E-06	3.14E-07	4.11E-07	2.97E-08	7.55E-07
373	565685	4222628	2.89E-06	3.53E-06	1.86E-07	6.60E-06	1.53E-06	3.86E-06	1.86E-07	5.58E-06	3.79E-07	6.89E-07	6.08E-08	1.13E-06	2.93E-07	3.83E-07	2.77E-08	7.05E-07
374	565677.8	4222644	2.58E-06	3.15E-06	1.66E-07	5.89E-06	1.37E-06	3.45E-06	1.66E-07	4.98E-06	3.38E-07	6.15E-07	5.43E-08	1.01E-06	2.62E-07	3.42E-07	2.47E-08	6.29E-07
375	565625.4	4222686	1.86E-06	2.28E-06	1.20E-07	4.26E-06	9.89E-07	2.50E-06	1.20E-07	3.61E-06	2.45E-07	4.45E-07	3.93E-08	7.29E-07	1.90E-07	2.48E-07	1.79E-08	4.55E-07
376	565617.1	4222689	1.79E-06	2.19E-06	1.15E-07	4.09E-06	9.49E-07	2.40E-06	1.15E-07	3.46E-06	2.35E-07	4.27E-07	3.77E-08	7.00E-07	1.82E-07	2.38E-07	1.72E-08	4.37E-07
377	565600.5	4222695	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.63E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.88E-07	3.43E-08	6.36E-07	1.65E-07	2.16E-07	1.56E-08	3.97E-07
378	565592.2	4222699	1.55E-06	1.89E-06	9.96E-08	3.54E-06	8.20E-07	2.07E-06	9.96E-08	2.99E-06	2.03E-07	3.69E-07	3.26E-08	6.05E-07	1.57E-07	2.06E-07	1.49E-08	3.78E-07
379	565558.9	4222712	1.25E-06	1.53E-06	8.04E-08	2.86E-06	6.62E-07	1.67E-06	8.04E-08	2.42E-06	1.64E-07	2.98E-07	2.63E-08	4.88E-07	1.27E-07	1.66E-07	1.20E-08	3.05E-07
380	565550.6	4222715	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.27E-07	1.58E-06	7.61E-08	2.29E-06	1.55E-07	2.82E-07	2.49E-08	4.63E-07	1.20E-07	1.57E-07	1.14E-08	2.89E-07
381	565745.2	4222513	4.35E-06	5.32E-06	2.80E-07	9.95E-06	2.31E-06	5.83E-06	2.80E-07	8.42E-06	5.72E-07	1.04E-06	9.17E-08	1.70E-06	4.42E-07	5.78E-07	4.18E-08	1.06E-06
382	565741.6	4222521	4.31E-06	5.26E-06	2.77E-07	9.85E-06	2.28E-06	5.77E-06	2.77E-07	8.33E-06	5.66E-07	1.03E-06	9.07E-08	1.68E-06	4.38E-07	5.72E-07	4.14E-08	1.05E-06
383	565734.5	4222538	4.19E-06	5.11E-06	2.70E-07	9.57E-06	2.22E-06	5.61E-06	2.70E-07	8.10E-06	5.50E-07	9.99E-07	8.82E-08	1.64E-06	4.26E-07	5.56E-07	4.02E-08	1.02E-06
384	565730.9	4222546	4.05E-06	4.95E-06	2.61E-07	9.26E-06	2.15E-06	5.42E-06	2.61E-07	7.83E-06	5.32E-07	9.66E-07	8.53E-08	1.58E-06	4.12E-07	5.38E-07	3.89E-08	9.89E-07
385	565723.8	4222562	3.89E-06	4.75E-06	2.50E-07	8.88E-06	2.06E-06	5.20E-06	2.50E-07	7.51E-06	5.10E-07	9.27E-07	8.18E-08	1.52E-06	3.95E-07	5.16E-07	3.73E-08	9.49E-07
386	565716.7	4222578	3.69E-06	4.5E-06	2.37E-07	8.43E-06	1.95E-06	4.94E-06	2.37E-07	7.13E-06	4.84E-07	8.80E-07	7.76E-08	1.44E-06	3.75E-07	4.90E-07	3.54E-08	9.00E-07
387	565709.6	4222595	3.46E-06	4.22E-06	2.22E-07	7.90E-06	1.83E-06	4.63E-06	2.22E-07	6.68E-06	4.54E-07	8.24E-07	7.28E-08	1.35E-06	3.51E-07	4.59E-07	3.32E-08	8.43E-07
388	565702.4	4222611	3.17E-06	3.88E-06	2.04E-07	7.26E-06	1.68E-06	4.25E-06	2.04E-07	6.14E-06	4.17E-07	7.57E-07	6.68E-08	1.24E-06	3.23E-07	4.22E-07	3.05E-08	7.75E-07
389	565695.3	4222627	2.88E-06	3.52E-06	1.85E-07	6.59E-06	1.53E-06	3.86E-06	1.85E-07	5.57E-06	3.78E-07	6.87E-07	6.07E-08	1.13E-06	2.93E-07	3.83E-07	2.77E-08	7.03E-07
390	565665.6	4222679	1.98E-06	2.41E-06	1.27E-07	4.52E-06	1.05E-06	2.65E-06	1.27E-07	3.82E-06	2.60E-07	4.71E-07	4.16E-08	7.73E-07	2.01E-07	2.63E-07	1.90E-08	4.82E-07
391	565566.6	4222719	1.22E-06	1.49E-06	7.85E-08	2.79E-06	6.46E-07	1.63E-06	7.85E-08	2.36E-06	1.60E-07	2.91E-07	2.57E-08	4.77E-07	1.24E-07	1.62E-07	1.17E-08	2.98E-07
392	565550.1	4222725	1.1E-06	1.34E-06	7.06E-08	2.51E-06	5.81E-07	1.47E-06	7.06E-08	2.12E-06	1.44E-07	2.62E-07	2.31E-08	4.29E-07	1.11E-07	1.46E-07	1.05E-08	2.68E-07
393	565755.1	4222513	4.19E-06	5.12E-06	2.70E-07	9.58E-06	2.22E-06	5.61E-06	2.70E-07	8.10E-06	5.50E-07	1.00E-06	8.83E-08	1.64E-06	4.26E-07	5.57E-07	4.03E-08	1.02E-06
394	565748	4222530	4.11E-06	5.01E-06	2.64E-07	9.38E-06	2.18E-06	5.50E-06	2.64E-07	7.94E-06	5.39E-07	9.80E-07	8.65E-08	1.61E-06	4.17E-07	5.45E-07	3.94E-08	1.00E-06
395	565740.9	4222546	3.98E-06	4.86E-06	2.56E-07	9.10E-06	2.11E-06	5.33E-06	2.56E-07	7.70E-06	5.23E-07	9.50E-07	8.39E-08	1.56E-06	4.05E-07	5.29E-07	3.83E-08	9.72E-07
396	565737.4	4222554	3.91E-06	4.77E-06	2.51E-07	8.93E-06	2.07E-06	5.23E-06	2.51E-07	7.55E-06	5.13E-07	9.32E-07	8.23E-08	1.53E-06	3.97E-07	5.19E-07	3.75E-08	9.54E-07
397	565730.3	4222570	3.69E-06	4.51E-06	2.38E-07	8.44E-06	1.96E-06	4.94E-06	2.38E-07	7.14E-06	4.85E-07	8.81E-07	7.78E-08	1.44E-06	3.75E-07	4.91E-07	3.55E-08	9.01E-07
398	565723.2	4222586	3.5E-06	4.27E-06	2.25E-07	8.00E-06	1.86E-06	4.69E-06	2.25E-07	6.77E-06	4.60E-07	8.35E-07	7.37E-08	1.37E-06	3.56E-07	4.65E-07	3.36E-08	8.54E-07
399	565716.1	4222602	3.27E-06	3.99E-06	2.11E-07	7.48E-06	1.73E-06	4.38E-06	2.11E-07	6.32E-06	4.30E-07	7.80E-07	6.89E-08	1.28E-06	3.32E-07	4.34E-07	3.14E-08	7.98E-07
400	565694.9	4222651	2.45E-06	3E-06	1.58E-07	5.61E-06	1.30E-06	3.29E-06	1.58E-07	4.75E-06	3.22E-07	5.86E-07	5.17E-08	9.60E-07	2.49E-07	3.26E-07	2.36E-08	5.99E-07
401	565691.3	4222659	2.32E-06	2.84E-06	1.49E-07	5.31E-06	1.23E-06	3.11E-06	1.49E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.08E-07	2.36E-07	3.08E-07	2.23E-08	5.67E-07
402	565672.5	4222686	1.88E-06	2.3E-06	1.21E-07	4.30E-06	9.98E-07	2.52E-06	1.21E-07	3.64E-06	2.47E-07	4.49E-07	3.96E-08	7.36E-07	1.91E-07	2.50E-07	1.81E-08	4.59E-07
403	565656.1	4222693	1.86E-06	2.27E-06	1.20E-07	4.25E-06	9.87E-07	2.49E-06	1.20E-07	3.60E-06	2.44E-07	4.44E-07	3.92E-08	7.28E-07	1.89E-07	2.47E-07	1.79E-08	4.54E-07
404	565639.8	4222699	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.16E-07	2.31E-06	1.11E-07	3.34E-06	2.27E-07	4.12E-07	3.64E-08	6.75E-07	1.76E-07	2.29E-07	1.66E-08	4.22E-07
405	565557.8	4222732	1.07E-06	1.31E-06	6.90E-08	2.45E-06	5.69E-07	1.44E-06	6.90E-08	2.07E-06	1.41E-07	2.56E-07	2.26E-08	4.19E-07	1.09E-07	1.42E-07	1.03E-08	2.62E-07
406	565764.9	4222514	4.04E-06	4.93E-06	2.60E-07	9.23E-06	2.14E-06	5.40E-06	2.60E-07	7.80E-06	5.30E-07	9.63E-07	8.50E-08	1.58E-06	4.10E-07	5.36E-07	3.88E-08	9.85E-07
407	565757.9	4222530	3.96E-06	4.84E-06	2.55E-07	9.06E-06	2.10E-06	5.31E-06	2.55E-07	7.66E-06	5.20E-07	9.45E-07	8.35E-08	1.55E-06	4.03E-07	5.26E-07	3.81E-08	9.67E-07
408	565750.9	4222546	3.85E-06	4.71E-06	2.48E-07	8.81E-06	2.04E-06	5.16E-06	2.48E-07	7.45E-06	5.06E-07	9.20E-07	8.12E-08	1.51E-06	3.92E-07	5.12E-07	3.70E-08	9.41E-07
409	565743.8	4222562	3.72E-06	4.54E-06	2.39E-07	8.49E-06	1.97E-06	4.97E-06	2.39E-07	7.18E-06	4.88E-07	8.86E-07	7.83E-08	1.45E-06	3.78E-07	4.94E-07	3.57E-08	9.07E-07
410	565736.8	4222578	3.54E-06	4.33E-06	2.28E-07	8.10E-06	1.88E-06	4.74E-06	2.28E-07	6.85E-06	4.65E-07	8.45E-07	7.46E-08	1.39E-06	3.60E-07	4.71E-07	3.40E-08	8.65E-07
411	565729.8	4222594	3.33E-06	4.07E-06	2.15E-07	7.62E-06	1.77E-06	4.47E-06	2.15E-07	6.45E-06	4.38E-07	7.96E-07	7.02E-08	1.30E-06	3.39E-07	4.43E-07	3.20E-08	8.14E-07
412	565708.7	4222642	2.59E-06	3.16E-06	1.67E-07	5.91E-06	1.37E-06	3.46E-06	1.67E-07	5.00E-06	3.40E-07	6.17E-07	5.45E-08	1.01E-06	2.63E-07	3.44E-07	2.49E-08	6.31E-07
413	565701.6	4222658	2.33E-06	2.85E-06	1.50E-07	5.33E-06	1.24E-06	3.12E-06	1.50E-07	4.50E-06	3.06E-07	5.56E-07	4.91E-08	9.11E-07	2.37E-07	3.09E-07	2.24E-08	5.69E-07
414	565679.4	4222693	1.79E-06	2.19E-06	1.15E-07	4.09E-06	9.50E-07	2.40E-06	1.15E-07	3.46E-06	2.35E-07	4.27E-07	3.77E-08	7.00E-07	1.82E-07	2.38E-07	1.72E-08	4.37E-07
415	565663.2	4222700	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.90E-07	2.25E-06	1.08E-07	3.25E-06	2.20E-07	4.01E-07	3.54E-08	6.56E-07	1.71E-07	2.23E-07	1.61E-08	4.10E-07
416	565646.9	4222706	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.81E-07	2.23E-06	1.07E-07	3.21E-06	2.18E-07	3.97E-07	3.50E-08	6.50E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
417	565614.3	4222719	1.4E-06	1.71E-06	9.03E-08	3.21E-06	7.44E-07	1.88E-06	9.03E-08	2.71E-06	1.84E-07	3.35E-07	2.95E-08	5.49E-07	1.43E-07	1.86E-07	1.35E-08	3.42E-07
418	565598	4222726	1.28E-06	1.56E-06	8.22E-08	2.92E-06	6.77E-07	1.71E-06	8.22E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	4.99E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
419	565581.8	4222732	1.16E-06	1.42E-06	7.46E-08	2.65E-06	6.14E-07	1.55E-06	7.46E-08	2.24E-06	1.52E-07	2.77E-07	2.44E-08	4.53E-07	1.18E-07	1.54E-07	1.11E-08	2.83E-07
420	565565.5	4222739	1.05E-06	1.28E-06	6.75E-08	2.40E-06	5.56E-07	1.40E-06	6.75E-08	2.03E-06	1.38E-07	2.50E-07	2.21E-08	4.10E-07	1.07E-07	1.39E-07	1.01E-08	2.56E-07
421	565769.1	4222478	4.15E-06	5.07E-06	2.67E-07	9.49E-06	2.20E-06	5.56E-06	2.67E-07	8.03E-06	5.46E-07	9.91E-07	8.75E-08	1.62E-06	4.22E-07	5.52E-07	3.99E-08	1.01E-06
422	565767.8	4222530	3.83E-06	4.67E-06	2.46E-07	8.74E-06	2.03E-06	5.12E-06	2.46E-07	7.40E-06	5.02E-07	9.13E-07	8.06E-08	1.50E-06	3.89E-07	5.08E-07	3.68E-08	9.34E-07
423	565760.8	4222546	3.73E-06	4.55E-06	2.40E-07	8.52E-06	1.98E-06	4.99E-06	2.40E-07	7.21E-06	4.90E-07	8.90E-07	7.85E-08	1.46E-06	3.79E-07	4.95E-07	3.58E-08	9.10E-07
424	565753.8	4222562	3.61E-06	4.41E-06	2.32E-07	8.25E-06	1.91E-06	4.83E-06	2.32E-07	6.98E-06	4.74E-07	8.61E-07	7.60E-08	1.41E-06	3.67E-07	4.79E-07	3.47E-08	8.81E-07
425	565746.8	4222578	3.46E-06	4.22E-06	2.22E-07	7.90E-06	1.83E-06	4.63E-06	2.22E-07	6.68E-06	4.54E-07	8.24E-07	7.28E-08	1.35E-06	3.51E-07	4.59E-07	3.32E

438	565778.9	4222479	4.09E-06	4.99E-06	2.63E-07	9.35E-06	2.17E-06	5.48E-06	2.63E-07	7.91E-06	5.37E-07	9.76E-07	8.61E-08	1.60E-06	4.16E-07	5.43E-07	3.93E-08	9.98E-07
439	565777.3	4222531	3.69E-06	4.51E-06	2.37E-07	8.43E-06	1.96E-06	4.94E-06	2.37E-07	7.13E-06	4.85E-07	8.80E-07	7.77E-08	1.44E-06	3.75E-07	4.90E-07	3.54E-08	9.01E-07
440	565770	4222547	3.6E-06	4.39E-06	2.32E-07	8.22E-06	1.91E-06	4.82E-06	2.32E-07	6.96E-06	4.73E-07	8.59E-07	7.58E-08	1.41E-06	3.66E-07	4.78E-07	3.46E-08	8.78E-07
441	565748.3	4222597	3.15E-06	3.85E-06	2.03E-07	7.21E-06	1.67E-06	4.22E-06	2.03E-07	6.10E-06	4.14E-07	7.53E-07	6.64E-08	1.23E-06	3.21E-07	4.19E-07	3.03E-08	7.70E-07
442	565741.1	4222613	2.95E-06	3.6E-06	1.90E-07	6.73E-06	1.56E-06	3.94E-06	1.90E-07	5.70E-06	3.87E-07	7.03E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.19E-07
443	565733.8	4222630	2.71E-06	3.31E-06	1.74E-07	6.20E-06	1.44E-06	3.63E-06	1.74E-07	5.24E-06	3.56E-07	6.47E-07	5.71E-08	1.06E-06	2.75E-07	3.60E-07	2.60E-08	6.62E-07
444	565726.6	4222646	2.48E-06	3.03E-06	1.60E-07	5.66E-06	1.31E-06	3.32E-06	1.60E-07	4.79E-06	3.25E-07	5.91E-07	5.22E-08	9.69E-07	2.52E-07	3.29E-07	2.38E-08	6.05E-07
445	565719.3	4222663	2.25E-06	2.74E-06	1.45E-07	5.14E-06	1.19E-06	3.01E-06	1.45E-07	4.34E-06	2.95E-07	5.36E-07	4.73E-08	8.78E-07	2.28E-07	2.98E-07	2.16E-08	5.48E-07
446	565712.1	4222679	2.01E-06	2.45E-06	1.29E-07	4.59E-06	1.06E-06	2.69E-06	1.29E-07	3.88E-06	2.64E-07	4.79E-07	4.23E-08	7.85E-07	2.04E-07	2.67E-07	1.93E-08	4.90E-07
447	565692.9	4222708	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.62E-07	2.18E-06	1.05E-07	3.14E-06	2.13E-07	3.88E-07	3.42E-08	6.36E-07	1.65E-07	2.16E-07	1.56E-08	3.97E-07
448	565684.5	4222711	1.57E-06	1.92E-06	1.01E-07	3.60E-06	8.35E-07	2.11E-06	1.01E-07	3.04E-06	2.07E-07	3.76E-07	3.31E-08	6.15E-07	1.60E-07	2.09E-07	1.51E-08	3.84E-07
449	565676.1	4222714	1.52E-06	1.86E-06	9.79E-08	3.48E-06	8.07E-07	2.04E-06	9.79E-08	2.94E-06	2.00E-07	3.63E-07	3.20E-08	5.95E-07	1.55E-07	2.02E-07	1.46E-08	3.71E-07
450	565659.4	4222721	1.41E-06	1.73E-06	9.11E-08	3.23E-06	7.50E-07	1.89E-06	9.11E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
451	565651	4222724	1.36E-06	1.66E-06	8.77E-08	3.11E-06	7.22E-07	1.82E-06	8.77E-08	2.63E-06	1.79E-07	3.25E-07	2.87E-08	5.32E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
452	565625.9	4222734	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.26E-07	1.58E-06	7.61E-08	2.28E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.14E-08	2.88E-07
453	565609.1	4222741	1.18E-06	1.44E-06	7.60E-08	2.70E-06	6.26E-07	1.58E-06	7.60E-08	2.28E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.13E-08	2.88E-07
454	565600.7	4222744	1.13E-06	1.38E-06	7.25E-08	2.57E-06	5.97E-07	1.51E-06	7.25E-08	2.18E-06	1.48E-07	2.69E-07	2.37E-08	4.40E-07	1.14E-07	1.50E-07	1.08E-08	2.75E-07
455	565584	4222751	1.02E-06	1.25E-06	6.57E-08	2.33E-06	5.41E-07	1.37E-06	6.57E-08	1.97E-06	1.34E-07	2.44E-07	2.15E-08	3.99E-07	1.04E-07	1.36E-07	9.81E-09	2.49E-07
456	565788.1	4222506	3.76E-06	4.59E-06	2.42E-07	8.59E-06	1.99E-06	5.03E-06	2.42E-07	7.27E-06	4.94E-07	8.97E-07	7.92E-08	1.47E-06	3.82E-07	5.00E-07	3.61E-08	9.18E-07
457	565788.3	4222497	3.82E-06	4.67E-06	2.46E-07	8.74E-06	2.03E-06	5.12E-06	2.46E-07	7.39E-06	5.02E-07	9.12E-07	8.05E-08	1.49E-06	3.88E-07	5.08E-07	3.67E-08	9.33E-07
458	565788.6	4222488	3.88E-06	4.74E-06	2.50E-07	8.86E-06	2.06E-06	5.19E-06	2.50E-07	7.50E-06	5.09E-07	9.25E-07	8.17E-08	1.52E-06	3.94E-07	5.15E-07	3.73E-08	9.46E-07
459	565788.8	4222479	3.93E-06	4.79E-06	2.53E-07	8.97E-06	2.08E-06	5.26E-06	2.53E-07	7.59E-06	5.16E-07	9.37E-07	8.27E-08	1.53E-06	3.99E-07	5.21E-07	3.77E-08	9.58E-07
460	565762	4222588	3.17E-06	3.87E-06	2.04E-07	7.25E-06	1.68E-06	4.25E-06	2.04E-07	6.13E-06	4.17E-07	7.57E-07	6.68E-08	1.24E-06	3.22E-07	4.21E-07	3.05E-08	7.74E-07
461	565754.8	4222605	3E-06	3.66E-06	1.93E-07	6.85E-06	1.59E-06	4.01E-06	1.93E-07	5.79E-06	3.93E-07	7.15E-07	6.31E-08	1.17E-06	3.04E-07	3.98E-07	2.88E-08	7.31E-07
462	565751.2	4222613	2.9E-06	3.54E-06	1.87E-07	6.62E-06	1.54E-06	3.88E-06	1.87E-07	5.60E-06	3.81E-07	6.91E-07	6.10E-08	1.13E-06	2.94E-07	3.85E-07	2.78E-08	7.07E-07
463	565736.8	4222646	2.47E-06	3.01E-06	1.59E-07	5.63E-06	1.31E-06	3.30E-06	1.59E-07	4.77E-06	3.24E-07	5.88E-07	5.19E-08	9.64E-07	2.51E-07	3.27E-07	2.37E-08	6.02E-07
464	565733.3	4222654	2.36E-06	2.88E-06	1.52E-07	5.39E-06	1.25E-06	3.16E-06	1.52E-07	4.56E-06	3.10E-07	5.63E-07	4.97E-08	9.22E-07	2.40E-07	3.13E-07	2.27E-08	5.76E-07
465	565726.1	4222670	2.14E-06	2.61E-06	1.38E-07	4.89E-06	1.13E-06	2.86E-06	1.38E-07	4.13E-06	2.81E-07	5.10E-07	4.50E-08	8.36E-07	2.17E-07	2.84E-07	2.05E-08	5.22E-07
466	565718.9	4222687	1.91E-06	2.33E-06	1.23E-07	4.37E-06	1.01E-06	2.56E-06	1.23E-07	3.69E-06	2.51E-07	4.56E-07	4.02E-08	7.47E-07	1.94E-07	2.54E-07	1.83E-08	4.66E-07
467	565699.8	4222715	1.55E-06	1.9E-06	9.99E-08	3.55E-06	8.23E-07	2.08E-06	9.99E-08	3.00E-06	2.04E-07	3.70E-07	3.27E-08	6.07E-07	1.58E-07	2.06E-07	1.49E-08	3.79E-07
468	565691.4	4222718	1.5E-06	1.84E-06	9.68E-08	3.44E-06	7.97E-07	2.01E-06	9.68E-08	2.91E-06	1.97E-07	3.59E-07	3.17E-08	5.88E-07	1.53E-07	2.00E-07	1.44E-08	3.67E-07
469	565683.1	4222721	1.45E-06	1.78E-06	9.36E-08	3.32E-06	7.71E-07	1.95E-06	9.36E-08	2.81E-06	1.91E-07	3.47E-07	3.06E-08	5.69E-07	1.48E-07	1.93E-07	1.40E-08	3.55E-07
470	565666.5	4222728	1.35E-06	1.65E-06	8.71E-08	3.09E-06	7.18E-07	1.81E-06	8.71E-08	2.62E-06	1.78E-07	3.23E-07	2.85E-08	5.29E-07	1.38E-07	1.80E-07	1.30E-08	3.30E-07
471	565658.2	4222731	1.3E-06	1.59E-06	8.39E-08	2.98E-06	6.91E-07	1.75E-06	8.39E-08	2.52E-06	1.71E-07	3.11E-07	2.75E-08	5.10E-07	1.32E-07	1.73E-07	1.25E-08	3.18E-07
472	565624.9	4222745	1.09E-06	1.33E-06	7.00E-08	2.48E-06	5.76E-07	1.46E-06	7.00E-08	2.10E-06	1.43E-07	2.59E-07	2.29E-08	4.25E-07	1.10E-07	1.44E-07	1.04E-08	2.65E-07
473	565616.6	4222748	1.15E-06	1.4E-06	7.40E-08	2.63E-06	6.10E-07	1.54E-06	7.40E-08	2.22E-06	1.51E-07	2.74E-07	2.42E-08	4.50E-07	1.17E-07	1.53E-07	1.11E-08	2.81E-07
474	565599.9	4222755	1.05E-06	1.28E-06	6.74E-08	2.39E-06	5.55E-07	1.40E-06	6.74E-08	2.02E-06	1.38E-07	2.50E-07	2.21E-08	4.09E-07	1.06E-07	1.39E-07	1.01E-08	2.56E-07
475	565591.6	4222758	9.98E-07	1.22E-06	6.43E-08	2.28E-06	5.29E-07	1.34E-06	6.43E-08	1.93E-06	1.31E-07	2.38E-07	2.10E-08	3.90E-07	1.01E-07	1.33E-07	9.59E-09	2.44E-07
476	565798.2	4222497	3.67E-06	4.49E-06	2.36E-07	8.40E-06	1.95E-06	4.92E-06	2.36E-07	7.10E-06	4.83E-07	8.77E-07	7.74E-08	1.44E-06	3.73E-07	4.88E-07	3.53E-08	8.97E-07
477	565798.4	4222488	3.72E-06	4.55E-06	2.40E-07	8.51E-06	1.97E-06	4.99E-06	2.40E-07	7.20E-06	4.89E-07	8.88E-07	7.84E-08	1.46E-06	3.78E-07	4.95E-07	3.58E-08	9.09E-07
478	565798.6	4222479	3.77E-06	4.6E-06	2.43E-07	8.61E-06	2.00E-06	5.04E-06	2.43E-07	7.28E-06	4.95E-07	8.99E-07	7.93E-08	1.47E-06	3.83E-07	5.01E-07	3.62E-08	9.20E-07
479	565804.2	4222515	3.48E-06	4.25E-06	2.24E-07	7.95E-06	1.84E-06	4.66E-06	2.24E-07	6.73E-06	4.57E-07	8.30E-07	7.33E-08	1.36E-06	3.54E-07	4.62E-07	3.34E-08	8.49E-07
480	565779.2	4222572	3.23E-06	3.94E-06	2.08E-07	7.37E-06	1.71E-06	4.32E-06	2.08E-07	6.24E-06	4.24E-07	7.70E-07	6.79E-08	1.26E-06	3.28E-07	4.29E-07	3.10E-08	7.87E-07
481	565775.6	4222580	3.16E-06	3.86E-06	2.04E-07	7.23E-06	1.68E-06	4.24E-06	2.04E-07	6.12E-06	4.16E-07	7.55E-07	6.66E-08	1.24E-06	3.22E-07	4.20E-07	3.04E-08	7.72E-07
482	565768.5	4222596	3.02E-06	3.69E-06	1.94E-07	6.90E-06	1.60E-06	4.04E-06	1.94E-07	5.84E-06	3.96E-07	7.20E-07	6.36E-08	1.18E-06	3.07E-07	4.01E-07	2.90E-08	7.37E-07
483	565764.9	4222604	2.93E-06	3.58E-06	1.89E-07	6.71E-06	1.56E-06	3.93E-06	1.89E-07	5.67E-06	3.85E-07	7.00E-07	6.18E-08	1.15E-06	2.98E-07	3.90E-07	2.82E-08	7.16E-07
484	565757.8	4222621	2.75E-06	3.36E-06	1.77E-07	6.29E-06	1.46E-06	3.68E-06	1.77E-07	5.32E-06	3.61E-07	6.57E-07	5.80E-08	1.08E-06	2.80E-07	3.66E-07	2.64E-08	6.72E-07
485	565754.2	4222629	2.65E-06	3.24E-06	1.71E-07	6.06E-06	1.41E-06	3.55E-06	1.71E-07	5.13E-06	3.48E-07	6.33E-07	5.59E-08	1.04E-06	2.70E-07	3.52E-07	2.55E-08	6.48E-07
486	565747.1	4222645	2.45E-06	2.99E-06	1.58E-07	5.60E-06	1.30E-06	3.28E-06	1.58E-07	4.73E-06	3.22E-07	5.84E-07	5.16E-08	9.57E-07	2.49E-07	3.25E-07	2.35E-08	5.98E-07
487	565739.9	4222661	2.25E-06	2.74E-06	1.45E-07	5.14E-06	1.19E-06	3.01E-06	1.45E-07	4.34E-06	2.95E-07	5.36E-07	4.73E-08	8.78E-07	2.28E-07	2.98E-07	2.16E-08	5.48E-07
488	565732.8	4222678	2.03E-06	2.48E-06	1.31E-07	4.64E-06	1.08E-06	2.72E-06	1.31E-07	3.93E-06	2.67E-07	4.85E-07	4.28E-08	7.94E-07	2.07E-07	2.70E-07	1.95E-08	4.96E-07
489	565729.2	4222686	1.92E-06	2.35E-06	1.24E-07	4.39E-06	1.02E-06	2.57E-06	1.24E-07	3.72E-06	2.52E-07	4.59E-07	4.05E-08	7.52E-07	1.95E-07	2.55E-07	1.85E-08	4.69E-07
490	565706.7	4222722	1.48E-06	1.81E-06	9.55E-08	3.39E-06	7.86E-07	1.99E-06	9.55E-08	2.87E-06	1.95E-07	3.54E-07	3.12E-08	5.80E-07	1.51E-07	1.97E-07	1.43E-08	3.62E-07
491	565690.1	4222728	1.39E-06	1.7E-06	8.95E-08	3.18E-06	7.38E-07	1.86E-06	8.95E-08	2.69E-06	1.83E-07	3.32E-07	2.93E-08	5.44E-07	1.41E-07	1.85E-07	1.34E-08	3.40E-07
492	565673.6	4222735	1.3E-06	1.58E-06	8.35E-08	2.96E-06	6.87E-07	1.74E-06	8.35E-08	2.51E-06	1.70E-07	3.09E-07	2.73E-08	5.07E-07	1.32E-07	1.72E-07	1.25E-08	3.16E-07
493	565640.5	4222748	1.11E-06	1.35E-06	7.13E-08	2.53E-06	5.88E-07	1.48E-06	7.13E-08	2.14E-06	1.46E-07	2.64E-07	2.33E-08	4.33E-07	1.13E-07	1.47E-07	1.06E-08	2.71E-07
494	565624	4222755	1E-06	1.22E-06	6.45E-08	2.29E-06	5.31E-07	1.34E-06	6.45E-08	1.94E-06	1.32E-07	2.39E-07	2.11E-08	3.92E-07	1.02E-07	1.33E-07	9.63E-09	2.45E-07
495	565607.5	4222761	1.02E-06	1.25E-06	6.58E-08	2.34E-06	5.42E-07	1.37E-06	6.58E-08	1.98E-06	1.34E-07	2.44E-07	2.15E-08	4.00E-07	1.04E-07	1.36E-07	9.83E-09	2.50E-07
496	565590.9	4222768	9.32E-07	1.14E-06	6.00E-08	2.13E-06	4.94E-07	1.25E-06	6.00E-08	1.80E-06	1.22E-07	2.22E-07	1.96E-08	3.64E-07	9.47E-08	1.24E-07	8.96E-09	2.28E-07
497	565557.9	4222781	7.77E-07	9.48E-07	5.00E-08	1.78E-06	4.12E-07	1.04E-06	5.00E-08	1.50E-06	1.02E-07	1.85E-07	1.64E-08	3.04E-07	7.89E-08	1.03E-07	7.46E-09	1.90E-07
498	565808	4222497	3.53E-06	4.31E-06	2.27E-07	8.07E-06	1.87E-06	4.73E-06	2.27E-07	6.82E-06	4.64E-07	8.42E-07	7.43E-08	1.38E-06	3.59E-07	4.69E-07	3.39E-08	8.61E-07
499	565808.2	4222488	3.57E-06	4.36E-06	2.30E-07	8.16E-06	1.89E-06	4.78E-06	2.30E-07	6.90E-06	4.69E-07	8.52E-07	7.52E-08	1.40E-06	3.63E-07	4.74E-07	3.43E-08	8.71E-07
500	565808.4	4222479	3.61E-06	4.41E-06	2.32E-07	8.26E-06	1.92E-06	4.84E-06	2.32E-07	6.98E-06	4.74E-07	8.62E-07	7.61E-08	1.41E-06	3.67E-07	4.80E-07	3.47E-08	8.82E-07
501	565824.3	4222515	3.23E-06	3.95E-06	2.08E-07	7.38E-06	1.71E-06	4.33E-06	2.08E-07	6.25E-06	4.24E-07	7.71E-07	6.80E-08	1.26E-06	3.28E-07	4.29E-07	3.10E-08	7.89E-07
502	565817.2	4222531	3.21E-06	3.92E-06	2.07E-07	7.34E-06	1.70E-06	4.30E-06	2.07E-07	6.20E-06	4.21E-07	7.66E-07	6.76E-08	1.25E-06	3.26E-07	4.26E-07	3.08E-08	7.83E-07
503	565803.1	4222563	3.09E-06	3.77E-06	1.99E-07	7.05E-06	1.64E-06	4.13E-06	1.99E-07	5.97E-06	4.05E-07	7.36E-07	6.50E-08	1.21E-06	3.14E-07	4.10E-07	2.97E-08	7.53E-07
504	565796	4222580	2.99E-06	3.65E-06	1.92E-07	6.83E-06	1.58E-06	4.00E-06	1.92E-07	5.78E-06	3.93E-07	7.13E-07	6.29E-08	1.17E-06	3.04E-07	3.97E-07	2.87E-08	7.30E-07
505	565788.9	4222596	2.88E-06	3.52E-06	1.85E-07	6.58E-06	1.53E-06	3.85E-06	1.85E-07	5.57E-06	3.78E-07	6.87E-07	6.06E-08	1.13E-06	2.93E-07	3.82E-07	2.77E-08	7.03E-07
506	565785.4	4222604	2.81E-06	3.44E-06	1.81E-07	6.43E-06	1.49E-06	3.77E-06	1.81E-07	5.44E-06	3.70E-07	6.71E-07	5.93E-08	1.10E-06	2.86E-07	3.74E-07	2.70E-08	6.87E-07
507	565778.3	4222620	2.66E-06	3.25E-06	1.71E-07	6.08E-06	1.41E-06	3.56E-06	1.71E-07	5.15E-06	3.50E-07	6.35E-07	5.61E-08	1.04E-06	2.71E-07	3.54E-07	2.56E-08	6.50E-07
508	565771.2	4222636	2.49E-06	3.04E-06	1.60E-07	5.70E-06	1.32E-06	3.34E-06	1.60E-07	4.82E-06	3.27E-07	5.95E-07	5.25E-08	9.74E-07	2.53E-07	3.31E-07	2.39E-08	6.08E-07
509	565757.1	4222668	2.13E-06	2.6E-06	1.37E-07	4.86E-06	1.13E-06	2.85E-06	1.37E-07	4.11E-06	2.79E-07	5.07E-07	4.48E-08	8.31E-07	2.16E-07	2.82E-07	2.04E-08	5.19E-07
510	565750	4222684	1.93E-06	2.36E-06	1.25E-07	4.42E-06	1.03E-06	2.59E-06	1.25E-07	3.74E-06	2.54E-07	4.62E-07	4.08E-08	7.56E-07	1.97E-07	2.57E-07	1.86E-08	4.72E-07
511	565743	4222701	1.74E-06	2.13E-06	1.12E-07	3.99E-06	9.24E-07	2.33E-06	1.12E-07	3.37E-06	2.29E-07	4.16E-07	3.67E-08	6.82E-07	1.77E-07	2.32E-07	1.68E-08	4.26E-07
512	565720.7	4222736	1.36E-06	1.66E-06	8.75E-08	3.11E-06	7.21E-07	1.82E-06	8.75E-08	2.63E-06	1.79E-07	3.24E-07	2.86E-08	5.32E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
513	565704.3	4222743	1.28E-06	1.56E-06	8.21E-08	2.91E-06	6.76E-07	1.71E-06	8.21E-08	2.47E-06	1.67E-07	3.04E-07	2.69E-08	4.99E-07	1.30E-07	1.69E-07	1.23E-08	3.11E-07
514	565687.9	4222749	1.19E-06	1.45E-06	7.66E-08	2.72E-06	6.31E-07	1.59E-06	7.66E-08	2.30E-06	1.56E-07	2.84E-07	2.51E-08	4.66E-07	1.21E-07	1.58E-07	1.14E-08	2.91E-07
515	565655.2	4222762	1.03E-06	1.25E-06	6.61E-08	2.35E-06	5.44E-07	1.37E-06	6.61E-08	1.99E-06	1.35E-07	2.45E-07	2.16E-08	4.01E-07	1.04E-07	1.36E-07	9.86E-09	2.51E-07
516	565638.9	4222769	9.45E-07	1.15E-06	6.08E-08	2.16E-06	5.01E-07	1.27E-06	6.08E-08	1.83E-06	1.24E-07	2.26E-07	1.99E-08	3.70E-07	9.61E-08	1.26E-07	9.08E-09	2.31E-07
517	565622.5	4222775	8.58E-07	1.05E-06	5.52E-08	1.96E-06	4.55E-07	1.15E-06	5.52E-08	1.66E-06	1.13E-07	2.05E-07	1.81E-08	3.35E-07	8.72E-08	1.14E-07	8.24E-09	2.09E-07
518	565606.2	4222782	8.91E-07	1.09E-06	5.74E-08	2.04E-06	4.73E-07	1.19E-06	5.74E-08	1.72E-06	1.17E-07	2.13E-07	1.88E-08	3.48E-07	9.06E-08	1.18E-07	8.56E-09	2.18E-07
519	565589.8	4222788	8.17E-07	9.98E-07	5.26E-08	1.87E-06	4.33E-07	1.09E-06	5.26E-08	1.58E-06	1.07E-07	1.95E-07	1.72E-08	3.19E-07	8.30E-08	1.09E-07	7.85E-09	1.99E-07
520	565557.1	4222801	6.88E-07	8.41E-07	4.43E-08	1.57E-06	3.65E-07	9.22E-07	4.43E-08	1.33E-06	9.04E-08	1.64E-07	1.45E-08	2.69E-07	7.00E-08	9.15E-08	6.62E-09	1.68E-07
521	565828	4222498	3.25E-06	3.97E-06	2.09E-07	7.43E-06	1.72E-06	4.35E-06	2.09E-07	6.29E-06	4.27E-07	7.76E-07	6.85E-08	1.27E-06	3.31E-07	4.32E-07	3.13E-08	7.94E-07
522	565828.2	4222489	3.28E-06	4E-06	2.11E-07	7.49E-06	1.74E-06	4.39E-06	2.11E-07	6.34E-06	4.30E-07	7.82E-07	6.90E-08	1.28E-06	3.33E-07	4.35E-07	3.15E-08	8.00E-07
523	565828.4	4222480	3.31E-06	4.05E-06	2.13E-07	7.57E-06	1.76E-06	4.44E-06	2.13E-07	6.41E-06	4.35E-07	7.90E-07	6.98E-08	1.30E-06	3.37E-07	4.40E-07	3.18E-08	8.09E-07
524	565844.2	4222516	2.99E-06	3.65E-06	1.93E-07	6.84E-06	1.59E-06	4.01E-06	1.93E-07	5.78E-06	3.93E-07	7.14E-07	6.30E-08	1.17E-06	3.04E-07	3.97E-07	2.87E-08	7.30E-07
525	565840.5	4222524	3E-06	3.66E-06	1.93E-07	6.86E-06	1.59E-06	4.02E-06	1.93E-07	5.80E-06	3.94E-07	7.16E-07	6.32E-08	1.17E-06	3.05E-07	3.98E-07	2.88E-08	7.32E-07
526	565833.3	4222541	2.99E-06	3.65E-06	1.92E-07	6.83E-06	1.58E-06	4.00E-06	1.92E-07	5.77E-06	3.92E-07	7.12E-07	6.29E-08	1.17E-06	3.03E-07	3.97E-07	2.87E-08	7.29E-07
527	565829.7	4222549	2.96E-06	3.62E-06	1.91E-07	6.78E-06	1.57E-06	3.97E-06	1.91E-07	5.73E-06	3.89E-07	7.07E-07	6.24E-08	1.16E-06	3.01E-07	3.94E-07	2.85E-08	7.23E-07
528	565815.2	4222582	2.81E-06	3.44E-06	1.81E-07	6.43E-06	1.49E-06	3.77E-06	1.81E-07	5.44E-06	3.69E-07	6.71E-07	5.93E-08	1.10E-06	2.86E-07	3.74E-07	2.70E-08	6.87E-07
529	565807.9	4222598	2.72E-06	3.32E-06	1.75E-07	6.21E-06	1.44E-06	3.64E-06	1.75E-07	5.25E-06	3.57E-07	6.48E-07	5.72E-08	1.06E-06	2.76E-07	3.61E-07	2.61E-08	6.63E-07
530	565800.7	4222615	2.6E-06	3.17E-06	1.67E-07	5.94E-06	1.38E-06	3.48E-06	1.67E-07	5.02E-06	3.41E-07	6.20E-07	5.47E-08	1.02E-06	2.64E-07	3.45E-07	2.50E-08	6.34E-07
531	565793.4	4222631	2.46E-06	3E-06	1.58E-07	5.62E-06	1.30E-06	3.29E-06	1.58E-07	4.75E-06	3.23E-07	5.86E-07	5.18E-08	9.61E-07	2.50E-07	3.27E-07	2.36E-08	6.00E-07
532	565786.2	4222648	2.3E-06	2.81E-06	1.48E-07	5.25E-06	1.22E-06	3.08E-06	1.48E-07	4.45E-06	3.02E-07	5.49E-07	4.84E-08	8.99E-07	2.34E-07	3.05E-07	2.21E-08	5.61E-07
533	565775.3	4222673	2.04E-06	2.5E-06	1.32E-07	4.67E-06	1.08E-06	2.74E-06	1.32E-07	3.95E-06	2.68E-07	4.87E-07	4.30E-08	7.99E-07	2.08E-07	2.71E-07	1.96E-08	4.99E-07
534	565768.1	4222689	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.90E-07	2.50E-06	1.20E-07	3.61E-06	2.45E-07	4.45E-07	3.93E-08	7.30E-07	1.90E-07	2.48E-07	1.79E-08	4.56E-07
535	565760.8	4222706	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.56E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4

548	565848.2	4222489	3.03E-06	3.7E-06	1.95E-07	6.93E-06	1.61E-06	4.06E-06	1.95E-07	5.86E-06	3.98E-07	7.23E-07	6.38E-08	1.19E-06	3.08E-07	4.03E-07	2.91E-08	7.40E-07
549	565848.4	4222480	3.06E-06	3.73E-06	1.97E-07	6.99E-06	1.62E-06	4.09E-06	1.97E-07	5.91E-06	4.02E-07	7.29E-07	6.44E-08	1.20E-06	3.11E-07	4.06E-07	2.94E-08	7.46E-07
550	565864.2	4222516	2.79E-06	3.4E-06	1.79E-07	6.37E-06	1.48E-06	3.73E-06	1.79E-07	5.39E-06	3.66E-07	6.65E-07	5.87E-08	1.09E-06	2.83E-07	3.70E-07	2.68E-08	6.80E-07
551	565860.6	4222524	2.8E-06	3.42E-06	1.80E-07	6.40E-06	1.48E-06	3.75E-06	1.80E-07	5.41E-06	3.68E-07	6.68E-07	5.89E-08	1.09E-06	2.84E-07	3.72E-07	2.69E-08	6.83E-07
552	565853.4	4222541	2.81E-06	3.43E-06	1.81E-07	6.42E-06	1.49E-06	3.76E-06	1.81E-07	5.43E-06	3.69E-07	6.71E-07	5.92E-08	1.10E-06	2.86E-07	3.73E-07	2.70E-08	6.86E-07
553	565849.9	4222549	2.8E-06	3.42E-06	1.80E-07	6.40E-06	1.49E-06	3.75E-06	1.80E-07	5.42E-06	3.68E-07	6.68E-07	5.90E-08	1.10E-06	2.85E-07	3.72E-07	2.69E-08	6.84E-07
554	565831.9	4222590	2.63E-06	3.22E-06	1.69E-07	6.02E-06	1.40E-06	3.53E-06	1.69E-07	5.09E-06	3.46E-07	6.28E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
555	565828.3	4222598	2.58E-06	3.15E-06	1.66E-07	5.90E-06	1.37E-06	3.46E-06	1.66E-07	4.99E-06	3.39E-07	6.16E-07	5.44E-08	1.01E-06	2.63E-07	3.43E-07	2.48E-08	6.30E-07
556	565821.2	4222614	2.48E-06	3.03E-06	1.60E-07	5.67E-06	1.32E-06	3.32E-06	1.60E-07	4.80E-06	3.26E-07	5.92E-07	5.22E-08	9.70E-07	2.52E-07	3.30E-07	2.38E-08	6.05E-07
557	565814	4222631	2.37E-06	2.9E-06	1.53E-07	5.42E-06	1.26E-06	3.18E-06	1.53E-07	4.59E-06	3.12E-07	5.66E-07	5.00E-08	9.28E-07	2.41E-07	3.15E-07	2.28E-08	5.79E-07
558	565810.4	4222639	2.31E-06	2.82E-06	1.49E-07	5.28E-06	1.22E-06	3.09E-06	1.49E-07	4.47E-06	3.03E-07	5.51E-07	4.86E-08	9.03E-07	2.35E-07	3.07E-07	2.22E-08	5.64E-07
559	565803.2	4222655	2.17E-06	2.65E-06	1.40E-07	4.96E-06	1.15E-06	2.90E-06	1.40E-07	4.19E-06	2.85E-07	5.18E-07	4.57E-08	8.48E-07	2.20E-07	2.88E-07	2.08E-08	5.29E-07
560	565799.7	4222663	2.1E-06	2.56E-06	1.35E-07	4.79E-06	1.11E-06	2.81E-06	1.35E-07	4.05E-06	2.75E-07	5.00E-07	4.41E-08	8.19E-07	2.13E-07	2.78E-07	2.01E-08	5.11E-07
561	565788.9	4222688	1.86E-06	2.28E-06	1.20E-07	4.26E-06	9.88E-07	2.50E-06	1.20E-07	3.60E-06	2.45E-07	4.45E-07	3.92E-08	7.29E-07	1.89E-07	2.48E-07	1.79E-08	4.55E-07
562	565781.7	4222704	1.71E-06	2.08E-06	1.10E-07	3.90E-06	9.04E-07	2.28E-06	1.10E-07	3.30E-06	2.24E-07	4.07E-07	3.59E-08	6.67E-07	1.73E-07	2.27E-07	1.64E-08	4.16E-07
563	565774.6	4222721	1.55E-06	1.89E-06	9.98E-08	3.54E-06	8.22E-07	2.08E-06	9.98E-08	3.00E-06	2.04E-07	3.70E-07	3.26E-08	6.06E-07	1.58E-07	2.06E-07	1.49E-08	3.78E-07
564	565771	4222729	1.47E-06	1.8E-06	9.48E-08	3.37E-06	7.81E-07	1.97E-06	9.48E-08	2.85E-06	1.94E-07	3.52E-07	3.10E-08	5.76E-07	1.50E-07	1.96E-07	1.42E-08	3.60E-07
565	565748.3	4222765	1.16E-06	1.42E-06	7.46E-08	2.65E-06	6.15E-07	1.55E-06	7.46E-08	2.24E-06	1.52E-07	2.77E-07	2.44E-08	4.53E-07	1.18E-07	1.54E-07	1.11E-08	2.83E-07
566	565731.7	4222771	1.09E-06	1.33E-06	7.03E-08	2.50E-06	5.79E-07	1.46E-06	7.03E-08	2.11E-06	1.43E-07	2.60E-07	2.30E-08	4.27E-07	1.11E-07	1.45E-07	1.05E-08	2.66E-07
567	565723.5	4222775	1.05E-06	1.29E-06	6.78E-08	2.41E-06	5.58E-07	1.41E-06	6.78E-08	2.04E-06	1.38E-07	2.51E-07	2.22E-08	4.12E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
568	565706.9	4222781	9.77E-07	1.19E-06	6.29E-08	2.23E-06	5.18E-07	1.31E-06	6.29E-08	1.89E-06	1.28E-07	2.33E-07	2.06E-08	3.82E-07	9.93E-08	1.30E-07	9.38E-09	2.38E-07
569	565682	4222791	8.75E-07	1.07E-06	5.63E-08	2.00E-06	4.64E-07	1.17E-06	5.63E-08	1.69E-06	1.15E-07	2.09E-07	1.84E-08	3.42E-07	8.89E-08	1.16E-07	8.41E-09	2.14E-07
570	565665.4	4222798	8.11E-07	9.91E-07	5.22E-08	1.85E-06	4.30E-07	1.09E-06	5.22E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.17E-07	8.25E-08	1.08E-07	7.80E-09	1.98E-07
571	565657.1	4222801	7.82E-07	9.55E-07	5.03E-08	1.79E-06	4.14E-07	1.05E-06	5.03E-08	1.51E-06	1.03E-07	1.86E-07	1.65E-08	3.06E-07	7.94E-08	1.04E-07	7.51E-09	1.91E-07
572	565640.5	4222808	7.23E-07	8.84E-07	4.66E-08	1.65E-06	3.84E-07	9.69E-07	4.66E-08	1.40E-06	9.50E-08	1.73E-07	1.52E-08	2.83E-07	7.35E-08	9.61E-08	6.95E-09	1.77E-07
573	565607.3	4222821	6.18E-07	7.55E-07	3.98E-08	1.41E-06	3.28E-07	8.28E-07	3.98E-08	1.20E-06	8.12E-08	1.47E-07	1.30E-08	2.42E-07	6.28E-08	8.21E-08	5.94E-09	1.51E-07
574	565599	4222824	5.96E-07	7.27E-07	3.83E-08	1.36E-06	3.16E-07	7.97E-07	3.83E-08	1.15E-06	7.82E-08	1.42E-07	1.25E-08	2.33E-07	6.05E-08	7.91E-08	5.72E-09	1.45E-07
575	565557.5	4222841	5.1E-07	6.23E-07	3.28E-08	1.17E-06	2.71E-07	6.83E-07	3.28E-08	9.86E-07	6.70E-08	1.22E-07	1.07E-08	1.99E-07	5.18E-08	6.78E-08	4.90E-09	1.25E-07
576	565868	4222499	2.8E-06	3.42E-06	1.80E-07	6.40E-06	1.49E-06	3.75E-06	1.80E-07	5.42E-06	3.68E-07	6.68E-07	5.90E-08	1.10E-06	2.85E-07	3.72E-07	2.69E-08	6.84E-07
577	565868.2	4222490	2.82E-06	3.45E-06	1.82E-07	6.45E-06	1.50E-06	3.78E-06	1.82E-07	5.46E-06	3.71E-07	6.73E-07	5.94E-08	1.10E-06	2.87E-07	3.75E-07	2.71E-08	6.89E-07
578	565868.4	4222481	2.84E-06	3.47E-06	1.83E-07	6.50E-06	1.51E-06	3.81E-06	1.83E-07	5.49E-06	3.73E-07	6.78E-07	5.99E-08	1.11E-06	2.89E-07	3.78E-07	2.73E-08	6.94E-07
579	565884.2	4222517	2.61E-06	3.19E-06	1.68E-07	5.97E-06	1.38E-06	3.50E-06	1.68E-07	5.05E-06	3.43E-07	6.23E-07	5.50E-08	1.02E-06	2.65E-07	3.47E-07	2.51E-08	6.37E-07
580	565877.1	4222533	2.63E-06	3.21E-06	1.69E-07	6.01E-06	1.39E-06	3.52E-06	1.69E-07	5.09E-06	3.45E-07	6.28E-07	5.54E-08	1.03E-06	2.67E-07	3.49E-07	2.53E-08	6.42E-07
581	565873.6	4222541	2.64E-06	3.22E-06	1.70E-07	6.02E-06	1.40E-06	3.53E-06	1.70E-07	5.09E-06	3.46E-07	6.29E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
582	565866.5	4222557	2.62E-06	3.2E-06	1.69E-07	5.99E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.44E-07	6.25E-07	5.52E-08	1.02E-06	2.66E-07	3.48E-07	2.52E-08	6.39E-07
583	565859.4	4222573	2.58E-06	3.15E-06	1.66E-07	5.90E-06	1.37E-06	3.46E-06	1.66E-07	4.99E-06	3.39E-07	6.16E-07	5.43E-08	1.01E-06	2.62E-07	3.43E-07	2.48E-08	6.30E-07
584	565845.1	4222606	2.44E-06	2.98E-06	1.57E-07	5.57E-06	1.29E-06	3.26E-06	1.57E-07	4.71E-06	3.20E-07	5.82E-07	5.14E-08	9.53E-07	2.48E-07	3.24E-07	2.34E-08	5.95E-07
585	565841.6	4222614	2.39E-06	2.92E-06	1.54E-07	5.46E-06	1.27E-06	3.20E-06	1.54E-07	4.62E-06	3.14E-07	5.70E-07	5.03E-08	9.34E-07	2.43E-07	3.17E-07	2.30E-08	5.83E-07
586	565834.5	4222630	2.29E-06	2.79E-06	1.47E-07	5.22E-06	1.21E-06	3.06E-06	1.47E-07	4.42E-06	3.00E-07	5.45E-07	4.81E-08	8.94E-07	2.32E-07	3.04E-07	2.20E-08	5.58E-07
587	565827.4	4222646	2.17E-06	2.65E-06	1.40E-07	4.97E-06	1.15E-06	2.91E-06	1.40E-07	4.20E-06	2.85E-07	5.19E-07	4.58E-08	8.50E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
588	565823.8	4222654	2.11E-06	2.58E-06	1.36E-07	4.83E-06	1.12E-06	2.83E-06	1.36E-07	4.08E-06	2.77E-07	5.04E-07	4.45E-08	8.26E-07	2.15E-07	2.81E-07	2.03E-08	5.16E-07
589	565816.7	4222671	1.98E-06	2.42E-06	1.27E-07	4.53E-06	1.05E-06	2.65E-06	1.27E-07	3.83E-06	2.60E-07	4.73E-07	4.17E-08	7.74E-07	2.01E-07	2.63E-07	1.90E-08	4.83E-07
590	565799	4222711	1.63E-06	1.99E-06	1.05E-07	3.73E-06	8.65E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.89E-07	3.43E-08	6.38E-07	1.66E-07	2.17E-07	1.57E-08	3.98E-07
591	565791.9	4222727	1.49E-06	1.82E-06	9.61E-08	3.41E-06	7.92E-07	2.00E-06	9.61E-08	2.89E-06	1.96E-07	3.56E-07	3.15E-08	5.84E-07	1.52E-07	1.98E-07	1.44E-08	3.65E-07
592	565784.8	4222743	1.36E-06	1.66E-06	8.73E-08	3.10E-06	7.19E-07	1.82E-06	8.73E-08	2.62E-06	1.78E-07	3.24E-07	2.86E-08	5.30E-07	1.38E-07	1.80E-07	1.30E-08	3.31E-07
593	565762.3	4222779	1.07E-06	1.31E-06	6.88E-08	2.44E-06	5.67E-07	1.43E-06	6.88E-08	2.07E-06	1.40E-07	2.55E-07	2.25E-08	4.18E-07	1.09E-07	1.42E-07	1.03E-08	2.61E-07
594	565745.9	4222786	1.01E-06	1.23E-06	6.50E-08	2.31E-06	5.36E-07	1.35E-06	6.50E-08	1.95E-06	1.33E-07	2.41E-07	2.13E-08	3.95E-07	1.03E-07	1.34E-07	9.70E-09	2.47E-07
595	565729.4	4222792	9.48E-07	1.16E-06	6.10E-08	2.17E-06	5.02E-07	1.27E-06	6.10E-08	1.83E-06	1.24E-07	2.26E-07	2.00E-08	3.71E-07	9.63E-08	1.26E-07	9.11E-09	2.31E-07
596	565696.6	4222805	8.22E-07	1E-06	5.29E-08	1.88E-06	4.36E-07	1.10E-06	5.29E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.21E-07	8.35E-08	1.09E-07	7.90E-09	2.01E-07
597	565680.1	4222812	7.61E-07	9.3E-07	4.90E-08	1.74E-06	4.04E-07	1.02E-06	4.90E-08	1.47E-06	1.00E-07	1.82E-07	1.60E-08	2.98E-07	7.74E-08	1.01E-07	7.31E-09	1.86E-07
598	565663.7	4222819	7.06E-07	8.63E-07	4.55E-08	1.61E-06	3.75E-07	9.46E-07	4.55E-08	1.37E-06	9.28E-08	1.69E-07	1.49E-08	2.76E-07	7.18E-08	9.39E-08	6.79E-09	1.72E-07
599	565647.2	4222825	6.58E-07	8.03E-07	4.23E-08	1.50E-06	3.49E-07	8.81E-07	4.23E-08	1.27E-06	8.64E-08	1.57E-07	1.39E-08	2.57E-07	6.68E-08	8.74E-08	6.32E-09	1.61E-07
600	565614.4	4222838	5.67E-07	6.92E-07	3.65E-08	1.30E-06	3.00E-07	7.59E-07	3.65E-08	1.10E-06	7.44E-08	1.35E-07	1.19E-08	2.22E-07	5.76E-08	7.53E-08	5.44E-09	1.38E-07
601	565556.8	4222861	4.61E-07	5.63E-07	2.97E-08	1.05E-06	2.45E-07	6.18E-07	2.97E-08	8.92E-07	6.06E-08	1.10E-07	9.72E-09	1.80E-07	4.69E-08	6.13E-08	4.43E-09	1.13E-07
602	565888	4222499	2.62E-06	3.2E-06	1.69E-07	5.99E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.44E-07	6.25E-07	5.52E-08	1.02E-06	2.66E-07	3.48E-07	2.52E-08	6.39E-07
603	565888.2	4222490	2.64E-06	3.22E-06	1.70E-07	6.03E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
604	565888.4	4222481	2.65E-06	3.24E-06	1.71E-07	6.06E-06	1.41E-06	3.55E-06	1.71E-07	5.13E-06	3.48E-07	6.33E-07	5.59E-08	1.04E-06	2.70E-07	3.52E-07	2.55E-08	6.48E-07
605	565904.1	4222517	2.44E-06	2.98E-06	1.57E-07	5.58E-06	1.29E-06	3.27E-06	1.57E-07	4.72E-06	3.20E-07	5.82E-07	5.14E-08	9.54E-07	2.48E-07	3.24E-07	2.34E-08	5.95E-07
606	565900.5	4222525	2.45E-06	3E-06	1.58E-07	5.61E-06	1.30E-06	3.29E-06	1.58E-07	4.75E-06	3.22E-07	5.86E-07	5.17E-08	9.60E-07	2.49E-07	3.26E-07	2.36E-08	5.99E-07
607	565893.3	4222542	2.47E-06	3.02E-06	1.59E-07	5.65E-06	1.31E-06	3.31E-06	1.59E-07	4.78E-06	3.25E-07	5.90E-07	5.21E-08	9.67E-07	2.51E-07	3.28E-07	2.38E-08	6.03E-07
608	565889.6	4222550	2.47E-06	3.02E-06	1.59E-07	5.65E-06	1.31E-06	3.31E-06	1.59E-07	4.78E-06	3.25E-07	5.90E-07	5.20E-08	9.66E-07	2.51E-07	3.28E-07	2.37E-08	6.03E-07
609	565882.4	4222567	2.45E-06	2.99E-06	1.58E-07	5.60E-06	1.30E-06	3.28E-06	1.58E-07	4.73E-06	3.21E-07	5.84E-07	5.16E-08	9.57E-07	2.49E-07	3.25E-07	2.35E-08	5.98E-07
610	565875.1	4222583	2.41E-06	2.95E-06	1.55E-07	5.51E-06	1.28E-06	3.23E-06	1.55E-07	4.66E-06	3.17E-07	5.75E-07	5.08E-08	9.43E-07	2.45E-07	3.20E-07	2.32E-08	5.89E-07
611	565860.6	4222616	2.28E-06	2.78E-06	1.47E-07	5.21E-06	1.21E-06	3.05E-06	1.47E-07	4.41E-06	2.99E-07	5.44E-07	4.80E-08	8.91E-07	2.32E-07	3.03E-07	2.19E-08	5.56E-07
612	565857	4222625	2.23E-06	2.72E-06	1.44E-07	5.10E-06	1.18E-06	2.99E-06	1.44E-07	4.31E-06	2.93E-07	5.32E-07	4.70E-08	8.72E-07	2.27E-07	2.96E-07	2.14E-08	5.44E-07
613	565849.7	4222641	2.13E-06	2.6E-06	1.37E-07	4.86E-06	1.13E-06	2.85E-06	1.37E-07	4.11E-06	2.79E-07	5.07E-07	4.48E-08	8.31E-07	2.16E-07	2.82E-07	2.04E-08	5.19E-07
614	565842.5	4222658	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.70E-06	1.30E-07	3.91E-06	2.65E-07	4.82E-07	4.25E-08	7.90E-07	2.05E-07	2.68E-07	1.94E-08	4.93E-07
615	565835.2	4222674	1.9E-06	2.32E-06	1.22E-07	4.34E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.49E-07	4.53E-07	4.00E-08	7.42E-07	1.93E-07	2.52E-07	1.82E-08	4.63E-07
616	565828	4222691	1.76E-06	2.15E-06	1.13E-07	4.02E-06	9.33E-07	2.36E-06	1.13E-07	3.40E-06	2.31E-07	4.20E-07	3.71E-08	6.88E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
617	565824.3	4222699	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.56E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
618	565817.1	4222716	1.57E-06	1.91E-06	1.01E-07	3.58E-06	8.31E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.74E-07	3.30E-08	6.13E-07	1.59E-07	2.08E-07	1.51E-08	3.82E-07
619	565809.8	4222732	1.44E-06	1.76E-06	9.27E-08	3.29E-06	7.64E-07	1.93E-06	9.27E-08	2.79E-06	1.89E-07	3.44E-07	3.03E-08	5.63E-07	1.46E-07	1.91E-07	1.38E-08	3.52E-07
620	565802.6	4222749	1.32E-06	1.61E-06	8.47E-08	3.01E-06	6.98E-07	1.76E-06	8.47E-08	2.55E-06	1.73E-07	3.14E-07	2.77E-08	5.15E-07	1.34E-07	1.75E-07	1.26E-08	3.21E-07
621	565795.3	4222765	1.2E-06	1.46E-06	7.70E-08	2.73E-06	6.34E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.68E-07	1.22E-07	1.59E-07	1.15E-08	2.92E-07
622	565776.1	4222794	9.96E-07	1.22E-06	6.41E-08	2.28E-06	5.28E-07	1.33E-06	6.41E-08	1.93E-06	1.31E-07	2.38E-07	2.10E-08	3.90E-07	1.01E-07	1.32E-07	9.57E-09	2.43E-07
623	565767.7	4222797	9.67E-07	1.18E-06	6.22E-08	2.21E-06	5.13E-07	1.29E-06	6.22E-08	1.87E-06	1.27E-07	2.31E-07	2.04E-08	3.78E-07	9.83E-08	1.28E-07	9.29E-09	2.36E-07
624	565759.3	4222800	9.39E-07	1.15E-06	6.04E-08	2.15E-06	4.98E-07	1.26E-06	6.04E-08	1.81E-06	1.23E-07	2.24E-07	1.98E-08	3.67E-07	9.54E-08	1.25E-07	9.02E-09	2.29E-07
625	565742.5	4222807	8.8E-07	1.08E-06	5.67E-08	2.01E-06	4.67E-07	1.18E-06	5.67E-08	1.70E-06	1.16E-07	2.10E-07	1.85E-08	3.44E-07	8.94E-08	1.17E-07	8.46E-09	2.15E-07
626	565734.1	4222810	8.5E-07	1.04E-06	5.47E-08	1.94E-06	4.51E-07	1.14E-06	5.47E-08	1.64E-06	1.12E-07	2.03E-07	1.79E-08	3.32E-07	8.64E-08	1.13E-07	8.16E-09	2.07E-07
627	565717.3	4222817	7.94E-07	9.7E-07	5.11E-08	1.82E-06	4.21E-07	1.06E-06	5.11E-08	1.54E-06	1.04E-07	1.90E-07	1.67E-08	3.11E-07	8.07E-08	1.06E-07	7.63E-09	1.94E-07
628	565708.9	4222820	7.68E-07	9.38E-07	4.95E-08	1.76E-06	4.07E-07	1.03E-06	4.95E-08	1.49E-06	1.01E-07	1.83E-07	1.62E-08	3.00E-07	7.81E-08	1.02E-07	7.38E-09	1.88E-07
629	565700.5	4222824	7.42E-07	9.06E-07	4.77E-08	1.70E-06	3.93E-07	9.93E-07	4.77E-08	1.43E-06	9.74E-08	1.77E-07	1.56E-08	2.90E-07	7.54E-08	9.85E-08	7.13E-09	1.81E-07
630	565683.7	4222830	6.87E-07	8.39E-07	4.42E-08	1.57E-06	3.64E-07	9.20E-07	4.42E-08	1.33E-06	9.02E-08	1.64E-07	1.45E-08	2.69E-07	6.98E-08	9.13E-08	6.60E-09	1.68E-07
631	565675.3	4222834	6.61E-07	8.07E-07	4.25E-08	1.51E-06	3.50E-07	8.85E-07	4.25E-08	1.28E-06	8.68E-08	1.58E-07	1.39E-08	2.58E-07	6.72E-08	8.78E-08	6.35E-09	1.61E-07
632	565658.5	4222841	6.14E-07	7.49E-07	3.95E-08	1.40E-06	3.25E-07	8.22E-07	3.95E-08	1.19E-06	8.06E-08	1.46E-07	1.29E-08	2.40E-07	6.24E-08	8.15E-08	5.90E-09	1.50E-07
633	565633.4	4222851	5.44E-07	6.64E-07	3.50E-08	1.24E-06	2.88E-07	7.28E-07	3.50E-08	1.05E-06	7.14E-08	1.30E-07	1.15E-08	2.13E-07	5.53E-08	7.23E-08	5.23E-09	1.33E-07
634	565625	4222854	5.22E-07	6.37E-07	3.36E-08	1.19E-06	2.77E-07	6.98E-07	3.36E-08	1.01E-06	6.85E-08	1.24E-07	1.10E-08	2.04E-07	5.30E-08	6.93E-08	5.01E-09	1.27E-07
635	565557.8	4222881	4.2E-07	5.14E-07	2.71E-08	9.61E-07	2.23E-07	5.63E-07	2.71E-08	8.13E-07	5.52E-08	1.00E-07	8.86E-09	1.64E-07	4.27E-08	5.59E-08	4.04E-09	1.03E-07
636	565908	4222500	2.45E-06	2.99E-06	1.58E-07	5.60E-06	1.30E-06	3.28E-06	1.58E-07	4.74E-06	3.22E-07	5.84E-07	5.16E-08	9.58E-07	2.49E-07	3.25E-07	2.35E-08	5.98E-07
637	565908.2	4222491	2.47E-06	3.01E-06	1.59E-07	5.64E-06	1.31E-06	3.30E-06	1.59E-07	4.77E-06	3.24E-07	5.89E-07	5.20E-08	9.65E-07	2.51E-07	3.28E-07	2.37E-08	6.02E-07
638	565908.4	4222482	2.48E-06	3.03E-06	1.60E-07	5.67E-06	1.32E-06	3.32E-06	1.60E-07	4.80E-06	3.26E-07	5.92E-07	5.23E-08	9.70E-07	2.52E-07	3.30E-07	2.38E-08	6.06E-07
639	565924.2	4222518	2.29E-06	2.79E-06	1.47E-07	5.23E-06	1.21E-06	3.06E-06	1.47E-07	4.42E-06	3.01E-07	5.46E-07	4.82E-08	8.95E-07	2.33E-07	3.04E-07	2.20E-08	5.59E-07
640	565920.6	4222526	2.3E-06	2.81E-06	1.48E-07	5.26E-06	1.22E-06	3.08E-06	1.48E-07	4.45E-06	3.02E-07	5.49E-07	4.85E-08	9.00E-07	2.34E-07	3.06E-07	2.21E-08	5.62E-07
641	565913.4	4222542	2.32E-06	2.83E-06	1.49E-07	5.30E-06	1.23E-06	3.11E-06	1.49E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.07E-07	2.36E-07	3.08E-07	2.23E-08	5.66E-07
642	565909.8	4222550	2.32E-06	2.84E-06	1.49E-07	5.31E-06	1.23E-06	3.11E-06	1.49E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.08E-07	2.36E-07	3.08E-07	2.23E-08	5.67E-07
643	565902.6	4222567	2.31E-06	2.82E-06	1.48E-07	5.27E-06	1.22E-06	3.09E-06	1.48E-07	4.46E-06	3.03E-07	5.50E-07	4.86E-08	9.02E-07	2.34E-07	3.06E-07	2.22E-08	5.63E-07
644	565895.4	4222583	2.28E-06	2.78E-06	1.47E-07	5.21E-06	1.21E-06	3.05E-06	1.47E-07	4.41E-06	2.99E-07	5.44E-07	4.80E-08	8.92E-07	2.32E-07	3.03E-07	2.19E-08	5.57E-07
645	565891.8	4222591	2.26E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.03E-06	1.46E-07	4.38E-06	2.97E-07	5.40E-07	4.77E-08	8.85E-07	2.30E-07	3.01E-07	2.18E-08

658	565790	4222808	9.35E-07	1.14E-06	6.02E-08	2.14E-06	4.96E-07	1.25E-06	6.02E-08	1.81E-06	1.23E-07	2.23E-07	1.97E-08	3.66E-07	9.51E-08	1.24E-07	8.99E-09	2.28E-07
659	565781.7	4222811	9.09E-07	1.11E-06	5.85E-08	2.08E-06	4.82E-07	1.22E-06	5.85E-08	1.76E-06	1.19E-07	2.17E-07	1.91E-08	3.55E-07	9.24E-08	1.21E-07	8.73E-09	2.22E-07
660	565765.1	4222818	8.55E-07	1.04E-06	5.50E-08	1.95E-06	4.53E-07	1.15E-06	5.50E-08	1.65E-06	1.12E-07	2.04E-07	1.80E-08	3.34E-07	8.69E-08	1.14E-07	8.22E-09	2.09E-07
661	565756.8	4222821	8.28E-07	1.01E-06	5.33E-08	1.89E-06	4.39E-07	1.11E-06	5.33E-08	1.60E-06	1.09E-07	1.98E-07	1.74E-08	3.24E-07	8.42E-08	1.10E-07	7.96E-09	2.02E-07
662	565723.5	4222835	7.25E-07	8.85E-07	4.66E-08	1.66E-06	3.84E-07	9.70E-07	4.66E-08	1.40E-06	9.52E-08	1.73E-07	1.53E-08	2.83E-07	7.36E-08	9.63E-08	6.96E-09	1.77E-07
663	565715.2	4222838	7.02E-07	8.57E-07	4.52E-08	1.60E-06	3.72E-07	9.39E-07	4.52E-08	1.36E-06	9.21E-08	1.67E-07	1.48E-08	2.74E-07	7.13E-08	9.32E-08	6.74E-09	1.71E-07
664	565698.5	4222845	6.56E-07	8.01E-07	4.22E-08	1.50E-06	3.48E-07	8.78E-07	4.22E-08	1.27E-06	8.61E-08	1.56E-07	1.38E-08	2.56E-07	6.66E-08	8.71E-08	6.30E-09	1.60E-07
665	565690.2	4222848	6.31E-07	7.7E-07	4.06E-08	1.44E-06	3.34E-07	8.44E-07	4.06E-08	1.22E-06	8.28E-08	1.50E-07	1.33E-08	2.47E-07	6.41E-08	8.38E-08	6.06E-09	1.54E-07
666	565673.6	4222854	5.82E-07	7.11E-07	3.75E-08	1.33E-06	3.09E-07	7.79E-07	3.75E-08	1.13E-06	7.65E-08	1.39E-07	1.23E-08	2.28E-07	5.92E-08	7.73E-08	5.59E-09	1.42E-07
667	565648.6	4222864	5.18E-07	6.33E-07	3.34E-08	1.18E-06	2.75E-07	6.94E-07	3.34E-08	1.00E-06	6.81E-08	1.24E-07	1.09E-08	2.03E-07	5.27E-08	6.89E-08	4.98E-09	1.27E-07
668	565632	4222871	4.79E-07	5.85E-07	3.08E-08	1.09E-06	2.54E-07	6.41E-07	3.08E-08	9.26E-07	6.29E-08	1.14E-07	1.01E-08	1.87E-07	4.87E-08	6.36E-08	4.60E-09	1.17E-07
669	565557.1	4222901	3.82E-07	4.66E-07	2.46E-08	8.72E-07	2.02E-07	5.11E-07	2.46E-08	7.38E-07	5.01E-08	9.11E-08	8.04E-09	1.49E-07	3.88E-08	5.07E-08	3.67E-09	9.32E-08
670	565928	4222500	2.3E-06	2.81E-06	1.48E-07	5.25E-06	1.22E-06	3.08E-06	1.48E-07	4.45E-06	3.02E-07	5.49E-07	4.84E-08	8.99E-07	2.34E-07	3.05E-07	2.21E-08	5.61E-07
671	565928.2	4222491	2.31E-06	2.83E-06	1.49E-07	5.29E-06	1.23E-06	3.10E-06	1.49E-07	4.47E-06	3.04E-07	5.52E-07	4.87E-08	9.05E-07	2.35E-07	3.07E-07	2.22E-08	5.65E-07
672	565928.4	4222482	2.33E-06	2.84E-06	1.50E-07	5.32E-06	1.23E-06	3.11E-06	1.50E-07	4.50E-06	3.05E-07	5.55E-07	4.90E-08	9.09E-07	2.36E-07	3.09E-07	2.23E-08	5.68E-07
673	565944.2	4222518	2.16E-06	2.63E-06	1.39E-07	4.93E-06	1.14E-06	2.89E-06	1.39E-07	4.17E-06	2.83E-07	5.14E-07	4.54E-08	8.43E-07	2.19E-07	2.86E-07	2.07E-08	5.26E-07
674	565937.1	4222534	2.17E-06	2.66E-06	1.40E-07	4.97E-06	1.15E-06	2.91E-06	1.40E-07	4.20E-06	2.85E-07	5.19E-07	4.58E-08	8.50E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
675	565929.9	4222551	2.18E-06	2.67E-06	1.41E-07	4.99E-06	1.16E-06	2.92E-06	1.41E-07	4.22E-06	2.87E-07	5.21E-07	4.60E-08	8.54E-07	2.22E-07	2.90E-07	2.10E-08	5.33E-07
676	565922.8	4222567	2.17E-06	2.66E-06	1.40E-07	4.97E-06	1.15E-06	2.91E-06	1.40E-07	4.20E-06	2.86E-07	5.19E-07	4.58E-08	8.50E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
677	565915.7	4222583	2.15E-06	2.63E-06	1.39E-07	4.92E-06	1.14E-06	2.88E-06	1.39E-07	4.16E-06	2.83E-07	5.14E-07	4.53E-08	8.42E-07	2.19E-07	2.86E-07	2.07E-08	5.26E-07
678	565908.5	4222599	2.12E-06	2.59E-06	1.37E-07	4.85E-06	1.13E-06	2.84E-06	1.37E-07	4.10E-06	2.79E-07	5.06E-07	4.47E-08	8.30E-07	2.16E-07	2.82E-07	2.04E-08	5.18E-07
679	565901.4	4222616	2.08E-06	2.54E-06	1.34E-07	4.75E-06	1.10E-06	2.78E-06	1.34E-07	4.02E-06	2.73E-07	4.96E-07	4.38E-08	8.13E-07	2.11E-07	2.76E-07	2.00E-08	5.08E-07
680	565890.7	4222640	1.98E-06	2.42E-06	1.27E-07	4.53E-06	1.05E-06	2.65E-06	1.27E-07	3.83E-06	2.60E-07	4.73E-07	4.17E-08	7.74E-07	2.01E-07	2.63E-07	1.90E-08	4.83E-07
681	565883.6	4222656	1.89E-06	2.31E-06	1.22E-07	4.33E-06	1.00E-06	2.54E-06	1.22E-07	3.66E-06	2.49E-07	4.52E-07	3.99E-08	7.41E-07	1.93E-07	2.52E-07	1.82E-08	4.62E-07
682	565876.4	4222673	1.8E-06	2.2E-06	1.16E-07	4.11E-06	9.53E-07	2.41E-06	1.16E-07	3.48E-06	2.36E-07	4.29E-07	3.79E-08	7.03E-07	1.83E-07	2.39E-07	1.73E-08	4.39E-07
683	565869.3	4222689	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.98E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.57E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
684	565862.2	4222705	1.59E-06	1.94E-06	1.02E-07	3.63E-06	8.41E-07	2.12E-06	1.02E-07	3.07E-06	2.08E-07	3.79E-07	3.34E-08	6.20E-07	1.61E-07	2.11E-07	1.52E-08	3.87E-07
685	565858.6	4222713	1.54E-06	1.87E-06	9.88E-08	3.51E-06	8.14E-07	2.06E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.47E-08	3.75E-07
686	565844.3	4222746	1.32E-06	1.61E-06	8.47E-08	3.01E-06	6.98E-07	1.76E-06	8.47E-08	2.54E-06	1.73E-07	3.14E-07	2.77E-08	5.15E-07	1.34E-07	1.75E-07	1.26E-08	3.21E-07
687	565837.2	4222762	1.21E-06	1.48E-06	7.78E-08	2.76E-06	6.41E-07	1.62E-06	7.78E-08	2.34E-06	1.59E-07	2.88E-07	2.55E-08	4.73E-07	1.23E-07	1.61E-07	1.16E-08	2.95E-07
688	565830.1	4222778	1.11E-06	1.35E-06	7.13E-08	2.53E-06	5.88E-07	1.48E-06	7.13E-08	2.14E-06	1.46E-07	2.64E-07	2.33E-08	4.33E-07	1.13E-07	1.47E-07	1.06E-08	2.71E-07
689	565823	4222795	1.02E-06	1.24E-06	6.53E-08	2.32E-06	5.38E-07	1.36E-06	6.53E-08	1.96E-06	1.33E-07	2.42E-07	2.14E-08	3.97E-07	1.03E-07	1.35E-07	9.75E-09	2.48E-07
690	565804	4222822	8.73E-07	1.07E-06	5.62E-08	2.00E-06	4.63E-07	1.17E-06	5.62E-08	1.69E-06	1.15E-07	2.08E-07	1.84E-08	3.41E-07	8.87E-08	1.16E-07	8.39E-09	2.13E-07
691	565787.5	4222829	8.32E-07	1.02E-06	5.36E-08	1.90E-06	4.41E-07	1.11E-06	5.36E-08	1.61E-06	1.09E-07	1.99E-07	1.75E-08	3.25E-07	8.46E-08	1.11E-07	7.99E-09	2.03E-07
692	565771	4222836	7.83E-07	9.56E-07	5.04E-08	1.79E-06	4.15E-07	1.05E-06	5.04E-08	1.51E-06	1.03E-07	1.87E-07	1.65E-08	3.06E-07	7.96E-08	1.04E-07	7.52E-09	1.91E-07
693	565738	4222849	6.84E-07	8.36E-07	4.40E-08	1.56E-06	3.63E-07	9.16E-07	4.40E-08	1.32E-06	8.98E-08	1.63E-07	1.44E-08	2.67E-07	6.95E-08	9.09E-08	6.57E-09	1.67E-07
694	565721.5	4222855	6.36E-07	7.77E-07	4.09E-08	1.45E-06	3.37E-07	8.52E-07	4.09E-08	1.23E-06	8.35E-08	1.52E-07	1.34E-08	2.49E-07	6.46E-08	8.45E-08	6.11E-09	1.55E-07
695	565705	4222862	5.9E-07	7.21E-07	3.80E-08	1.35E-06	3.13E-07	7.90E-07	3.80E-08	1.14E-06	7.75E-08	1.41E-07	1.24E-08	2.31E-07	6.00E-08	7.84E-08	5.67E-09	1.44E-07
696	565688.5	4222868	5.47E-07	6.68E-07	3.52E-08	1.25E-06	2.90E-07	7.33E-07	3.52E-08	1.06E-06	7.19E-08	1.31E-07	1.15E-08	2.14E-07	5.56E-08	7.27E-08	5.26E-09	1.34E-07
697	565672	4222875	5.1E-07	6.23E-07	3.28E-08	1.17E-06	2.70E-07	6.83E-07	3.28E-08	9.86E-07	6.70E-08	1.22E-07	1.07E-08	1.99E-07	5.18E-08	6.77E-08	4.90E-09	1.24E-07
698	565655.5	4222882	4.74E-07	5.79E-07	3.05E-08	1.08E-06	2.51E-07	6.35E-07	3.05E-08	9.16E-07	6.22E-08	1.13E-07	9.98E-09	1.85E-07	4.82E-08	6.30E-08	4.55E-09	1.16E-07
699	565639	4222888	4.41E-07	5.39E-07	2.84E-08	1.01E-06	2.34E-07	5.91E-07	2.84E-08	8.53E-07	5.79E-08	1.05E-07	9.29E-09	1.73E-07	4.48E-08	5.86E-08	4.24E-09	1.08E-07
700	565948	4222501	2.16E-06	2.64E-06	1.39E-07	4.94E-06	1.15E-06	2.90E-06	1.39E-07	4.18E-06	2.84E-07	5.16E-07	4.56E-08	8.46E-07	2.20E-07	2.87E-07	2.08E-08	5.28E-07
701	565948.2	4222492	2.18E-06	2.66E-06	1.40E-07	4.97E-06	1.15E-06	2.91E-06	1.40E-07	4.21E-06	2.86E-07	5.19E-07	4.58E-08	8.51E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
702	565948.4	4222483	2.18E-06	2.67E-06	1.41E-07	4.99E-06	1.16E-06	2.93E-06	1.41E-07	4.22E-06	2.87E-07	5.21E-07	4.60E-08	8.54E-07	2.22E-07	2.90E-07	2.10E-08	5.33E-07
703	565964.2	4222518	2.03E-06	2.48E-06	1.31E-07	4.65E-06	1.08E-06	2.72E-06	1.31E-07	3.93E-06	2.67E-07	4.85E-07	4.28E-08	7.95E-07	2.07E-07	2.70E-07	1.95E-08	4.96E-07
704	565957.1	4222535	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.88E-07	4.31E-08	8.00E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
705	565950.1	4222551	2.05E-06	2.51E-06	1.32E-07	4.70E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.33E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
706	565946.5	4222559	2.05E-06	2.51E-06	1.32E-07	4.69E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.32E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
707	565939.4	4222575	2.04E-06	2.5E-06	1.32E-07	4.67E-06	1.08E-06	2.74E-06	1.32E-07	3.95E-06	2.68E-07	4.88E-07	4.30E-08	7.99E-07	2.08E-07	2.72E-07	1.96E-08	4.99E-07
708	565932.4	4222591	2.02E-06	2.47E-06	1.30E-07	4.63E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.66E-07	4.83E-07	4.26E-08	7.91E-07	2.06E-07	2.69E-07	1.94E-08	4.94E-07
709	565925.3	4222607	1.99E-06	2.43E-06	1.28E-07	4.56E-06	1.06E-06	2.67E-06	1.28E-07	3.85E-06	2.62E-07	4.76E-07	4.20E-08	7.79E-07	2.03E-07	2.65E-07	1.91E-08	4.86E-07
710	565918.2	4222623	1.95E-06	2.38E-06	1.26E-07	4.46E-06	1.03E-06	2.61E-06	1.26E-07	3.77E-06	2.56E-07	4.65E-07	4.11E-08	7.62E-07	1.98E-07	2.59E-07	1.87E-08	4.76E-07
711	565904	4222656	1.82E-06	2.23E-06	1.17E-07	4.17E-06	9.67E-07	2.44E-06	1.17E-07	3.53E-06	2.40E-07	4.35E-07	3.84E-08	7.13E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
712	565900.5	4222664	1.78E-06	2.18E-06	1.15E-07	4.08E-06	9.46E-07	2.39E-06	1.15E-07	3.45E-06	2.34E-07	4.26E-07	3.76E-08	6.97E-07	1.81E-07	2.37E-07	1.71E-08	4.35E-07
713	565893.4	4222680	1.7E-06	2.07E-06	1.09E-07	3.88E-06	8.99E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.05E-07	3.57E-08	6.63E-07	1.72E-07	2.25E-07	1.63E-08	4.14E-07
714	565886.3	4222696	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.49E-07	2.14E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.37E-08	6.26E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
715	565879.3	4222712	1.5E-06	1.84E-06	9.67E-08	3.43E-06	7.97E-07	2.01E-06	9.67E-08	2.91E-06	1.97E-07	3.59E-07	3.16E-08	5.87E-07	1.53E-07	2.00E-07	1.44E-08	3.67E-07
716	565872.2	4222728	1.4E-06	1.72E-06	9.04E-08	3.21E-06	7.45E-07	1.88E-06	9.04E-08	2.72E-06	1.84E-07	3.35E-07	2.96E-08	5.49E-07	1.43E-07	1.87E-07	1.35E-08	3.43E-07
717	565858	4222761	1.2E-06	1.47E-06	7.73E-08	2.74E-06	6.37E-07	1.61E-06	7.73E-08	2.32E-06	1.58E-07	2.86E-07	2.53E-08	4.69E-07	1.22E-07	1.60E-07	1.15E-08	2.93E-07
718	565854.5	4222769	1.15E-06	1.41E-06	7.41E-08	2.63E-06	6.10E-07	1.54E-06	7.41E-08	2.23E-06	1.51E-07	2.75E-07	2.42E-08	4.50E-07	1.17E-07	1.53E-07	1.11E-08	2.81E-07
719	565847.4	4222785	1.06E-06	1.29E-06	6.79E-08	2.41E-06	5.60E-07	1.41E-06	6.79E-08	2.04E-06	1.39E-07	2.52E-07	2.22E-08	4.13E-07	1.07E-07	1.40E-07	1.01E-08	2.58E-07
720	565840.3	4222801	9.72E-07	1.19E-06	6.26E-08	2.22E-06	5.15E-07	1.30E-06	6.26E-08	1.88E-06	1.28E-07	2.32E-07	2.05E-08	3.80E-07	9.88E-08	1.29E-07	9.34E-09	2.37E-07
721	565818	4222837	8.23E-07	1.01E-06	5.30E-08	1.88E-06	4.37E-07	1.10E-06	5.30E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.22E-07	8.37E-08	1.09E-07	7.91E-09	2.01E-07
722	565801.6	4222843	7.85E-07	9.59E-07	5.06E-08	1.80E-06	4.16E-07	1.05E-06	5.06E-08	1.52E-06	1.03E-07	1.87E-07	1.65E-08	3.07E-07	7.98E-08	1.04E-07	7.55E-09	1.92E-07
723	565785.2	4222850	7.41E-07	9.05E-07	4.77E-08	1.69E-06	3.93E-07	9.92E-07	4.77E-08	1.43E-06	9.73E-08	1.77E-07	1.56E-08	2.90E-07	7.53E-08	9.84E-08	7.12E-09	1.81E-07
724	565752.4	4222863	6.42E-07	7.84E-07	4.13E-08	1.47E-06	3.40E-07	8.59E-07	4.13E-08	1.24E-06	8.43E-08	1.53E-07	1.35E-08	2.51E-07	6.52E-08	8.53E-08	6.17E-09	1.57E-07
725	565736.1	4222869	5.96E-07	7.28E-07	3.84E-08	1.36E-06	3.16E-07	7.98E-07	3.84E-08	1.15E-06	7.83E-08	1.42E-07	1.25E-08	2.33E-07	6.06E-08	7.92E-08	5.73E-09	1.45E-07
726	565719.7	4222876	5.52E-07	6.75E-07	3.56E-08	1.26E-06	2.93E-07	7.40E-07	3.56E-08	1.07E-06	7.26E-08	1.32E-07	1.16E-08	2.16E-07	5.61E-08	7.34E-08	5.31E-09	1.35E-07
727	565703.3	4222882	5.12E-07	6.25E-07	3.30E-08	1.17E-06	2.72E-07	6.86E-07	3.30E-08	9.90E-07	6.73E-08	1.22E-07	1.08E-08	2.00E-07	5.20E-08	6.80E-08	4.92E-09	1.25E-07
728	565686.9	4222889	4.8E-07	5.86E-07	3.09E-08	1.10E-06	2.54E-07	6.42E-07	3.09E-08	9.28E-07	6.30E-08	1.14E-07	1.01E-08	1.88E-07	4.88E-08	6.37E-08	4.61E-09	1.17E-07
729	565670.5	4222896	4.5E-07	5.49E-07	2.90E-08	1.03E-06	2.38E-07	6.02E-07	2.90E-08	8.70E-07	5.91E-08	1.07E-07	9.47E-09	1.76E-07	4.57E-08	5.98E-08	4.32E-09	1.10E-07
730	565654.1	4222902	4.2E-07	5.13E-07	2.71E-08	9.61E-07	2.23E-07	5.63E-07	2.71E-08	8.13E-07	5.52E-08	1.00E-07	8.85E-09	1.64E-07	4.27E-08	5.58E-08	4.04E-09	1.03E-07
731	565547.7	4222945	3.18E-07	3.89E-07	2.05E-08	7.28E-07	1.69E-07	4.26E-07	2.05E-08	6.15E-07	4.18E-08	7.59E-08	6.70E-09	1.24E-07	3.23E-08	4.23E-08	3.06E-09	7.77E-08
732	565968	4222501	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.94E-06	2.68E-07	4.86E-07	4.29E-08	7.97E-07	2.07E-07	2.71E-07	1.96E-08	4.98E-07
733	565968.2	4222492	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.89E-07	4.32E-08	8.01E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
734	565968.4	4222483	2.06E-06	2.51E-06	1.32E-07	4.70E-06	1.09E-06	2.75E-06	1.32E-07	3.98E-06	2.70E-07	4.91E-07	4.33E-08	8.04E-07	2.09E-07	2.73E-07	1.98E-08	5.02E-07
735	565984.1	4222519	1.92E-06	2.34E-06	1.23E-07	4.38E-06	1.02E-06	2.57E-06	1.23E-07	3.71E-06	2.52E-07	4.57E-07	4.04E-08	7.49E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
736	565976.9	4222535	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.58E-06	1.24E-07	3.73E-06	2.53E-07	4.61E-07	4.07E-08	7.55E-07	1.96E-07	2.56E-07	1.85E-08	4.71E-07
737	565969.7	4222552	1.93E-06	2.36E-06	1.25E-07	4.42E-06	1.03E-06	2.59E-06	1.25E-07	3.74E-06	2.54E-07	4.62E-07	4.08E-08	7.56E-07	1.97E-07	2.57E-07	1.86E-08	4.72E-07
738	565962.5	4222568	1.93E-06	2.36E-06	1.24E-07	4.42E-06	1.02E-06	2.59E-06	1.24E-07	3.74E-06	2.54E-07	4.61E-07	4.07E-08	7.56E-07	1.96E-07	2.57E-07	1.86E-08	4.72E-07
739	565955.3	4222585	1.92E-06	2.35E-06	1.24E-07	4.39E-06	1.02E-06	2.57E-06	1.24E-07	3.71E-06	2.52E-07	4.58E-07	4.04E-08	7.51E-07	1.95E-07	2.55E-07	1.84E-08	4.69E-07
740	565948.1	4222601	1.9E-06	2.32E-06	1.22E-07	4.34E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.49E-07	4.53E-07	4.00E-08	7.43E-07	1.93E-07	2.52E-07	1.83E-08	4.64E-07
741	565944.5	4222609	1.89E-06	2.3E-06	1.21E-07	4.31E-06	1.00E-06	2.52E-06	1.21E-07	3.65E-06	2.48E-07	4.50E-07	3.97E-08	7.37E-07	1.92E-07	2.50E-07	1.81E-08	4.60E-07
742	565937.3	4222626	1.84E-06	2.25E-06	1.19E-07	4.21E-06	9.77E-07	2.47E-06	1.19E-07	3.56E-06	2.42E-07	4.40E-07	3.88E-08	7.20E-07	1.87E-07	2.45E-07	1.77E-08	4.50E-07
743	565930.1	4222642	1.79E-06	2.19E-06	1.16E-07	4.10E-06	9.52E-07	2.40E-06	1.16E-07	3.47E-06	2.36E-07	4.28E-07	3.78E-08	7.02E-07	1.82E-07	2.38E-07	1.72E-08	4.38E-07
744	565915.7	4222675	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.81E-07	2.23E-06	1.07E-07	3.21E-06	2.18E-07	3.97E-07	3.50E-08	6.50E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
745	565912.1	4222683	1.62E-06	1.98E-06	1.04E-07	3.71E-06	8.60E-07	2.17E-06	1.04E-07	3.14E-06	2.13E-07	3.87E-07	3.42E-08	6.34E-07	1.65E-07	2.15E-07	1.56E-08	3.96E-07
746	565904.9	4222700	1.53E-06	1.87E-06	9.88E-08	3.51E-06	8.14E-07	2.05E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.47E-08	3.75E-07
747	565897.7	4222716	1.44E-06	1.76E-06	9.28E-08	3.30E-06	7.65E-07	1.93E-06	9.28E-08	2.79E-06	1.89E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
748	565890.5	4222733	1.35E-06	1.64E-06	8.66E-08	3.07E-06	7.13E-07	1.80E-06	8.66E-08	2.60E-06	1.77E-07	3.21E-07	2.83E-08	5.26E-07	1.37E-07	1.79E-07	1.29E-08	3.28E-07
749	565886.9	4222741	1.3E-06	1.58E-06	8.34E-08	2.96E-06	6.87E-07	1.74E-06	8.34E-08	2.51E-06	1.70E-07	3.09E-07	2.73E-08	5.07E-07	1.32E-07	1.72E-07	1.25E-08	3.16E-07
750	565872.5	4222774	1.1E-06	1.34E-06	7.08E-08	2.51E-06	5.83E-07	1.47E-06	7.08E-08	2.13E-06	1.45E-07	2.63E-07	2.32E-08	4.30E-07	1.12E-07	1.46E-07	1.06E-08	2.69E-07
751	565865.3	4222790	1.01E-06	1.24E-06	6.51E-08	2.31E-06	5.37E-07	1.35E-06	6.51E-08	1.96E-06	1.33E-07	2.41E-07	2.13E-08	3.96E-07	1.03E-07	1.34E-07	9.72E-09	2.47E-07
752	565858.1	4222807	9.36E-07	1.14E-06	6.03E-08	2.14E-06	4.96E-07	1.25E-06	6.03E-08	1.81E-06	1.23E-07	2.23E-07	1.97E-08	3.66E-07	9.51E-08	1.24E-07	8.99E-09	2.29E-07
753	565854.5	4222815	8.96E-07	1.09E-06	5.77E-08	2.05E-06	4.75E-07	1.20E-06	5.77E-08	1.73E-06	1.18E-07	2.14E-07	1.89E-08	3.50E-07	9.11E-08	1.19E-07	8.61E-09	2.19E-07
754	565831.7	4222851	7.81E-07	9.53E-07	5.02E-08	1.78E-06	4.14E-07	1.05E-06	5.02E-08	1.51E-06	1.03E-07	1.86E-07	1.64E-08	3.05E-07	7.93E-08	1.04E-07	7.50E-09	1.91E-07
755	565823.4	4222854	7.63E-07	9.32E-07	4.91E-08	1.74E-06	4.04E-07	1.02E-06	4.91E-08	1.48E-06	1.00E-07	1.82E-07	1.61E-08	2.98E-07	7.75E-08	1.01E-07	7.33E-09	1

768	565556.7	4222961	2.99E-07	3.66E-07	1.93E-08	6.84E-07	1.59E-07	4.01E-07	1.93E-08	5.79E-07	3.93E-08	7.14E-08	6.31E-09	1.17E-07	3.04E-08	3.98E-08	2.88E-09	7.31E-08
769	565988	4222502	1.92E-06	2.35E-06	1.24E-07	4.39E-06	1.02E-06	2.57E-06	1.24E-07	3.72E-06	2.52E-07	4.58E-07	4.05E-08	7.51E-07	1.95E-07	2.55E-07	1.85E-08	4.69E-07
770	565988.2	4222493	1.93E-06	2.36E-06	1.24E-07	4.42E-06	1.02E-06	2.59E-06	1.24E-07	3.74E-06	2.54E-07	4.61E-07	4.07E-08	7.56E-07	1.96E-07	2.57E-07	1.86E-08	4.72E-07
771	565988.4	4222484	1.94E-06	2.37E-06	1.25E-07	4.44E-06	1.03E-06	2.60E-06	1.25E-07	3.75E-06	2.55E-07	4.63E-07	4.09E-08	7.59E-07	1.97E-07	2.58E-07	1.86E-08	4.74E-07
772	566004.2	4222519	1.81E-06	2.21E-06	1.16E-07	4.13E-06	9.57E-07	2.42E-06	1.16E-07	3.49E-06	2.37E-07	4.31E-07	3.80E-08	7.06E-07	1.83E-07	2.40E-07	1.73E-08	4.41E-07
773	565997	4222536	1.82E-06	2.23E-06	1.17E-07	4.17E-06	9.68E-07	2.44E-06	1.17E-07	3.53E-06	2.40E-07	4.35E-07	3.84E-08	7.13E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
774	565989.9	4222552	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.71E-07	2.45E-06	1.18E-07	3.54E-06	2.41E-07	4.37E-07	3.86E-08	7.16E-07	1.86E-07	2.43E-07	1.76E-08	4.47E-07
775	565982.7	4222568	1.83E-06	2.23E-06	1.18E-07	4.17E-06	9.68E-07	2.44E-06	1.18E-07	3.53E-06	2.40E-07	4.36E-07	3.85E-08	7.14E-07	1.86E-07	2.43E-07	1.75E-08	4.46E-07
776	565975.6	4222585	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.61E-07	2.43E-06	1.17E-07	3.50E-06	2.38E-07	4.32E-07	3.82E-08	7.09E-07	1.84E-07	2.41E-07	1.74E-08	4.42E-07
777	565972	4222593	1.8E-06	2.2E-06	1.16E-07	4.12E-06	9.55E-07	2.41E-06	1.16E-07	3.48E-06	2.37E-07	4.30E-07	3.79E-08	7.04E-07	1.83E-07	2.39E-07	1.73E-08	4.40E-07
778	565964.8	4222609	1.78E-06	2.17E-06	1.14E-07	4.06E-06	9.43E-07	2.38E-06	1.14E-07	3.44E-06	2.34E-07	4.24E-07	3.74E-08	6.95E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
779	565961.3	4222617	1.77E-06	2.16E-06	1.14E-07	4.03E-06	9.36E-07	2.36E-06	1.14E-07	3.41E-06	2.32E-07	4.21E-07	3.72E-08	6.90E-07	1.79E-07	2.35E-07	1.70E-08	4.31E-07
780	565954.1	4222634	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.17E-07	2.31E-06	1.11E-07	3.34E-06	2.27E-07	4.13E-07	3.64E-08	6.76E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
781	565950.5	4222642	1.71E-06	2.09E-06	1.10E-07	3.90E-06	9.06E-07	2.29E-06	1.10E-07	3.30E-06	2.24E-07	4.08E-07	3.60E-08	6.68E-07	1.74E-07	2.27E-07	1.64E-08	4.17E-07
782	565943.4	4222658	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.82E-07	2.23E-06	1.07E-07	3.22E-06	2.18E-07	3.97E-07	3.50E-08	6.50E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
783	565932.6	4222683	1.57E-06	1.92E-06	1.01E-07	3.59E-06	8.32E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.74E-07	3.30E-08	6.13E-07	1.59E-07	2.08E-07	1.51E-08	3.83E-07
784	565929.1	4222691	1.53E-06	1.87E-06	9.86E-08	3.50E-06	8.12E-07	2.05E-06	9.86E-08	2.96E-06	2.01E-07	3.65E-07	3.23E-08	5.99E-07	1.56E-07	2.03E-07	1.47E-08	3.74E-07
785	565921.9	4222707	1.45E-06	1.77E-06	9.35E-08	3.32E-06	7.70E-07	1.94E-06	9.35E-08	2.81E-06	1.91E-07	3.47E-07	3.06E-08	5.68E-07	1.48E-07	1.93E-07	1.40E-08	3.55E-07
786	565918.3	4222715	1.41E-06	1.72E-06	9.08E-08	3.23E-06	7.48E-07	1.89E-06	9.08E-08	2.73E-06	1.85E-07	3.37E-07	2.97E-08	5.52E-07	1.43E-07	1.87E-07	1.36E-08	3.44E-07
787	565911.2	4222732	1.32E-06	1.61E-06	8.51E-08	3.02E-06	7.01E-07	1.77E-06	8.51E-08	2.56E-06	1.74E-07	3.15E-07	2.78E-08	5.17E-07	1.34E-07	1.76E-07	1.27E-08	3.23E-07
788	565907.6	4222740	1.27E-06	1.56E-06	8.20E-08	2.91E-06	6.76E-07	1.71E-06	8.20E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.98E-07	1.30E-07	1.69E-07	1.22E-08	3.11E-07
789	565900.5	4222756	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.27E-07	1.58E-06	7.61E-08	2.29E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.14E-08	2.88E-07
790	565896.9	4222764	1.14E-06	1.39E-06	7.33E-08	2.60E-06	6.04E-07	1.52E-06	7.33E-08	2.20E-06	1.50E-07	2.72E-07	2.40E-08	4.45E-07	1.16E-07	1.51E-07	1.09E-08	2.78E-07
791	565882.6	4222797	9.71E-07	1.19E-06	6.25E-08	2.22E-06	5.15E-07	1.30E-06	6.25E-08	1.88E-06	1.28E-07	2.32E-07	2.05E-08	3.80E-07	9.87E-08	1.29E-07	9.33E-09	2.37E-07
792	565875.4	4222813	9.1E-07	1.11E-06	5.86E-08	2.08E-06	4.82E-07	1.22E-06	5.86E-08	1.76E-06	1.19E-07	2.17E-07	1.92E-08	3.56E-07	9.25E-08	1.21E-07	8.74E-09	2.22E-07
793	565871.8	4222821	8.79E-07	1.07E-06	5.66E-08	2.01E-06	4.66E-07	1.18E-06	5.66E-08	1.70E-06	1.15E-07	2.10E-07	1.85E-08	3.44E-07	8.93E-08	1.17E-07	8.44E-09	2.15E-07
794	565864.7	4222838	8.27E-07	1.01E-06	5.32E-08	1.89E-06	4.38E-07	1.11E-06	5.32E-08	1.60E-06	1.09E-07	1.97E-07	1.74E-08	3.23E-07	8.40E-08	1.10E-07	7.94E-09	2.02E-07
795	565845.7	4222865	7.38E-07	9.01E-07	4.75E-08	1.69E-06	3.91E-07	9.88E-07	4.75E-08	1.43E-06	9.69E-08	1.76E-07	1.55E-08	2.89E-07	7.50E-08	9.81E-08	7.09E-09	1.80E-07
796	565829.1	4222872	7.03E-07	8.59E-07	4.53E-08	1.61E-06	3.73E-07	9.42E-07	4.53E-08	1.36E-06	9.24E-08	1.68E-07	1.48E-08	2.75E-07	7.15E-08	9.34E-08	6.76E-09	1.72E-07
797	565812.6	4222879	6.65E-07	8.12E-07	4.28E-08	1.52E-06	3.53E-07	8.90E-07	4.28E-08	1.29E-06	8.73E-08	1.59E-07	1.40E-08	2.60E-07	6.76E-08	8.83E-08	6.39E-09	1.62E-07
798	565779.5	4222892	5.77E-07	7.05E-07	3.72E-08	1.32E-06	3.06E-07	7.73E-07	3.72E-08	1.12E-06	7.58E-08	1.38E-07	1.22E-08	2.26E-07	5.87E-08	7.67E-08	5.55E-09	1.41E-07
799	565762.9	4222899	5.3E-07	6.48E-07	3.41E-08	1.21E-06	2.81E-07	7.10E-07	3.41E-08	1.03E-06	6.96E-08	1.27E-07	1.12E-08	2.07E-07	5.39E-08	7.04E-08	5.09E-09	1.29E-07
800	565746.4	4222905	4.95E-07	6.05E-07	3.19E-08	1.13E-06	2.62E-07	6.63E-07	3.19E-08	9.57E-07	6.50E-08	1.18E-07	1.04E-08	1.94E-07	5.03E-08	6.58E-08	4.76E-09	1.21E-07
801	565696.7	4222925	3.97E-07	4.85E-07	2.56E-08	9.08E-07	2.11E-07	5.32E-07	2.56E-08	7.68E-07	5.22E-08	9.48E-08	8.37E-09	1.55E-07	4.04E-08	5.28E-08	3.82E-09	9.70E-08
802	565680.2	4222932	3.73E-07	4.56E-07	2.40E-08	8.54E-07	1.98E-07	5.00E-07	2.40E-08	7.22E-07	4.91E-08	8.91E-08	7.87E-09	1.46E-07	3.80E-08	4.96E-08	3.59E-09	9.12E-08
803	565663.6	4222938	3.52E-07	4.3E-07	2.26E-08	8.04E-07	1.87E-07	4.71E-07	2.26E-08	6.80E-07	4.62E-08	8.39E-08	7.41E-09	1.38E-07	3.57E-08	4.67E-08	3.38E-09	8.59E-08
804	565556.1	4222981	2.8E-07	3.42E-07	1.80E-08	6.41E-07	1.49E-07	3.75E-07	1.80E-08	5.42E-07	3.68E-08	6.69E-08	5.90E-09	1.10E-07	2.85E-08	3.72E-08	2.69E-09	6.84E-08
805	566008	4222502	1.81E-06	2.22E-06	1.17E-07	4.15E-06	9.62E-07	2.43E-06	1.17E-07	3.51E-06	2.38E-07	4.33E-07	3.82E-08	7.09E-07	1.84E-07	2.41E-07	1.74E-08	4.43E-07
806	566008.2	4222493	1.83E-06	2.23E-06	1.18E-07	4.17E-06	9.68E-07	2.44E-06	1.18E-07	3.53E-06	2.40E-07	4.36E-07	3.85E-08	7.14E-07	1.86E-07	2.43E-07	1.75E-08	4.46E-07
807	566008.4	4222484	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.72E-07	2.46E-06	1.18E-07	3.55E-06	2.41E-07	4.38E-07	3.86E-08	7.17E-07	1.86E-07	2.44E-07	1.76E-08	4.48E-07
808	566024.2	4222520	1.72E-06	2.1E-06	1.11E-07	3.93E-06	9.12E-07	2.30E-06	1.11E-07	3.33E-06	2.26E-07	4.11E-07	3.62E-08	6.73E-07	1.75E-07	2.29E-07	1.65E-08	4.20E-07
809	566017.1	4222536	1.73E-06	2.12E-06	1.12E-07	3.96E-06	9.19E-07	2.32E-06	1.12E-07	3.35E-06	2.28E-07	4.13E-07	3.65E-08	6.77E-07	1.76E-07	2.30E-07	1.66E-08	4.23E-07
810	566010	4222552	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.21E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.14E-07	3.66E-08	6.79E-07	1.77E-07	2.31E-07	1.67E-08	4.24E-07
811	566002.9	4222569	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.16E-07	2.31E-06	1.11E-07	3.34E-06	2.27E-07	4.12E-07	3.64E-08	6.75E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
812	565995.8	4222585	1.71E-06	2.09E-06	1.10E-07	3.92E-06	9.09E-07	2.30E-06	1.10E-07	3.31E-06	2.25E-07	4.09E-07	3.61E-08	6.70E-07	1.74E-07	2.28E-07	1.65E-08	4.18E-07
813	565992.2	4222593	1.7E-06	2.08E-06	1.10E-07	3.90E-06	9.04E-07	2.28E-06	1.10E-07	3.30E-06	2.24E-07	4.07E-07	3.59E-08	6.66E-07	1.73E-07	2.26E-07	1.64E-08	4.16E-07
814	565985.1	4222609	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.92E-07	2.25E-06	1.08E-07	3.25E-06	2.21E-07	4.01E-07	3.54E-08	6.58E-07	1.71E-07	2.23E-07	1.62E-08	4.10E-07
815	565978	4222625	1.66E-06	2.03E-06	1.07E-07	3.79E-06	8.80E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.50E-08	6.49E-07	1.69E-07	2.21E-07	1.60E-08	4.05E-07
816	565970.9	4222641	1.63E-06	1.99E-06	1.05E-07	3.73E-06	8.65E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.89E-07	3.43E-08	6.38E-07	1.66E-07	2.17E-07	1.57E-08	3.98E-07
817	565963.8	4222658	1.59E-06	1.95E-06	1.03E-07	3.64E-06	8.45E-07	2.13E-06	1.03E-07	3.08E-06	2.09E-07	3.80E-07	3.36E-08	6.23E-07	1.62E-07	2.12E-07	1.53E-08	3.89E-07
818	565960.2	4222666	1.57E-06	1.92E-06	1.01E-07	3.59E-06	8.34E-07	2.10E-06	1.01E-07	3.04E-06	2.06E-07	3.75E-07	3.31E-08	6.15E-07	1.60E-07	2.09E-07	1.51E-08	3.84E-07
819	565946	4222698	1.45E-06	1.77E-06	9.32E-08	3.31E-06	7.67E-07	1.94E-06	9.32E-08	2.80E-06	1.90E-07	3.45E-07	3.05E-08	5.66E-07	1.47E-07	1.92E-07	1.39E-08	3.53E-07
820	565942.5	4222706	1.41E-06	1.73E-06	9.09E-08	3.23E-06	7.49E-07	1.89E-06	9.09E-08	2.73E-06	1.85E-07	3.37E-07	2.97E-08	5.52E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
821	565935.4	4222723	1.34E-06	1.63E-06	8.61E-08	3.06E-06	7.10E-07	1.79E-06	8.61E-08	2.59E-06	1.76E-07	3.19E-07	2.82E-08	5.23E-07	1.36E-07	1.78E-07	1.29E-08	3.27E-07
822	565928.3	4222739	1.26E-06	1.53E-06	8.09E-08	2.87E-06	6.66E-07	1.68E-06	8.09E-08	2.43E-06	1.65E-07	3.00E-07	2.65E-08	4.91E-07	1.28E-07	1.67E-07	1.21E-08	3.07E-07
823	565924.7	4222747	1.21E-06	1.48E-06	7.80E-08	2.77E-06	6.43E-07	1.62E-06	7.80E-08	2.34E-06	1.59E-07	2.89E-07	2.55E-08	4.74E-07	1.23E-07	1.61E-07	1.16E-08	2.96E-07
824	565917.6	4222763	1.13E-06	1.38E-06	7.26E-08	2.58E-06	5.98E-07	1.51E-06	7.26E-08	2.18E-06	1.48E-07	2.69E-07	2.37E-08	4.41E-07	1.15E-07	1.50E-07	1.08E-08	2.75E-07
825	565910.5	4222779	1.05E-06	1.28E-06	6.77E-08	2.40E-06	5.58E-07	1.41E-06	6.77E-08	2.03E-06	1.38E-07	2.51E-07	2.22E-08	4.11E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
826	565896.3	4222812	9.14E-07	1.12E-06	5.88E-08	2.09E-06	4.84E-07	1.22E-06	5.88E-08	1.77E-06	1.20E-07	2.18E-07	1.92E-08	3.57E-07	9.28E-08	1.21E-07	8.78E-09	2.23E-07
827	565892.7	4222820	8.85E-07	1.08E-06	5.69E-08	2.02E-06	4.69E-07	1.18E-06	5.69E-08	1.71E-06	1.16E-07	2.11E-07	1.86E-08	3.46E-07	8.99E-08	1.18E-07	8.50E-09	2.16E-07
828	565885.6	4222836	8.25E-07	1.01E-06	5.31E-08	1.89E-06	4.37E-07	1.10E-06	5.31E-08	1.59E-06	1.08E-07	1.97E-07	1.74E-08	3.23E-07	8.38E-08	1.10E-07	7.93E-09	2.01E-07
829	565878.5	4222852	7.72E-07	9.43E-07	4.97E-08	1.76E-06	4.09E-07	1.03E-06	4.97E-08	1.49E-06	1.01E-07	1.84E-07	1.63E-08	3.02E-07	7.84E-08	1.03E-07	7.42E-09	1.88E-07
830	565859.7	4222880	6.95E-07	8.49E-07	4.48E-08	1.59E-06	3.69E-07	9.31E-07	4.48E-08	1.34E-06	9.13E-08	1.66E-07	1.46E-08	2.72E-07	7.07E-08	9.24E-08	6.68E-09	1.70E-07
831	565843.2	4222886	6.65E-07	8.12E-07	4.28E-08	1.52E-06	3.52E-07	8.90E-07	4.28E-08	1.29E-06	8.73E-08	1.59E-07	1.40E-08	2.60E-07	6.76E-08	8.83E-08	6.39E-09	1.62E-07
832	565826.8	4222893	6.28E-07	7.67E-07	4.04E-08	1.44E-06	3.33E-07	8.41E-07	4.04E-08	1.21E-06	8.25E-08	1.50E-07	1.32E-08	2.46E-07	6.38E-08	8.35E-08	6.04E-09	1.53E-07
833	565793.9	4222906	5.56E-07	6.79E-07	3.58E-08	1.27E-06	2.95E-07	7.44E-07	3.58E-08	1.07E-06	7.30E-08	1.33E-07	1.17E-08	2.17E-07	5.65E-08	7.38E-08	5.34E-09	1.36E-07
834	565777.4	4222913	5.12E-07	6.25E-07	3.30E-08	1.17E-06	2.71E-07	6.86E-07	3.30E-08	9.90E-07	6.72E-08	1.22E-07	1.08E-08	2.00E-07	5.20E-08	6.80E-08	4.92E-09	1.25E-07
835	565761	4222919	4.71E-07	5.76E-07	3.03E-08	1.08E-06	2.50E-07	6.31E-07	3.03E-08	9.12E-07	6.19E-08	1.12E-07	9.93E-09	1.84E-07	4.79E-08	6.26E-08	4.53E-09	1.15E-07
836	565744.6	4222926	4.38E-07	5.35E-07	2.82E-08	1.00E-06	2.32E-07	5.86E-07	2.82E-08	8.47E-07	5.75E-08	1.05E-07	9.23E-09	1.71E-07	4.45E-08	5.82E-08	4.21E-09	1.07E-07
837	565728.1	4222932	4.06E-07	4.96E-07	2.62E-08	9.29E-07	2.15E-07	5.44E-07	2.62E-08	7.86E-07	5.34E-08	9.70E-08	8.56E-09	1.59E-07	4.13E-08	5.40E-08	3.90E-09	9.92E-08
838	565711.7	4222939	3.81E-07	4.65E-07	2.45E-08	8.71E-07	2.02E-07	5.10E-07	2.45E-08	7.36E-07	5.00E-08	9.09E-08	8.02E-09	1.49E-07	3.87E-08	5.06E-08	3.66E-09	9.30E-08
839	566028	4222503	1.72E-06	2.11E-06	1.11E-07	3.94E-06	9.14E-07	2.31E-06	1.11E-07	3.33E-06	2.26E-07	4.11E-07	3.63E-08	6.74E-07	1.75E-07	2.29E-07	1.66E-08	4.21E-07
840	566028.2	4222494	1.73E-06	2.11E-06	1.11E-07	3.96E-06	9.18E-07	2.32E-06	1.11E-07	3.35E-06	2.27E-07	4.13E-07	3.65E-08	6.77E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
841	566028.4	4222485	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.21E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.14E-07	3.66E-08	6.79E-07	1.76E-07	2.31E-07	1.67E-08	4.24E-07
842	566044.1	4222520	1.64E-06	2E-06	1.06E-07	3.75E-06	8.70E-07	2.20E-06	1.06E-07	3.17E-06	2.16E-07	3.92E-07	3.46E-08	6.42E-07	1.67E-07	2.18E-07	1.58E-08	4.01E-07
843	566036.9	4222537	1.65E-06	2.01E-06	1.06E-07	3.77E-06	8.75E-07	2.21E-06	1.06E-07	3.19E-06	2.17E-07	3.94E-07	3.47E-08	6.45E-07	1.68E-07	2.19E-07	1.59E-08	4.03E-07
844	566029.7	4222553	1.65E-06	2.01E-06	1.06E-07	3.77E-06	8.74E-07	2.21E-06	1.06E-07	3.19E-06	2.16E-07	3.93E-07	3.47E-08	6.44E-07	1.68E-07	2.19E-07	1.58E-08	4.02E-07
845	566022.5	4222570	1.63E-06	2E-06	1.05E-07	3.74E-06	8.67E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.44E-08	6.39E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
846	566015.3	4222586	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.59E-07	2.17E-06	1.04E-07	3.13E-06	2.13E-07	3.87E-07	3.41E-08	6.34E-07	1.65E-07	2.15E-07	1.56E-08	3.96E-07
847	566008	4222603	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.49E-07	2.15E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.37E-08	6.26E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
848	566000.8	4222619	1.59E-06	1.94E-06	1.02E-07	3.62E-06	8.41E-07	2.12E-06	1.02E-07	3.07E-06	2.08E-07	3.78E-07	3.34E-08	6.20E-07	1.61E-07	2.11E-07	1.52E-08	3.87E-07
849	565993.6	4222636	1.56E-06	1.91E-06	1.01E-07	3.58E-06	8.29E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.12E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
850	565990	4222644	1.55E-06	1.89E-06	9.96E-08	3.54E-06	8.21E-07	2.07E-06	9.96E-08	2.99E-06	2.03E-07	3.69E-07	3.26E-08	6.05E-07	1.57E-07	2.06E-07	1.49E-08	3.78E-07
851	565982.8	4222660	1.51E-06	1.85E-06	9.74E-08	3.46E-06	8.03E-07	2.03E-06	9.74E-08	2.93E-06	1.99E-07	3.61E-07	3.19E-08	5.92E-07	1.54E-07	2.01E-07	1.45E-08	3.70E-07
852	565975.6	4222677	1.47E-06	1.8E-06	9.47E-08	3.36E-06	7.80E-07	1.97E-06	9.47E-08	2.84E-06	1.93E-07	3.51E-07	3.10E-08	5.75E-07	1.49E-07	1.95E-07	1.41E-08	3.59E-07
853	565968.4	4222693	1.42E-06	1.73E-06	9.11E-08	3.24E-06	7.51E-07	1.90E-06	9.11E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
854	565961.1	4222710	1.35E-06	1.65E-06	8.71E-08	3.09E-06	7.17E-07	1.81E-06	8.71E-08	2.62E-06	1.78E-07	3.23E-07	2.85E-08	5.29E-07	1.37E-07	1.80E-07	1.30E-08	3.30E-07
855	565953.9	4222726	1.29E-06	1.57E-06	8.27E-08	2.94E-06	6.81E-07	1.72E-06	8.27E-08	2.48E-06	1.69E-07	3.07E-07	2.71E-08	5.02E-07	1.31E-07	1.71E-07	1.23E-08	3.14E-07
856	565946.7	4222743	1.21E-06	1.48E-06	7.81E-08	2.78E-06	6.44E-07	1.63E-06	7.81E-08	2.35E-06	1.59E-07	2.90E-07	2.56E-08	4.75E-07	1.23E-07	1.61E-07	1.17E-08	2.96E-07
857	565943.1	4222751	1.18E-06	1.44E-06	7.57E-08	2.69E-06	6.23E-07	1.57E-06	7.57E-08	2.27E-06	1.54E-07	2.81E-07	2.48E-08	4.60E-07	1.19E-07	1.56E-07	1.13E-08	2.87E-07
858	565935.9	4222767	1.1E-06	1.35E-06	7.10E-08	2.52E-06	5.84E-07	1.48E-06	7.10E-08	2.13E-06	1.45E-07	2.63E-07	2.32E-08	4.31E-07	1.12E-07	1.46E-07	1.06E-08	2.69E-07
859	565928.7	4222784	1.03E-06	1.26E-06	6.63E-08	2.36E-06	5.46E-07	1.38E-06	6.63E-08	1.99E-06	1.35E-07	2.46E-07	2.17E-08	4.03E-07	1.05E-07	1.37E-07	9.90E-09	2.52E-07
860	565914.2	4222817	8.88E-07	1.08E-06	5.72E-08	2.03E-06	4.71E-07	1.19E-06	5.72E-08	1.72E-06	1.17E-07	2.12E-07	1.87E-08	3.47E-07	9.02E-08	1.18E-07	8.53E-09	2.17E-07
861	565907	4222833	8.42E-07	1.03E-06	5.42E-08	1.92E-06	4.46E-07	1.13E-06	5.42E-08	1.63E-06	1.11E-07	2.01E-07	1.77E-08	3.29E-07	8.55E-08	1.12E-07	8.09E-09	2.05E-07
862	565899.8	4222850	7.89E-07	9.63E-07	5.08E-08	1.80E-06	4.18E-07	1.06E-06	5.08E-08	1.52E-06	1.04E-07	1.88E-07	1.66E-08	3.08E-07	8.01E-08	1.05E-07	7.58E-09	1.93E-07
863	565873.4	4222894	6.49E-07	7.93E-07	4.18E-08	1.48E-06	3.44E-07	8.69E-07	4.18E-08	1.25E-06	8.52E-08	1.55E-07	1.37E-08	2.54E-07	6.59E-08	8.62E-08	6.23E-09	1.58E-07
864	565856.7	4222901	6.25E-07	7.64E-07	4.02E-08	1.43E-06	3.32E-07	8.37E-07	4.02E-08	1.21E-06	8.21E-08	1.49E-07	1.32E-08	2.44E-07	6.35E-08	8.31E-08	6.01E-09	1.53E-07
865	565848.4	4222904	6.09E-07	7.44E-07	3.92E-08	1.39E-06	3.23E-07	8.16E-07	3.92E-08	1.18E-06	8.00E-08	1.45E-07	1.28E-08	2.38E-07	6.19E-08	8.10E-08	5.86E-09

878	565556.2	4223021	2.52E-07	3.08E-07	1.62E-08	5.76E-07	1.34E-07	3.37E-07	1.62E-08	4.87E-07	3.31E-08	6.01E-08	5.31E-09	9.85E-08	2.56E-08	3.35E-08	2.42E-09	6.15E-08
879	565539.5	4223028	2.48E-07	3.03E-07	1.60E-08	5.68E-07	1.32E-07	3.33E-07	1.60E-08	4.80E-07	3.26E-08	5.93E-08	5.23E-09	9.71E-08	2.52E-08	3.30E-08	2.39E-09	6.06E-08
880	566047.7	4222512	1.63E-06	2E-06	1.05E-07	3.74E-06	8.66E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.44E-08	6.39E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
881	566047.9	4222503	1.64E-06	2E-06	1.06E-07	3.75E-06	8.69E-07	2.19E-06	1.06E-07	3.17E-06	2.15E-07	3.91E-07	3.45E-08	6.41E-07	1.67E-07	2.18E-07	1.58E-08	4.00E-07
882	566048.2	4222494	1.64E-06	2.01E-06	1.06E-07	3.76E-06	8.71E-07	2.20E-06	1.06E-07	3.18E-06	2.16E-07	3.92E-07	3.46E-08	6.42E-07	1.67E-07	2.18E-07	1.58E-08	4.01E-07
883	566048.4	4222485	1.65E-06	2.01E-06	1.06E-07	3.76E-06	8.73E-07	2.20E-06	1.06E-07	3.18E-06	2.16E-07	3.93E-07	3.47E-08	6.44E-07	1.67E-07	2.19E-07	1.58E-08	4.02E-07
884	566064.1	4222521	1.57E-06	1.91E-06	1.01E-07	3.58E-06	8.30E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.74E-07	3.30E-08	6.12E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
885	566057	4222537	1.58E-06	1.93E-06	1.01E-07	3.60E-06	8.36E-07	2.11E-06	1.01E-07	3.05E-06	2.07E-07	3.76E-07	3.32E-08	6.16E-07	1.60E-07	2.09E-07	1.51E-08	3.85E-07
886	566049.8	4222554	1.57E-06	1.92E-06	1.01E-07	3.60E-06	8.34E-07	2.11E-06	1.01E-07	3.04E-06	2.07E-07	3.75E-07	3.31E-08	6.15E-07	1.60E-07	2.09E-07	1.51E-08	3.84E-07
887	566046.2	4222562	1.56E-06	1.91E-06	1.01E-07	3.58E-06	8.30E-07	2.09E-06	1.01E-07	3.03E-06	2.05E-07	3.73E-07	3.30E-08	6.12E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
888	566039	4222578	1.54E-06	1.88E-06	9.93E-08	3.53E-06	8.18E-07	2.07E-06	9.93E-08	2.98E-06	2.03E-07	3.68E-07	3.25E-08	6.03E-07	1.57E-07	2.05E-07	1.48E-08	3.77E-07
889	566035.5	4222586	1.54E-06	1.88E-06	9.88E-08	3.51E-06	8.14E-07	2.06E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
890	566028.3	4222603	1.52E-06	1.86E-06	9.78E-08	3.47E-06	8.05E-07	2.03E-06	9.78E-08	2.94E-06	2.00E-07	3.62E-07	3.20E-08	5.94E-07	1.54E-07	2.02E-07	1.46E-08	3.71E-07
891	566024.7	4222611	1.51E-06	1.85E-06	9.73E-08	3.46E-06	8.02E-07	2.02E-06	9.73E-08	2.92E-06	1.99E-07	3.61E-07	3.19E-08	5.91E-07	1.54E-07	2.01E-07	1.45E-08	3.69E-07
892	566017.5	4222627	1.5E-06	1.83E-06	9.65E-08	3.43E-06	7.95E-07	2.01E-06	9.65E-08	2.90E-06	1.97E-07	3.58E-07	3.16E-08	5.86E-07	1.52E-07	1.99E-07	1.44E-08	3.66E-07
893	566014	4222635	1.49E-06	1.82E-06	9.59E-08	3.41E-06	7.90E-07	2.00E-06	9.59E-08	2.88E-06	1.96E-07	3.56E-07	3.14E-08	5.83E-07	1.51E-07	1.98E-07	1.43E-08	3.64E-07
894	566006.8	4222652	1.46E-06	1.78E-06	9.37E-08	3.33E-06	7.71E-07	1.95E-06	9.37E-08	2.81E-06	1.91E-07	3.47E-07	3.06E-08	5.69E-07	1.48E-07	1.93E-07	1.40E-08	3.55E-07
895	565999.6	4222668	1.42E-06	1.73E-06	9.13E-08	3.24E-06	7.52E-07	1.90E-06	9.13E-08	2.74E-06	1.86E-07	3.39E-07	2.99E-08	5.55E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
896	565996	4222676	1.4E-06	1.7E-06	8.98E-08	3.19E-06	7.40E-07	1.87E-06	8.98E-08	2.70E-06	1.83E-07	3.33E-07	2.94E-08	5.45E-07	1.42E-07	1.85E-07	1.34E-08	3.41E-07
897	565988.9	4222693	1.35E-06	1.65E-06	8.67E-08	3.08E-06	7.14E-07	1.80E-06	8.67E-08	2.60E-06	1.77E-07	3.21E-07	2.84E-08	5.27E-07	1.37E-07	1.79E-07	1.29E-08	3.29E-07
898	565985.3	4222701	1.33E-06	1.62E-06	8.54E-08	3.03E-06	7.03E-07	1.78E-06	8.54E-08	2.56E-06	1.74E-07	3.16E-07	2.79E-08	5.19E-07	1.35E-07	1.76E-07	1.27E-08	3.24E-07
899	565974.5	4222725	1.25E-06	1.53E-06	8.05E-08	2.86E-06	6.63E-07	1.67E-06	8.05E-08	2.42E-06	1.64E-07	2.98E-07	2.63E-08	4.89E-07	1.27E-07	1.66E-07	1.20E-08	3.05E-07
900	565967.4	4222742	1.19E-06	1.46E-06	7.69E-08	2.73E-06	6.33E-07	1.60E-06	7.69E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.92E-07
901	565963.8	4222750	1.16E-06	1.42E-06	7.49E-08	2.66E-06	6.17E-07	1.56E-06	7.49E-08	2.25E-06	1.53E-07	2.78E-07	2.45E-08	4.55E-07	1.18E-07	1.55E-07	1.12E-08	2.84E-07
902	565956.6	4222766	1.1E-06	1.34E-06	7.07E-08	2.51E-06	5.83E-07	1.47E-06	7.07E-08	2.12E-06	1.44E-07	2.62E-07	2.31E-08	4.30E-07	1.12E-07	1.46E-07	1.06E-08	2.68E-07
903	565949.4	4222783	1.03E-06	1.26E-06	6.65E-08	2.36E-06	5.48E-07	1.38E-06	6.65E-08	2.00E-06	1.36E-07	2.47E-07	2.18E-08	4.04E-07	1.05E-07	1.37E-07	9.93E-09	2.52E-07
904	565945.9	4222791	1E-06	1.22E-06	6.45E-08	2.29E-06	5.31E-07	1.34E-06	6.45E-08	1.94E-06	1.32E-07	2.39E-07	2.11E-08	3.92E-07	1.02E-07	1.33E-07	9.63E-09	2.45E-07
905	565938.7	4222807	9.41E-07	1.15E-06	6.06E-08	2.15E-06	4.99E-07	1.26E-06	6.06E-08	1.82E-06	1.24E-07	2.25E-07	1.98E-08	3.68E-07	9.57E-08	1.25E-07	9.05E-09	2.30E-07
906	565913.6	4222864	7.55E-07	9.23E-07	4.86E-08	1.73E-06	4.01E-07	1.01E-06	4.86E-08	1.46E-06	9.92E-08	1.80E-07	1.59E-08	2.95E-07	7.68E-08	1.00E-07	7.26E-09	1.84E-07
907	565906.4	4222881	7.04E-07	8.59E-07	4.53E-08	1.61E-06	3.73E-07	9.42E-07	4.53E-08	1.36E-06	9.24E-08	1.68E-07	1.48E-08	2.75E-07	7.15E-08	9.35E-08	6.76E-09	1.72E-07
908	565899.3	4222897	6.52E-07	7.97E-07	4.20E-08	1.49E-06	3.46E-07	8.73E-07	4.20E-08	1.26E-06	8.57E-08	1.56E-07	1.37E-08	2.55E-07	6.63E-08	8.66E-08	6.27E-09	1.59E-07
909	565887.4	4222909	6.14E-07	7.5E-07	3.95E-08	1.40E-06	3.26E-07	8.22E-07	3.95E-08	1.19E-06	8.06E-08	1.46E-07	1.29E-08	2.40E-07	6.24E-08	8.16E-08	5.90E-09	1.50E-07
910	565879.1	4222912	6E-07	7.33E-07	3.86E-08	1.37E-06	3.18E-07	8.03E-07	3.86E-08	1.16E-06	7.88E-08	1.43E-07	1.26E-08	2.35E-07	6.10E-08	7.97E-08	5.76E-09	1.46E-07
911	565862.5	4222919	5.72E-07	6.98E-07	3.68E-08	1.31E-06	3.03E-07	7.65E-07	3.68E-08	1.11E-06	7.51E-08	1.36E-07	1.20E-08	2.23E-07	5.81E-08	7.59E-08	5.49E-09	1.40E-07
912	565854.2	4222922	5.57E-07	6.8E-07	3.58E-08	1.27E-06	2.95E-07	7.45E-07	3.58E-08	1.08E-06	7.31E-08	1.33E-07	1.17E-08	2.18E-07	5.66E-08	7.39E-08	5.35E-09	1.36E-07
913	565812.7	4222938	4.84E-07	5.91E-07	3.11E-08	1.11E-06	2.56E-07	6.47E-07	3.11E-08	9.35E-07	6.35E-08	1.15E-07	1.02E-08	1.89E-07	4.91E-08	6.42E-08	4.65E-09	1.18E-07
914	565796.2	4222945	4.54E-07	5.55E-07	2.92E-08	1.04E-06	2.41E-07	6.08E-07	2.92E-08	8.78E-07	5.97E-08	1.08E-07	9.57E-09	1.78E-07	4.62E-08	6.03E-08	4.36E-09	1.11E-07
915	565779.6	4222952	4.22E-07	5.15E-07	2.71E-08	9.63E-07	2.23E-07	5.64E-07	2.71E-08	8.15E-07	5.54E-08	1.01E-07	8.88E-09	1.65E-07	4.28E-08	5.60E-08	4.05E-09	1.03E-07
916	565754.7	4222962	3.78E-07	4.62E-07	2.43E-08	8.64E-07	2.00E-07	5.06E-07	2.43E-08	7.31E-07	4.97E-08	9.02E-08	7.96E-09	1.48E-07	3.84E-08	5.02E-08	3.63E-09	9.23E-08
917	565746.4	4222965	3.65E-07	4.46E-07	2.35E-08	8.35E-07	1.94E-07	4.89E-07	2.35E-08	7.06E-07	4.80E-08	8.72E-08	7.69E-09	1.43E-07	3.71E-08	4.85E-08	3.51E-09	8.92E-08
918	565729.8	4222971	3.43E-07	4.19E-07	2.21E-08	7.85E-07	1.82E-07	4.60E-07	2.21E-08	6.64E-07	4.51E-08	8.19E-08	7.23E-09	1.34E-07	3.49E-08	4.56E-08	3.30E-09	8.38E-08
919	565721.5	4222975	3.34E-07	4.08E-07	2.15E-08	7.63E-07	1.77E-07	4.47E-07	2.15E-08	6.46E-07	4.38E-08	7.97E-08	7.03E-09	1.31E-07	3.39E-08	4.44E-08	3.21E-09	8.15E-08
920	565704.9	4222981	3.16E-07	3.86E-07	2.03E-08	7.22E-07	1.67E-07	4.23E-07	2.03E-08	6.11E-07	4.15E-08	7.53E-08	6.65E-09	1.23E-07	3.21E-08	4.20E-08	3.03E-09	7.71E-08
921	565688.3	4222988	3.01E-07	3.67E-07	1.93E-08	6.87E-07	1.59E-07	4.02E-07	1.93E-08	5.81E-07	3.95E-08	7.17E-08	6.33E-09	1.18E-07	3.05E-08	3.99E-08	2.89E-09	7.34E-08
922	565555.6	4223041	2.41E-07	2.94E-07	1.55E-08	5.51E-07	1.28E-07	3.22E-07	1.55E-08	4.66E-07	3.16E-08	5.75E-08	5.07E-09	9.42E-08	2.45E-08	3.20E-08	2.31E-09	5.88E-08
923	566067.7	4222513	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.26E-07	2.09E-06	1.00E-07	3.01E-06	2.05E-07	3.72E-07	3.28E-08	6.09E-07	1.58E-07	2.07E-07	1.50E-08	3.80E-07
924	566067.9	4222504	1.56E-06	1.91E-06	1.00E-07	3.57E-06	8.27E-07	2.09E-06	1.00E-07	3.02E-06	2.05E-07	3.72E-07	3.28E-08	6.10E-07	1.59E-07	2.07E-07	1.50E-08	3.81E-07
925	566068.2	4222495	1.56E-06	1.91E-06	1.00E-07	3.57E-06	8.28E-07	2.09E-06	1.00E-07	3.02E-06	2.05E-07	3.72E-07	3.29E-08	6.10E-07	1.59E-07	2.07E-07	1.50E-08	3.81E-07
926	566068.4	4222486	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.28E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.07E-07	1.50E-08	3.81E-07
927	566084.2	4222521	1.49E-06	1.82E-06	9.59E-08	3.41E-06	7.90E-07	2.00E-06	9.59E-08	2.88E-06	1.96E-07	3.56E-07	3.14E-08	5.83E-07	1.51E-07	1.98E-07	1.43E-08	3.64E-07
928	566077	4222538	1.5E-06	1.84E-06	9.67E-08	3.44E-06	7.97E-07	2.01E-06	9.67E-08	2.91E-06	1.97E-07	3.59E-07	3.17E-08	5.88E-07	1.53E-07	2.00E-07	1.44E-08	3.67E-07
929	566069.9	4222554	1.5E-06	1.84E-06	9.67E-08	3.43E-06	7.97E-07	2.01E-06	9.67E-08	2.91E-06	1.97E-07	3.59E-07	3.16E-08	5.87E-07	1.53E-07	2.00E-07	1.44E-08	3.67E-07
930	566062.8	4222570	1.48E-06	1.81E-06	9.55E-08	3.39E-06	7.87E-07	1.99E-06	9.55E-08	2.87E-06	1.95E-07	3.54E-07	3.13E-08	5.80E-07	1.51E-07	1.97E-07	1.43E-08	3.62E-07
931	566055.7	4222586	1.47E-06	1.79E-06	9.44E-08	3.35E-06	7.78E-07	1.96E-06	9.44E-08	2.84E-06	1.93E-07	3.50E-07	3.09E-08	5.73E-07	1.49E-07	1.95E-07	1.41E-08	3.58E-07
932	566048.5	4222603	1.45E-06	1.77E-06	9.33E-08	3.31E-06	7.69E-07	1.94E-06	9.33E-08	2.80E-06	1.90E-07	3.46E-07	3.05E-08	5.67E-07	1.47E-07	1.93E-07	1.39E-08	3.54E-07
933	566045	4222611	1.44E-06	1.76E-06	9.29E-08	3.30E-06	7.65E-07	1.93E-06	9.29E-08	2.79E-06	1.89E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
934	566037.8	4222627	1.43E-06	1.74E-06	9.19E-08	3.26E-06	7.57E-07	1.91E-06	9.19E-08	2.76E-06	1.88E-07	3.41E-07	3.01E-08	5.58E-07	1.45E-07	1.90E-07	1.37E-08	3.49E-07
935	566030.7	4222643	1.4E-06	1.71E-06	9.00E-08	3.19E-06	7.41E-07	1.87E-06	9.00E-08	2.70E-06	1.84E-07	3.33E-07	2.94E-08	5.46E-07	1.42E-07	1.86E-07	1.34E-08	3.41E-07
936	566023.6	4222660	1.35E-06	1.65E-06	8.72E-08	3.10E-06	7.18E-07	1.81E-06	8.72E-08	2.62E-06	1.78E-07	3.23E-07	2.85E-08	5.30E-07	1.38E-07	1.80E-07	1.30E-08	3.31E-07
937	566016.5	4222676	1.32E-06	1.61E-06	8.50E-08	3.02E-06	7.00E-07	1.77E-06	8.50E-08	2.55E-06	1.73E-07	3.15E-07	2.78E-08	5.16E-07	1.34E-07	1.75E-07	1.27E-08	3.22E-07
938	566009.3	4222692	1.28E-06	1.56E-06	8.23E-08	2.92E-06	6.78E-07	1.71E-06	8.23E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	5.00E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
939	566002.2	4222708	1.25E-06	1.52E-06	8.02E-08	2.85E-06	6.61E-07	1.67E-06	8.02E-08	2.41E-06	1.64E-07	2.97E-07	2.62E-08	4.87E-07	1.27E-07	1.66E-07	1.20E-08	3.04E-07
940	565988	4222741	1.17E-06	1.43E-06	7.51E-08	2.67E-06	6.19E-07	1.56E-06	7.51E-08	2.26E-06	1.53E-07	2.78E-07	2.46E-08	4.56E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
941	565980.8	4222757	1.12E-06	1.36E-06	7.18E-08	2.55E-06	5.91E-07	1.49E-06	7.18E-08	2.16E-06	1.47E-07	2.66E-07	2.35E-08	4.36E-07	1.13E-07	1.48E-07	1.07E-08	2.72E-07
942	565973.7	4222773	1.06E-06	1.3E-06	6.83E-08	2.43E-06	5.63E-07	1.42E-06	6.83E-08	2.05E-06	1.39E-07	2.53E-07	2.24E-08	4.15E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
943	565966.6	4222790	1E-06	1.22E-06	6.44E-08	2.29E-06	5.31E-07	1.34E-06	6.44E-08	1.94E-06	1.32E-07	2.39E-07	2.11E-08	3.91E-07	1.02E-07	1.33E-07	9.62E-09	2.44E-07
944	565959.5	4222806	9.44E-07	1.15E-06	6.07E-08	2.16E-06	5.00E-07	1.26E-06	6.07E-08	1.82E-06	1.24E-07	2.25E-07	1.99E-08	3.69E-07	9.59E-08	1.25E-07	9.07E-09	2.30E-07
945	565952.3	4222822	8.9E-07	1.09E-06	5.73E-08	2.04E-06	4.72E-07	1.19E-06	5.73E-08	1.72E-06	1.17E-07	2.12E-07	1.88E-08	3.48E-07	9.05E-08	1.18E-07	8.55E-09	2.17E-07
946	565941.6	4222847	8.11E-07	9.91E-07	5.22E-08	1.85E-06	4.30E-07	1.09E-06	5.22E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.17E-07	8.24E-08	1.08E-07	7.79E-09	1.98E-07
947	565934.5	4222863	7.65E-07	9.35E-07	4.93E-08	1.75E-06	4.06E-07	1.02E-06	4.93E-08	1.48E-06	1.01E-07	1.83E-07	1.61E-08	2.99E-07	7.78E-08	1.02E-07	7.35E-09	1.87E-07
948	565927.4	4222879	7.19E-07	8.78E-07	4.63E-08	1.64E-06	3.81E-07	9.63E-07	4.63E-08	1.39E-06	9.45E-08	1.72E-07	1.51E-08	2.81E-07	7.31E-08	9.56E-08	6.91E-09	1.76E-07
949	565920.3	4222895	6.7E-07	8.19E-07	4.31E-08	1.53E-06	3.55E-07	8.97E-07	4.31E-08	1.30E-06	8.80E-08	1.60E-07	1.41E-08	2.62E-07	6.81E-08	8.90E-08	6.44E-09	1.64E-07
950	565913.1	4222912	6.19E-07	7.56E-07	3.99E-08	1.42E-06	3.28E-07	8.29E-07	3.99E-08	1.20E-06	8.13E-08	1.48E-07	1.30E-08	2.42E-07	6.29E-08	8.23E-08	5.95E-09	1.51E-07
951	565901.3	4222923	5.8E-07	7.09E-07	3.73E-08	1.33E-06	3.08E-07	7.77E-07	3.73E-08	1.12E-06	7.62E-08	1.38E-07	1.22E-08	2.27E-07	5.90E-08	7.71E-08	5.57E-09	1.42E-07
952	565884.9	4222930	5.52E-07	6.74E-07	3.55E-08	1.26E-06	2.93E-07	7.39E-07	3.55E-08	1.07E-06	7.25E-08	1.32E-07	1.16E-08	2.16E-07	5.61E-08	7.33E-08	5.30E-09	1.35E-07
953	565868.4	4222936	5.24E-07	6.4E-07	3.37E-08	1.20E-06	2.78E-07	7.01E-07	3.37E-08	1.01E-06	6.88E-08	1.25E-07	1.10E-08	2.05E-07	5.32E-08	6.96E-08	5.03E-09	1.28E-07
954	565851.9	4222943	4.96E-07	6.05E-07	3.19E-08	1.13E-06	2.63E-07	6.64E-07	3.19E-08	9.58E-07	6.51E-08	1.18E-07	1.04E-08	1.94E-07	5.04E-08	6.58E-08	4.76E-09	1.21E-07
955	565835.4	4222949	4.7E-07	5.74E-07	3.02E-08	1.07E-06	2.49E-07	6.29E-07	3.02E-08	9.09E-07	6.17E-08	1.12E-07	9.90E-09	1.84E-07	4.78E-08	6.24E-08	4.52E-09	1.15E-07
956	565769.4	4222976	3.69E-07	4.5E-07	2.37E-08	8.43E-07	1.95E-07	4.94E-07	2.37E-08	7.13E-07	4.84E-08	8.80E-08	7.76E-09	1.44E-07	3.75E-08	4.90E-08	3.54E-09	9.00E-08
957	565752.9	4222982	3.46E-07	4.23E-07	2.23E-08	7.91E-07	1.83E-07	4.63E-07	2.23E-08	6.69E-07	4.54E-08	8.26E-08	7.29E-09	1.35E-07	3.52E-08	4.60E-08	3.32E-09	8.45E-08
958	565736.5	4222989	3.27E-07	3.99E-07	2.10E-08	7.47E-07	1.73E-07	4.38E-07	2.10E-08	6.32E-07	4.29E-08	7.80E-08	6.89E-09	1.28E-07	3.32E-08	4.34E-08	3.14E-09	7.98E-08
959	565720	4222995	3.09E-07	3.77E-07	1.99E-08	7.06E-07	1.64E-07	4.14E-07	1.99E-08	5.97E-07	4.06E-08	7.37E-08	6.51E-09	1.21E-07	3.14E-08	4.10E-08	2.97E-09	7.54E-08
960	565703.5	4223002	2.92E-07	3.57E-07	1.88E-08	6.69E-07	1.55E-07	3.92E-07	1.88E-08	5.65E-07	3.84E-08	6.98E-08	6.16E-09	1.14E-07	2.97E-08	3.89E-08	2.81E-09	7.14E-08
961	565687	4223009	2.81E-07	3.43E-07	1.81E-08	6.41E-07	1.49E-07	3.76E-07	1.81E-08	5.43E-07	3.69E-08	6.69E-08	5.91E-09	1.10E-07	2.85E-08	3.73E-08	2.70E-09	6.85E-08
962	566082.4	4222571	1.41E-06	1.72E-06	9.06E-08	3.22E-06	7.46E-07	1.88E-06	9.06E-08	2.72E-06	1.85E-07	3.36E-07	2.96E-08	5.50E-07	1.43E-07	1.87E-07	1.35E-08	3.44E-07
963	566075.2	4222588	1.4E-06	1.71E-06	9.01E-08	3.20E-06	7.42E-07	1.87E-06	9.01E-08	2.71E-06	1.84E-07	3.34E-07	2.95E-08	5.47E-07	1.42E-07	1.86E-07	1.34E-08	3.42E-07
964	566068	4222604	1.39E-06	1.7E-06	8.94E-08	3.17E-06	7.36E-07	1.86E-06	8.94E-08	2.68E-06	1.82E-07	3.31E-07	2.92E-08	5.43E-07	1.41E-07	1.84E-07	1.33E-08	3.39E-07
965	566060.8	4222621	1.38E-06	1.68E-06	8.85E-08	3.14E-06	7.29E-07	1.84E-06	8.85E-08	2.66E-06	1.81E-07	3.28E-07	2.90E-08	5.38E-07	1.40E-07	1.83E-07	1.32E-08	3.36E-07
966	566053.5	4222637	1.36E-06	1.66E-06	8.75E-08	3.11E-06	7.21E-07	1.82E-06	8.75E-08	2.63E-06	1.79E-07	3.24E-07	2.86E-08	5.32E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
967	566046.3	4222654	1.31E-06	1.6E-06	8.45E-08	3.00E-06	6.96E-07	1.76E-06	8.45E-08	2.54E-06	1.72E-07	3.13E-07	2.77E-08	5.14E-07	1.33E-07	1.74E-07	1.26E-08	3.21E-07
968	566039.1	4222670	1.26E-06	1.54E-06	8.14E-08	2.89E-06	6.70E-07	1.69E-06	8.14E-08	2.44E-06	1.66E-07	3.02E-07	2.66E-08	4.94E-07	1.28E-07	1.68E-07	1.21E-08	3.08E-07
969	566031.9	4222687	1.23E-06	1.51E-06	7.94E-08	2.82E-06	6.54E-07	1.65E-06	7.94E-08	2.38E-06	1.62E-07	2.94E-07	2.60E-08	4.82E-07	1.25E-07	1.64E-07	1.19E-08	3.01E-07
970	566024.6	4222703	1.21E-06	1.47E-06	7.77E-08	2.76E-06	6.40E-07	1.62E-06	7.77E-08	2.33E-06	1.59E-07	2.88E-07	2.54E-08	4.72E-07	1.23E-07	1.60E-07	1.16E-08	2.95E-07
971	566017.4	4222720	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.27E-07	1.58E-06	7.61E-08	2.28E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.14E-08	2.88E-07
972	566013.8	4222728	1.17E-06	1.42E-06	7.51E-08	2.67E-06	6.18E-07	1.56E-06	7.51E-08	2.25E-06	1.53E-07	2.78E-07	2.46E-08	4.56E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
973	565999.3	4222761	1.08E-06	1.32E-06	6.93E-08	2.46E-06	5.71E-07	1.44E-06	6.93E-08	2.08E-06	1.41E-07	2.57E-07	2.27E-08	4.21E-07	1.09E-07	1.43E-07	1.03E-08	2.63E-07
974	565992.1	4222777	1.03E-06	1.25E-06	6.61E-08	2.35E-06	5.44E-07	1.37E-06	6.61E-08	1.98E-06	1.35E-07	2.45E-07	2.16E-08	4.01E-07	1.04E-07	1.36E-07	9.86E-09	2.51E-07
975	565984.9	4222794	9.75E-07	1.19E-06	6.28E-08	2.23E-06	5.17E-07	1.31E-06	6.28E-08	1.89E-06	1.28E-07	2.33E-07	2.05E-08	3.81E-07	9.91E-08	1.30E-07	9.37E-09	2

988	565848.3	4222964	4.43E-07	5.41E-07	2.85E-08	1.01E-06	2.35E-07	5.93E-07	2.85E-08	8.56E-07	5.82E-08	1.06E-07	9.33E-09	1.73E-07	4.50E-08	5.88E-08	4.26E-09	1.08E-07
989	565839.9	4222967	4.3E-07	5.25E-07	2.77E-08	9.83E-07	2.28E-07	5.76E-07	2.77E-08	8.32E-07	5.65E-08	1.03E-07	9.06E-09	1.68E-07	4.37E-08	5.71E-08	4.13E-09	1.05E-07
990	565823.2	4222974	4.07E-07	4.97E-07	2.62E-08	9.29E-07	2.16E-07	5.44E-07	2.62E-08	7.86E-07	5.34E-08	9.70E-08	8.56E-09	1.59E-07	4.13E-08	5.40E-08	3.91E-09	9.93E-08
991	565814.8	4222977	3.97E-07	4.85E-07	2.56E-08	9.07E-07	2.10E-07	5.32E-07	2.56E-08	7.68E-07	5.21E-08	9.47E-08	8.36E-09	1.55E-07	4.03E-08	5.27E-08	3.81E-09	9.69E-08
992	565806.5	4222981	3.88E-07	4.73E-07	2.49E-08	8.86E-07	2.05E-07	5.19E-07	2.49E-08	7.49E-07	5.09E-08	9.25E-08	8.16E-09	1.52E-07	3.94E-08	5.15E-08	3.72E-09	9.46E-08
993	565781.4	4222991	3.56E-07	4.34E-07	2.29E-08	8.13E-07	1.88E-07	4.76E-07	2.29E-08	6.87E-07	4.67E-08	8.48E-08	7.49E-09	1.39E-07	3.61E-08	4.72E-08	3.42E-09	8.68E-08
994	565764.7	4222997	3.33E-07	4.07E-07	2.14E-08	7.61E-07	1.77E-07	4.46E-07	2.14E-08	6.44E-07	4.37E-08	7.95E-08	7.01E-09	1.30E-07	3.38E-08	4.42E-08	3.20E-09	8.13E-08
995	565756.3	4223001	3.24E-07	3.96E-07	2.09E-08	7.41E-07	1.72E-07	4.34E-07	2.09E-08	6.27E-07	4.26E-08	7.74E-08	6.83E-09	1.27E-07	3.30E-08	4.31E-08	3.12E-09	7.92E-08
996	565739.6	4223007	3.08E-07	3.77E-07	1.99E-08	7.05E-07	1.64E-07	4.13E-07	1.99E-08	5.96E-07	4.05E-08	7.36E-08	6.50E-09	1.21E-07	3.13E-08	4.10E-08	2.96E-09	7.53E-08
997	565731.2	4223011	3.01E-07	3.67E-07	1.94E-08	6.87E-07	1.59E-07	4.03E-07	1.94E-08	5.81E-07	3.95E-08	7.17E-08	6.33E-09	1.18E-07	3.06E-08	3.99E-08	2.89E-09	7.34E-08
998	565714.5	4223017	2.85E-07	3.48E-07	1.83E-08	6.51E-07	1.51E-07	3.81E-07	1.83E-08	5.51E-07	3.74E-08	6.79E-08	6.00E-09	1.11E-07	2.89E-08	3.78E-08	2.74E-09	6.95E-08
999	565706.2	4223021	2.78E-07	3.39E-07	1.79E-08	6.34E-07	1.47E-07	3.72E-07	1.79E-08	5.37E-07	3.64E-08	6.62E-08	5.84E-09	1.09E-07	2.82E-08	3.69E-08	2.67E-09	6.77E-08
1000	565689.4	4223027	2.66E-07	3.25E-07	1.72E-08	6.09E-07	1.41E-07	3.57E-07	1.72E-08	5.15E-07	3.50E-08	6.36E-08	5.61E-09	1.04E-07	2.71E-08	3.54E-08	2.56E-09	6.50E-08
1001	565681.1	4223031	2.62E-07	3.2E-07	1.68E-08	5.98E-07	1.39E-07	3.50E-07	1.68E-08	5.06E-07	3.44E-08	6.24E-08	5.51E-09	1.02E-07	2.66E-08	3.48E-08	2.51E-09	6.39E-08
1002	565555.7	4223081	2.2E-07	2.69E-07	1.42E-08	5.03E-07	1.17E-07	2.95E-07	1.42E-08	4.26E-07	2.89E-08	5.25E-08	4.64E-09	8.61E-08	2.24E-08	2.93E-08	2.12E-09	5.38E-08
1003	565539	4223087	2.15E-07	2.63E-07	1.39E-08	4.92E-07	1.14E-07	2.88E-07	1.39E-08	4.16E-07	2.83E-08	5.14E-08	4.54E-09	8.42E-08	2.19E-08	2.86E-08	2.07E-09	5.26E-08
1004	565530.6	4223091	2.13E-07	2.6E-07	1.37E-08	4.86E-07	1.13E-07	2.85E-07	1.37E-08	4.11E-07	2.79E-08	5.08E-08	4.48E-09	8.32E-08	2.16E-08	2.83E-08	2.04E-09	5.19E-08
1005	565552.5	4222461	1.44E-05	1.76E-05	9.29E-07	3.30E-05	7.65E-06	1.93E-05	9.29E-07	2.79E-05	1.90E-06	3.44E-06	3.04E-07	5.64E-06	1.47E-06	1.92E-06	1.39E-07	3.52E-06
1006	565552.2	4222451	1.55E-05	1.89E-05	9.95E-07	3.53E-05	8.19E-06	2.07E-05	9.95E-07	2.99E-05	2.03E-06	3.69E-06	3.26E-07	6.04E-06	1.57E-06	2.05E-06	1.49E-07	3.77E-06
1007	565562.3	4222461	1.34E-05	1.64E-05	8.65E-07	3.07E-05	7.13E-06	1.80E-05	8.65E-07	2.60E-05	1.77E-06	3.21E-06	2.83E-07	5.26E-06	1.37E-06	1.79E-06	1.29E-07	3.28E-06
1008	565562.1	4222451	1.43E-05	1.75E-05	9.22E-07	3.28E-05	7.60E-06	1.92E-05	9.22E-07	2.77E-05	1.88E-06	3.42E-06	3.02E-07	5.60E-06	1.46E-06	1.90E-06	1.38E-07	3.50E-06
1009	565572.1	4222461	1.26E-05	1.53E-05	8.08E-07	2.87E-05	6.66E-06	1.68E-05	8.08E-07	2.43E-05	1.65E-06	3.00E-06	2.64E-07	4.91E-06	1.28E-06	1.67E-06	1.21E-07	3.06E-06
1010	565571.9	4222451	1.33E-05	1.63E-05	8.58E-07	3.05E-05	7.07E-06	1.79E-05	8.58E-07	2.58E-05	1.75E-06	3.18E-06	2.81E-07	5.21E-06	1.35E-06	1.77E-06	1.28E-07	3.25E-06
1011	565582	4222460	1.18E-05	1.44E-05	7.57E-07	2.69E-05	6.24E-06	1.57E-05	7.57E-07	2.27E-05	1.54E-06	2.81E-06	2.48E-07	4.60E-06	1.20E-06	1.56E-06	1.13E-07	2.87E-06
1012	565581.7	4222451	1.24E-05	1.52E-05	8.00E-07	2.84E-05	6.59E-06	1.66E-05	8.00E-07	2.40E-05	1.63E-06	2.97E-06	2.62E-07	4.86E-06	1.26E-06	1.65E-06	1.19E-07	3.03E-06
1013	565611.5	4222460	9.77E-06	1.19E-05	6.29E-07	2.23E-05	5.18E-06	1.31E-05	6.29E-07	1.89E-05	1.28E-06	2.33E-06	2.06E-07	3.82E-06	9.93E-07	1.30E-06	9.39E-08	2.39E-06
1014	565611.2	4222450	1.02E-05	1.25E-05	6.57E-07	2.33E-05	5.41E-06	1.37E-05	6.57E-07	1.97E-05	1.34E-06	2.44E-06	2.15E-07	3.99E-06	1.04E-06	1.36E-06	9.81E-08	2.49E-06
1015	565621.3	4222459	9.22E-06	1.13E-05	5.93E-07	2.11E-05	4.89E-06	1.23E-05	5.93E-07	1.78E-05	1.21E-06	2.20E-06	1.94E-07	3.60E-06	9.37E-07	1.22E-06	8.85E-08	2.25E-06
1016	565621.1	4222450	9.59E-06	1.17E-05	6.17E-07	2.19E-05	5.08E-06	1.28E-05	6.17E-07	1.85E-05	1.26E-06	2.29E-06	2.02E-07	3.75E-06	9.75E-07	1.27E-06	9.21E-08	2.34E-06
1017	565631.2	4222459	8.69E-06	1.06E-05	5.59E-07	1.99E-05	4.61E-06	1.16E-05	5.59E-07	1.68E-05	1.14E-06	2.07E-06	1.83E-07	3.40E-06	8.83E-07	1.15E-06	8.35E-08	2.12E-06
1018	565630.9	4222449	9.01E-06	1.1E-05	5.80E-07	2.06E-05	4.78E-06	1.21E-05	5.80E-07	1.74E-05	1.18E-06	2.15E-06	1.90E-07	3.52E-06	9.16E-07	1.20E-06	8.66E-08	2.20E-06
1019	565640.8	4222449	8.49E-06	1.04E-05	5.47E-07	1.94E-05	4.50E-06	1.14E-05	5.47E-07	1.64E-05	1.12E-06	2.03E-06	1.79E-07	3.32E-06	8.63E-07	1.13E-06	8.16E-08	2.07E-06
1020	565650.6	4222449	8.01E-06	9.78E-06	5.16E-07	1.83E-05	4.25E-06	1.07E-05	5.16E-07	1.55E-05	1.05E-06	1.91E-06	1.69E-07	3.13E-06	8.14E-07	1.06E-06	7.70E-08	1.95E-06
1021	565660.7	4222458	7.35E-06	8.98E-06	4.73E-07	1.68E-05	3.90E-06	9.84E-06	4.73E-07	1.42E-05	9.66E-07	1.75E-06	1.55E-07	2.87E-06	7.47E-07	9.77E-07	7.06E-08	1.79E-06
1022	565670.5	4222458	6.97E-06	8.51E-06	4.48E-07	1.59E-05	3.69E-06	9.33E-06	4.48E-07	1.35E-05	9.15E-07	1.66E-06	1.47E-07	2.72E-06	7.08E-07	9.25E-07	6.69E-08	1.70E-06
1023	565670.3	4222448	7.15E-06	8.73E-06	4.60E-07	1.63E-05	3.79E-06	9.57E-06	4.60E-07	1.38E-05	9.38E-07	1.70E-06	1.51E-07	2.79E-06	7.26E-07	9.49E-07	6.87E-08	1.74E-06
1024	565680.6	4222468	6.43E-06	7.85E-06	4.14E-07	1.47E-05	3.41E-06	8.61E-06	4.14E-07	1.24E-05	8.44E-07	1.53E-06	1.35E-07	2.51E-06	6.53E-07	8.54E-07	6.18E-08	1.57E-06
1025	565680.3	4222458	6.61E-06	8.07E-06	4.25E-07	1.51E-05	3.50E-06	8.84E-06	4.25E-07	1.28E-05	8.67E-07	1.58E-06	1.39E-07	2.58E-06	6.71E-07	8.78E-07	6.35E-08	1.61E-06
1026	565680.1	4222448	6.76E-06	8.26E-06	4.35E-07	1.55E-05	3.58E-06	9.05E-06	4.35E-07	1.31E-05	8.88E-07	1.61E-06	1.42E-07	2.64E-06	6.87E-07	8.98E-07	6.50E-08	1.65E-06
1027	565690.4	4222467	6.12E-06	7.47E-06	3.94E-07	1.40E-05	3.24E-06	8.19E-06	3.94E-07	1.18E-05	8.03E-07	1.46E-06	1.29E-07	2.39E-06	6.21E-07	8.12E-07	5.88E-08	1.49E-06
1028	565690.2	4222458	6.27E-06	7.66E-06	4.04E-07	1.43E-05	3.32E-06	8.39E-06	4.04E-07	1.21E-05	8.23E-07	1.50E-06	1.32E-07	2.45E-06	6.37E-07	8.33E-07	6.02E-08	1.53E-06
1029	565689.9	4222448	6.4E-06	7.82E-06	4.12E-07	1.46E-05	3.40E-06	8.57E-06	4.12E-07	1.24E-05	8.41E-07	1.53E-06	1.35E-07	2.50E-06	6.51E-07	8.51E-07	6.15E-08	1.56E-06
1030	565700.2	4222467	5.82E-06	7.11E-06	3.75E-07	1.33E-05	3.09E-06	7.79E-06	3.75E-07	1.13E-05	7.64E-07	1.39E-06	1.23E-07	2.28E-06	5.92E-07	7.73E-07	5.59E-08	1.42E-06
1031	565700	4222457	5.96E-06	7.27E-06	3.83E-07	1.36E-05	3.16E-06	7.97E-06	3.83E-07	1.15E-05	7.82E-07	1.42E-06	1.25E-07	2.33E-06	6.05E-07	7.91E-07	5.72E-08	1.45E-06
1032	565699.8	4222448	6.07E-06	7.42E-06	3.91E-07	1.39E-05	3.22E-06	8.13E-06	3.91E-07	1.17E-05	7.97E-07	1.45E-06	1.28E-07	2.37E-06	6.17E-07	8.07E-07	5.83E-08	1.48E-06
1033	565710.1	4222467	5.55E-06	6.78E-06	3.57E-07	1.27E-05	2.94E-06	7.43E-06	3.57E-07	1.07E-05	7.29E-07	1.32E-06	1.17E-07	2.17E-06	5.64E-07	7.37E-07	5.33E-08	1.35E-06
1034	565709.8	4222457	5.67E-06	6.92E-06	3.65E-07	1.30E-05	3.00E-06	7.59E-06	3.65E-07	1.10E-05	7.44E-07	1.35E-06	1.19E-07	2.22E-06	5.76E-07	7.53E-07	5.44E-08	1.38E-06
1035	565709.6	4222447	5.77E-06	7.04E-06	3.71E-07	1.32E-05	3.06E-06	7.72E-06	3.71E-07	1.11E-05	7.57E-07	1.38E-06	1.21E-07	2.25E-06	5.86E-07	7.66E-07	5.54E-08	1.41E-06
1036	565719.9	4222467	5.29E-06	6.46E-06	3.41E-07	1.21E-05	2.81E-06	7.09E-06	3.41E-07	1.02E-05	6.95E-07	1.26E-06	1.11E-07	2.07E-06	5.38E-07	7.03E-07	5.09E-08	1.29E-06
1037	565719.7	4222457	5.4E-06	6.59E-06	3.47E-07	1.23E-05	2.86E-06	7.23E-06	3.47E-07	1.04E-05	7.09E-07	1.29E-06	1.14E-07	2.11E-06	5.48E-07	7.17E-07	5.18E-08	1.32E-06
1038	565719.4	4222447	5.48E-06	6.7E-06	3.53E-07	1.25E-05	2.91E-06	7.34E-06	3.53E-07	1.06E-05	7.20E-07	1.31E-06	1.15E-07	2.14E-06	5.57E-07	7.28E-07	5.27E-08	1.34E-06
1039	565729.8	4222467	5.05E-06	6.17E-06	3.25E-07	1.16E-05	2.68E-06	6.77E-06	3.25E-07	9.77E-06	6.64E-07	1.21E-06	1.06E-07	1.98E-06	5.14E-07	6.71E-07	4.86E-08	1.23E-06
1040	565729.5	4222457	5.14E-06	6.28E-06	3.31E-07	1.18E-05	2.73E-06	6.89E-06	3.31E-07	9.95E-06	6.76E-07	1.23E-06	1.08E-07	2.01E-06	5.23E-07	6.83E-07	4.94E-08	1.26E-06
1041	565729.3	4222447	5.22E-06	6.38E-06	3.36E-07	1.19E-05	2.77E-06	6.99E-06	3.36E-07	1.01E-05	6.86E-07	1.25E-06	1.10E-07	2.04E-06	5.31E-07	6.93E-07	5.02E-08	1.27E-06
1042	565739.6	4222466	4.83E-06	5.9E-06	3.11E-07	1.10E-05	2.56E-06	6.47E-06	3.11E-07	9.34E-06	6.34E-07	1.15E-06	1.02E-07	1.89E-06	4.91E-07	6.42E-07	4.64E-08	1.18E-06
1043	565739.4	4222457	4.91E-06	6E-06	3.16E-07	1.12E-05	2.60E-06	6.57E-06	3.16E-07	9.49E-06	6.45E-07	1.17E-06	1.03E-07	1.92E-06	4.99E-07	6.52E-07	4.72E-08	1.20E-06
1044	565739.1	4222447	4.97E-06	6.08E-06	3.20E-07	1.14E-05	2.64E-06	6.66E-06	3.20E-07	9.62E-06	6.53E-07	1.19E-06	1.05E-07	1.94E-06	5.06E-07	6.61E-07	4.78E-08	1.21E-06
1045	565749.2	4222456	4.69E-06	5.73E-06	3.02E-07	1.07E-05	2.49E-06	6.28E-06	3.02E-07	9.06E-06	6.16E-07	1.12E-06	9.87E-08	1.83E-06	4.76E-07	6.23E-07	4.50E-08	1.14E-06
1046	565748.9	4222447	4.74E-06	5.8E-06	3.05E-07	1.08E-05	2.52E-06	6.35E-06	3.05E-07	9.17E-06	6.23E-07	1.13E-06	9.99E-08	1.86E-06	4.82E-07	6.30E-07	4.56E-08	1.16E-06
1047	565758.8	4222446	4.53E-06	5.53E-06	2.92E-07	1.04E-05	2.40E-06	6.07E-06	2.92E-07	8.76E-06	5.95E-07	1.08E-06	9.54E-08	1.77E-06	4.60E-07	6.02E-07	4.35E-08	1.11E-06
1048	565769.1	4222466	4.23E-06	5.17E-06	2.72E-07	9.67E-06	2.24E-06	5.67E-06	2.72E-07	8.18E-06	5.56E-07	1.01E-06	8.91E-08	1.65E-06	4.30E-07	5.62E-07	4.07E-08	1.03E-06
1049	565778.9	4222465	4.05E-06	4.95E-06	2.61E-07	9.26E-06	2.15E-06	5.43E-06	2.61E-07	7.84E-06	5.32E-07	9.67E-07	8.54E-08	1.58E-06	4.12E-07	5.38E-07	3.89E-08	9.89E-07
1050	565778.7	4222456	4.1E-06	5.01E-06	2.64E-07	9.37E-06	2.17E-06	5.49E-06	2.64E-07	7.93E-06	5.38E-07	9.78E-07	8.63E-08	1.60E-06	4.17E-07	5.45E-07	3.94E-08	1.00E-06
1051	565788.8	4222465	3.99E-06	4.87E-06	2.57E-07	9.12E-06	2.12E-06	5.34E-06	2.57E-07	7.72E-06	5.24E-07	9.52E-07	8.41E-08	1.56E-06	4.06E-07	5.30E-07	3.83E-08	9.74E-07
1052	565788.5	4222455	3.93E-06	4.79E-06	2.53E-07	8.97E-06	2.08E-06	5.26E-06	2.53E-07	7.59E-06	5.16E-07	9.37E-07	8.27E-08	1.53E-06	3.99E-07	5.22E-07	3.77E-08	9.58E-07
1053	565798.6	4222465	3.83E-06	4.68E-06	2.47E-07	8.76E-06	2.03E-06	5.13E-06	2.47E-07	7.41E-06	5.03E-07	9.14E-07	8.07E-08	1.50E-06	3.89E-07	5.09E-07	3.68E-08	9.35E-07
1054	565798.4	4222455	3.87E-06	4.72E-06	2.49E-07	8.84E-06	2.05E-06	5.18E-06	2.49E-07	7.48E-06	5.08E-07	9.23E-07	8.14E-08	1.51E-06	3.93E-07	5.14E-07	3.72E-08	9.44E-07
1055	565798.1	4222445	3.9E-06	4.76E-06	2.51E-07	8.90E-06	2.07E-06	5.22E-06	2.51E-07	7.53E-06	5.12E-07	9.30E-07	8.20E-08	1.52E-06	3.96E-07	5.18E-07	3.74E-08	9.51E-07
1056	565808.4	4222465	3.67E-06	4.49E-06	2.37E-07	8.40E-06	1.95E-06	4.92E-06	2.37E-07	7.10E-06	4.83E-07	8.77E-07	7.74E-08	1.44E-06	3.73E-07	4.88E-07	3.53E-08	8.97E-07
1057	565808.2	4222455	3.71E-06	4.53E-06	2.39E-07	8.48E-06	1.97E-06	4.97E-06	2.39E-07	7.17E-06	4.87E-07	8.85E-07	7.81E-08	1.45E-06	3.77E-07	4.93E-07	3.56E-08	9.05E-07
1058	565808	4222445	3.73E-06	4.56E-06	2.40E-07	8.54E-06	1.98E-06	5.00E-06	2.40E-07	7.22E-06	4.91E-07	8.91E-07	7.87E-08	1.46E-06	3.80E-07	4.96E-07	3.59E-08	9.12E-07
1059	565828.4	4222464	3.38E-06	4.12E-06	2.17E-07	7.72E-06	1.79E-06	4.52E-06	2.17E-07	6.53E-06	4.43E-07	8.06E-07	7.11E-08	1.32E-06	3.43E-07	4.49E-07	3.24E-08	8.24E-07
1060	565828.2	4222454	3.41E-06	4.16E-06	2.19E-07	7.79E-06	1.81E-06	4.56E-06	2.19E-07	6.59E-06	4.48E-07	8.13E-07	7.18E-08	1.33E-06	3.46E-07	4.53E-07	3.27E-08	8.32E-07
1061	565828	4222445	3.43E-06	4.19E-06	2.21E-07	7.84E-06	1.82E-06	4.59E-06	2.21E-07	6.63E-06	4.51E-07	8.19E-07	7.23E-08	1.34E-06	3.49E-07	4.56E-07	3.30E-08	8.37E-07
1062	565848.4	4222464	3.11E-06	3.79E-06	2.00E-07	7.10E-06	1.65E-06	4.16E-06	2.00E-07	6.01E-06	4.08E-07	7.41E-07	6.54E-08	1.21E-06	3.16E-07	4.13E-07	2.99E-08	7.58E-07
1063	565848.2	4222454	3.13E-06	3.83E-06	2.02E-07	7.16E-06	1.66E-06	4.19E-06	2.02E-07	6.06E-06	4.11E-07	7.47E-07	6.60E-08	1.22E-06	3.18E-07	4.16E-07	3.01E-08	7.64E-07
1064	565848	4222444	3.15E-06	3.85E-06	2.03E-07	7.20E-06	1.67E-06	4.22E-06	2.03E-07	6.09E-06	4.14E-07	7.52E-07	6.64E-08	1.23E-06	3.20E-07	4.19E-07	3.03E-08	7.69E-07
1065	565868.4	4222472	2.86E-06	3.5E-06	1.84E-07	6.55E-06	1.52E-06	3.83E-06	1.84E-07	5.54E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.99E-07
1066	565868.4	4222463	2.88E-06	3.52E-06	1.86E-07	6.59E-06	1.53E-06	3.86E-06	1.86E-07	5.57E-06	3.79E-07	6.88E-07	6.07E-08	1.13E-06	2.93E-07	3.83E-07	2.77E-08	7.04E-07
1067	565868.2	4222453	2.9E-06	3.54E-06	1.87E-07	6.63E-06	1.54E-06	3.89E-06	1.87E-07	5.61E-06	3.81E-07	6.92E-07	6.11E-08	1.13E-06	2.95E-07	3.86E-07	2.79E-08	7.08E-07
1068	565867.9	4222444	2.92E-06	3.56E-06	1.88E-07	6.67E-06	1.55E-06	3.91E-06	1.88E-07	5.64E-06	3.83E-07	6.96E-07	6.14E-08	1.14E-06	2.96E-07	3.88E-07	2.80E-08	7.12E-07
1069	565888.4	4222472	2.67E-06	3.26E-06	1.72E-07	6.11E-06	1.42E-06	3.58E-06	1.72E-07	5.17E-06	3.51E-07	6.37E-07	5.63E-08	1.04E-06	2.72E-07	3.55E-07	2.57E-08	6.52E-07
1070	565888.4	4222463	2.69E-06	3.28E-06	1.73E-07	6.14E-06	1.42E-06	3.60E-06	1.73E-07	5.20E-06	3.53E-07	6.41E-07	5.66E-08	1.05E-06	2.73E-07	3.57E-07	2.58E-08	6.56E-07
1071	565888.2	4222453	2.7E-06	3.3E-06	1.74E-07	6.18E-06	1.43E-06	3.62E-06	1.74E-07	5.23E-06	3.55E-07	6.45E-07	5.69E-08	1.06E-06	2.75E-07	3.59E-07	2.60E-08	6.60E-07
1072	565887.9	4222443	2.71E-06	3.31E-06	1.75E-07	6.20E-06	1.44E-06	3.63E-06	1.75E-07	5.25E-06	3.56E-07	6.47E-07	5.72E-08	1.06E-06	2.76E-07	3.60E-07	2.61E-08	6.62E-07
1073	565908.4	4222469	2.5E-06	3.06E-06	1.61E-07	5.72E-06	1.33E-06	3.35E-06	1.61E-07	4.84E-06	3.29E-07	5.97E-07	5.27E-08	9.79E-07	2.54E-07	3.33E-07	2.41E-08	6.11E-07
1074	565908.2	4222452	2.52E-06	3.08E-06	1.62E-07	5.76E-06	1.34E-06	3.38E-06	1.62E-07	4.88E-06	3.31E-07	6.02E-07	5.31E-08	9.86E-07	2.56E-07	3.35E-07	2.42E-08	6.16E-07
1075	565907.9	4222443	2.53E-06	3.09E-06	1.63E-07	5.78E-06	1.34E-06	3.38E-06	1.63E-07	4.89E-06	3.32E-07	6.03E-07	5.32E-08	9.88E-07	2.57E-07	3.36E-07	2.43E-08	6.17E-07
1076	565928.4	4222468	2.34E-06	2.86E-06	1.51E-07	5.35E-06	1.24E-06	3.13E-06	1.51E-07	4.53E-06	3.07E-07	5.58E-07	4.93E-08	9.15E-07	2.38E-07	3.11E-07	2.25E-08	5.71E-07
1077	565928.2	4222452	2.35E-06	2.87E-06	1.51E-07	5.38E-06	1.25E-06	3.15E-06	1.51E-07	4.55E-06	3.09E-07	5.62E-07	4.96E-08	9.20E-07	2.39E-07	3.13E-07	2.26E-08	5.74E-07
1078	565927.9	4222442	2.36E-06	2.88E-06	1.52E-07	5.39E-06	1.25E-06	3.16E-06	1.52E-07	4.56E-06	3.10E-07	5.63E-07	4.97E-08	9.22E-07	2.40E-07	3.13E-07	2.27E-08	5.76E-07
1079	565948.4	4222468	2.19E-06	2.68E-06	1.41E-07	5.01E-06	1.16E-06	2.94E-06	1.41E-07	4.24E-06	2.88E-07	5.23E-07	4.62E-08	8.57E-07	2.23E-07	2.91E-07	2.11E-08	5.35E-07
1080	565948.2	4222451	2.2E-06	2.69E-06	1.42E-07	5.03E-06	1.17E-06	2.95E-06	1.42E-07	4.26E-06	2.89E-07	5.25E-07	4.64E-08	8.61E-07	2.24E-07	2.92E-07	2.11E-08	5.37E-07
1081	565947.9	4222442	2.21E-06	2.7E-06	1.42E-07	5.05E-06	1.17E-06	2.96E-06	1.42E-07	4.27E-06	2.90E-07	5.27E-07	4.65E-08	8.63E-07	2.24E-07	2.93E-07	2.12E-08	5.39E-07
1082	565968.4	4222468	2.06E-06	2.52E-06	1.33E-07	4.72E-06	1.09E-06	2.76E-06	1.33E-07	3.99E-06	2.71E-07	4.92E-07	4.35E-08	8.07E-07	2.10E-07	2.74E-07	1.98E-08	5.04E-07
1083	565968.2	4222451	2.07E-06	2.53E-06	1.33E-07	4.73E-06	1.10E-06	2.77E-06	1.33E-07	4.00E-06	2.72E-07	4.94E-07	4.36E-08	8.09E-07	2.10E-07	2.75E-07	1.99E-08	5.05E-07
1084	565967.9	4222441	2.08E-06	2.53E-06	1.34E-07	4.74E-06	1.10E-06	2.78E-06	1.34E-07	4.01E-06	2.73E-07	4.95E-07	4.37E-08	8.11E-07	2.11E-07	2.76E-07	1.99E-08	5.07E-07
1085	565988.4	4222468	1.95E-06	2.38E-06	1.25E-07	4.45E-06

1098	566068.4	4222467	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.29E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
1099	566068.4	4222476	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.29E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
1100	566068.4	4222458	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.29E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
1101	566068.1	4222448	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.29E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.08E-07	1.50E-08	3.81E-07
1102	566067.9	4222439	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.28E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.07E-07	1.50E-08	3.81E-07
1103	565551.8	4222441	1.66E-05	2.03E-05	1.07E-06	3.80E-05	8.82E-06	2.23E-05	1.07E-06	3.22E-05	2.18E-06	3.97E-06	3.50E-07	6.50E-06	1.69E-06	2.21E-06	1.60E-07	4.06E-06
1104	565561.6	4222440	1.54E-05	1.88E-05	9.88E-07	3.51E-05	8.14E-06	2.06E-05	9.88E-07	2.97E-05	2.02E-06	3.66E-06	3.23E-07	6.00E-06	1.56E-06	2.04E-06	1.48E-07	3.75E-06
1105	565561.2	4222431	1.63E-05	1.99E-05	1.05E-06	3.72E-05	8.63E-06	2.18E-05	1.05E-06	3.15E-05	2.14E-06	3.88E-06	3.43E-07	6.36E-06	1.65E-06	2.16E-06	1.56E-07	3.97E-06
1106	565560.7	4222421	1.72E-05	2.1E-05	1.11E-06	3.93E-05	9.11E-06	2.30E-05	1.11E-06	3.32E-05	2.26E-06	4.10E-06	3.62E-07	6.72E-06	1.75E-06	2.28E-06	1.65E-07	4.19E-06
1107	565571.4	4222440	1.42E-05	1.74E-05	9.15E-07	3.25E-05	7.54E-06	1.90E-05	9.15E-07	2.75E-05	1.87E-06	3.39E-06	3.00E-07	5.56E-06	1.45E-06	1.89E-06	1.37E-07	3.47E-06
1108	565571	4222430	1.5E-05	1.83E-05	9.65E-07	3.43E-05	7.95E-06	2.01E-05	9.65E-07	2.90E-05	1.97E-06	3.58E-06	3.16E-07	5.86E-06	1.52E-06	1.99E-06	1.44E-07	3.66E-06
1109	565570.6	4222421	1.57E-05	1.92E-05	1.01E-06	3.59E-05	8.34E-06	2.11E-05	1.01E-06	3.04E-05	2.07E-06	3.75E-06	3.31E-07	6.15E-06	1.60E-06	2.09E-06	1.51E-07	3.84E-06
1110	565581.3	4222439	1.32E-05	1.61E-05	8.50E-07	3.02E-05	7.00E-06	1.77E-05	8.50E-07	2.55E-05	1.73E-06	3.15E-06	2.78E-07	5.16E-06	1.34E-06	1.75E-06	1.27E-07	3.22E-06
1111	565580.8	4222430	1.39E-05	1.69E-05	8.91E-07	3.17E-05	7.34E-06	1.85E-05	8.91E-07	2.68E-05	1.82E-06	3.30E-06	2.92E-07	5.42E-06	1.41E-06	1.84E-06	1.33E-07	3.38E-06
1112	565580.4	4222420	1.45E-05	1.77E-05	9.31E-07	3.30E-05	7.67E-06	1.94E-05	9.31E-07	2.80E-05	1.90E-06	3.45E-06	3.04E-07	5.65E-06	1.47E-06	1.92E-06	1.39E-07	3.53E-06
1113	565591.1	4222439	1.23E-05	1.5E-05	7.91E-07	2.81E-05	6.52E-06	1.65E-05	7.91E-07	2.38E-05	1.61E-06	2.93E-06	2.59E-07	4.81E-06	1.25E-06	1.63E-06	1.18E-07	3.00E-06
1114	565590.6	4222429	1.28E-05	1.57E-05	8.26E-07	2.93E-05	6.80E-06	1.72E-05	8.26E-07	2.48E-05	1.69E-06	3.06E-06	2.70E-07	5.02E-06	1.30E-06	1.70E-06	1.23E-07	3.13E-06
1115	565590.2	4222420	1.33E-05	1.63E-05	8.58E-07	3.05E-05	7.07E-06	1.79E-05	8.58E-07	2.58E-05	1.75E-06	3.18E-06	2.81E-07	5.21E-06	1.36E-06	1.77E-06	1.28E-07	3.26E-06
1116	565610.7	4222438	1.07E-05	1.31E-05	6.90E-07	2.45E-05	5.68E-06	1.43E-05	6.90E-07	2.07E-05	1.41E-06	2.56E-06	2.26E-07	4.19E-06	1.09E-06	1.42E-06	1.03E-07	2.62E-06
1117	565610.3	4222429	1.11E-05	1.36E-05	7.14E-07	2.54E-05	5.89E-06	1.49E-05	7.14E-07	2.15E-05	1.46E-06	2.65E-06	2.34E-07	4.34E-06	1.13E-06	1.47E-06	1.07E-07	2.71E-06
1118	565609.9	4222419	1.15E-05	1.4E-05	7.37E-07	2.62E-05	6.07E-06	1.53E-05	7.37E-07	2.21E-05	1.50E-06	2.73E-06	2.41E-07	4.48E-06	1.16E-06	1.52E-06	1.10E-07	2.79E-06
1119	565620.6	4222438	1E-05	1.23E-05	6.46E-07	2.29E-05	5.32E-06	1.34E-05	6.46E-07	1.94E-05	1.32E-06	2.39E-06	2.11E-07	3.92E-06	1.02E-06	1.33E-06	9.64E-08	2.45E-06
1120	565620.1	4222428	1.04E-05	1.27E-05	6.67E-07	2.37E-05	5.49E-06	1.39E-05	6.67E-07	2.00E-05	1.36E-06	2.47E-06	2.18E-07	4.05E-06	1.05E-06	1.38E-06	9.95E-08	2.53E-06
1121	565619.7	4222419	1.07E-05	1.3E-05	6.86E-07	2.43E-05	5.65E-06	1.43E-05	6.86E-07	2.06E-05	1.40E-06	2.54E-06	2.24E-07	4.16E-06	1.08E-06	1.41E-06	1.02E-07	2.60E-06
1122	565630.4	4222437	9.4E-06	1.15E-05	6.05E-07	2.15E-05	4.98E-06	1.26E-05	6.05E-07	1.82E-05	1.23E-06	2.24E-06	1.98E-07	3.67E-06	9.55E-07	1.25E-06	9.03E-08	2.29E-06
1123	565630	4222428	9.67E-06	1.18E-05	6.23E-07	2.21E-05	5.13E-06	1.29E-05	6.23E-07	1.87E-05	1.27E-06	2.31E-06	2.04E-07	3.78E-06	9.83E-07	1.28E-06	9.29E-08	2.36E-06
1124	565629.5	4222418	9.92E-06	1.21E-05	6.38E-07	2.27E-05	5.26E-06	1.33E-05	6.38E-07	1.92E-05	1.30E-06	2.37E-06	2.09E-07	3.88E-06	1.01E-06	1.32E-06	9.53E-08	2.42E-06
1125	565640.2	4222437	8.83E-06	1.08E-05	5.68E-07	2.02E-05	4.68E-06	1.18E-05	5.68E-07	1.71E-05	1.16E-06	2.11E-06	1.86E-07	3.45E-06	8.97E-07	1.17E-06	8.48E-08	2.15E-06
1126	565639.8	4222427	9.06E-06	1.11E-05	5.83E-07	2.07E-05	4.80E-06	1.21E-05	5.83E-07	1.75E-05	1.19E-06	2.16E-06	1.91E-07	3.54E-06	9.21E-07	1.20E-06	8.70E-08	2.21E-06
1127	565639.4	4222418	9.26E-06	1.13E-05	5.96E-07	2.12E-05	4.91E-06	1.24E-05	5.96E-07	1.79E-05	1.22E-06	2.21E-06	1.95E-07	3.62E-06	9.41E-07	1.23E-06	8.90E-08	2.26E-06
1128	565650.1	4222436	8.3E-06	1.01E-05	5.34E-07	1.90E-05	4.40E-06	1.11E-05	5.34E-07	1.61E-05	1.09E-06	1.98E-06	1.75E-07	3.25E-06	8.44E-07	1.10E-06	7.98E-08	2.03E-06
1129	565649.6	4222427	8.5E-06	1.04E-05	5.47E-07	1.94E-05	4.51E-06	1.14E-05	5.47E-07	1.64E-05	1.12E-06	2.03E-06	1.79E-07	3.32E-06	8.64E-07	1.13E-06	8.16E-08	2.07E-06
1130	565649.2	4222417	8.67E-06	1.06E-05	5.58E-07	1.98E-05	4.60E-06	1.16E-05	5.58E-07	1.68E-05	1.14E-06	2.07E-06	1.83E-07	3.39E-06	8.81E-07	1.15E-06	8.33E-08	2.12E-06
1131	565659.9	4222436	7.81E-06	9.54E-06	5.03E-07	1.79E-05	4.14E-06	1.05E-05	5.03E-07	1.51E-05	1.03E-06	1.86E-06	1.65E-07	3.06E-06	7.94E-07	1.04E-06	7.51E-08	1.91E-06
1132	565659.4	4222426	7.98E-06	9.75E-06	5.14E-07	1.82E-05	4.23E-06	1.07E-05	5.14E-07	1.54E-05	1.05E-06	1.90E-06	1.68E-07	3.12E-06	8.11E-07	1.06E-06	7.67E-08	1.95E-06
1133	565659	4222417	8.13E-06	9.92E-06	5.23E-07	1.86E-05	4.31E-06	1.09E-05	5.23E-07	1.57E-05	1.07E-06	1.94E-06	1.71E-07	3.18E-06	8.26E-07	1.08E-06	7.81E-08	1.98E-06
1134	565669.7	4222435	7.37E-06	9E-06	4.74E-07	1.68E-05	3.91E-06	9.86E-06	4.74E-07	1.42E-05	9.68E-07	1.76E-06	1.55E-07	2.88E-06	7.49E-07	9.79E-07	7.08E-08	1.80E-06
1135	565669.3	4222426	7.51E-06	9.17E-06	4.83E-07	1.72E-05	3.98E-06	1.01E-05	4.83E-07	1.45E-05	9.86E-07	1.79E-06	1.58E-07	2.94E-06	7.63E-07	9.97E-07	7.21E-08	1.83E-06
1136	565668.8	4222416	7.63E-06	9.32E-06	4.91E-07	1.74E-05	4.05E-06	1.02E-05	4.91E-07	1.48E-05	1.00E-06	1.82E-06	1.61E-07	2.98E-06	7.75E-07	1.01E-06	7.33E-08	1.86E-06
1137	565679.1	4222425	7.07E-06	8.64E-06	4.55E-07	1.62E-05	3.75E-06	9.47E-06	4.55E-07	1.37E-05	9.29E-07	1.69E-06	1.49E-07	2.77E-06	7.19E-07	9.40E-07	6.80E-08	1.73E-06
1138	565678.7	4222416	7.18E-06	8.76E-06	4.62E-07	1.64E-05	3.80E-06	9.61E-06	4.62E-07	1.39E-05	9.42E-07	1.71E-06	1.51E-07	2.81E-06	7.29E-07	9.53E-07	6.90E-08	1.75E-06
1139	565689.4	4222435	6.57E-06	8.03E-06	4.23E-07	1.50E-05	3.48E-06	8.80E-06	4.23E-07	1.27E-05	8.63E-07	1.57E-06	1.38E-07	2.57E-06	6.68E-07	8.73E-07	6.31E-08	1.60E-06
1140	565688.5	4222415	6.76E-06	8.26E-06	4.35E-07	1.55E-05	3.58E-06	9.05E-06	4.35E-07	1.31E-05	8.88E-07	1.61E-06	1.42E-07	2.64E-06	6.87E-07	8.98E-07	6.49E-08	1.65E-06
1141	565699.2	4222434	6.22E-06	7.59E-06	4.00E-07	1.42E-05	3.30E-06	8.32E-06	4.00E-07	1.20E-05	8.17E-07	1.48E-06	1.31E-07	2.43E-06	6.32E-07	8.26E-07	5.97E-08	1.52E-06
1142	565698.8	4222425	6.3E-06	7.7E-06	4.06E-07	1.44E-05	3.34E-06	8.44E-06	4.06E-07	1.22E-05	8.28E-07	1.50E-06	1.33E-07	2.46E-06	6.41E-07	8.37E-07	6.06E-08	1.54E-06
1143	565709	4222434	5.89E-06	7.2E-06	3.79E-07	1.35E-05	3.12E-06	7.89E-06	3.79E-07	1.14E-05	7.74E-07	1.41E-06	1.24E-07	2.30E-06	5.99E-07	7.83E-07	5.66E-08	1.44E-06
1144	565708.6	4222424	5.96E-06	7.29E-06	3.84E-07	1.36E-05	3.16E-06	7.99E-06	3.84E-07	1.15E-05	7.83E-07	1.42E-06	1.26E-07	2.33E-06	6.06E-07	7.92E-07	5.73E-08	1.46E-06
1145	565708.2	4222415	6.03E-06	7.36E-06	3.88E-07	1.38E-05	3.20E-06	8.07E-06	3.88E-07	1.17E-05	7.91E-07	1.44E-06	1.27E-07	2.36E-06	6.12E-07	8.01E-07	5.79E-08	1.47E-06
1146	565718.9	4222433	5.59E-06	6.83E-06	3.60E-07	1.28E-05	2.97E-06	7.49E-06	3.60E-07	1.08E-05	7.35E-07	1.33E-06	1.18E-07	2.19E-06	5.68E-07	7.43E-07	5.37E-08	1.37E-06
1147	565718.4	4222424	5.66E-06	6.91E-06	3.64E-07	1.29E-05	3.00E-06	7.57E-06	3.64E-07	1.09E-05	7.43E-07	1.35E-06	1.19E-07	2.21E-06	5.75E-07	7.51E-07	5.43E-08	1.38E-06
1148	565718	4222414	5.71E-06	6.97E-06	3.67E-07	1.30E-05	3.03E-06	7.64E-06	3.67E-07	1.10E-05	7.49E-07	1.36E-06	1.20E-07	2.23E-06	5.80E-07	7.58E-07	5.48E-08	1.39E-06
1149	565728.7	4222433	5.32E-06	6.49E-06	3.42E-07	1.22E-05	2.82E-06	7.12E-06	3.42E-07	1.03E-05	6.98E-07	1.27E-06	1.12E-07	2.08E-06	5.40E-07	7.06E-07	5.11E-08	1.30E-06
1150	565728.2	4222423	5.37E-06	6.56E-06	3.46E-07	1.23E-05	2.85E-06	7.19E-06	3.46E-07	1.04E-05	7.05E-07	1.28E-06	1.13E-07	2.10E-06	5.46E-07	7.13E-07	5.16E-08	1.31E-06
1151	565727.8	4222414	5.41E-06	6.61E-06	3.48E-07	1.24E-05	2.87E-06	7.24E-06	3.48E-07	1.05E-05	7.11E-07	1.29E-06	1.14E-07	2.12E-06	5.50E-07	7.19E-07	5.20E-08	1.32E-06
1152	565738.5	4222432	5.06E-06	6.18E-06	3.26E-07	1.16E-05	2.68E-06	6.77E-06	3.26E-07	9.78E-06	6.64E-07	1.21E-06	1.07E-07	1.98E-06	5.14E-07	6.72E-07	4.86E-08	1.23E-06
1153	565738.1	4222423	5.1E-06	6.23E-06	3.28E-07	1.17E-05	2.70E-06	6.83E-06	3.28E-07	9.86E-06	6.70E-07	1.22E-06	1.07E-07	1.99E-06	5.18E-07	6.78E-07	4.90E-08	1.25E-06
1154	565737.6	4222413	5.14E-06	6.27E-06	3.31E-07	1.17E-05	2.72E-06	6.88E-06	3.31E-07	9.93E-06	6.75E-07	1.23E-06	1.08E-07	2.01E-06	5.22E-07	6.82E-07	4.94E-08	1.25E-06
1155	565748.3	4222432	4.82E-06	5.88E-06	3.10E-07	1.10E-05	2.55E-06	6.45E-06	3.10E-07	9.31E-06	6.33E-07	1.15E-06	1.01E-07	1.88E-06	4.90E-07	6.40E-07	4.63E-08	1.18E-06
1156	565747.9	4222422	4.85E-06	5.93E-06	3.12E-07	1.11E-05	2.57E-06	6.50E-06	3.12E-07	9.39E-06	6.38E-07	1.16E-06	1.02E-07	1.90E-06	4.93E-07	6.45E-07	4.66E-08	1.18E-06
1157	565747.5	4222413	4.88E-06	5.96E-06	3.14E-07	1.12E-05	2.59E-06	6.54E-06	3.14E-07	9.44E-06	6.41E-07	1.16E-06	1.03E-07	1.91E-06	4.96E-07	6.49E-07	4.69E-08	1.19E-06
1158	565758.2	4222431	4.59E-06	5.61E-06	2.96E-07	1.05E-05	2.44E-06	6.15E-06	2.96E-07	8.88E-06	6.03E-07	1.10E-06	9.67E-08	1.80E-06	4.67E-07	6.10E-07	4.41E-08	1.12E-06
1159	565757.7	4222422	4.62E-06	5.65E-06	2.98E-07	1.06E-05	2.45E-06	6.19E-06	2.98E-07	8.94E-06	6.07E-07	1.10E-06	9.74E-08	1.81E-06	4.70E-07	6.14E-07	4.44E-08	1.13E-06
1160	565757.3	4222412	4.65E-06	5.67E-06	2.99E-07	1.06E-05	2.46E-06	6.22E-06	2.99E-07	8.98E-06	6.10E-07	1.11E-06	9.79E-08	1.82E-06	4.72E-07	6.17E-07	4.46E-08	1.13E-06
1161	565768	4222431	4.38E-06	5.35E-06	2.82E-07	1.00E-05	2.32E-06	5.87E-06	2.82E-07	8.47E-06	5.76E-07	1.05E-06	9.23E-08	1.71E-06	4.45E-07	5.82E-07	4.21E-08	1.07E-06
1162	565767.6	4222421	4.41E-06	5.38E-06	2.84E-07	1.01E-05	2.34E-06	5.90E-06	2.84E-07	8.52E-06	5.79E-07	1.05E-06	9.29E-08	1.72E-06	4.48E-07	5.86E-07	4.24E-08	1.08E-06
1163	565767.1	4222412	4.43E-06	5.41E-06	2.85E-07	1.01E-05	2.35E-06	5.93E-06	2.85E-07	8.56E-06	5.81E-07	1.06E-06	9.32E-08	1.73E-06	4.50E-07	5.88E-07	4.25E-08	1.08E-06
1164	565777.8	4222431	4.19E-06	5.11E-06	2.69E-07	9.57E-06	2.22E-06	5.60E-06	2.69E-07	8.09E-06	5.50E-07	9.98E-07	8.81E-08	1.64E-06	4.25E-07	5.56E-07	4.02E-08	1.02E-06
1165	565777.4	4222421	4.21E-06	5.14E-06	2.71E-07	9.61E-06	2.23E-06	5.63E-06	2.71E-07	8.13E-06	5.52E-07	1.00E-06	8.86E-08	1.64E-06	4.27E-07	5.59E-07	4.04E-08	1.03E-06
1166	565777	4222411	4.22E-06	5.15E-06	2.72E-07	9.65E-06	2.24E-06	5.65E-06	2.72E-07	8.16E-06	5.54E-07	1.01E-06	8.89E-08	1.65E-06	4.29E-07	5.61E-07	4.06E-08	1.03E-06
1167	565787.2	4222421	4.02E-06	4.91E-06	2.59E-07	9.18E-06	2.13E-06	5.38E-06	2.59E-07	7.77E-06	5.28E-07	9.59E-07	8.46E-08	1.57E-06	4.08E-07	5.34E-07	3.86E-08	9.81E-07
1168	565786.8	4222411	4.03E-06	4.92E-06	2.59E-07	9.21E-06	2.14E-06	5.39E-06	2.59E-07	7.79E-06	5.29E-07	9.61E-07	8.49E-08	1.58E-06	4.09E-07	5.35E-07	3.87E-08	9.83E-07
1169	565796.6	4222411	3.95E-06	4.83E-06	2.54E-07	9.04E-06	2.10E-06	5.29E-06	2.54E-07	7.64E-06	5.19E-07	9.43E-07	8.33E-08	1.55E-06	4.02E-07	5.25E-07	3.80E-08	9.65E-07
1170	565807.3	4222429	3.77E-06	4.6E-06	2.42E-07	8.61E-06	2.00E-06	5.04E-06	2.42E-07	7.28E-06	4.95E-07	8.99E-07	7.93E-08	1.47E-06	3.83E-07	5.00E-07	3.62E-08	9.19E-07
1171	565827.3	4222428	3.46E-06	4.23E-06	2.23E-07	7.91E-06	1.83E-06	4.63E-06	2.23E-07	6.69E-06	4.54E-07	8.25E-07	7.29E-08	1.35E-06	3.52E-07	4.60E-07	3.32E-08	8.44E-07
1172	565826.9	4222419	3.47E-06	4.23E-06	2.23E-07	7.93E-06	1.84E-06	4.64E-06	2.23E-07	6.70E-06	4.55E-07	8.27E-07	7.30E-08	1.36E-06	3.52E-07	4.61E-07	3.33E-08	8.46E-07
1173	565826.4	4222409	3.47E-06	4.24E-06	2.23E-07	7.93E-06	1.84E-06	4.65E-06	2.23E-07	6.71E-06	4.56E-07	8.28E-07	7.31E-08	1.36E-06	3.53E-07	4.61E-07	3.33E-08	8.47E-07
1174	565847.3	4222427	3.18E-06	3.88E-06	2.04E-07	7.26E-06	1.68E-06	4.25E-06	2.04E-07	6.14E-06	4.17E-07	7.58E-07	6.69E-08	1.24E-06	3.23E-07	4.22E-07	3.05E-08	7.75E-07
1175	565846.8	4222418	3.19E-06	3.89E-06	2.05E-07	7.28E-06	1.69E-06	4.26E-06	2.05E-07	6.16E-06	4.18E-07	7.60E-07	6.71E-08	1.25E-06	3.24E-07	4.23E-07	3.06E-08	7.77E-07
1176	565846.4	4222408	3.19E-06	3.89E-06	2.05E-07	7.29E-06	1.69E-06	4.27E-06	2.05E-07	6.16E-06	4.19E-07	7.61E-07	6.72E-08	1.25E-06	3.24E-07	4.24E-07	3.06E-08	7.78E-07
1177	565867.2	4222427	2.94E-06	3.59E-06	1.89E-07	6.71E-06	1.56E-06	3.93E-06	1.89E-07	5.68E-06	3.86E-07	7.01E-07	6.19E-08	1.15E-06	2.98E-07	3.90E-07	2.82E-08	7.17E-07
1178	565866.8	4222417	2.94E-06	3.59E-06	1.89E-07	6.72E-06	1.56E-06	3.94E-06	1.89E-07	5.69E-06	3.86E-07	7.02E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.18E-07
1179	565866.4	4222407	2.94E-06	3.59E-06	1.89E-07	6.73E-06	1.56E-06	3.94E-06	1.89E-07	5.69E-06	3.86E-07	7.02E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.18E-07
1180	565887.2	4222426	2.73E-06	3.33E-06	1.76E-07	6.24E-06	1.45E-06	3.65E-06	1.76E-07	5.27E-06	3.58E-07	6.51E-07	5.75E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.66E-07
1181	565886.8	4222416	2.73E-06	3.33E-06	1.76E-07	6.24E-06	1.45E-06	3.65E-06	1.76E-07	5.28E-06	3.58E-07	6.51E-07	5.75E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.66E-07
1182	565886.4	4222406	2.73E-06	3.33E-06	1.75E-07	6.23E-06	1.45E-06	3.65E-06	1.75E-07	5.27E-06	3.58E-07	6.50E-07	5.74E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.65E-07
1183	565907.2	4222425	2.53E-06	3.09E-06	1.63E-07	5.79E-06	1.34E-06	3.39E-06	1.63E-07	4.90E-06	3.33E-07	6.04E-07	5.34E-08	9.90E-07	2.57E-07	3.37E-07	2.43E-08	6.18E-07
1184	565906.8	4222415	2.54E-06	3.1E-06	1.63E-07	5.80E-06	1.34E-06	3.40E-06	1.63E-07	4.90E-06	3.33E-07	6.05E-07	5.34E-08	9.92E-07	2.58E-07	3.37E-07	2.44E-08	6.19E-07
1185	565906.3	4222406	2.54E-06	3.1E-06	1.63E-07	5.80E-06	1.34E-06	3.40E-06	1.63E-07	4.90E-06	3.33E-07	6.05E-07	5.34E-08	9.92E-07	2.58E-07	3.37E-07	2.44E-08	6.19E-07
1186	565927.2	4222424	2.37E-06	2.89E-06	1.52E-07	5.41E-06	1.25E-06	3.17E-06	1.52E-07	4.57E-06	3.11E-07	5.64E-07	4.98E-08	9.25E-07	2.40E-07	3.14E-07	2.27E-08	5.77E-07
1187	565926.8	4222414	2.37E-06	2.89E-06	1.52E-07	5.41E-06	1.26E-06	3.17E-06	1.52E-07	4.58E-06	3.11E-07	5.65E-07	4.99E-08	9.26E-07	2.41E-07	3.15E-07	2.28E-08	5.78E-07
1188	565926.3	4222405	2.37E-06	2.89E-06	1.52E-07	5.41E-06	1.26E-06	3.17E-06	1.52E-07	4.58E-06	3.11E-07	5.65E-07	4.99E-08	9.26E-07	2.41E-07	3.15E-07	2.28E-08	5.78E-07
1189	565947.6	4222432	2.21E-06	2.7E-06	1.42E-07	5.06E-06	1.17E-06	2.96E-06	1.42E-07	4.28E-06	2.91E-07	5.28E-07	4.66E-08	8.65E-07	2.25E-07	2.94E-07	2.13E-08	5.40E-07
1190	565947.2	4222423	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.94E-07	2.13E-08	5.41E-07
1191	565946.7	4222413	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.95E-07	2.13E-08	5.41E-07
1192	565946.3	4222404	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.95E-07	2.13E-08	5.41E-07
1193	565967.6	4222432	2.08E-06	2.54E-06	1.34E-07	4.75E-06	1.10E-06	2.78E-06	1.34E-07	4.02E-06	2.73E-07	4.96E-07	4.38E-08	8.13E-07	2.11E-07	2.76E-07	2.00E-08	5.08E-07
1194	565967.1	4222422	2.08E-06	2.54E-06	1.34E-07	4.76E-06	1.10E-06	2.79E-06	1.34E-07	4.02E-06	2.73E-07	4.97E-07	4.38E-08	8.14E-07	2.12E-07	2.76E-07	2.00E-08	5.08E-07
1195	565966.7	4222412	2.08E-06	2.54E-06	1.34E-07

1208	566026.2	4222400	1.73E-06	2.12E-06	1.12E-07	3.96E-06	9.19E-07	2.32E-06	1.12E-07	3.35E-06	2.28E-07	4.13E-07	3.65E-08	6.78E-07	1.76E-07	2.30E-07	1.67E-08	4.23E-07
1209	566047.5	4222428	1.65E-06	2.02E-06	1.06E-07	3.77E-06	8.75E-07	2.21E-06	1.06E-07	3.19E-06	2.17E-07	3.94E-07	3.48E-08	6.46E-07	1.68E-07	2.19E-07	1.59E-08	4.03E-07
1210	566047.1	4222418	1.65E-06	2.01E-06	1.06E-07	3.77E-06	8.74E-07	2.21E-06	1.06E-07	3.19E-06	2.16E-07	3.93E-07	3.47E-08	6.44E-07	1.67E-07	2.19E-07	1.58E-08	4.02E-07
1211	566046.6	4222409	1.64E-06	2.01E-06	1.06E-07	3.76E-06	8.71E-07	2.20E-06	1.06E-07	3.18E-06	2.16E-07	3.92E-07	3.46E-08	6.43E-07	1.67E-07	2.18E-07	1.58E-08	4.01E-07
1212	566046.2	4222399	1.64E-06	2E-06	1.05E-07	3.74E-06	8.68E-07	2.19E-06	1.05E-07	3.17E-06	2.15E-07	3.91E-07	3.45E-08	6.40E-07	1.66E-07	2.18E-07	1.57E-08	4.00E-07
1213	566067.5	4222427	1.56E-06	1.91E-06	1.00E-07	3.57E-06	8.27E-07	2.09E-06	1.00E-07	3.02E-06	2.05E-07	3.72E-07	3.29E-08	6.10E-07	1.59E-07	2.07E-07	1.50E-08	3.81E-07
1214	566067	4222417	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.26E-07	2.09E-06	1.00E-07	3.01E-06	2.05E-07	3.72E-07	3.28E-08	6.09E-07	1.58E-07	2.07E-07	1.50E-08	3.80E-07
1215	565560.4	4222408	1.82E-05	2.23E-05	1.17E-06	4.17E-05	9.67E-06	2.44E-05	1.17E-06	3.53E-05	2.40E-06	4.35E-06	3.84E-07	7.13E-06	1.85E-06	2.42E-06	1.75E-07	4.45E-06
1216	565570.3	4222408	1.66E-05	2.02E-05	1.07E-06	3.79E-05	8.78E-06	2.22E-05	1.07E-06	3.20E-05	2.18E-06	3.95E-06	3.49E-07	6.48E-06	1.68E-06	2.20E-06	1.59E-07	4.04E-06
1217	565580.1	4222408	1.51E-05	1.85E-05	9.74E-07	3.46E-05	8.02E-06	2.03E-05	9.74E-07	2.92E-05	1.99E-06	3.61E-06	3.19E-07	5.91E-06	1.54E-06	2.01E-06	1.45E-07	3.69E-06
1218	565589.9	4222408	1.39E-05	1.69E-05	8.93E-07	3.17E-05	7.35E-06	1.86E-05	8.93E-07	2.68E-05	1.82E-06	3.31E-06	2.92E-07	5.42E-06	1.41E-06	1.84E-06	1.33E-07	3.39E-06
1219	565619.5	4222407	1.09E-05	1.33E-05	7.03E-07	2.50E-05	5.79E-06	1.46E-05	7.03E-07	2.11E-05	1.44E-06	2.61E-06	2.30E-07	4.27E-06	1.11E-06	1.45E-06	1.05E-07	2.67E-06
1220	565629.3	4222407	1.01E-05	1.24E-05	6.52E-07	2.32E-05	5.37E-06	1.36E-05	6.52E-07	1.96E-05	1.33E-06	2.42E-06	2.13E-07	3.96E-06	1.03E-06	1.35E-06	9.74E-08	2.47E-06
1221	565639.1	4222407	9.44E-06	1.15E-05	6.08E-07	2.16E-05	5.00E-06	1.26E-05	6.08E-07	1.83E-05	1.24E-06	2.25E-06	1.99E-07	3.69E-06	9.59E-07	1.25E-06	9.07E-08	2.30E-06
1222	565649	4222406	8.81E-06	1.08E-05	5.67E-07	2.01E-05	4.67E-06	1.18E-05	5.67E-07	1.70E-05	1.16E-06	2.10E-06	1.86E-07	3.44E-06	8.95E-07	1.17E-06	8.47E-08	2.15E-06
1223	565658.8	4222406	8.24E-06	1.01E-05	5.30E-07	1.88E-05	4.37E-06	1.10E-05	5.30E-07	1.59E-05	1.08E-06	1.97E-06	1.74E-07	3.22E-06	8.37E-07	1.09E-06	7.92E-08	2.01E-06
1224	565668.6	4222406	7.72E-06	9.43E-06	4.97E-07	1.77E-05	4.10E-06	1.03E-05	4.97E-07	1.49E-05	1.01E-06	1.84E-06	1.63E-07	3.02E-06	7.85E-07	1.03E-06	7.42E-08	1.89E-06
1225	565678.5	4222406	7.25E-06	8.86E-06	4.67E-07	1.66E-05	3.84E-06	9.71E-06	4.67E-07	1.40E-05	9.52E-07	1.73E-06	1.53E-07	2.84E-06	7.37E-07	9.63E-07	6.97E-08	1.77E-06
1226	565688.3	4222405	6.82E-06	8.33E-06	4.39E-07	1.56E-05	3.62E-06	9.13E-06	4.39E-07	1.32E-05	8.96E-07	1.63E-06	1.44E-07	2.67E-06	6.93E-07	9.06E-07	6.55E-08	1.66E-06
1227	565698.1	4222405	6.42E-06	7.85E-06	4.13E-07	1.47E-05	3.41E-06	8.60E-06	4.13E-07	1.24E-05	8.44E-07	1.53E-06	1.35E-07	2.51E-06	6.53E-07	8.53E-07	6.17E-08	1.57E-06
1228	565717.8	4222405	5.74E-06	7E-06	3.69E-07	1.31E-05	3.04E-06	7.68E-06	3.69E-07	1.11E-05	7.53E-07	1.37E-06	1.21E-07	2.24E-06	5.83E-07	7.62E-07	5.51E-08	1.40E-06
1229	565727.7	4222405	5.43E-06	6.64E-06	3.50E-07	1.24E-05	2.88E-06	7.27E-06	3.50E-07	1.05E-05	7.13E-07	1.30E-06	1.14E-07	2.12E-06	5.52E-07	7.22E-07	5.22E-08	1.33E-06
1230	565737.6	4222400	5.15E-06	6.29E-06	3.32E-07	1.18E-05	2.73E-06	6.90E-06	3.32E-07	9.96E-06	6.77E-07	1.23E-06	1.09E-07	2.01E-06	5.24E-07	6.85E-07	4.95E-08	1.26E-06
1231	565747.4	4222400	4.89E-06	5.97E-06	3.15E-07	1.12E-05	2.59E-06	6.55E-06	3.15E-07	9.46E-06	6.42E-07	1.17E-06	1.03E-07	1.91E-06	4.97E-07	6.50E-07	4.70E-08	1.19E-06
1232	565757.2	4222400	4.65E-06	5.68E-06	2.99E-07	1.06E-05	2.47E-06	6.23E-06	2.99E-07	8.99E-06	6.11E-07	1.11E-06	9.79E-08	1.82E-06	4.73E-07	6.18E-07	4.47E-08	1.13E-06
1233	565767.1	4222400	4.43E-06	5.41E-06	2.85E-07	1.01E-05	2.35E-06	5.93E-06	2.85E-07	8.56E-06	5.81E-07	1.06E-06	9.32E-08	1.73E-06	4.50E-07	5.88E-07	4.25E-08	1.08E-06
1234	565776.9	4222400	4.22E-06	5.15E-06	2.72E-07	9.64E-06	2.24E-06	5.65E-06	2.72E-07	8.16E-06	5.54E-07	1.01E-06	8.88E-08	1.65E-06	4.29E-07	5.60E-07	4.05E-08	1.03E-06
1235	565786.7	4222400	4.02E-06	4.92E-06	2.59E-07	9.20E-06	2.13E-06	5.39E-06	2.59E-07	7.78E-06	5.29E-07	9.60E-07	8.48E-08	1.57E-06	4.09E-07	5.35E-07	3.87E-08	9.82E-07
1236	565796.6	4222400	3.95E-06	4.82E-06	2.54E-07	9.02E-06	2.09E-06	5.28E-06	2.54E-07	7.63E-06	5.18E-07	9.41E-07	8.31E-08	1.54E-06	4.01E-07	5.24E-07	3.79E-08	9.63E-07
1237	565806.4	4222400	3.78E-06	4.61E-06	2.43E-07	8.63E-06	2.00E-06	5.06E-06	2.43E-07	7.30E-06	4.96E-07	9.01E-07	7.95E-08	1.48E-06	3.84E-07	5.02E-07	3.63E-08	9.22E-07
1238	565560.8	4222399	1.88E-05	2.3E-05	1.21E-06	4.31E-05	9.99E-06	2.52E-05	1.21E-06	3.64E-05	2.48E-06	4.50E-06	3.97E-07	7.37E-06	1.92E-06	2.50E-06	1.81E-07	4.60E-06
1239	565570.6	4222400	1.7E-05	2.07E-05	1.09E-06	3.88E-05	9.00E-06	2.27E-05	1.09E-06	3.28E-05	2.23E-06	4.05E-06	3.58E-07	6.64E-06	1.73E-06	2.26E-06	1.63E-07	4.15E-06
1240	565581.1	4222394	1.56E-05	1.9E-05	1.00E-06	3.56E-05	8.25E-06	2.08E-05	1.00E-06	3.01E-05	2.04E-06	3.71E-06	3.28E-07	6.09E-06	1.58E-06	2.07E-06	1.50E-07	3.80E-06
1241	565590.9	4222394	1.42E-05	1.73E-05	9.13E-07	3.24E-05	7.52E-06	1.90E-05	9.13E-07	2.74E-05	1.86E-06	3.38E-06	2.99E-07	5.55E-06	1.44E-06	1.88E-06	1.36E-07	3.46E-06
1242	565620.3	4222397	1.1E-05	1.35E-05	7.10E-07	2.52E-05	5.85E-06	1.48E-05	7.10E-07	2.13E-05	1.45E-06	2.63E-06	2.32E-07	4.31E-06	1.12E-06	1.46E-06	1.06E-07	2.69E-06
1243	565630.1	4222398	1.02E-05	1.25E-05	6.56E-07	2.33E-05	5.40E-06	1.36E-05	6.56E-07	1.97E-05	1.34E-06	2.43E-06	2.15E-07	3.99E-06	1.04E-06	1.35E-06	9.79E-08	2.49E-06
1244	565925.2	4222433	2.38E-06	2.91E-06	1.53E-07	5.44E-06	1.26E-06	3.19E-06	1.53E-07	4.60E-06	3.13E-07	5.68E-07	5.02E-08	9.31E-07	2.42E-07	3.16E-07	2.29E-08	5.81E-07
1245	565561.7	4222389	1.92E-05	2.35E-05	1.24E-06	4.39E-05	1.02E-05	2.57E-05	1.24E-06	3.72E-05	2.52E-06	4.59E-06	4.05E-07	7.51E-06	1.95E-06	2.55E-06	1.85E-07	4.69E-06
1246	565571.5	4222389	1.73E-05	2.11E-05	1.11E-06	3.95E-05	9.17E-06	2.31E-05	1.11E-06	3.34E-05	2.27E-06	4.12E-06	3.64E-07	6.76E-06	1.76E-06	2.30E-06	1.66E-07	4.22E-06
1247	565581.7	4222381	1.58E-05	1.93E-05	1.02E-06	3.61E-05	8.38E-06	2.12E-05	1.02E-06	3.06E-05	2.08E-06	3.77E-06	3.33E-07	6.18E-06	1.61E-06	2.10E-06	1.52E-07	3.86E-06
1248	565591.5	4222381	1.44E-05	1.76E-05	9.25E-07	3.29E-05	7.62E-06	1.92E-05	9.25E-07	2.78E-05	1.89E-06	3.43E-06	3.03E-07	5.62E-06	1.46E-06	1.91E-06	1.38E-07	3.51E-06
1249	565621	4222383	1.11E-05	1.36E-05	7.15E-07	2.54E-05	5.89E-06	1.49E-05	7.15E-07	2.15E-05	1.46E-06	2.65E-06	2.34E-07	4.34E-06	1.13E-06	1.48E-06	1.07E-07	2.71E-06
1250	565630.9	4222383	1.03E-05	1.25E-05	6.60E-07	2.34E-05	5.44E-06	1.37E-05	6.60E-07	1.98E-05	1.35E-06	2.45E-06	2.16E-07	4.01E-06	1.04E-06	1.36E-06	9.86E-08	2.50E-06
1251	565640.4	4222392	9.5E-06	1.16E-05	6.11E-07	2.17E-05	5.04E-06	1.27E-05	6.11E-07	1.84E-05	1.25E-06	2.27E-06	2.00E-07	3.71E-06	9.65E-07	1.26E-06	9.13E-08	2.32E-06
1252	565650.2	4222392	8.84E-06	1.08E-05	5.69E-07	2.02E-05	4.69E-06	1.18E-05	5.69E-07	1.71E-05	1.16E-06	2.11E-06	1.86E-07	3.46E-06	8.99E-07	1.17E-06	8.50E-08	2.16E-06
1253	565659.7	4222397	8.25E-06	1.01E-05	5.31E-07	1.89E-05	4.37E-06	1.10E-05	5.31E-07	1.60E-05	1.08E-06	1.97E-06	1.74E-07	3.23E-06	8.39E-07	1.10E-06	7.93E-08	2.01E-06
1254	565660.3	4222384	8.25E-06	1.01E-05	5.31E-07	1.89E-05	4.38E-06	1.10E-05	5.31E-07	1.60E-05	1.08E-06	1.97E-06	1.74E-07	3.23E-06	8.39E-07	1.10E-06	7.93E-08	2.01E-06
1255	565669.9	4222393	7.72E-06	9.43E-06	4.97E-07	1.77E-05	4.09E-06	1.03E-05	4.97E-07	1.49E-05	1.01E-06	1.84E-06	1.63E-07	3.02E-06	7.85E-07	1.03E-06	7.42E-08	1.88E-06
1256	565679.7	4222393	7.24E-06	8.84E-06	4.66E-07	1.65E-05	3.84E-06	9.69E-06	4.66E-07	1.40E-05	9.51E-07	1.73E-06	1.52E-07	2.83E-06	7.36E-07	9.62E-07	6.96E-08	1.77E-06
1257	565689.5	4222394	6.8E-06	8.31E-06	4.38E-07	1.55E-05	3.61E-06	9.10E-06	4.38E-07	1.31E-05	8.93E-07	1.62E-06	1.43E-07	2.66E-06	6.91E-07	9.03E-07	6.53E-08	1.66E-06
1258	565699.3	4222394	6.4E-06	7.82E-06	4.12E-07	1.46E-05	3.39E-06	8.57E-06	4.12E-07	1.24E-05	8.40E-07	1.53E-06	1.35E-07	2.50E-06	6.50E-07	8.50E-07	6.15E-08	1.56E-06
1259	565709.2	4222394	6.04E-06	7.37E-06	3.89E-07	1.38E-05	3.20E-06	8.08E-06	3.89E-07	1.17E-05	7.93E-07	1.44E-06	1.27E-07	2.36E-06	6.13E-07	8.02E-07	5.80E-08	1.47E-06
1260	565728.8	4222395	5.4E-06	6.6E-06	3.48E-07	1.23E-05	2.86E-06	7.23E-06	3.48E-07	1.04E-05	7.10E-07	1.29E-06	1.14E-07	2.11E-06	5.49E-07	7.18E-07	5.19E-08	1.32E-06
1261	565739	4222387	5.1E-06	6.23E-06	3.28E-07	1.17E-05	2.71E-06	6.83E-06	3.28E-07	9.87E-06	6.70E-07	1.22E-06	1.07E-07	2.00E-06	5.19E-07	6.78E-07	4.90E-08	1.25E-06
1262	565748.8	4222388	4.84E-06	5.92E-06	3.12E-07	1.11E-05	2.57E-06	6.48E-06	3.12E-07	9.36E-06	6.36E-07	1.16E-06	1.02E-07	1.89E-06	4.92E-07	6.43E-07	4.65E-08	1.18E-06
1263	565758.7	4222388	4.6E-06	5.62E-06	2.96E-07	1.05E-05	2.44E-06	6.16E-06	2.96E-07	8.90E-06	6.05E-07	1.10E-06	9.69E-08	1.80E-06	4.68E-07	6.12E-07	4.42E-08	1.12E-06
1264	565768.5	4222388	4.38E-06	5.35E-06	2.82E-07	1.00E-05	2.32E-06	5.87E-06	2.82E-07	8.47E-06	5.75E-07	1.05E-06	9.23E-08	1.71E-06	4.45E-07	5.82E-07	4.21E-08	1.07E-06
1265	565778.3	4222389	4.18E-06	5.1E-06	2.69E-07	9.54E-06	2.21E-06	5.59E-06	2.69E-07	8.07E-06	5.48E-07	9.96E-07	8.79E-08	1.63E-06	4.24E-07	5.55E-07	4.01E-08	1.02E-06
1266	565788.2	4222389	3.99E-06	4.87E-06	2.57E-07	9.11E-06	2.11E-06	5.34E-06	2.57E-07	7.71E-06	5.23E-07	9.51E-07	8.39E-08	1.56E-06	4.05E-07	5.29E-07	3.83E-08	9.73E-07
1267	565798	4222390	3.91E-06	4.77E-06	2.51E-07	8.93E-06	2.07E-06	5.23E-06	2.51E-07	7.55E-06	5.13E-07	9.32E-07	8.23E-08	1.53E-06	3.97E-07	5.19E-07	3.75E-08	9.53E-07
1268	565807.8	4222390	3.74E-06	4.57E-06	2.41E-07	8.54E-06	1.98E-06	5.00E-06	2.41E-07	7.23E-06	4.91E-07	8.92E-07	7.87E-08	1.46E-06	3.80E-07	4.97E-07	3.59E-08	9.12E-07
1269	565847.8	4222392	3.16E-06	3.85E-06	2.03E-07	7.21E-06	1.67E-06	4.23E-06	2.03E-07	6.10E-06	4.15E-07	7.53E-07	6.65E-08	1.23E-06	3.21E-07	4.19E-07	3.03E-08	7.70E-07
1270	565867.8	4222392	2.91E-06	3.56E-06	1.88E-07	6.66E-06	1.55E-06	3.90E-06	1.88E-07	5.63E-06	3.83E-07	6.95E-07	6.14E-08	1.14E-06	2.96E-07	3.87E-07	2.80E-08	7.11E-07
1271	565887.7	4222393	2.7E-06	3.3E-06	1.74E-07	6.17E-06	1.43E-06	3.62E-06	1.74E-07	5.22E-06	3.55E-07	6.44E-07	5.69E-08	1.06E-06	2.74E-07	3.59E-07	2.59E-08	6.59E-07
1272	565907.7	4222394	2.52E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.86E-06	3.30E-07	6.00E-07	5.30E-08	9.84E-07	2.56E-07	3.34E-07	2.42E-08	6.14E-07
1273	565927.7	4222395	2.35E-06	2.87E-06	1.51E-07	5.38E-06	1.25E-06	3.15E-06	1.51E-07	4.55E-06	3.09E-07	5.61E-07	4.95E-08	9.19E-07	2.39E-07	3.12E-07	2.26E-08	5.74E-07
1274	565562.1	4222378	1.96E-05	2.39E-05	1.26E-06	4.47E-05	1.04E-05	2.62E-05	1.26E-06	3.78E-05	2.57E-06	4.67E-06	4.12E-07	7.65E-06	1.99E-06	2.60E-06	1.88E-07	4.78E-06
1275	565562	4222368	1.98E-05	2.42E-05	1.28E-06	4.53E-05	1.05E-05	2.65E-05	1.28E-06	3.83E-05	2.60E-06	4.73E-06	4.17E-07	7.75E-06	2.01E-06	2.63E-06	1.90E-07	4.84E-06
1276	565562	4222358	1.99E-05	2.43E-05	1.28E-06	4.55E-05	1.06E-05	2.67E-05	1.28E-06	3.85E-05	2.62E-06	4.75E-06	4.20E-07	7.79E-06	2.02E-06	2.65E-06	1.91E-07	4.86E-06
1277	565562	4222348	1.99E-05	2.43E-05	1.28E-06	4.54E-05	1.05E-05	2.66E-05	1.28E-06	3.84E-05	2.61E-06	4.74E-06	4.19E-07	7.77E-06	2.02E-06	2.64E-06	1.91E-07	4.85E-06
1278	565561.9	4222338	1.97E-05	2.41E-05	1.27E-06	4.50E-05	1.04E-05	2.64E-05	1.27E-06	3.81E-05	2.59E-06	4.70E-06	4.15E-07	7.70E-06	2.00E-06	2.62E-06	1.89E-07	4.81E-06
1279	565561.9	4222328	1.94E-05	2.37E-05	1.25E-06	4.43E-05	1.03E-05	2.59E-05	1.25E-06	3.74E-05	2.54E-06	4.62E-06	4.08E-07	7.57E-06	1.97E-06	2.57E-06	1.86E-07	4.73E-06
1280	565561.8	4222318	1.89E-05	2.31E-05	1.22E-06	4.32E-05	1.00E-05	2.53E-05	1.22E-06	3.65E-05	2.48E-06	4.51E-06	3.98E-07	7.39E-06	1.92E-06	2.51E-06	1.82E-07	4.61E-06
1281	565571.9	4222378	1.76E-05	2.14E-05	1.13E-06	4.01E-05	9.31E-06	2.35E-05	1.13E-06	3.40E-05	2.31E-06	4.19E-06	3.70E-07	6.87E-06	1.78E-06	2.33E-06	1.69E-07	4.29E-06
1282	565571.9	4222368	1.77E-05	2.17E-05	1.14E-06	4.05E-05	9.40E-06	2.37E-05	1.14E-06	3.43E-05	2.33E-06	4.23E-06	3.74E-07	6.93E-06	1.80E-06	2.36E-06	1.70E-07	4.33E-06
1283	565571.8	4222358	1.78E-05	2.17E-05	1.15E-06	4.07E-05	9.43E-06	2.38E-05	1.15E-06	3.44E-05	2.34E-06	4.24E-06	3.75E-07	6.96E-06	1.81E-06	2.36E-06	1.71E-07	4.34E-06
1284	565571.8	4222348	1.77E-05	2.16E-05	1.14E-06	4.05E-05	9.40E-06	2.37E-05	1.14E-06	3.43E-05	2.33E-06	4.23E-06	3.73E-07	6.93E-06	1.80E-06	2.35E-06	1.70E-07	4.33E-06
1285	565571.8	4222338	1.75E-05	2.14E-05	1.13E-06	4.01E-05	9.30E-06	2.35E-05	1.13E-06	3.39E-05	2.30E-06	4.18E-06	3.69E-07	6.85E-06	1.78E-06	2.33E-06	1.68E-07	4.28E-06
1286	565571.7	4222328	1.72E-05	2.1E-05	1.11E-06	3.94E-05	9.13E-06	2.31E-05	1.11E-06	3.33E-05	2.26E-06	4.11E-06	3.63E-07	6.73E-06	1.75E-06	2.29E-06	1.65E-07	4.20E-06
1287	565571.7	4222318	1.68E-05	2.05E-05	1.08E-06	3.84E-05	8.90E-06	2.25E-05	1.08E-06	3.24E-05	2.20E-06	4.00E-06	3.53E-07	6.56E-06	1.71E-06	2.23E-06	1.61E-07	4.10E-06
1288	565571.6	4222308	1.62E-05	1.98E-05	1.04E-06	3.71E-05	8.61E-06	2.17E-05	1.04E-06	3.14E-05	2.13E-06	3.87E-06	3.42E-07	6.35E-06	1.65E-06	2.16E-06	1.56E-07	3.96E-06
1289	565571.6	4222299	1.56E-05	1.9E-05	1.00E-06	3.56E-05	8.25E-06	2.08E-05	1.00E-06	3.01E-05	2.04E-06	3.71E-06	3.28E-07	6.09E-06	1.58E-06	2.07E-06	1.50E-07	3.80E-06
1290	565581.7	4222368	1.6E-05	1.95E-05	1.03E-06	3.65E-05	8.48E-06	2.14E-05	1.03E-06	3.09E-05	2.10E-06	3.81E-06	3.37E-07	6.25E-06	1.62E-06	2.12E-06	1.54E-07	3.90E-06
1291	565581.7	4222358	1.6E-05	1.96E-05	1.03E-06	3.66E-05	8.49E-06	2.14E-05	1.03E-06	3.09E-05	2.10E-06	3.82E-06	3.37E-07	6.26E-06	1.63E-06	2.13E-06	1.54E-07	3.91E-06
1292	565581.6	4222348	1.59E-05	1.94E-05	1.02E-06	3.64E-05	8.44E-06	2.13E-05	1.02E-06	3.08E-05	2.09E-06	3.80E-06	3.35E-07	6.22E-06	1.62E-06	2.11E-06	1.53E-07	3.89E-06
1293	565581.6	4222338	1.57E-05	1.92E-05	1.01E-06	3.60E-05	8.34E-06	2.11E-05	1.01E-06	3.04E-05	2.07E-06	3.75E-06	3.31E-07	6.15E-06	1.60E-06	2.09E-06	1.51E-07	3.84E-06
1294	565581.6	4222328	1.54E-05	1.88E-05	9.93E-07	3.53E-05	8.18E-06	2.07E-05	9.93E-07	2.98E-05	2.03E-06	3.68E-06	3.25E-07	6.03E-06	1.57E-06	2.05E-06	1.48E-07	3.77E-06
1295	565581.5	4222318	1.5E-05	1.84E-05	9.68E-07	3.44E-05	7.97E-06	2.01E-05	9.68E-07	2.91E-05	1.97E-06	3.59E-06	3.17E-07	5.88E-06	1.53E-06	2.00E-06	1.44E-07	3.67E-06
1296	565581.5	4222308	1.45E-05	1.78E-05	9.36E-07	3.32E-05	7.71E-06	1.95E-05	9.36E-07	2.81E-05	1.91E-06	3.47E-06	3.06E-07	5.68E-06	1.48E-06	1.93E-06	1.40E-07	3.55E-06
1297	565581.4	4222298	1.4E-05	1.7E-05	8.98E-07	3.19E-05	7.40E-06	1.87E-05	8.98E-07	2.70E-05	1.83E-06	3.33E-06	2.94E-07	5.45E-06	1.42E-06	1.85E-06	1.34E-07	3.41E-06
1298	565591.6	4222368	1.45E-05	1.77E-05	9.33E-07	3.31E-05	7.69E-06	1.94E-05	9.33E-07	2.80E-05	1.90E-06	3.46E-06	3.05E-07	5.67E-06	1.47E-06	1.93E-06	1.39E-07	3.54E-06
1299	565591.5	4222358	1.45E-05	1.77E-05	9.33E-07	3.31E-05	7.68E-06	1.94E-05	9.33E-07	2.80E-05	1.90E-06	3.46E-06	3.05E-07	5.67E-06	1.47E-06	1.93E-06	1.39E-07	3.54E-06
1300	565591.5	4222348	1.44E-05	1.76E-05	9.26E-07	3.29E-05	7.63E-06	1.93E-05	9.26E-07	2.78E-05	1.89E-06	3.43E-06	3.03E-07	5.63E-06	1.46E-06	1.91E-06	1.38E-07	3.51E-06
1301	565591.4	4222338	1.42E-05	1.73E-05	9.14E-07	3.25E-05	7.53E-06	1.90E-05	9.14E-07	2.75E-05	1.87E-06	3.39E-06	2.99E-07	5.55E-06	1.44E-06	1.89E-06	1.36E-07	3.47E-06
1302	565591.4	4222328	1.39E-05	1.7E-05	8.97E-07	3.18E-05	7.39E-06	1.86E-05	8.97E-07	2.69E-05	1.83E-06	3.32E-06	2.93E-07	5.45E-06	1.42E-06	1.85E-06	1.34E-07	3.40E-06
1303	565591.4	4222318	1.36E-05	1.66E-05	8.73E-07	3.10E-05	7.19E-06	1.82E-05	8.73E-07	2.62E-05	1.78E-06	3.24E-06	2.86E-07	5.31E-06	1.38E-06	1.80E-06	1.30E-07	3.31E-06
1304	565591.3	4222308	1.31E-05	1.6E-05	8.45E-07	3.00E-05	6.96E-06	1.76E-05	8.45E-07	2.54E-05	1.72E-06	3.13E-06	2.77E-07	5.13E-06	1.33E-06	1.74E-06	1.26E-07	3.21E-06
1305	565591.3	4222298	1.26E-05	1.54E-05	8.12E-07	2

1318	565630.9	4222358	1.02E-05	1.25E-05	6.57E-07	2.33E-05	5.41E-06	1.37E-05	6.57E-07	1.97E-05	1.34E-06	2.44E-06	2.15E-07	3.99E-06	1.04E-06	1.36E-06	9.81E-08	2.49E-06
1319	565630.8	4222338	9.95E-06	1.22E-05	6.40E-07	2.27E-05	5.28E-06	1.33E-05	6.40E-07	1.92E-05	1.31E-06	2.37E-06	2.10E-07	3.89E-06	1.01E-06	1.32E-06	9.56E-08	2.43E-06
1320	565630.8	4222328	9.75E-06	1.19E-05	6.28E-07	2.23E-05	5.17E-06	1.31E-05	6.28E-07	1.89E-05	1.28E-06	2.33E-06	2.05E-07	3.81E-06	9.91E-07	1.30E-06	9.37E-08	2.38E-06
1321	565630.7	4222318	9.51E-06	1.16E-05	6.12E-07	2.17E-05	5.04E-06	1.27E-05	6.12E-07	1.84E-05	1.25E-06	2.27E-06	2.00E-07	3.72E-06	9.67E-07	1.26E-06	9.14E-08	2.32E-06
1322	565630.7	4222308	9.23E-06	1.13E-05	5.94E-07	2.11E-05	4.89E-06	1.24E-05	5.94E-07	1.79E-05	1.21E-06	2.20E-06	1.94E-07	3.61E-06	9.38E-07	1.23E-06	8.87E-08	2.25E-06
1323	565630.6	4222298	8.92E-06	1.09E-05	5.74E-07	2.04E-05	4.73E-06	1.19E-05	5.74E-07	1.73E-05	1.17E-06	2.13E-06	1.88E-07	3.49E-06	9.07E-07	1.19E-06	8.57E-08	2.18E-06
1324	565640.8	4222377	9.52E-06	1.16E-05	6.13E-07	2.18E-05	5.05E-06	1.27E-05	6.13E-07	1.84E-05	1.25E-06	2.27E-06	2.00E-07	3.72E-06	9.67E-07	1.26E-06	9.15E-08	2.32E-06
1325	565640.8	4222367	9.51E-06	1.16E-05	6.12E-07	2.17E-05	5.04E-06	1.27E-05	6.12E-07	1.84E-05	1.25E-06	2.27E-06	2.00E-07	3.72E-06	9.66E-07	1.26E-06	9.13E-08	2.32E-06
1326	565640.6	4222338	9.2E-06	1.12E-05	5.92E-07	2.10E-05	4.88E-06	1.23E-05	5.92E-07	1.78E-05	1.21E-06	2.19E-06	1.94E-07	3.60E-06	9.35E-07	1.22E-06	8.84E-08	2.25E-06
1327	565640.6	4222328	9.02E-06	1.1E-05	5.80E-07	2.06E-05	4.78E-06	1.21E-05	5.80E-07	1.74E-05	1.18E-06	2.15E-06	1.90E-07	3.53E-06	9.16E-07	1.20E-06	8.66E-08	2.20E-06
1328	565640.5	4222318	8.8E-06	1.07E-05	5.66E-07	2.01E-05	4.67E-06	1.18E-05	5.66E-07	1.70E-05	1.16E-06	2.10E-06	1.85E-07	3.44E-06	8.94E-07	1.17E-06	8.46E-08	2.15E-06
1329	565640.5	4222308	8.55E-06	1.04E-05	5.50E-07	1.95E-05	4.53E-06	1.15E-05	5.50E-07	1.65E-05	1.12E-06	2.04E-06	1.80E-07	3.34E-06	8.69E-07	1.14E-06	8.22E-08	2.09E-06
1330	565640.5	4222298	8.28E-06	1.01E-05	5.33E-07	1.89E-05	4.39E-06	1.11E-05	5.33E-07	1.60E-05	1.09E-06	1.97E-06	1.74E-07	3.24E-06	8.41E-07	1.10E-06	7.95E-08	2.02E-06
1331	565650.6	4222377	8.85E-06	1.08E-05	5.69E-07	2.02E-05	4.69E-06	1.18E-05	5.69E-07	1.71E-05	1.16E-06	2.11E-06	1.86E-07	3.46E-06	8.99E-07	1.18E-06	8.50E-08	2.16E-06
1332	565650.6	4222367	8.82E-06	1.08E-05	5.68E-07	2.02E-05	4.68E-06	1.18E-05	5.68E-07	1.71E-05	1.16E-06	2.11E-06	1.86E-07	3.45E-06	8.97E-07	1.17E-06	8.48E-08	2.15E-06
1333	565650.4	4222328	8.37E-06	1.02E-05	5.38E-07	1.91E-05	4.44E-06	1.12E-05	5.38E-07	1.62E-05	1.10E-06	2.00E-06	1.76E-07	3.27E-06	8.50E-07	1.11E-06	8.04E-08	2.04E-06
1334	565650.4	4222318	8.17E-06	9.98E-06	5.26E-07	1.87E-05	4.33E-06	1.09E-05	5.26E-07	1.58E-05	1.07E-06	1.95E-06	1.72E-07	3.19E-06	8.30E-07	1.09E-06	7.85E-08	1.99E-06
1335	565650.3	4222308	7.95E-06	9.71E-06	5.12E-07	1.82E-05	4.22E-06	1.06E-05	5.12E-07	1.54E-05	1.04E-06	1.90E-06	1.67E-07	3.11E-06	8.08E-07	1.06E-06	7.64E-08	1.94E-06
1336	565650.3	4222298	7.71E-06	9.41E-06	4.96E-07	1.76E-05	4.09E-06	1.03E-05	4.96E-07	1.49E-05	1.01E-06	1.84E-06	1.62E-07	3.01E-06	7.83E-07	1.02E-06	7.40E-08	1.88E-06
1337	565660.4	4222367	8.21E-06	1E-05	5.29E-07	1.88E-05	4.35E-06	1.10E-05	5.29E-07	1.59E-05	1.08E-06	1.96E-06	1.73E-07	3.21E-06	8.35E-07	1.09E-06	7.89E-08	2.00E-06
1338	565660.3	4222338	7.93E-06	9.69E-06	5.11E-07	1.81E-05	4.21E-06	1.06E-05	5.11E-07	1.53E-05	1.04E-06	1.89E-06	1.67E-07	3.10E-06	8.06E-07	1.05E-06	7.62E-08	1.94E-06
1339	565660.3	4222328	7.78E-06	9.51E-06	5.01E-07	1.78E-05	4.13E-06	1.04E-05	5.01E-07	1.51E-05	1.02E-06	1.86E-06	1.64E-07	3.04E-06	7.91E-07	1.03E-06	7.48E-08	1.90E-06
1340	565660.2	4222318	7.61E-06	9.3E-06	4.90E-07	1.74E-05	4.04E-06	1.02E-05	4.90E-07	1.47E-05	1.00E-06	1.82E-06	1.60E-07	2.98E-06	7.74E-07	1.01E-06	7.31E-08	1.86E-06
1341	565660.2	4222308	7.42E-06	9.06E-06	4.77E-07	1.70E-05	3.93E-06	9.93E-06	4.77E-07	1.43E-05	9.74E-07	1.77E-06	1.56E-07	2.90E-06	7.54E-07	9.85E-07	7.13E-08	1.81E-06
1342	565660.1	4222298	7.2E-06	8.79E-06	4.63E-07	1.65E-05	3.82E-06	9.64E-06	4.63E-07	1.39E-05	9.45E-07	1.72E-06	1.52E-07	2.81E-06	7.32E-07	9.56E-07	6.92E-08	1.76E-06
1343	565670.3	4222377	7.7E-06	9.4E-06	4.96E-07	1.76E-05	4.08E-06	1.03E-05	4.96E-07	1.49E-05	1.01E-06	1.84E-06	1.62E-07	3.01E-06	7.82E-07	1.02E-06	7.40E-08	1.88E-06
1344	565670.3	4222367	7.66E-06	9.36E-06	4.93E-07	1.75E-05	4.06E-06	1.03E-05	4.93E-07	1.48E-05	1.01E-06	1.83E-06	1.61E-07	3.00E-06	7.79E-07	1.02E-06	7.36E-08	1.87E-06
1345	565670.2	4222357	7.6E-06	9.29E-06	4.89E-07	1.74E-05	4.03E-06	1.02E-05	4.89E-07	1.47E-05	9.98E-07	1.81E-06	1.60E-07	2.97E-06	7.73E-07	1.01E-06	7.31E-08	1.86E-06
1346	565670.2	4222348	7.51E-06	9.18E-06	4.84E-07	1.72E-05	3.98E-06	1.01E-05	4.84E-07	1.45E-05	9.87E-07	1.79E-06	1.58E-07	2.94E-06	7.64E-07	9.98E-07	7.22E-08	1.83E-06
1347	565670.1	4222338	7.4E-06	9.04E-06	4.76E-07	1.69E-05	3.92E-06	9.91E-06	4.76E-07	1.43E-05	9.72E-07	1.77E-06	1.56E-07	2.89E-06	7.52E-07	9.83E-07	7.11E-08	1.81E-06
1348	565670.1	4222328	7.27E-06	8.87E-06	4.68E-07	1.66E-05	3.85E-06	9.73E-06	4.68E-07	1.40E-05	9.54E-07	1.73E-06	1.53E-07	2.84E-06	7.38E-07	9.65E-07	6.98E-08	1.77E-06
1349	565670.1	4222318	7.11E-06	8.69E-06	4.58E-07	1.63E-05	3.77E-06	9.52E-06	4.58E-07	1.38E-05	9.34E-07	1.70E-06	1.50E-07	2.78E-06	7.23E-07	9.45E-07	6.83E-08	1.74E-06
1350	565670	4222308	6.94E-06	8.47E-06	4.47E-07	1.59E-05	3.68E-06	9.29E-06	4.47E-07	1.34E-05	9.11E-07	1.66E-06	1.46E-07	2.71E-06	7.05E-07	9.22E-07	6.67E-08	1.69E-06
1351	565670	4222298	6.74E-06	8.24E-06	4.34E-07	1.54E-05	3.58E-06	9.03E-06	4.34E-07	1.30E-05	8.86E-07	1.61E-06	1.42E-07	2.64E-06	6.85E-07	8.96E-07	6.48E-08	1.65E-06
1352	565680.2	4222377	7.21E-06	8.81E-06	4.64E-07	1.65E-05	3.82E-06	9.65E-06	4.64E-07	1.39E-05	9.47E-07	1.72E-06	1.52E-07	2.82E-06	7.33E-07	9.58E-07	6.93E-08	1.76E-06
1353	565680.1	4222367	7.17E-06	8.76E-06	4.62E-07	1.64E-05	3.80E-06	9.61E-06	4.62E-07	1.39E-05	9.42E-07	1.71E-06	1.51E-07	2.81E-06	7.29E-07	9.53E-07	6.89E-08	1.75E-06
1354	565680.1	4222357	7.11E-06	8.69E-06	4.58E-07	1.63E-05	3.77E-06	9.53E-06	4.58E-07	1.38E-05	9.34E-07	1.70E-06	1.50E-07	2.78E-06	7.23E-07	9.45E-07	6.84E-08	1.74E-06
1355	565680	4222348	7.03E-06	8.59E-06	4.53E-07	1.61E-05	3.73E-06	9.41E-06	4.53E-07	1.36E-05	9.23E-07	1.68E-06	1.48E-07	2.75E-06	7.14E-07	9.34E-07	6.75E-08	1.72E-06
1356	565680	4222338	6.92E-06	8.46E-06	4.46E-07	1.58E-05	3.67E-06	9.27E-06	4.46E-07	1.34E-05	9.09E-07	1.65E-06	1.46E-07	2.71E-06	7.04E-07	9.20E-07	6.65E-08	1.69E-06
1357	565679.9	4222328	6.8E-06	8.31E-06	4.38E-07	1.55E-05	3.61E-06	9.11E-06	4.38E-07	1.32E-05	8.93E-07	1.62E-06	1.43E-07	2.66E-06	6.91E-07	9.04E-07	6.54E-08	1.66E-06
1358	565679.9	4222318	6.66E-06	8.14E-06	4.29E-07	1.52E-05	3.53E-06	8.92E-06	4.29E-07	1.29E-05	8.75E-07	1.59E-06	1.40E-07	2.61E-06	6.77E-07	8.85E-07	6.40E-08	1.63E-06
1359	565679.9	4222308	6.51E-06	7.95E-06	4.19E-07	1.49E-05	3.45E-06	8.71E-06	4.19E-07	1.26E-05	8.54E-07	1.55E-06	1.37E-07	2.54E-06	6.61E-07	8.64E-07	6.25E-08	1.59E-06
1360	565679.8	4222298	6.33E-06	7.73E-06	4.07E-07	1.45E-05	3.36E-06	8.48E-06	4.07E-07	1.22E-05	8.31E-07	1.51E-06	1.33E-07	2.48E-06	6.43E-07	8.41E-07	6.08E-08	1.55E-06
1361	565690	4222377	6.77E-06	8.27E-06	4.36E-07	1.55E-05	3.59E-06	9.06E-06	4.36E-07	1.31E-05	8.89E-07	1.61E-06	1.43E-07	2.65E-06	6.88E-07	8.99E-07	6.50E-08	1.65E-06
1362	565689.9	4222367	6.73E-06	8.22E-06	4.33E-07	1.54E-05	3.57E-06	9.02E-06	4.33E-07	1.30E-05	8.84E-07	1.61E-06	1.42E-07	2.63E-06	6.84E-07	8.94E-07	6.47E-08	1.64E-06
1363	565689.9	4222357	6.68E-06	8.15E-06	4.30E-07	1.53E-05	3.54E-06	8.94E-06	4.30E-07	1.29E-05	8.77E-07	1.59E-06	1.41E-07	2.61E-06	6.78E-07	8.87E-07	6.41E-08	1.63E-06
1364	565689.9	4222347	6.6E-06	8.06E-06	4.25E-07	1.51E-05	3.50E-06	8.83E-06	4.25E-07	1.28E-05	8.66E-07	1.57E-06	1.39E-07	2.58E-06	6.70E-07	8.76E-07	6.34E-08	1.61E-06
1365	565689.8	4222338	6.5E-06	7.94E-06	4.18E-07	1.49E-05	3.45E-06	8.70E-06	4.18E-07	1.26E-05	8.54E-07	1.55E-06	1.37E-07	2.54E-06	6.60E-07	8.63E-07	6.24E-08	1.59E-06
1366	565689.8	4222328	6.39E-06	7.8E-06	4.11E-07	1.46E-05	3.39E-06	8.55E-06	4.11E-07	1.23E-05	8.39E-07	1.52E-06	1.34E-07	2.50E-06	6.49E-07	8.48E-07	6.14E-08	1.56E-06
1367	565689.7	4222318	6.26E-06	7.64E-06	4.03E-07	1.43E-05	3.32E-06	8.38E-06	4.03E-07	1.21E-05	8.22E-07	1.49E-06	1.32E-07	2.45E-06	6.36E-07	8.31E-07	6.01E-08	1.53E-06
1368	565689.7	4222308	6.11E-06	7.47E-06	3.94E-07	1.40E-05	3.24E-06	8.19E-06	3.94E-07	1.18E-05	8.03E-07	1.46E-06	1.29E-07	2.39E-06	6.21E-07	8.12E-07	5.87E-08	1.49E-06
1369	565689.7	4222298	5.96E-06	7.27E-06	3.83E-07	1.36E-05	3.16E-06	7.98E-06	3.83E-07	1.15E-05	7.82E-07	1.42E-06	1.25E-07	2.33E-06	6.05E-07	7.91E-07	5.72E-08	1.45E-06
1370	565699.8	4222377	6.37E-06	7.78E-06	4.10E-07	1.46E-05	3.38E-06	8.52E-06	4.10E-07	1.23E-05	8.36E-07	1.52E-06	1.34E-07	2.49E-06	6.47E-07	8.46E-07	6.12E-08	1.55E-06
1371	565699.8	4222367	6.33E-06	7.73E-06	4.08E-07	1.45E-05	3.36E-06	8.48E-06	4.08E-07	1.22E-05	8.32E-07	1.51E-06	1.33E-07	2.48E-06	6.44E-07	8.41E-07	6.08E-08	1.55E-06
1372	565699.7	4222357	6.28E-06	7.67E-06	4.04E-07	1.43E-05	3.33E-06	8.41E-06	4.04E-07	1.21E-05	8.24E-07	1.50E-06	1.32E-07	2.45E-06	6.38E-07	8.34E-07	6.03E-08	1.53E-06
1373	565699.7	4222347	6.2E-06	7.58E-06	3.99E-07	1.42E-05	3.29E-06	8.31E-06	3.99E-07	1.20E-05	8.15E-07	1.48E-06	1.31E-07	2.43E-06	6.30E-07	8.24E-07	5.96E-08	1.51E-06
1374	565699.7	4222338	6.11E-06	7.47E-06	3.94E-07	1.40E-05	3.24E-06	8.19E-06	3.94E-07	1.18E-05	8.03E-07	1.46E-06	1.29E-07	2.39E-06	6.21E-07	8.12E-07	5.87E-08	1.49E-06
1375	565699.6	4222328	6.01E-06	7.34E-06	3.87E-07	1.37E-05	3.19E-06	8.05E-06	3.87E-07	1.16E-05	7.89E-07	1.43E-06	1.27E-07	2.35E-06	6.11E-07	7.98E-07	5.77E-08	1.47E-06
1376	565699.6	4222318	5.89E-06	7.2E-06	3.79E-07	1.35E-05	3.12E-06	7.89E-06	3.79E-07	1.14E-05	7.74E-07	1.41E-06	1.24E-07	2.30E-06	5.99E-07	7.83E-07	5.66E-08	1.44E-06
1377	565699.5	4222308	5.76E-06	7.03E-06	3.71E-07	1.32E-05	3.05E-06	7.71E-06	3.71E-07	1.11E-05	7.56E-07	1.37E-06	1.21E-07	2.25E-06	5.85E-07	7.65E-07	5.53E-08	1.41E-06
1378	565699.5	4222298	5.62E-06	6.86E-06	3.62E-07	1.28E-05	2.98E-06	7.52E-06	3.62E-07	1.09E-05	7.38E-07	1.34E-06	1.18E-07	2.20E-06	5.71E-07	7.46E-07	5.40E-08	1.37E-06
1379	565709.7	4222377	6E-06	7.33E-06	3.86E-07	1.37E-05	3.18E-06	8.03E-06	3.86E-07	1.16E-05	7.88E-07	1.43E-06	1.26E-07	2.35E-06	6.10E-07	7.97E-07	5.76E-08	1.46E-06
1380	565709.6	4222367	5.97E-06	7.29E-06	3.84E-07	1.36E-05	3.16E-06	7.99E-06	3.84E-07	1.15E-05	7.83E-07	1.42E-06	1.26E-07	2.33E-06	6.06E-07	7.93E-07	5.73E-08	1.46E-06
1381	565709.6	4222357	5.91E-06	7.22E-06	3.81E-07	1.35E-05	3.14E-06	7.92E-06	3.81E-07	1.14E-05	7.77E-07	1.41E-06	1.25E-07	2.31E-06	6.01E-07	7.86E-07	5.68E-08	1.44E-06
1382	565709.5	4222347	5.84E-06	7.14E-06	3.76E-07	1.34E-05	3.10E-06	7.83E-06	3.76E-07	1.13E-05	7.68E-07	1.39E-06	1.23E-07	2.29E-06	5.94E-07	7.76E-07	5.62E-08	1.43E-06
1383	565709.5	4222337	5.76E-06	7.04E-06	3.71E-07	1.32E-05	3.05E-06	7.71E-06	3.71E-07	1.11E-05	7.57E-07	1.37E-06	1.21E-07	2.25E-06	5.86E-07	7.65E-07	5.54E-08	1.41E-06
1384	565709.5	4222328	5.67E-06	6.92E-06	3.65E-07	1.30E-05	3.00E-06	7.59E-06	3.65E-07	1.10E-05	7.44E-07	1.35E-06	1.19E-07	2.22E-06	5.76E-07	7.53E-07	5.44E-08	1.38E-06
1385	565709.4	4222318	5.56E-06	6.79E-06	3.58E-07	1.27E-05	2.95E-06	7.44E-06	3.58E-07	1.07E-05	7.30E-07	1.33E-06	1.17E-07	2.17E-06	5.65E-07	7.38E-07	5.34E-08	1.36E-06
1386	565709.4	4222308	5.44E-06	6.64E-06	3.50E-07	1.24E-05	2.88E-06	7.28E-06	3.50E-07	1.05E-05	7.14E-07	1.30E-06	1.15E-07	2.13E-06	5.53E-07	7.22E-07	5.22E-08	1.33E-06
1387	565719.5	4222377	5.66E-06	6.92E-06	3.65E-07	1.29E-05	3.00E-06	7.58E-06	3.65E-07	1.10E-05	7.44E-07	1.35E-06	1.19E-07	2.21E-06	5.76E-07	7.52E-07	5.44E-08	1.38E-06
1388	565719.5	4222367	5.63E-06	6.88E-06	3.62E-07	1.29E-05	2.98E-06	7.54E-06	3.62E-07	1.09E-05	7.39E-07	1.34E-06	1.19E-07	2.20E-06	5.72E-07	7.48E-07	5.41E-08	1.37E-06
1389	565719.4	4222357	5.58E-06	6.81E-06	3.59E-07	1.28E-05	2.96E-06	7.47E-06	3.59E-07	1.08E-05	7.33E-07	1.33E-06	1.18E-07	2.18E-06	5.67E-07	7.41E-07	5.36E-08	1.36E-06
1390	565719.4	4222347	5.52E-06	6.74E-06	3.55E-07	1.26E-05	2.92E-06	7.38E-06	3.55E-07	1.07E-05	7.24E-07	1.32E-06	1.16E-07	2.16E-06	5.61E-07	7.33E-07	5.30E-08	1.35E-06
1391	565719.3	4222337	5.44E-06	6.64E-06	3.50E-07	1.24E-05	2.88E-06	7.28E-06	3.50E-07	1.05E-05	7.14E-07	1.30E-06	1.15E-07	2.13E-06	5.53E-07	7.23E-07	5.23E-08	1.33E-06
1392	565719.3	4222328	5.35E-06	6.54E-06	3.44E-07	1.22E-05	2.84E-06	7.16E-06	3.44E-07	1.03E-05	7.03E-07	1.28E-06	1.13E-07	2.09E-06	5.44E-07	7.11E-07	5.14E-08	1.31E-06
1393	565719.3	4222318	5.25E-06	6.41E-06	3.38E-07	1.20E-05	2.78E-06	7.03E-06	3.38E-07	1.02E-05	6.90E-07	1.25E-06	1.11E-07	2.05E-06	5.34E-07	6.98E-07	5.05E-08	1.28E-06
1394	565729.3	4222367	5.32E-06	6.5E-06	3.43E-07	1.22E-05	2.82E-06	7.13E-06	3.43E-07	1.03E-05	6.99E-07	1.27E-06	1.12E-07	2.08E-06	5.41E-07	7.07E-07	5.11E-08	1.30E-06
1395	565729.3	4222357	5.27E-06	6.44E-06	3.39E-07	1.21E-05	2.80E-06	7.06E-06	3.39E-07	1.02E-05	6.93E-07	1.26E-06	1.11E-07	2.06E-06	5.36E-07	7.01E-07	5.07E-08	1.29E-06
1396	565729.2	4222347	5.22E-06	6.37E-06	3.36E-07	1.19E-05	2.77E-06	6.98E-06	3.36E-07	1.01E-05	6.85E-07	1.24E-06	1.10E-07	2.04E-06	5.30E-07	6.93E-07	5.01E-08	1.27E-06
1397	565729.2	4222337	5.14E-06	6.28E-06	3.31E-07	1.18E-05	2.73E-06	6.89E-06	3.31E-07	9.95E-06	6.76E-07	1.23E-06	1.08E-07	2.01E-06	5.23E-07	6.83E-07	4.94E-08	1.26E-06
1398	565729.1	4222328	5.06E-06	6.18E-06	3.26E-07	1.16E-05	2.68E-06	6.78E-06	3.26E-07	9.79E-06	6.65E-07	1.21E-06	1.07E-07	1.98E-06	5.15E-07	6.73E-07	4.87E-08	1.24E-06
1399	565729	4222298	4.77E-06	5.82E-06	3.07E-07	1.09E-05	2.53E-06	6.38E-06	3.07E-07	9.22E-06	6.26E-07	1.14E-06	1.00E-07	1.86E-06	4.84E-07	6.33E-07	4.58E-08	1.16E-06
1400	565739.1	4222357	5E-06	6.1E-06	3.22E-07	1.14E-05	2.65E-06	6.69E-06	3.22E-07	9.66E-06	6.56E-07	1.19E-06	1.05E-07	1.95E-06	5.08E-07	6.64E-07	4.80E-08	1.22E-06
1401	565739.1	4222347	4.94E-06	6.03E-06	3.18E-07	1.13E-05	2.62E-06	6.61E-06	3.18E-07	9.55E-06	6.49E-07	1.18E-06	1.04E-07	1.93E-06	5.02E-07	6.56E-07	4.75E-08	1.21E-06
1402	565739	4222337	4.87E-06	5.95E-06	3.14E-07	1.11E-05	2.58E-06	6.53E-06	3.14E-07	9.42E-06	6.40E-07	1.16E-06	1.03E-07	1.91E-06	4.95E-07	6.48E-07	4.68E-08	1.19E-06
1403	565738.9	4222308	4.63E-06	5.65E-06	2.98E-07	1.06E-05	2.45E-06	6.19E-06	2.98E-07	8.95E-06	6.08E-07	1.10E-06	9.74E-08	1.81E-06	4.70E-07	6.15E-07	4.45E-08	1.13E-06
1404	565738.9	4222298	4.53E-06	5.53E-06	2.91E-07	1.04E-05	2.40E-06	6.06E-06	2.91E-07	8.76E-06	5.95E-07	1.08E-06	9.54E-08	1.77E-06	4.60E-07	6.02E-07	4.35E-08	1.11E-06
1405	565749	4222377	4.81E-06	5.88E-06	3.10E-07	1.10E-05	2.55E-06	6.44E-06	3.10E-07	9.31E-06	6.32E-07	1.15E-06	1.01E-07	1.88E-06	4.89E-07	6.39E-07	4.62E-08	1.17E-06
1406	565748.9	4222347	4.69E-06	5.72E-06	3.02E-07	1.07E-05	2.49E-06	6.28E-06	3.02E-07	9.06E-06	6.16E-07	1.12E-06	9.87E-08	1.83E-06	4.76E-07	6.23E-07	4.50E-08	1.14E-06
1407	565748.8	4222318	4.48E-06	5.47E-06	2.88E-07	1.02E-05	2.38E-06	6.00E-06	2.88E-07	8.67E-06	5.89E-07	1.07E-06	9.44E-08	1.75E-06	4.55E-07	5.95E-07	4.31E-08	1.09E-06
1408	565748.7	4222308	4.4E-06	5.37E-06	2.83E-07	1.01E-05	2.33E-06	5.89E-06	2.83E-07	8.51E-06	5.78E-07	1.05E-06	9.26E-08	1.72E-06	4.47E-07	5.84E-07	4.23E-08	1.07E-06
1409	565748.7	4222298	4.31E-06	5.26E-06	2.77E-07	9.85E-06	2.28E-06	5.77E-06	2.77E-07	8.33E-06	5.66E-07	1.03E-06	9.08E-08	1.68E-06	4.38E-07	5.72E-07	4.14E-08	1.05E-06
1410	565758.9	4222377	4.57E-06	5.59E-06	2.94E-07	1.05E-05	2.42E-06	6.12E-06	2.94E-07	8.84E-06	6.01E-07	1.09E-06	9.63E-08	1.79E-06	4.65E-07	6.08E-07	4.39E-08	1.12E-06
1411	565758.8	4222367	4.54E-06	5.55E-06	2.92E-07	1.04E-05	2.41E-06	6.08E-06	2.92E-07	8.78E-06	5.97E-07	1.08E-06	9.57E-08	1.78E-06	4.62E-07	6.03E-07	4.36E-08	1.11E-06
1412	565758.7	4222327	4.34E-06	5.29E-06	2.79E-07	9.91E-06	2.30E-06	5.80E-06	2.79E-07	8.38E-06	5.69E-07	1.03E-06	9.13E-08	1.69E-06	4.41E-07	5.76E-07	4.17E-08	1.06E-06
1413	565758.6	4222318	4.27E-06	5.21E-06	2.75E-07	9.75E-06	2.26E-06	5.71E-06	2.75E-07	8.25E-06	5.60E-07	1.02E-06	8.98E-08	1.67E-06	4.33E-07	5.67E-07	4.10E-08	1.04E-06
1414	565758.6	4222308	4.19E-06	5.12E-06	2.70E-07	9.57E-06	2.22E-06	5.61E-06	2.70E-07	8.10E-06	5.50E-07	9.99E-07	8.82E-08	1.64E-06	4.26E-07	5.56E-07	4.02E-08	1.02E-06
1415	565758.5	4222298	4.11E-06	5.02E-06	2.64E-07	9.39

1428	565778.2	4222308	3.82E-06	4.66E-06	2.46E-07	8.73E-06	2.02E-06	5.11E-06	2.46E-07	7.38E-06	5.02E-07	9.11E-07	8.04E-08	1.49E-06	3.88E-07	5.07E-07	3.67E-08	9.32E-07
1429	565778.2	4222298	3.75E-06	4.58E-06	2.41E-07	8.57E-06	1.99E-06	5.02E-06	2.41E-07	7.25E-06	4.92E-07	8.95E-07	7.90E-08	1.47E-06	3.81E-07	4.98E-07	3.60E-08	9.15E-07
1430	565788.4	4222377	3.96E-06	4.83E-06	2.55E-07	9.04E-06	2.10E-06	5.30E-06	2.55E-07	7.65E-06	5.19E-07	9.44E-07	8.33E-08	1.55E-06	4.02E-07	5.25E-07	3.80E-08	9.65E-07
1431	565788.3	4222367	3.93E-06	4.8E-06	2.53E-07	8.98E-06	2.08E-06	5.26E-06	2.53E-07	7.60E-06	5.16E-07	9.37E-07	8.27E-08	1.54E-06	3.99E-07	5.22E-07	3.77E-08	9.59E-07
1432	565788.3	4222357	3.9E-06	4.76E-06	2.51E-07	8.90E-06	2.07E-06	5.22E-06	2.51E-07	7.53E-06	5.12E-07	9.29E-07	8.20E-08	1.52E-06	3.96E-07	5.18E-07	3.74E-08	9.51E-07
1433	565788.3	4222347	3.86E-06	4.71E-06	2.48E-07	8.81E-06	2.04E-06	5.16E-06	2.48E-07	7.46E-06	5.06E-07	9.20E-07	8.12E-08	1.51E-06	3.92E-07	5.12E-07	3.71E-08	9.41E-07
1434	565788.2	4222337	3.81E-06	4.66E-06	2.45E-07	8.71E-06	2.02E-06	5.10E-06	2.45E-07	7.37E-06	5.01E-07	9.09E-07	8.03E-08	1.49E-06	3.87E-07	5.06E-07	3.66E-08	9.30E-07
1435	565788.2	4222327	3.76E-06	4.6E-06	2.42E-07	8.60E-06	2.00E-06	5.04E-06	2.42E-07	7.28E-06	4.94E-07	8.98E-07	7.93E-08	1.47E-06	3.83E-07	5.00E-07	3.62E-08	9.19E-07
1436	565788.1	4222317	3.71E-06	4.53E-06	2.39E-07	8.48E-06	1.97E-06	4.97E-06	2.39E-07	7.18E-06	4.87E-07	8.85E-07	7.82E-08	1.45E-06	3.77E-07	4.93E-07	3.57E-08	9.06E-07
1437	565788.1	4222308	3.65E-06	4.46E-06	2.35E-07	8.35E-06	1.94E-06	4.89E-06	2.35E-07	7.06E-06	4.80E-07	8.72E-07	7.70E-08	1.43E-06	3.71E-07	4.85E-07	3.51E-08	8.92E-07
1438	565788	4222298	3.59E-06	4.38E-06	2.31E-07	8.21E-06	1.90E-06	4.81E-06	2.31E-07	6.94E-06	4.71E-07	8.56E-07	7.56E-08	1.40E-06	3.65E-07	4.77E-07	3.45E-08	8.76E-07
1439	565798.2	4222377	3.87E-06	4.73E-06	2.49E-07	8.85E-06	2.05E-06	5.18E-06	2.49E-07	7.49E-06	5.09E-07	9.24E-07	8.16E-08	1.51E-06	3.94E-07	5.14E-07	3.72E-08	9.45E-07
1440	565798.2	4222367	3.84E-06	4.69E-06	2.47E-07	8.79E-06	2.04E-06	5.15E-06	2.47E-07	7.43E-06	5.05E-07	9.17E-07	8.10E-08	1.50E-06	3.91E-07	5.11E-07	3.69E-08	9.38E-07
1441	565798.1	4222357	3.81E-06	4.65E-06	2.45E-07	8.71E-06	2.02E-06	5.10E-06	2.45E-07	7.36E-06	5.00E-07	9.09E-07	8.02E-08	1.49E-06	3.87E-07	5.06E-07	3.66E-08	9.30E-07
1442	565798.1	4222347	3.77E-06	4.6E-06	2.43E-07	8.62E-06	2.00E-06	5.05E-06	2.43E-07	7.29E-06	4.95E-07	8.99E-07	7.94E-08	1.47E-06	3.83E-07	5.01E-07	3.62E-08	9.20E-07
1443	565798	4222337	3.65E-06	4.45E-06	2.35E-07	8.33E-06	1.93E-06	4.88E-06	2.35E-07	7.05E-06	4.79E-07	8.70E-07	7.68E-08	1.43E-06	3.70E-07	4.84E-07	3.50E-08	8.90E-07
1444	565798	4222327	3.6E-06	4.4E-06	2.32E-07	8.23E-06	1.91E-06	4.82E-06	2.32E-07	6.96E-06	4.73E-07	8.59E-07	7.58E-08	1.41E-06	3.66E-07	4.78E-07	3.46E-08	8.79E-07
1445	565798	4222317	3.55E-06	4.34E-06	2.29E-07	8.12E-06	1.88E-06	4.76E-06	2.29E-07	6.87E-06	4.66E-07	8.47E-07	7.48E-08	1.39E-06	3.61E-07	4.72E-07	3.41E-08	8.67E-07
1446	565797.9	4222307	3.5E-06	4.27E-06	2.25E-07	8.00E-06	1.86E-06	4.68E-06	2.25E-07	6.76E-06	4.59E-07	8.35E-07	7.37E-08	1.37E-06	3.56E-07	4.65E-07	3.36E-08	8.54E-07
1447	565797.9	4222298	3.44E-06	4.2E-06	2.21E-07	7.86E-06	1.82E-06	4.61E-06	2.21E-07	6.65E-06	4.52E-07	8.21E-07	7.24E-08	1.34E-06	3.50E-07	4.57E-07	3.30E-08	8.40E-07
1448	565808.1	4222377	3.7E-06	4.53E-06	2.38E-07	8.47E-06	1.96E-06	4.96E-06	2.38E-07	7.16E-06	4.87E-07	8.84E-07	7.80E-08	1.45E-06	3.77E-07	4.92E-07	3.56E-08	9.04E-07
1449	565808	4222367	3.68E-06	4.49E-06	2.37E-07	8.41E-06	1.95E-06	4.92E-06	2.37E-07	7.11E-06	4.83E-07	8.77E-07	7.75E-08	1.44E-06	3.74E-07	4.89E-07	3.53E-08	8.98E-07
1450	565808	4222357	3.65E-06	4.45E-06	2.35E-07	8.33E-06	1.93E-06	4.88E-06	2.35E-07	7.05E-06	4.79E-07	8.70E-07	7.68E-08	1.43E-06	3.71E-07	4.84E-07	3.50E-08	8.90E-07
1451	565807.9	4222347	3.61E-06	4.41E-06	2.32E-07	8.25E-06	1.91E-06	4.83E-06	2.32E-07	6.98E-06	4.74E-07	8.61E-07	7.60E-08	1.41E-06	3.67E-07	4.79E-07	3.47E-08	8.81E-07
1452	565807.9	4222337	3.57E-06	4.36E-06	2.30E-07	8.15E-06	1.89E-06	4.78E-06	2.30E-07	6.90E-06	4.68E-07	8.51E-07	7.51E-08	1.39E-06	3.62E-07	4.74E-07	3.43E-08	8.71E-07
1453	565807.8	4222327	3.45E-06	4.21E-06	2.22E-07	7.88E-06	1.83E-06	4.62E-06	2.22E-07	6.67E-06	4.53E-07	8.23E-07	7.26E-08	1.35E-06	3.51E-07	4.58E-07	3.31E-08	8.42E-07
1454	565807.8	4222317	3.4E-06	4.16E-06	2.19E-07	7.78E-06	1.80E-06	4.56E-06	2.19E-07	6.58E-06	4.47E-07	8.12E-07	7.17E-08	1.33E-06	3.46E-07	4.52E-07	3.27E-08	8.31E-07
1455	565807.8	4222307	3.35E-06	4.1E-06	2.16E-07	7.66E-06	1.78E-06	4.49E-06	2.16E-07	6.48E-06	4.40E-07	8.00E-07	7.06E-08	1.31E-06	3.41E-07	4.45E-07	3.22E-08	8.18E-07
1456	565807.7	4222298	3.3E-06	4.03E-06	2.12E-07	7.54E-06	1.75E-06	4.42E-06	2.12E-07	6.38E-06	4.33E-07	7.87E-07	6.95E-08	1.29E-06	3.35E-07	4.38E-07	3.17E-08	8.05E-07
1457	565828.1	4222377	3.4E-06	4.15E-06	2.19E-07	7.76E-06	1.80E-06	4.55E-06	2.19E-07	6.57E-06	4.46E-07	8.10E-07	7.15E-08	1.33E-06	3.45E-07	4.51E-07	3.26E-08	8.29E-07
1458	565828	4222367	3.37E-06	4.12E-06	2.17E-07	7.71E-06	1.79E-06	4.52E-06	2.17E-07	6.52E-06	4.43E-07	8.05E-07	7.10E-08	1.32E-06	3.43E-07	4.48E-07	3.24E-08	8.23E-07
1459	565828	4222357	3.35E-06	4.09E-06	2.15E-07	7.65E-06	1.77E-06	4.48E-06	2.15E-07	6.47E-06	4.39E-07	7.98E-07	7.05E-08	1.31E-06	3.40E-07	4.44E-07	3.21E-08	8.17E-07
1460	565827.9	4222347	3.31E-06	4.05E-06	2.13E-07	7.58E-06	1.76E-06	4.44E-06	2.13E-07	6.41E-06	4.35E-07	7.91E-07	6.98E-08	1.30E-06	3.37E-07	4.40E-07	3.18E-08	8.09E-07
1461	565827.9	4222337	3.28E-06	4E-06	2.11E-07	7.49E-06	1.74E-06	4.39E-06	2.11E-07	6.34E-06	4.31E-07	7.82E-07	6.90E-08	1.28E-06	3.33E-07	4.36E-07	3.15E-08	8.00E-07
1462	565827.8	4222327	3.24E-06	3.95E-06	2.08E-07	7.40E-06	1.72E-06	4.33E-06	2.08E-07	6.26E-06	4.25E-07	7.72E-07	6.82E-08	1.27E-06	3.29E-07	4.30E-07	3.11E-08	7.90E-07
1463	565827.8	4222317	3.19E-06	3.9E-06	2.06E-07	7.30E-06	1.69E-06	4.28E-06	2.06E-07	6.17E-06	4.19E-07	7.62E-07	6.72E-08	1.25E-06	3.24E-07	4.24E-07	3.07E-08	7.79E-07
1464	565848	4222357	3.08E-06	3.77E-06	1.99E-07	7.05E-06	1.64E-06	4.13E-06	1.99E-07	5.96E-06	4.05E-07	7.36E-07	6.50E-08	1.21E-06	3.13E-07	4.10E-07	2.96E-08	7.53E-07
1465	565847.9	4222347	3.06E-06	3.73E-06	1.97E-07	6.98E-06	1.62E-06	4.09E-06	1.97E-07	5.91E-06	4.01E-07	7.29E-07	6.43E-08	1.19E-06	3.11E-07	4.06E-07	2.94E-08	7.46E-07
1466	565847.9	4222337	3.02E-06	3.69E-06	1.95E-07	6.91E-06	1.60E-06	4.05E-06	1.95E-07	5.85E-06	3.97E-07	7.21E-07	6.37E-08	1.18E-06	3.07E-07	4.02E-07	2.90E-08	7.38E-07
1467	565847.8	4222307	2.91E-06	3.55E-06	1.87E-07	6.65E-06	1.54E-06	3.89E-06	1.87E-07	5.62E-06	3.82E-07	6.94E-07	6.12E-08	1.14E-06	2.95E-07	3.86E-07	2.79E-08	7.10E-07
1468	565847.7	4222297	2.86E-06	3.5E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.54E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.99E-07
1469	565868.1	4222376	2.89E-06	3.53E-06	1.86E-07	6.61E-06	1.53E-06	3.87E-06	1.86E-07	5.59E-06	3.80E-07	6.90E-07	6.09E-08	1.13E-06	2.94E-07	3.84E-07	2.78E-08	7.06E-07
1470	565868	4222366	2.87E-06	3.51E-06	1.85E-07	6.57E-06	1.52E-06	3.85E-06	1.85E-07	5.56E-06	3.77E-07	6.86E-07	6.05E-08	1.12E-06	2.92E-07	3.82E-07	2.76E-08	7.02E-07
1471	565867.8	4222327	2.77E-06	3.38E-06	1.78E-07	6.32E-06	1.47E-06	3.70E-06	1.78E-07	5.35E-06	3.63E-07	6.60E-07	5.83E-08	1.08E-06	2.81E-07	3.68E-07	2.66E-08	6.75E-07
1472	565867.8	4222317	2.73E-06	3.34E-06	1.76E-07	6.25E-06	1.45E-06	3.66E-06	1.76E-07	5.29E-06	3.59E-07	6.52E-07	5.76E-08	1.07E-06	2.78E-07	3.63E-07	2.63E-08	6.67E-07
1473	565867.8	4222307	2.7E-06	3.3E-06	1.74E-07	6.17E-06	1.43E-06	3.61E-06	1.74E-07	5.22E-06	3.54E-07	6.44E-07	5.68E-08	1.06E-06	2.74E-07	3.59E-07	2.59E-08	6.59E-07
1474	565867.7	4222297	2.66E-06	3.25E-06	1.71E-07	6.08E-06	1.41E-06	3.56E-06	1.71E-07	5.14E-06	3.49E-07	6.35E-07	5.60E-08	1.04E-06	2.70E-07	3.53E-07	2.56E-08	6.49E-07
1475	565888.1	4222376	2.68E-06	3.27E-06	1.72E-07	6.12E-06	1.42E-06	3.59E-06	1.72E-07	5.18E-06	3.52E-07	6.39E-07	5.64E-08	1.05E-06	2.72E-07	3.56E-07	2.57E-08	6.54E-07
1476	565888	4222366	2.66E-06	3.25E-06	1.71E-07	6.09E-06	1.41E-06	3.57E-06	1.71E-07	5.15E-06	3.50E-07	6.35E-07	5.61E-08	1.04E-06	2.71E-07	3.54E-07	2.56E-08	6.50E-07
1477	565888	4222357	2.64E-06	3.23E-06	1.70E-07	6.04E-06	1.40E-06	3.54E-06	1.70E-07	5.11E-06	3.47E-07	6.31E-07	5.57E-08	1.03E-06	2.69E-07	3.51E-07	2.54E-08	6.45E-07
1478	565887.8	4222327	2.57E-06	3.14E-06	1.65E-07	5.88E-06	1.36E-06	3.44E-06	1.65E-07	4.97E-06	3.38E-07	6.13E-07	5.41E-08	1.01E-06	2.61E-07	3.42E-07	2.47E-08	6.28E-07
1479	565887.8	4222317	2.54E-06	3.11E-06	1.64E-07	5.81E-06	1.35E-06	3.41E-06	1.64E-07	4.92E-06	3.34E-07	6.07E-07	5.36E-08	9.94E-07	2.58E-07	3.38E-07	2.44E-08	6.21E-07
1480	565887.8	4222307	2.51E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.86E-06	3.30E-07	6.00E-07	5.29E-08	9.83E-07	2.55E-07	3.34E-07	2.41E-08	6.14E-07
1481	565887.7	4222297	2.48E-06	3.03E-06	1.60E-07	5.67E-06	1.31E-06	3.32E-06	1.60E-07	4.79E-06	3.26E-07	5.92E-07	5.22E-08	9.70E-07	2.52E-07	3.29E-07	2.38E-08	6.05E-07
1482	565907.9	4222385	2.5E-06	3.06E-06	1.61E-07	5.72E-06	1.33E-06	3.35E-06	1.61E-07	4.84E-06	3.29E-07	5.97E-07	5.27E-08	9.79E-07	2.54E-07	3.33E-07	2.41E-08	6.11E-07
1483	565908.1	4222376	2.49E-06	3.04E-06	1.60E-07	5.69E-06	1.32E-06	3.33E-06	1.60E-07	4.81E-06	3.27E-07	5.94E-07	5.24E-08	9.74E-07	2.53E-07	3.31E-07	2.39E-08	6.08E-07
1484	565908	4222366	2.47E-06	3.02E-06	1.59E-07	5.66E-06	1.31E-06	3.31E-06	1.59E-07	4.78E-06	3.25E-07	5.90E-07	5.21E-08	9.68E-07	2.51E-07	3.29E-07	2.38E-08	6.04E-07
1485	565908	4222356	2.46E-06	3E-06	1.58E-07	5.62E-06	1.30E-06	3.29E-06	1.58E-07	4.76E-06	3.23E-07	5.87E-07	5.18E-08	9.62E-07	2.50E-07	3.27E-07	2.36E-08	6.00E-07
1486	565907.9	4222347	2.44E-06	2.98E-06	1.57E-07	5.58E-06	1.29E-06	3.27E-06	1.57E-07	4.72E-06	3.21E-07	5.83E-07	5.14E-08	9.55E-07	2.48E-07	3.24E-07	2.35E-08	5.96E-07
1487	565907.9	4222337	2.42E-06	2.96E-06	1.56E-07	5.54E-06	1.28E-06	3.24E-06	1.56E-07	4.68E-06	3.18E-07	5.78E-07	5.10E-08	9.47E-07	2.46E-07	3.22E-07	2.33E-08	5.91E-07
1488	565907.8	4222327	2.4E-06	2.93E-06	1.54E-07	5.48E-06	1.27E-06	3.21E-06	1.54E-07	4.64E-06	3.15E-07	5.72E-07	5.05E-08	9.38E-07	2.44E-07	3.19E-07	2.30E-08	5.85E-07
1489	565907.7	4222297	2.31E-06	2.83E-06	1.49E-07	5.29E-06	1.23E-06	3.10E-06	1.49E-07	4.48E-06	3.04E-07	5.52E-07	4.87E-08	9.05E-07	2.35E-07	3.07E-07	2.22E-08	5.65E-07
1490	565927.9	4222385	2.34E-06	2.86E-06	1.51E-07	5.35E-06	1.24E-06	3.13E-06	1.51E-07	4.52E-06	3.07E-07	5.58E-07	4.93E-08	9.15E-07	2.38E-07	3.11E-07	2.25E-08	5.71E-07
1491	565928.1	4222376	2.33E-06	2.84E-06	1.50E-07	5.32E-06	1.23E-06	3.11E-06	1.50E-07	4.50E-06	3.05E-07	5.55E-07	4.90E-08	9.09E-07	2.36E-07	3.09E-07	2.23E-08	5.68E-07
1492	565928	4222366	2.31E-06	2.82E-06	1.49E-07	5.28E-06	1.23E-06	3.09E-06	1.49E-07	4.47E-06	3.04E-07	5.51E-07	4.87E-08	9.04E-07	2.35E-07	3.07E-07	2.22E-08	5.64E-07
1493	565928	4222356	2.3E-06	2.81E-06	1.48E-07	5.25E-06	1.22E-06	3.08E-06	1.48E-07	4.44E-06	3.02E-07	5.48E-07	4.84E-08	8.98E-07	2.33E-07	3.05E-07	2.21E-08	5.61E-07
1494	565927.9	4222346	2.28E-06	2.78E-06	1.47E-07	5.21E-06	1.21E-06	3.05E-06	1.47E-07	4.41E-06	2.99E-07	5.44E-07	4.80E-08	8.92E-07	2.32E-07	3.03E-07	2.19E-08	5.57E-07
1495	565927.9	4222337	2.26E-06	2.76E-06	1.46E-07	5.17E-06	1.20E-06	3.03E-06	1.46E-07	4.37E-06	2.97E-07	5.40E-07	4.76E-08	8.84E-07	2.30E-07	3.00E-07	2.17E-08	5.52E-07
1496	565927.8	4222327	2.24E-06	2.74E-06	1.44E-07	5.12E-06	1.19E-06	3.00E-06	1.44E-07	4.33E-06	2.94E-07	5.34E-07	4.72E-08	8.76E-07	2.28E-07	2.98E-07	2.15E-08	5.47E-07
1497	565927.8	4222317	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.94E-07	2.13E-08	5.41E-07
1498	565927.8	4222307	2.19E-06	2.68E-06	1.41E-07	5.01E-06	1.16E-06	2.93E-06	1.41E-07	4.24E-06	2.88E-07	5.23E-07	4.62E-08	8.57E-07	2.23E-07	2.91E-07	2.11E-08	5.35E-07
1499	565947.9	4222386	2.19E-06	2.68E-06	1.41E-07	5.01E-06	1.16E-06	2.93E-06	1.41E-07	4.24E-06	2.88E-07	5.23E-07	4.62E-08	8.57E-07	2.23E-07	2.91E-07	2.11E-08	5.35E-07
1500	565948.1	4222376	2.18E-06	2.66E-06	1.40E-07	4.98E-06	1.15E-06	2.92E-06	1.40E-07	4.21E-06	2.86E-07	5.20E-07	4.59E-08	8.52E-07	2.21E-07	2.89E-07	2.09E-08	5.32E-07
1501	565948	4222366	2.16E-06	2.64E-06	1.39E-07	4.95E-06	1.15E-06	2.90E-06	1.39E-07	4.19E-06	2.84E-07	5.16E-07	4.56E-08	8.46E-07	2.20E-07	2.88E-07	2.08E-08	5.28E-07
1502	565948	4222356	2.15E-06	2.63E-06	1.38E-07	4.91E-06	1.14E-06	2.88E-06	1.38E-07	4.16E-06	2.82E-07	5.13E-07	4.53E-08	8.41E-07	2.18E-07	2.86E-07	2.07E-08	5.25E-07
1503	565947.9	4222346	2.13E-06	2.61E-06	1.37E-07	4.88E-06	1.13E-06	2.86E-06	1.37E-07	4.12E-06	2.80E-07	5.09E-07	4.49E-08	8.34E-07	2.17E-07	2.83E-07	2.05E-08	5.21E-07
1504	565947.9	4222336	2.12E-06	2.58E-06	1.36E-07	4.84E-06	1.12E-06	2.83E-06	1.36E-07	4.09E-06	2.78E-07	5.05E-07	4.46E-08	8.27E-07	2.15E-07	2.81E-07	2.03E-08	5.16E-07
1505	565947.8	4222327	2.1E-06	2.56E-06	1.35E-07	4.79E-06	1.11E-06	2.81E-06	1.35E-07	4.05E-06	2.75E-07	5.00E-07	4.41E-08	8.19E-07	2.13E-07	2.78E-07	2.01E-08	5.12E-07
1506	565947.8	4222317	2.08E-06	2.53E-06	1.34E-07	4.74E-06	1.10E-06	2.78E-06	1.34E-07	4.01E-06	2.73E-07	4.95E-07	4.37E-08	8.11E-07	2.11E-07	2.76E-07	1.99E-08	5.06E-07
1507	565947.8	4222307	2.05E-06	2.51E-06	1.32E-07	4.69E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.32E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
1508	565947.7	4222297	2.03E-06	2.48E-06	1.31E-07	4.64E-06	1.08E-06	2.72E-06	1.31E-07	3.92E-06	2.66E-07	4.84E-07	4.27E-08	7.93E-07	2.06E-07	2.70E-07	1.95E-08	4.95E-07
1509	565967.9	4222383	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.88E-07	4.31E-08	8.00E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
1510	565968	4222366	2.03E-06	2.48E-06	1.30E-07	4.63E-06	1.07E-06	2.71E-06	1.30E-07	3.92E-06	2.66E-07	4.84E-07	4.27E-08	7.92E-07	2.06E-07	2.69E-07	1.95E-08	4.95E-07
1511	565968	4222356	2.01E-06	2.46E-06	1.30E-07	4.60E-06	1.07E-06	2.70E-06	1.30E-07	3.89E-06	2.64E-07	4.80E-07	4.24E-08	7.87E-07	2.05E-07	2.67E-07	1.93E-08	4.91E-07
1512	565967.9	4222346	2E-06	2.44E-06	1.29E-07	4.57E-06	1.06E-06	2.68E-06	1.29E-07	3.86E-06	2.62E-07	4.77E-07	4.21E-08	7.81E-07	2.03E-07	2.65E-07	1.92E-08	4.88E-07
1513	565967.9	4222336	1.98E-06	2.42E-06	1.28E-07	4.53E-06	1.05E-06	2.65E-06	1.28E-07	3.83E-06	2.60E-07	4.73E-07	4.17E-08	7.75E-07	2.01E-07	2.63E-07	1.90E-08	4.84E-07
1514	565967.8	4222327	1.96E-06	2.4E-06	1.26E-07	4.49E-06	1.04E-06	2.63E-06	1.26E-07	3.80E-06	2.58E-07	4.69E-07	4.14E-08	7.68E-07	2.00E-07	2.61E-07	1.89E-08	4.80E-07
1515	565967.8	4222317	1.95E-06	2.38E-06	1.25E-07	4.45E-06	1.03E-06	2.61E-06	1.25E-07	3.76E-06	2.56E-07	4.64E-07	4.10E-08	7.61E-07	1.98E-07	2.59E-07	1.87E-08	4.75E-07
1516	565967.8	4222307	1.93E-06	2.35E-06	1.24E-07	4.40E-06	1.02E-06	2.58E-06	1.24E-07	3.72E-06	2.53E-07	4.60E-07	4.06E-08	7.53E-07	1.96E-07	2.56E-07	1.85E-08	4.70E-07
1517	565967.7	4222297	1.91E-06	2.33E-06	1.23E-07	4.35E-06	1.01E-06	2.55E-06	1.23E-07	3.68E-06	2.50E-07	4.55E-07	4.01E-08	7.45E-07	1.94E-07	2.53E-07	1.83E-08	4.65E-07
1518	565987.9	4222383	1.93E-06	2.35E-06	1.24E-07	4.40E-06	1.02E-06	2.58E-06	1.24E-07	3.72E-06	2.53E-07	4.60E-07	4.06E-08	7.53E-07	1.96E-07	2.56E-07	1.85E-08	4.70E-07
1519	565988	4222366	1.91E-06	2.33E-06	1.23E-07	4.36E-06	1.01E-06	2.55E-06	1.23E-07	3.69E-06	2.50E-07	4.55E-07	4.02E-08	7.46E-07	1.94E-07	2.53E-07	1.83E-08	4.65E-07
1520	565988	4222356	1.89E-06	2.31E-06	1.22E-07	4.33E-06	1.00E-06	2.54E-06	1.22E-07	3.66E-06	2.49E-07	4.52E-07	3.99E-08	7.41E-07	1.93E-07	2.52E-07	1.82E-08	4.62E-07
1521	565987.9	4222346	1.88E-06	2.3E-06	1.21E-07	4.30E-06	9.97E-07	2.52E-06	1.21E-07	3.64E-06	2.47E-07	4.49E-07	3.96E-08	7.36E-07	1.91E-07	2.50E-07	1.81E-08	4.59E-07
1522	565987.9	4222336	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.90E-07	2.50E-06	1.20E-07	3.61E-06	2.45E-07	4.45E-07	3.93E-08	7.30E-07	1.90E-07	2.48E-07	1.79E-08	4.56E-07
1523	565987.8	4222326	1.85E-06	2.26E-06	1.19E-07	4.23E-06	9.81E-07	2.48E-06	1.19E-07	3.58E-06	2.43E-07	4.42E-07	3.90E-08	7.24E-07	1.88E-07	2.46E-07	1.78E-08	4.52E-07
1524	565987.8	4222317	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.72E-07	2.46E-06	1.18E-07	3.55E-06	2.41E-07	4.38E-07	3.86E-08	7.17E-07	1.86E-07	2.44E-07	1.76E-08	4.48E-07
1525	565987.8	4222307	1.82E-06	2.22E-06	1.17E-07	4.15E-06	9.63E-07	2.43E-06	1.17E

1538	566028	4222356	1.68E-06	2.06E-06	1.08E-07	3.85E-06	8.93E-07	2.25E-06	1.08E-07	3.26E-06	2.21E-07	4.02E-07	3.55E-08	6.58E-07	1.71E-07	2.24E-07	1.62E-08	4.11E-07
1539	566027.9	4222346	1.67E-06	2.04E-06	1.08E-07	3.82E-06	8.87E-07	2.24E-06	1.08E-07	3.23E-06	2.20E-07	3.99E-07	3.52E-08	6.54E-07	1.70E-07	2.22E-07	1.61E-08	4.08E-07
1540	566027.9	4222336	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.81E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.50E-08	6.49E-07	1.69E-07	2.21E-07	1.60E-08	4.05E-07
1541	566027.8	4222326	1.65E-06	2.01E-06	1.06E-07	3.77E-06	8.74E-07	2.21E-06	1.06E-07	3.19E-06	2.16E-07	3.93E-07	3.47E-08	6.44E-07	1.68E-07	2.19E-07	1.58E-08	4.02E-07
1542	566047.9	4222384	1.62E-06	1.97E-06	1.04E-07	3.70E-06	8.57E-07	2.16E-06	1.04E-07	3.13E-06	2.12E-07	3.86E-07	3.41E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.95E-07
1543	566048	4222366	1.6E-06	1.95E-06	1.03E-07	3.65E-06	8.47E-07	2.14E-06	1.03E-07	3.09E-06	2.10E-07	3.81E-07	3.37E-08	6.25E-07	1.62E-07	2.12E-07	1.54E-08	3.90E-07
1544	566047.8	4222326	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.28E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.07E-07	1.50E-08	3.81E-07
1545	566047.8	4222316	1.55E-06	1.89E-06	9.97E-08	3.54E-06	8.21E-07	2.07E-06	9.97E-08	3.00E-06	2.03E-07	3.70E-07	3.26E-08	6.06E-07	1.57E-07	2.06E-07	1.49E-08	3.78E-07
1546	566047.8	4222306	1.54E-06	1.88E-06	9.89E-08	3.51E-06	8.14E-07	2.06E-06	9.89E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.01E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
1547	566047.7	4222297	1.52E-06	1.86E-06	9.79E-08	3.48E-06	8.06E-07	2.04E-06	9.79E-08	2.94E-06	2.00E-07	3.63E-07	3.20E-08	5.94E-07	1.55E-07	2.02E-07	1.46E-08	3.71E-07
1548	566068	4222366	1.51E-06	1.84E-06	9.72E-08	3.45E-06	8.01E-07	2.02E-06	9.72E-08	2.92E-06	1.98E-07	3.60E-07	3.18E-08	5.90E-07	1.53E-07	2.01E-07	1.45E-08	3.69E-07
1549	566068	4222356	1.51E-06	1.84E-06	9.69E-08	3.44E-06	7.98E-07	2.02E-06	9.69E-08	2.91E-06	1.98E-07	3.59E-07	3.17E-08	5.89E-07	1.53E-07	2.00E-07	1.45E-08	3.68E-07
1550	566067.9	4222346	1.5E-06	1.83E-06	9.66E-08	3.43E-06	7.95E-07	2.01E-06	9.66E-08	2.90E-06	1.97E-07	3.58E-07	3.16E-08	5.87E-07	1.52E-07	1.99E-07	1.44E-08	3.66E-07
1551	566067.9	4222336	1.49E-06	1.82E-06	9.61E-08	3.41E-06	7.92E-07	2.00E-06	9.61E-08	2.89E-06	1.96E-07	3.56E-07	3.15E-08	5.84E-07	1.52E-07	1.98E-07	1.43E-08	3.65E-07
1552	566067.8	4222326	1.48E-06	1.81E-06	9.54E-08	3.39E-06	7.86E-07	1.98E-06	9.54E-08	2.87E-06	1.95E-07	3.54E-07	3.12E-08	5.80E-07	1.51E-07	1.97E-07	1.42E-08	3.62E-07
1553	566067.8	4222316	1.47E-06	1.8E-06	9.46E-08	3.36E-06	7.80E-07	1.97E-06	9.46E-08	2.84E-06	1.93E-07	3.51E-07	3.10E-08	5.75E-07	1.49E-07	1.95E-07	1.41E-08	3.59E-07
1554	566067.8	4222306	1.46E-06	1.78E-06	9.38E-08	3.33E-06	7.73E-07	1.95E-06	9.38E-08	2.82E-06	1.91E-07	3.48E-07	3.07E-08	5.70E-07	1.48E-07	1.94E-07	1.40E-08	3.56E-07
1555	566067.7	4222296	1.44E-06	1.76E-06	9.28E-08	3.30E-06	7.64E-07	1.93E-06	9.28E-08	2.79E-06	1.89E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
1556	566087.9	4222384	1.44E-06	1.76E-06	9.29E-08	3.30E-06	7.65E-07	1.93E-06	9.29E-08	2.79E-06	1.90E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
1557	566088	4222366	1.43E-06	1.74E-06	9.19E-08	3.27E-06	7.57E-07	1.91E-06	9.19E-08	2.76E-06	1.88E-07	3.41E-07	3.01E-08	5.59E-07	1.45E-07	1.90E-07	1.37E-08	3.49E-07
1558	566088	4222356	1.42E-06	1.74E-06	9.17E-08	3.26E-06	7.55E-07	1.91E-06	9.17E-08	2.75E-06	1.87E-07	3.40E-07	3.00E-08	5.57E-07	1.45E-07	1.89E-07	1.37E-08	3.48E-07
1559	566087.9	4222346	1.42E-06	1.73E-06	9.14E-08	3.25E-06	7.53E-07	1.90E-06	9.14E-08	2.75E-06	1.87E-07	3.39E-07	2.99E-08	5.55E-07	1.44E-07	1.89E-07	1.36E-08	3.47E-07
1560	566087.9	4222336	1.41E-06	1.73E-06	9.10E-08	3.23E-06	7.50E-07	1.89E-06	9.10E-08	2.73E-06	1.86E-07	3.37E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
1561	566087.8	4222326	1.4E-06	1.71E-06	9.02E-08	3.20E-06	7.43E-07	1.88E-06	9.02E-08	2.71E-06	1.84E-07	3.34E-07	2.95E-08	5.48E-07	1.42E-07	1.86E-07	1.35E-08	3.42E-07
1562	566087.8	4222316	1.39E-06	1.7E-06	8.94E-08	3.17E-06	7.36E-07	1.86E-06	8.94E-08	2.68E-06	1.82E-07	3.31E-07	2.92E-08	5.43E-07	1.41E-07	1.84E-07	1.33E-08	3.39E-07
1563	566087.8	4222306	1.37E-06	1.68E-06	8.85E-08	3.14E-06	7.29E-07	1.84E-06	8.85E-08	2.66E-06	1.80E-07	3.28E-07	2.89E-08	5.37E-07	1.40E-07	1.83E-07	1.32E-08	3.35E-07
1564	566087.7	4222296	1.36E-06	1.66E-06	8.75E-08	3.11E-06	7.20E-07	1.82E-06	8.75E-08	2.63E-06	1.78E-07	3.24E-07	2.86E-08	5.31E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
1565	566107.9	4222384	1.37E-06	1.67E-06	8.81E-08	3.13E-06	7.26E-07	1.83E-06	8.81E-08	2.65E-06	1.80E-07	3.27E-07	2.88E-08	5.35E-07	1.39E-07	1.82E-07	1.32E-08	3.34E-07
1566	566108	4222365	1.35E-06	1.65E-06	8.71E-08	3.09E-06	7.17E-07	1.81E-06	8.71E-08	2.62E-06	1.78E-07	3.23E-07	2.85E-08	5.29E-07	1.37E-07	1.80E-07	1.30E-08	3.30E-07
1567	566108	4222356	1.35E-06	1.65E-06	8.68E-08	3.08E-06	7.15E-07	1.80E-06	8.68E-08	2.61E-06	1.77E-07	3.22E-07	2.84E-08	5.27E-07	1.37E-07	1.79E-07	1.30E-08	3.29E-07
1568	566107.9	4222346	1.34E-06	1.64E-06	8.64E-08	3.07E-06	7.12E-07	1.80E-06	8.64E-08	2.60E-06	1.76E-07	3.20E-07	2.83E-08	5.25E-07	1.36E-07	1.78E-07	1.29E-08	3.28E-07
1569	566107.9	4222336	1.34E-06	1.63E-06	8.60E-08	3.05E-06	7.08E-07	1.79E-06	8.60E-08	2.58E-06	1.75E-07	3.19E-07	2.81E-08	5.22E-07	1.36E-07	1.77E-07	1.28E-08	3.26E-07
1570	566107.8	4222326	1.32E-06	1.62E-06	8.51E-08	3.02E-06	7.01E-07	1.77E-06	8.51E-08	2.56E-06	1.74E-07	3.16E-07	2.79E-08	5.17E-07	1.34E-07	1.76E-07	1.27E-08	3.23E-07
1571	566107.8	4222316	1.31E-06	1.6E-06	8.43E-08	2.99E-06	6.94E-07	1.75E-06	8.43E-08	2.53E-06	1.72E-07	3.12E-07	2.76E-08	5.12E-07	1.33E-07	1.74E-07	1.26E-08	3.20E-07
1572	565571.6	4222289	1.48E-05	1.81E-05	9.55E-07	3.39E-05	7.87E-06	1.99E-05	9.55E-07	2.87E-05	1.95E-06	3.54E-06	3.13E-07	5.80E-06	1.51E-06	1.97E-06	1.43E-07	3.62E-06
1573	565571.6	4222280	1.4E-05	1.71E-05	9.03E-07	3.21E-05	7.44E-06	1.88E-05	9.03E-07	2.71E-05	1.84E-06	3.35E-06	2.96E-07	5.49E-06	1.43E-06	1.86E-06	1.35E-07	3.43E-06
1574	565571.5	4222270	1.32E-05	1.61E-05	8.47E-07	3.01E-05	6.98E-06	1.76E-05	8.47E-07	2.55E-05	1.73E-06	3.14E-06	2.77E-07	5.15E-06	1.34E-06	1.75E-06	1.26E-07	3.21E-06
1575	565571.5	4222261	1.23E-05	1.5E-05	7.89E-07	2.80E-05	6.50E-06	1.64E-05	7.89E-07	2.37E-05	1.61E-06	2.92E-06	2.58E-07	4.79E-06	1.25E-06	1.63E-06	1.18E-07	2.99E-06
1576	565571.5	4222252	1.13E-05	1.38E-05	7.30E-07	2.59E-05	6.01E-06	1.52E-05	7.30E-07	2.19E-05	1.49E-06	2.70E-06	2.39E-07	4.43E-06	1.15E-06	1.51E-06	1.09E-07	2.77E-06
1577	565571.5	4222242	1.04E-05	1.27E-05	6.71E-07	2.38E-05	5.53E-06	1.40E-05	6.71E-07	2.02E-05	1.37E-06	2.49E-06	2.20E-07	4.08E-06	1.06E-06	1.39E-06	1.00E-07	2.55E-06
1578	565571.4	4222233	9.56E-06	1.17E-05	6.15E-07	2.18E-05	5.07E-06	1.28E-05	6.15E-07	1.85E-05	1.25E-06	2.28E-06	2.01E-07	3.74E-06	9.71E-07	1.27E-06	9.18E-08	2.33E-06
1579	565581.4	4222289	1.33E-05	1.63E-05	8.58E-07	3.05E-05	7.07E-06	1.78E-05	8.58E-07	2.58E-05	1.75E-06	3.18E-06	2.81E-07	5.21E-06	1.35E-06	1.77E-06	1.28E-07	3.25E-06
1580	565581.4	4222280	1.26E-05	1.54E-05	8.13E-07	2.89E-05	6.70E-06	1.69E-05	8.13E-07	2.44E-05	1.66E-06	3.02E-06	2.66E-07	4.94E-06	1.28E-06	1.68E-06	1.21E-07	3.08E-06
1581	565581.4	4222270	1.19E-05	1.45E-05	7.66E-07	2.72E-05	6.31E-06	1.59E-05	7.66E-07	2.30E-05	1.56E-06	2.84E-06	2.51E-07	4.65E-06	1.21E-06	1.58E-06	1.14E-07	2.91E-06
1582	565581.3	4222261	1.11E-05	1.36E-05	7.17E-07	2.55E-05	5.91E-06	1.49E-05	7.17E-07	2.15E-05	1.46E-06	2.66E-06	2.35E-07	4.36E-06	1.13E-06	1.48E-06	1.07E-07	2.72E-06
1583	565581.3	4222252	1.04E-05	1.27E-05	6.67E-07	2.37E-05	5.50E-06	1.39E-05	6.67E-07	2.00E-05	1.36E-06	2.47E-06	2.18E-07	4.05E-06	1.05E-06	1.38E-06	9.96E-08	2.53E-06
1584	565581.3	4222242	9.61E-06	1.17E-05	6.19E-07	2.20E-05	5.10E-06	1.29E-05	6.19E-07	1.86E-05	1.26E-06	2.29E-06	2.02E-07	3.76E-06	9.77E-07	1.28E-06	9.23E-08	2.35E-06
1585	565581.3	4222233	8.87E-06	1.08E-05	5.71E-07	2.03E-05	4.70E-06	1.19E-05	5.71E-07	1.72E-05	1.17E-06	2.12E-06	1.87E-07	3.47E-06	9.02E-07	1.18E-06	8.53E-08	2.17E-06
1586	565591.3	4222289	1.21E-05	1.48E-05	7.78E-07	2.76E-05	6.40E-06	1.62E-05	7.78E-07	2.34E-05	1.59E-06	2.88E-06	2.54E-07	4.72E-06	1.23E-06	1.60E-06	1.16E-07	2.95E-06
1587	565591.2	4222280	1.15E-05	1.4E-05	7.39E-07	2.63E-05	6.09E-06	1.54E-05	7.39E-07	2.22E-05	1.51E-06	2.74E-06	2.42E-07	4.49E-06	1.17E-06	1.53E-06	1.10E-07	2.80E-06
1588	565591.2	4222270	1.09E-05	1.33E-05	6.99E-07	2.48E-05	5.76E-06	1.45E-05	6.99E-07	2.10E-05	1.43E-06	2.59E-06	2.29E-07	4.25E-06	1.10E-06	1.44E-06	1.04E-07	2.65E-06
1589	565591.2	4222261	1.02E-05	1.25E-05	6.57E-07	2.33E-05	5.41E-06	1.37E-05	6.57E-07	1.97E-05	1.34E-06	2.44E-06	2.15E-07	3.99E-06	1.04E-06	1.36E-06	9.81E-08	2.49E-06
1590	565591.2	4222252	9.56E-06	1.17E-05	6.15E-07	2.18E-05	5.07E-06	1.28E-05	6.15E-07	1.85E-05	1.26E-06	2.28E-06	2.01E-07	3.74E-06	9.71E-07	1.27E-06	9.18E-08	2.33E-06
1591	565591.1	4222242	8.91E-06	1.09E-05	5.74E-07	2.04E-05	4.72E-06	1.19E-05	5.74E-07	1.72E-05	1.17E-06	2.13E-06	1.88E-07	3.48E-06	9.06E-07	1.18E-06	8.56E-08	2.18E-06
1592	565591.1	4222233	8.28E-06	1.01E-05	5.33E-07	1.89E-05	4.39E-06	1.11E-05	5.33E-07	1.60E-05	1.09E-06	1.98E-06	1.74E-07	3.24E-06	8.42E-07	1.10E-06	7.96E-08	2.02E-06
1593	565601.1	4222289	1.1E-05	1.35E-05	7.10E-07	2.52E-05	5.84E-06	1.48E-05	7.10E-07	2.13E-05	1.45E-06	2.63E-06	2.32E-07	4.31E-06	1.12E-06	1.46E-06	1.06E-07	2.69E-06
1594	565601.1	4222280	1.05E-05	1.28E-05	6.77E-07	2.40E-05	5.57E-06	1.41E-05	6.77E-07	2.03E-05	1.38E-06	2.51E-06	2.21E-07	4.11E-06	1.07E-06	1.40E-06	1.01E-07	2.57E-06
1595	565601	4222270	9.97E-06	1.22E-05	6.42E-07	2.28E-05	5.29E-06	1.34E-05	6.42E-07	1.93E-05	1.31E-06	2.38E-06	2.10E-07	3.90E-06	1.01E-06	1.32E-06	9.58E-08	2.43E-06
1596	565601	4222261	9.42E-06	1.15E-05	6.06E-07	2.15E-05	4.99E-06	1.26E-05	6.06E-07	1.82E-05	1.24E-06	2.25E-06	1.98E-07	3.68E-06	9.57E-07	1.25E-06	9.05E-08	2.30E-06
1597	565601	4222251	8.86E-06	1.08E-05	5.70E-07	2.02E-05	4.70E-06	1.19E-05	5.70E-07	1.71E-05	1.16E-06	2.11E-06	1.87E-07	3.46E-06	9.00E-07	1.18E-06	8.51E-08	2.16E-06
1598	565601	4222242	8.3E-06	1.01E-05	5.34E-07	1.90E-05	4.40E-06	1.11E-05	5.34E-07	1.60E-05	1.09E-06	1.98E-06	1.75E-07	3.25E-06	8.43E-07	1.10E-06	7.97E-08	2.03E-06
1599	565601	4222233	7.76E-06	9.47E-06	4.99E-07	1.77E-05	4.11E-06	1.04E-05	4.99E-07	1.50E-05	1.02E-06	1.85E-06	1.63E-07	3.03E-06	7.88E-07	1.03E-06	7.45E-08	1.89E-06
1600	565620.8	4222289	9.32E-06	1.14E-05	6.00E-07	2.13E-05	4.94E-06	1.25E-05	6.00E-07	1.80E-05	1.22E-06	2.22E-06	1.96E-07	3.64E-06	9.47E-07	1.24E-06	8.95E-08	2.27E-06
1601	565620.7	4222280	8.93E-06	1.09E-05	5.75E-07	2.04E-05	4.73E-06	1.20E-05	5.75E-07	1.73E-05	1.17E-06	2.13E-06	1.88E-07	3.49E-06	9.07E-07	1.19E-06	8.58E-08	2.18E-06
1602	565630.6	4222289	8.61E-06	1.05E-05	5.54E-07	1.97E-05	4.56E-06	1.15E-05	5.54E-07	1.66E-05	1.13E-06	2.05E-06	1.81E-07	3.37E-06	8.75E-07	1.14E-06	8.27E-08	2.10E-06
1603	565630.6	4222280	8.27E-06	1.01E-05	5.32E-07	1.89E-05	4.38E-06	1.11E-05	5.32E-07	1.60E-05	1.09E-06	1.97E-06	1.74E-07	3.23E-06	8.40E-07	1.10E-06	7.94E-08	2.02E-06
1604	565630.6	4222270	7.91E-06	9.66E-06	5.09E-07	1.81E-05	4.19E-06	1.06E-05	5.09E-07	1.53E-05	1.04E-06	1.89E-06	1.67E-07	3.09E-06	8.04E-07	1.05E-06	7.60E-08	1.93E-06
1605	565630.5	4222261	7.55E-06	9.22E-06	4.86E-07	1.73E-05	4.00E-06	1.01E-05	4.86E-07	1.46E-05	9.91E-07	1.80E-06	1.59E-07	2.95E-06	7.67E-07	1.00E-06	7.25E-08	1.84E-06
1606	565630.5	4222233	6.45E-06	7.87E-06	4.15E-07	1.47E-05	3.42E-06	8.63E-06	4.15E-07	1.25E-05	8.46E-07	1.54E-06	1.36E-07	2.52E-06	6.55E-07	8.56E-07	6.19E-08	1.57E-06
1607	565640.4	4222289	8E-06	9.77E-06	5.15E-07	1.83E-05	4.24E-06	1.07E-05	5.15E-07	1.55E-05	1.05E-06	1.91E-06	1.68E-07	3.13E-06	8.13E-07	1.06E-06	7.69E-08	1.95E-06
1608	565640.4	4222280	7.7E-06	9.4E-06	4.96E-07	1.76E-05	4.08E-06	1.03E-05	4.96E-07	1.49E-05	1.01E-06	1.84E-06	1.62E-07	3.01E-06	7.82E-07	1.02E-06	7.40E-08	1.88E-06
1609	565640.4	4222270	7.39E-06	9.02E-06	4.75E-07	1.69E-05	3.92E-06	9.89E-06	4.75E-07	1.43E-05	9.70E-07	1.76E-06	1.56E-07	2.89E-06	7.51E-07	9.81E-07	7.10E-08	1.80E-06
1610	565640.4	4222261	7.07E-06	8.63E-06	4.55E-07	1.62E-05	3.75E-06	9.46E-06	4.55E-07	1.37E-05	9.28E-07	1.69E-06	1.49E-07	2.76E-06	7.18E-07	9.39E-07	6.79E-08	1.72E-06
1611	565640.3	4222233	6.09E-06	7.44E-06	3.92E-07	1.39E-05	3.23E-06	8.16E-06	3.92E-07	1.18E-05	8.00E-07	1.45E-06	1.28E-07	2.38E-06	6.19E-07	8.09E-07	5.85E-08	1.49E-06
1612	565650.3	4222289	7.46E-06	9.11E-06	4.80E-07	1.71E-05	3.96E-06	9.99E-06	4.80E-07	1.44E-05	9.80E-07	1.78E-06	1.57E-07	2.92E-06	7.58E-07	9.91E-07	7.17E-08	1.82E-06
1613	565650.3	4222280	7.2E-06	8.79E-06	4.63E-07	1.64E-05	3.82E-06	9.63E-06	4.63E-07	1.39E-05	9.45E-07	1.72E-06	1.52E-07	2.81E-06	7.31E-07	9.56E-07	6.91E-08	1.76E-06
1614	565650.2	4222270	6.92E-06	8.45E-06	4.45E-07	1.58E-05	3.67E-06	9.26E-06	4.45E-07	1.34E-05	9.09E-07	1.65E-06	1.46E-07	2.71E-06	7.03E-07	9.19E-07	6.65E-08	1.69E-06
1615	565650.2	4222261	6.63E-06	8.1E-06	4.27E-07	1.52E-05	3.52E-06	8.88E-06	4.27E-07	1.28E-05	8.71E-07	1.58E-06	1.40E-07	2.59E-06	6.74E-07	8.81E-07	6.37E-08	1.62E-06
1616	565650.1	4222233	5.77E-06	7.05E-06	3.71E-07	1.32E-05	3.06E-06	7.72E-06	3.71E-07	1.12E-05	7.58E-07	1.38E-06	1.21E-07	2.26E-06	5.86E-07	7.66E-07	5.54E-08	1.41E-06
1617	565660.1	4222289	6.98E-06	8.53E-06	4.49E-07	1.60E-05	3.70E-06	9.35E-06	4.49E-07	1.35E-05	9.17E-07	1.67E-06	1.47E-07	2.73E-06	7.09E-07	9.27E-07	6.71E-08	1.70E-06
1618	565660.1	4222280	6.74E-06	8.24E-06	4.34E-07	1.54E-05	3.58E-06	9.03E-06	4.34E-07	1.30E-05	8.86E-07	1.61E-06	1.42E-07	2.64E-06	6.85E-07	8.96E-07	6.48E-08	1.65E-06
1619	565660.1	4222270	6.5E-06	7.94E-06	4.18E-07	1.49E-05	3.45E-06	8.70E-06	4.18E-07	1.26E-05	8.53E-07	1.55E-06	1.37E-07	2.54E-06	6.60E-07	8.63E-07	6.24E-08	1.59E-06
1620	565660.1	4222261	6.25E-06	7.63E-06	4.02E-07	1.43E-05	3.31E-06	8.36E-06	4.02E-07	1.21E-05	8.20E-07	1.49E-06	1.32E-07	2.44E-06	6.35E-07	8.30E-07	6.00E-08	1.52E-06
1621	565660	4222242	5.73E-06	7E-06	3.69E-07	1.31E-05	3.04E-06	7.67E-06	3.69E-07	1.11E-05	7.53E-07	1.37E-06	1.21E-07	2.24E-06	5.82E-07	7.61E-07	5.51E-08	1.40E-06
1622	565660	4222233	5.47E-06	6.68E-06	3.52E-07	1.25E-05	2.90E-06	7.33E-06	3.52E-07	1.06E-05	7.19E-07	1.31E-06	1.15E-07	2.14E-06	5.56E-07	7.27E-07	5.26E-08	1.34E-06
1623	565670	4222289	6.55E-06	8E-06	4.22E-07	1.50E-05	3.47E-06	8.77E-06	4.22E-07	1.27E-05	8.60E-07	1.56E-06	1.38E-07	2.56E-06	6.66E-07	8.70E-07	6.29E-08	1.60E-06
1624	565669.9	4222280	6.34E-06	7.74E-06	4.08E-07	1.45E-05	3.36E-06	8.49E-06	4.08E-07	1.23E-05	8.32E-07	1.51E-06	1.33E-07	2.48E-06	6.44E-07	8.42E-07	6.09E-08	1.55E-06
1625	565669.9	4222270	6.12E-06	7.47E-06	3.94E-07	1.40E-05	3.24E-06	8.19E-06	3.94E-07	1.18E-05	8.04E-07	1.46E-06	1.29E-07	2.39E-06	6.22E-07	8.13E-07	5.88E-08	1.49E-06
1626	565669.8	4222242	5.43E-06	6.63E-06	3.50E-07	1.24E-05	2.88E-06	7.27E-06	3.50E-07	1.05E-05	7.13E-07	1.30E-06	1.14E-07	2.12E-06	5.52E-07	7.22E-07	5.22E-08	1.33E-06
1627	565669.8	4222232	5.2E-06	6.35E-06	3.35E-07	1.19E-05	2.76E-06	6.96E-06	3.35E-07	1.01E-05	6.83E-07	1.24E-06	1.09E-07	2.03E-06	5.28E-07	6.91E-07	5.00E-08	1.27E-06
1628	565679.8	4222289	6.16E-06	7.52E-06	3.96E-07	1.41E-05	3.26E-06	8.24E-06	3.96E-07	1.19E-05	8.09E-07	1.47E-06	1.30E-07	2.41E-06	6.26E-07	8.18E-07	5.92E-08	1.50E-06
1629	565679.8	4222280	5.97E-06	7.29E-06	3.84E-07	1.36E-05	3.16E-06	7.99E-06	3.84E-07	1.15E-05	7.84E-07	1.42E-06	1.26E-07	2.33E-06	6.07E-07	7.93E-07	5.73E-08	1.46E-06
1630	565679.8	4222270	5.77E-06	7.05E-06	3.71E-07	1.32E-05	3.06E-06	7.73E-06	3.71E-07	1.12E-05	7.58E-07	1.38E-06	1.22E-07	2.26E-06	5.87E-07	7.67E-07	5.55E-08	1.41E-06
1631	565679.7	4222251	5.36E-06	6.55E-06	3.45E-07	1.23E-05	2.84E-06	7.18E-06	3.45E-07	1.04E-05	7.04E-07	1.28E-06	1.13E-07	2.10E-06	5.45E-07	7.12E-07	5.15E-08	1.31E-06
1632	565679.7	4222242	5.15E-06	6.3E-06	3.32E-07	1.18E-05	2.73E-06	6.90E-06	3.32E-07	9.97E-06	6.77E-07	1.23E-06	1.09E-07	2.02E-06	5.24E-07	6.85E-07	4.95E-08	1.26E-06
1633	565679.7	4222232	4.95E-06	6.04E-06	3.18E-07	1.13E-05	2.62E-06	6.62E-06	3.18E-07	9.56E-06	6.49E-07	1.18E-06	1.04E-07	1.93E-06	5.03E-07	6.57E-07	4.75E-08	1.21E-06
1634	565689.6	4222289	5.8E-06	7.08E-06	3.73E-07	1.33E-05	3.08E-06	7.77E-06	3.73E-07	1.12E-05	7.62E-07	1.38E-06	1.22E-07	2.27E-06	5.89E-07	7.71E-07	5.57E-08	1.42E-06
1635	565689.6	4222280	5.63E-06	6.88E-06	3.62E-07	1.29E-05	2.99E-06	7

1648	565709.2	4222251	4.6E-06	5.62E-06	2.96E-07	1.05E-05	2.44E-06	6.16E-06	2.96E-07	8.89E-06	6.04E-07	1.10E-06	9.68E-08	1.80E-06	4.67E-07	6.11E-07	4.42E-08	1.12E-06
1649	565709.2	4222242	4.44E-06	5.43E-06	2.86E-07	1.02E-05	2.36E-06	5.95E-06	2.86E-07	8.59E-06	5.84E-07	1.06E-06	9.36E-08	1.74E-06	4.52E-07	5.90E-07	4.27E-08	1.08E-06
1650	565709.2	4222232	4.29E-06	5.24E-06	2.76E-07	9.80E-06	2.27E-06	5.74E-06	2.76E-07	8.29E-06	5.63E-07	1.02E-06	9.03E-08	1.68E-06	4.36E-07	5.70E-07	4.12E-08	1.05E-06
1651	565719.2	4222289	4.91E-06	6E-06	3.16E-07	1.12E-05	2.60E-06	6.57E-06	3.16E-07	9.49E-06	6.45E-07	1.17E-06	1.03E-07	1.92E-06	4.99E-07	6.52E-07	4.72E-08	1.20E-06
1652	565719.1	4222279	4.78E-06	5.84E-06	3.08E-07	1.09E-05	2.54E-06	6.41E-06	3.08E-07	9.25E-06	6.28E-07	1.14E-06	1.01E-07	1.87E-06	4.86E-07	6.36E-07	4.60E-08	1.17E-06
1653	565719.1	4222270	4.65E-06	5.68E-06	3.00E-07	1.06E-05	2.47E-06	6.23E-06	3.00E-07	9.00E-06	6.11E-07	1.11E-06	9.80E-08	1.82E-06	4.73E-07	6.18E-07	4.47E-08	1.14E-06
1654	565719.1	4222261	4.52E-06	5.52E-06	2.91E-07	1.03E-05	2.40E-06	6.05E-06	2.91E-07	8.74E-06	5.94E-07	1.08E-06	9.52E-08	1.77E-06	4.59E-07	6.00E-07	4.34E-08	1.10E-06
1655	565719.1	4222251	4.38E-06	5.35E-06	2.82E-07	1.00E-05	2.32E-06	5.87E-06	2.82E-07	8.47E-06	5.75E-07	1.05E-06	9.23E-08	1.71E-06	4.45E-07	5.82E-07	4.21E-08	1.07E-06
1656	565719	4222242	4.24E-06	5.18E-06	2.73E-07	9.69E-06	2.25E-06	5.68E-06	2.73E-07	8.20E-06	5.57E-07	1.01E-06	8.93E-08	1.66E-06	4.31E-07	5.63E-07	4.08E-08	1.04E-06
1657	565719	4222232	4.1E-06	5.01E-06	2.64E-07	9.37E-06	2.17E-06	5.49E-06	2.64E-07	7.93E-06	5.38E-07	9.78E-07	8.63E-08	1.60E-06	4.17E-07	5.45E-07	3.94E-08	1.00E-06
1658	565729	4222289	4.66E-06	5.69E-06	3.00E-07	1.07E-05	2.47E-06	6.24E-06	3.00E-07	9.01E-06	6.12E-07	1.11E-06	9.82E-08	1.82E-06	4.74E-07	6.19E-07	4.48E-08	1.14E-06
1659	565729	4222279	4.55E-06	5.56E-06	2.93E-07	1.04E-05	2.41E-06	6.09E-06	2.93E-07	8.79E-06	5.97E-07	1.09E-06	9.58E-08	1.78E-06	4.62E-07	6.04E-07	4.37E-08	1.11E-06
1660	565728.9	4222270	4.43E-06	5.41E-06	2.85E-07	1.01E-05	2.35E-06	5.93E-06	2.85E-07	8.56E-06	5.82E-07	1.06E-06	9.33E-08	1.73E-06	4.50E-07	5.88E-07	4.26E-08	1.08E-06
1661	565728.9	4222261	4.31E-06	5.26E-06	2.77E-07	9.84E-06	2.28E-06	5.77E-06	2.77E-07	8.33E-06	5.66E-07	1.03E-06	9.07E-08	1.68E-06	4.38E-07	5.72E-07	4.14E-08	1.05E-06
1662	565728.9	4222251	4.18E-06	5.11E-06	2.69E-07	9.56E-06	2.22E-06	5.60E-06	2.69E-07	8.08E-06	5.49E-07	9.98E-07	8.81E-08	1.63E-06	4.25E-07	5.55E-07	4.02E-08	1.02E-06
1663	565728.9	4222242	4.05E-06	4.95E-06	2.61E-07	9.26E-06	2.15E-06	5.43E-06	2.61E-07	7.84E-06	5.32E-07	9.67E-07	8.54E-08	1.58E-06	4.12E-07	5.38E-07	3.89E-08	9.89E-07
1664	565728.9	4222232	3.92E-06	4.79E-06	2.53E-07	8.97E-06	2.08E-06	5.25E-06	2.53E-07	7.59E-06	5.15E-07	9.36E-07	8.26E-08	1.53E-06	3.99E-07	5.21E-07	3.77E-08	9.58E-07
1665	565738.8	4222289	4.43E-06	5.42E-06	2.85E-07	1.01E-05	2.35E-06	5.94E-06	2.85E-07	8.57E-06	5.82E-07	1.06E-06	9.34E-08	1.73E-06	4.51E-07	5.89E-07	4.26E-08	1.08E-06
1666	565738.8	4222279	4.33E-06	5.29E-06	2.79E-07	9.90E-06	2.30E-06	5.80E-06	2.79E-07	8.37E-06	5.69E-07	1.03E-06	9.12E-08	1.69E-06	4.40E-07	5.75E-07	4.16E-08	1.06E-06
1667	565738.8	4222270	4.22E-06	5.16E-06	2.72E-07	9.65E-06	2.24E-06	5.65E-06	2.72E-07	8.16E-06	5.54E-07	1.01E-06	8.89E-08	1.65E-06	4.29E-07	5.61E-07	4.06E-08	1.03E-06
1668	565738.8	4222261	4.11E-06	5.02E-06	2.65E-07	9.39E-06	2.18E-06	5.50E-06	2.65E-07	7.95E-06	5.40E-07	9.80E-07	8.66E-08	1.61E-06	4.18E-07	5.46E-07	3.95E-08	1.00E-06
1669	565738.7	4222251	3.99E-06	4.88E-06	2.57E-07	9.13E-06	2.12E-06	5.35E-06	2.57E-07	7.72E-06	5.25E-07	9.53E-07	8.41E-08	1.56E-06	4.06E-07	5.31E-07	3.84E-08	9.75E-07
1670	565738.7	4222242	3.88E-06	4.74E-06	2.50E-07	8.86E-06	2.06E-06	5.19E-06	2.50E-07	7.50E-06	5.09E-07	9.25E-07	8.17E-08	1.52E-06	3.94E-07	5.15E-07	3.73E-08	9.46E-07
1671	565738.7	4222232	3.76E-06	4.59E-06	2.42E-07	8.59E-06	1.99E-06	5.03E-06	2.42E-07	7.27E-06	4.94E-07	8.97E-07	7.92E-08	1.47E-06	3.82E-07	4.99E-07	3.61E-08	9.17E-07
1672	565748.7	4222289	4.22E-06	5.16E-06	2.72E-07	9.65E-06	2.24E-06	5.65E-06	2.72E-07	8.17E-06	5.55E-07	1.01E-06	8.89E-08	1.65E-06	4.29E-07	5.61E-07	4.06E-08	1.03E-06
1673	565748.6	4222279	4.13E-06	5.04E-06	2.66E-07	9.44E-06	2.19E-06	5.53E-06	2.66E-07	7.98E-06	5.42E-07	9.85E-07	8.69E-08	1.61E-06	4.19E-07	5.48E-07	3.97E-08	1.01E-06
1674	565748.6	4222270	4.03E-06	4.92E-06	2.59E-07	9.21E-06	2.14E-06	5.39E-06	2.59E-07	7.79E-06	5.29E-07	9.61E-07	8.48E-08	1.58E-06	4.09E-07	5.35E-07	3.87E-08	9.83E-07
1675	565748.6	4222261	3.93E-06	4.8E-06	2.53E-07	8.97E-06	2.08E-06	5.26E-06	2.53E-07	7.59E-06	5.16E-07	9.37E-07	8.27E-08	1.54E-06	3.99E-07	5.22E-07	3.77E-08	9.58E-07
1676	565748.6	4222251	3.82E-06	4.67E-06	2.46E-07	8.73E-06	2.03E-06	5.12E-06	2.46E-07	7.39E-06	5.02E-07	9.12E-07	8.05E-08	1.49E-06	3.88E-07	5.08E-07	3.67E-08	9.33E-07
1677	565748.6	4222242	3.71E-06	4.54E-06	2.39E-07	8.49E-06	1.97E-06	4.97E-06	2.39E-07	7.18E-06	4.88E-07	8.86E-07	7.82E-08	1.45E-06	3.77E-07	4.93E-07	3.57E-08	9.06E-07
1678	565748.5	4222232	3.6E-06	4.4E-06	2.32E-07	8.24E-06	1.91E-06	4.83E-06	2.32E-07	6.97E-06	4.73E-07	8.60E-07	7.59E-08	1.41E-06	3.66E-07	4.79E-07	3.46E-08	8.80E-07
1679	565758.5	4222279	3.94E-06	4.81E-06	2.54E-07	9.01E-06	2.09E-06	5.28E-06	2.54E-07	7.62E-06	5.18E-07	9.40E-07	8.30E-08	1.54E-06	4.00E-07	5.23E-07	3.79E-08	9.62E-07
1680	565758.5	4222270	3.85E-06	4.7E-06	2.48E-07	8.80E-06	2.04E-06	5.15E-06	2.48E-07	7.44E-06	5.06E-07	9.19E-07	8.11E-08	1.51E-06	3.91E-07	5.11E-07	3.70E-08	9.40E-07
1681	565758.4	4222261	3.76E-06	4.59E-06	2.42E-07	8.59E-06	1.99E-06	5.03E-06	2.42E-07	7.26E-06	4.93E-07	8.96E-07	7.91E-08	1.47E-06	3.82E-07	4.99E-07	3.61E-08	9.17E-07
1682	565758.4	4222251	3.66E-06	4.47E-06	2.36E-07	8.36E-06	1.94E-06	4.90E-06	2.36E-07	7.08E-06	4.81E-07	8.73E-07	7.71E-08	1.43E-06	3.72E-07	4.86E-07	3.52E-08	8.93E-07
1683	565758.4	4222242	3.56E-06	4.35E-06	2.29E-07	8.14E-06	1.89E-06	4.77E-06	2.29E-07	6.88E-06	4.68E-07	8.50E-07	7.50E-08	1.39E-06	3.62E-07	4.73E-07	3.42E-08	8.69E-07
1684	565768.3	4222289	3.85E-06	4.7E-06	2.48E-07	8.80E-06	2.04E-06	5.15E-06	2.48E-07	7.44E-06	5.05E-07	9.18E-07	8.10E-08	1.50E-06	3.91E-07	5.11E-07	3.70E-08	9.39E-07
1685	565768.3	4222279	3.77E-06	4.6E-06	2.43E-07	8.61E-06	2.00E-06	5.05E-06	2.43E-07	7.29E-06	4.95E-07	8.99E-07	7.94E-08	1.47E-06	3.83E-07	5.01E-07	3.62E-08	9.20E-07
1686	565768.3	4222270	3.68E-06	4.5E-06	2.37E-07	8.42E-06	1.95E-06	4.93E-06	2.37E-07	7.12E-06	4.84E-07	8.79E-07	7.76E-08	1.44E-06	3.74E-07	4.89E-07	3.54E-08	8.99E-07
1687	565768.3	4222261	3.6E-06	4.39E-06	2.32E-07	8.22E-06	1.91E-06	4.82E-06	2.32E-07	6.96E-06	4.73E-07	8.59E-07	7.58E-08	1.41E-06	3.66E-07	4.78E-07	3.46E-08	8.78E-07
1688	565768.3	4222251	3.51E-06	4.29E-06	2.26E-07	8.02E-06	1.86E-06	4.70E-06	2.26E-07	6.79E-06	4.61E-07	8.37E-07	7.39E-08	1.37E-06	3.57E-07	4.66E-07	3.37E-08	8.57E-07
1689	565778.2	4222289	3.68E-06	4.5E-06	2.37E-07	8.42E-06	1.95E-06	4.93E-06	2.37E-07	7.12E-06	4.84E-07	8.79E-07	7.76E-08	1.44E-06	3.74E-07	4.89E-07	3.54E-08	8.99E-07
1690	565778.2	4222279	3.61E-06	4.41E-06	2.32E-07	8.25E-06	1.91E-06	4.83E-06	2.32E-07	6.98E-06	4.74E-07	8.61E-07	7.60E-08	1.41E-06	3.67E-07	4.79E-07	3.47E-08	8.81E-07
1691	565778.1	4222270	3.53E-06	4.31E-06	2.27E-07	8.07E-06	1.87E-06	4.73E-06	2.27E-07	6.83E-06	4.64E-07	8.43E-07	7.44E-08	1.38E-06	3.59E-07	4.69E-07	3.39E-08	8.62E-07
1692	565778.1	4222260	3.45E-06	4.22E-06	2.22E-07	7.89E-06	1.83E-06	4.62E-06	2.22E-07	6.67E-06	4.53E-07	8.24E-07	7.27E-08	1.35E-06	3.51E-07	4.59E-07	3.32E-08	8.43E-07
1693	565778	4222232	3.2E-06	3.91E-06	2.06E-07	7.32E-06	1.70E-06	4.29E-06	2.06E-07	6.19E-06	4.20E-07	7.64E-07	6.74E-08	1.25E-06	3.25E-07	4.25E-07	3.08E-08	7.81E-07
1694	565788	4222289	3.53E-06	4.31E-06	2.27E-07	8.06E-06	1.87E-06	4.72E-06	2.27E-07	6.82E-06	4.63E-07	8.42E-07	7.43E-08	1.38E-06	3.59E-07	4.69E-07	3.39E-08	8.61E-07
1695	565788	4222279	3.46E-06	4.23E-06	2.23E-07	7.91E-06	1.83E-06	4.63E-06	2.23E-07	6.69E-06	4.54E-07	8.25E-07	7.29E-08	1.35E-06	3.52E-07	4.60E-07	3.32E-08	8.45E-07
1696	565787.9	4222242	3.16E-06	3.86E-06	2.04E-07	7.23E-06	1.68E-06	4.23E-06	2.04E-07	6.11E-06	4.15E-07	7.54E-07	6.66E-08	1.24E-06	3.21E-07	4.20E-07	3.04E-08	7.72E-07
1697	565787.9	4222232	3.08E-06	3.76E-06	1.98E-07	7.05E-06	1.63E-06	4.13E-06	1.98E-07	5.96E-06	4.05E-07	7.35E-07	6.49E-08	1.21E-06	3.13E-07	4.09E-07	2.96E-08	7.52E-07
1698	565797.9	4222289	3.38E-06	4.13E-06	2.18E-07	7.73E-06	1.79E-06	4.53E-06	2.18E-07	6.54E-06	4.44E-07	8.07E-07	7.12E-08	1.32E-06	3.44E-07	4.49E-07	3.25E-08	8.26E-07
1699	565797.8	4222251	3.12E-06	3.81E-06	2.01E-07	7.12E-06	1.65E-06	4.17E-06	2.01E-07	6.02E-06	4.09E-07	7.43E-07	6.56E-08	1.22E-06	3.17E-07	4.14E-07	2.99E-08	7.60E-07
1700	565797.7	4222242	3.04E-06	3.72E-06	1.96E-07	6.96E-06	1.61E-06	4.08E-06	1.96E-07	5.89E-06	4.00E-07	7.26E-07	6.41E-08	1.19E-06	3.09E-07	4.04E-07	2.92E-08	7.43E-07
1701	565797.7	4222232	2.97E-06	3.63E-06	1.91E-07	6.79E-06	1.57E-06	3.98E-06	1.91E-07	5.74E-06	3.90E-07	7.09E-07	6.26E-08	1.16E-06	3.02E-07	3.95E-07	2.85E-08	7.25E-07
1702	565807.6	4222260	3.06E-06	3.74E-06	1.97E-07	7.00E-06	1.62E-06	4.10E-06	1.97E-07	5.92E-06	4.02E-07	7.31E-07	6.45E-08	1.20E-06	3.11E-07	4.07E-07	2.94E-08	7.48E-07
1703	565807.6	4222251	3E-06	3.66E-06	1.93E-07	6.85E-06	1.59E-06	4.01E-06	1.93E-07	5.80E-06	3.94E-07	7.15E-07	6.31E-08	1.17E-06	3.05E-07	3.98E-07	2.88E-08	7.32E-07
1704	565807.6	4222242	2.93E-06	3.58E-06	1.89E-07	6.70E-06	1.55E-06	3.93E-06	1.89E-07	5.67E-06	3.85E-07	6.99E-07	6.17E-08	1.15E-06	2.98E-07	3.89E-07	2.82E-08	7.16E-07
1705	565807.6	4222232	2.86E-06	3.5E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.54E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.99E-07
1706	565827.7	4222289	3.05E-06	3.72E-06	1.96E-07	6.96E-06	1.61E-06	4.08E-06	1.96E-07	5.89E-06	4.00E-07	7.27E-07	6.42E-08	1.19E-06	3.10E-07	4.05E-07	2.93E-08	7.43E-07
1707	565827.7	4222279	2.99E-06	3.65E-06	1.93E-07	6.84E-06	1.59E-06	4.01E-06	1.93E-07	5.79E-06	3.93E-07	7.14E-07	6.30E-08	1.17E-06	3.04E-07	3.98E-07	2.88E-08	7.30E-07
1708	565827.7	4222270	2.94E-06	3.59E-06	1.89E-07	6.71E-06	1.56E-06	3.93E-06	1.89E-07	5.68E-06	3.86E-07	7.01E-07	6.18E-08	1.15E-06	2.98E-07	3.90E-07	2.82E-08	7.17E-07
1709	565827.6	4222260	2.88E-06	3.52E-06	1.85E-07	6.58E-06	1.53E-06	3.85E-06	1.85E-07	5.57E-06	3.78E-07	6.87E-07	6.06E-08	1.13E-06	2.93E-07	3.82E-07	2.77E-08	7.03E-07
1710	565827.6	4222251	2.82E-06	3.44E-06	1.81E-07	6.44E-06	1.49E-06	3.77E-06	1.81E-07	5.45E-06	3.70E-07	6.72E-07	5.94E-08	1.10E-06	2.86E-07	3.74E-07	2.71E-08	6.88E-07
1711	565827.6	4222242	2.76E-06	3.37E-06	1.77E-07	6.30E-06	1.46E-06	3.69E-06	1.77E-07	5.33E-06	3.62E-07	6.58E-07	5.81E-08	1.08E-06	2.80E-07	3.66E-07	2.65E-08	6.73E-07
1712	565827.6	4222232	2.69E-06	3.29E-06	1.73E-07	6.16E-06	1.43E-06	3.61E-06	1.73E-07	5.21E-06	3.54E-07	6.43E-07	5.67E-08	1.05E-06	2.74E-07	3.58E-07	2.59E-08	6.58E-07
1713	565847.7	4222289	2.82E-06	3.45E-06	1.82E-07	6.45E-06	1.50E-06	3.78E-06	1.82E-07	5.45E-06	3.70E-07	6.73E-07	5.94E-08	1.10E-06	2.87E-07	3.75E-07	2.71E-08	6.89E-07
1714	565847.7	4222279	2.77E-06	3.39E-06	1.79E-07	6.34E-06	1.47E-06	3.71E-06	1.79E-07	5.36E-06	3.64E-07	6.62E-07	5.84E-08	1.08E-06	2.82E-07	3.69E-07	2.67E-08	6.77E-07
1715	565847.7	4222270	2.73E-06	3.33E-06	1.75E-07	6.23E-06	1.45E-06	3.65E-06	1.75E-07	5.27E-06	3.58E-07	6.50E-07	5.74E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.65E-07
1716	565847.6	4222260	2.68E-06	3.27E-06	1.72E-07	6.11E-06	1.42E-06	3.58E-06	1.72E-07	5.17E-06	3.51E-07	6.38E-07	5.63E-08	1.05E-06	2.72E-07	3.55E-07	2.57E-08	6.53E-07
1717	565847.6	4222251	2.62E-06	3.2E-06	1.69E-07	6.00E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.44E-07	6.26E-07	5.52E-08	1.03E-06	2.67E-07	3.48E-07	2.52E-08	6.40E-07
1718	565847.6	4222241	2.57E-06	3.14E-06	1.65E-07	5.87E-06	1.36E-06	3.44E-06	1.65E-07	4.97E-06	3.37E-07	6.13E-07	5.41E-08	1.00E-06	2.61E-07	3.41E-07	2.47E-08	6.27E-07
1719	565847.6	4222232	2.51E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.86E-06	3.30E-07	6.00E-07	5.30E-08	9.83E-07	2.56E-07	3.34E-07	2.42E-08	6.14E-07
1720	565867.7	4222289	2.62E-06	3.2E-06	1.69E-07	6.00E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.45E-07	6.26E-07	5.53E-08	1.03E-06	2.67E-07	3.49E-07	2.52E-08	6.40E-07
1721	565867.7	4222279	2.58E-06	3.15E-06	1.66E-07	5.90E-06	1.37E-06	3.46E-06	1.66E-07	4.99E-06	3.39E-07	6.16E-07	5.44E-08	1.01E-06	2.63E-07	3.43E-07	2.48E-08	6.30E-07
1722	565867.7	4222270	2.54E-06	3.1E-06	1.64E-07	5.81E-06	1.35E-06	3.40E-06	1.64E-07	4.91E-06	3.34E-07	6.06E-07	5.35E-08	9.93E-07	2.58E-07	3.38E-07	2.44E-08	6.20E-07
1723	565867.6	4222260	2.5E-06	3.05E-06	1.61E-07	5.71E-06	1.32E-06	3.34E-06	1.61E-07	4.83E-06	3.28E-07	5.96E-07	5.26E-08	9.76E-07	2.54E-07	3.32E-07	2.40E-08	6.09E-07
1724	565867.6	4222251	2.45E-06	2.99E-06	1.58E-07	5.60E-06	1.30E-06	3.28E-06	1.58E-07	4.74E-06	3.22E-07	5.85E-07	5.16E-08	9.58E-07	2.49E-07	3.26E-07	2.35E-08	5.98E-07
1725	565887.7	4222279	2.41E-06	2.95E-06	1.55E-07	5.51E-06	1.28E-06	3.23E-06	1.55E-07	4.66E-06	3.17E-07	5.76E-07	5.08E-08	9.43E-07	2.45E-07	3.20E-07	2.32E-08	5.89E-07
1726	565887.7	4222270	2.38E-06	2.9E-06	1.53E-07	5.43E-06	1.26E-06	3.18E-06	1.53E-07	4.59E-06	3.12E-07	5.67E-07	5.00E-08	9.29E-07	2.41E-07	3.16E-07	2.28E-08	5.80E-07
1727	565887.6	4222241	2.25E-06	2.75E-06	1.45E-07	5.15E-06	1.20E-06	3.02E-06	1.45E-07	4.36E-06	2.96E-07	5.38E-07	4.75E-08	8.82E-07	2.29E-07	3.00E-07	2.17E-08	5.50E-07
1728	565887.6	4222232	2.21E-06	2.7E-06	1.42E-07	5.06E-06	1.17E-06	2.96E-06	1.42E-07	4.28E-06	2.91E-07	5.28E-07	4.66E-08	8.65E-07	2.25E-07	2.94E-07	2.13E-08	5.40E-07
1729	565907.6	4222260	2.19E-06	2.67E-06	1.41E-07	5.00E-06	1.16E-06	2.93E-06	1.41E-07	4.23E-06	2.87E-07	5.22E-07	4.61E-08	8.55E-07	2.22E-07	2.91E-07	2.10E-08	5.34E-07
1730	565907.6	4222251	2.15E-06	2.63E-06	1.39E-07	4.92E-06	1.14E-06	2.88E-06	1.39E-07	4.16E-06	2.83E-07	5.14E-07	4.53E-08	8.42E-07	2.19E-07	2.86E-07	2.07E-08	5.25E-07
1731	565907.6	4222241	2.12E-06	2.58E-06	1.36E-07	4.84E-06	1.12E-06	2.83E-06	1.36E-07	4.09E-06	2.78E-07	5.05E-07	4.46E-08	8.27E-07	2.15E-07	2.81E-07	2.03E-08	5.16E-07
1732	565907.6	4222232	2.08E-06	2.54E-06	1.34E-07	4.75E-06	1.10E-06	2.78E-06	1.34E-07	4.02E-06	2.73E-07	4.96E-07	4.38E-08	8.13E-07	2.11E-07	2.76E-07	2.00E-08	5.07E-07
1733	565927.7	4222279	2.11E-06	2.58E-06	1.36E-07	4.83E-06	1.12E-06	2.83E-06	1.36E-07	4.08E-06	2.77E-07	5.04E-07	4.45E-08	8.26E-07	2.15E-07	2.81E-07	2.03E-08	5.16E-07
1734	565927.7	4222270	2.08E-06	2.54E-06	1.34E-07	4.76E-06	1.10E-06	2.79E-06	1.34E-07	4.03E-06	2.74E-07	4.97E-07	4.39E-08	8.15E-07	2.12E-07	2.77E-07	2.00E-08	5.08E-07
1735	565927.6	4222260	2.05E-06	2.51E-06	1.32E-07	4.69E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.32E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
1736	565927.6	4222251	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.65E-07	4.82E-07	4.26E-08	7.90E-07	2.05E-07	2.69E-07	1.94E-08	4.93E-07
1737	565927.6	4222241	1.99E-06	2.43E-06	1.28E-07	4.55E-06	1.05E-06	2.66E-06	1.28E-07	3.85E-06	2.61E-07	4.75E-07	4.19E-08	7.78E-07	2.02E-07	2.64E-07	1.91E-08	4.86E-07
1738	565927.6	4222232	1.96E-06	2.39E-06	1.26E-07	4.47E-06	1.04E-06	2.62E-06	1.26E-07	3.78E-06	2.57E-07	4.67E-07	4.12E-08	7.65E-07	1.99E-07	2.60E-07	1.88E-08	4.77E-07
1739	565947.6	4222260	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.58E-06	1.24E-07	3.73E-06	2.53E-07	4.60E-07	4.06E-08	7.54E-07	1.96E-07	2.56E-07	1.85E-08	4.71E-07
1740	565947.6	4222251	1.9E-06	2.32E-06	1.22E-07	4.35E-06	1.01E-06	2.55E-06	1.22E-07	3.68E-06	2.50E-07	4.54E-07	4.01E-08	7.44E-07	1.93E-07	2.53E-07	1.83E-08	4.64E-07
1741	565947.6	4222241	1.87E-06	2.29E-06	1.21E-07	4.28E-06	9.93E-07	2.51E-06	1.21E-07	3.62E-06	2.46E-07	4.47E-07	3.94E-08	7.32E-07	1.90E-07	2.49E-07	1.80E-08	4.57E-07
1742	565947.6	4222232	1.84E-06	2.25E-06	1.19E-07	4.21E-06	9.77E-07	2.47E-06	1.19E-07	3.56E-06	2.42E-07	4.40E-07	3.88E-08	7.21E-07	1.87E-07	2.45E-07	1.77E-08	4.50E-07
1743	565967.7	4222279	1.86E-06	2.28E-06	1.20E-07	4.26E-06	9.88E-07	2.50E-06	1.20E-07	3.60E-06	2.45E-07	4.45E-07	3.92E-08	7.29E-07	1.89E-07	2.48E-07	1.79E-08	4.55E-07
1744	565987.7	4222288	1.78E-06	2.17E-06	1.15E-07	4.07E-06	9.44E-07	2.38E-06	1.15E-07	3.44E-06	2.34E-07	4.25E-07	3.75E-08	6.96E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
1745	565987.7	4222279	1.76E-06	2.15E-06	1.13E-07

1758	566047.7	4222269	1.47E-06	1.8E-06	9.48E-08	3.37E-06	7.81E-07	1.97E-06	9.48E-08	2.85E-06	1.93E-07	3.51E-07	3.10E-08	5.76E-07	1.50E-07	1.96E-07	1.42E-08	3.60E-07
1759	566047.6	4222260	1.46E-06	1.78E-06	9.37E-08	3.33E-06	7.72E-07	1.95E-06	9.37E-08	2.81E-06	1.91E-07	3.47E-07	3.07E-08	5.69E-07	1.48E-07	1.93E-07	1.40E-08	3.55E-07
1760	566047.6	4222250	1.44E-06	1.76E-06	9.25E-08	3.29E-06	7.62E-07	1.92E-06	9.25E-08	2.78E-06	1.89E-07	3.43E-07	3.03E-08	5.62E-07	1.46E-07	1.91E-07	1.38E-08	3.51E-07
1761	566047.6	4222241	1.42E-06	1.73E-06	9.13E-08	3.24E-06	7.52E-07	1.90E-06	9.13E-08	2.74E-06	1.86E-07	3.38E-07	2.99E-08	5.54E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
1762	566047.6	4222232	1.4E-06	1.71E-06	8.99E-08	3.19E-06	7.40E-07	1.87E-06	8.99E-08	2.70E-06	1.83E-07	3.33E-07	2.94E-08	5.46E-07	1.42E-07	1.85E-07	1.34E-08	3.41E-07
1763	566067.7	4222279	1.41E-06	1.72E-06	9.08E-08	3.22E-06	7.48E-07	1.89E-06	9.08E-08	2.73E-06	1.85E-07	3.37E-07	2.97E-08	5.51E-07	1.43E-07	1.87E-07	1.36E-08	3.44E-07
1764	566067.7	4222269	1.39E-06	1.7E-06	8.96E-08	3.18E-06	7.38E-07	1.86E-06	8.96E-08	2.69E-06	1.83E-07	3.32E-07	2.93E-08	5.45E-07	1.42E-07	1.85E-07	1.34E-08	3.40E-07
1765	566067.6	4222260	1.37E-06	1.68E-06	8.85E-08	3.14E-06	7.29E-07	1.84E-06	8.85E-08	2.66E-06	1.81E-07	3.28E-07	2.89E-08	5.37E-07	1.40E-07	1.83E-07	1.32E-08	3.35E-07
1766	566067.6	4222250	1.36E-06	1.66E-06	8.72E-08	3.10E-06	7.19E-07	1.81E-06	8.72E-08	2.62E-06	1.78E-07	3.23E-07	2.85E-08	5.30E-07	1.38E-07	1.80E-07	1.30E-08	3.31E-07
1767	566087.7	4222279	1.33E-06	1.62E-06	8.55E-08	3.04E-06	7.04E-07	1.78E-06	8.55E-08	2.57E-06	1.74E-07	3.17E-07	2.80E-08	5.20E-07	1.35E-07	1.77E-07	1.28E-08	3.24E-07
1768	566087.6	4222241	1.26E-06	1.54E-06	8.10E-08	2.88E-06	6.67E-07	1.68E-06	8.10E-08	2.43E-06	1.65E-07	3.00E-07	2.65E-08	4.92E-07	1.28E-07	1.67E-07	1.21E-08	3.07E-07
1769	566087.6	4222231	1.24E-06	1.51E-06	7.98E-08	2.83E-06	6.57E-07	1.66E-06	7.98E-08	2.40E-06	1.63E-07	2.96E-07	2.61E-08	4.84E-07	1.26E-07	1.65E-07	1.19E-08	3.02E-07
1770	566107.7	4222269	1.24E-06	1.52E-06	7.99E-08	2.84E-06	6.58E-07	1.66E-06	7.99E-08	2.40E-06	1.63E-07	2.96E-07	2.62E-08	4.86E-07	1.26E-07	1.65E-07	1.19E-08	3.03E-07
1771	566107.6	4222260	1.23E-06	1.5E-06	7.89E-08	2.80E-06	6.50E-07	1.64E-06	7.89E-08	2.37E-06	1.61E-07	2.92E-07	2.58E-08	4.79E-07	1.25E-07	1.63E-07	1.18E-08	2.99E-07
1772	566107.6	4222250	1.21E-06	1.48E-06	7.78E-08	2.76E-06	6.41E-07	1.62E-06	7.78E-08	2.34E-06	1.59E-07	2.88E-07	2.55E-08	4.73E-07	1.23E-07	1.61E-07	1.16E-08	2.95E-07
1773	566107.6	4222241	1.19E-06	1.46E-06	7.67E-08	2.72E-06	6.32E-07	1.60E-06	7.67E-08	2.30E-06	1.56E-07	2.84E-07	2.51E-08	4.66E-07	1.21E-07	1.58E-07	1.14E-08	2.91E-07
1774	566107.6	4222231	1.17E-06	1.43E-06	7.56E-08	2.68E-06	6.22E-07	1.57E-06	7.56E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.59E-07	1.19E-07	1.56E-07	1.13E-08	2.87E-07
1775	565574.7	4222217	8.03E-06	9.81E-06	5.17E-07	1.84E-05	4.26E-06	1.08E-05	5.17E-07	1.55E-05	1.05E-06	1.92E-06	1.69E-07	3.14E-06	8.16E-07	1.07E-06	7.72E-08	1.96E-06
1776	565576.2	4222197	6.61E-06	8.07E-06	4.25E-07	1.51E-05	3.50E-06	8.85E-06	4.25E-07	1.28E-05	8.68E-07	1.58E-06	1.39E-07	2.58E-06	6.72E-07	8.78E-07	6.35E-08	1.61E-06
1777	565579.9	4222206	7.05E-06	8.6E-06	4.53E-07	1.61E-05	3.74E-06	9.43E-06	4.53E-07	1.36E-05	9.25E-07	1.68E-06	1.48E-07	2.75E-06	7.16E-07	9.36E-07	6.77E-08	1.72E-06
1778	565583.7	4222215	7.47E-06	9.12E-06	4.81E-07	1.71E-05	3.96E-06	1.00E-05	4.81E-07	1.44E-05	9.81E-07	1.78E-06	1.57E-07	2.92E-06	7.59E-07	9.93E-07	7.18E-08	1.82E-06
1779	565587.4	4222224	7.89E-06	9.63E-06	5.08E-07	1.80E-05	4.18E-06	1.06E-05	5.08E-07	1.53E-05	1.04E-06	1.88E-06	1.66E-07	3.08E-06	8.02E-07	1.05E-06	7.58E-08	1.93E-06
1780	565575.6	4222172	5.25E-06	6.41E-06	3.38E-07	1.20E-05	2.78E-06	7.03E-06	3.38E-07	1.01E-05	6.89E-07	1.25E-06	1.11E-07	2.05E-06	5.33E-07	6.97E-07	5.04E-08	1.28E-06
1781	565579.2	4222181	5.61E-06	6.85E-06	3.61E-07	1.28E-05	2.97E-06	7.51E-06	3.61E-07	1.08E-05	7.37E-07	1.34E-06	1.18E-07	2.19E-06	5.70E-07	7.45E-07	5.39E-08	1.37E-06
1782	565582.8	4222189	5.98E-06	7.3E-06	3.85E-07	1.37E-05	3.17E-06	8.01E-06	3.85E-07	1.16E-05	7.85E-07	1.43E-06	1.26E-07	2.34E-06	6.08E-07	7.95E-07	5.75E-08	1.46E-06
1783	565586.5	4222198	6.35E-06	7.76E-06	4.09E-07	1.45E-05	3.37E-06	8.51E-06	4.09E-07	1.23E-05	8.35E-07	1.52E-06	1.34E-07	2.48E-06	6.46E-07	8.44E-07	6.11E-08	1.55E-06
1784	565590.1	4222207	6.72E-06	8.21E-06	4.33E-07	1.54E-05	3.57E-06	9.00E-06	4.33E-07	1.30E-05	8.83E-07	1.60E-06	1.42E-07	2.63E-06	6.83E-07	8.93E-07	6.46E-08	1.64E-06
1785	565593.7	4222215	7.08E-06	8.65E-06	4.56E-07	1.62E-05	3.76E-06	9.48E-06	4.56E-07	1.37E-05	9.30E-07	1.69E-06	1.49E-07	2.77E-06	7.20E-07	9.41E-07	6.81E-08	1.73E-06
1786	565597.3	4222224	7.43E-06	9.08E-06	4.78E-07	1.70E-05	3.94E-06	9.95E-06	4.78E-07	1.44E-05	9.76E-07	1.77E-06	1.56E-07	2.91E-06	7.55E-07	9.87E-07	7.14E-08	1.81E-06
1787	565582.5	4222165	4.82E-06	5.89E-06	3.10E-07	1.10E-05	2.56E-06	6.46E-06	3.10E-07	9.32E-06	6.33E-07	1.15E-06	1.02E-07	1.89E-06	4.90E-07	6.41E-07	4.63E-08	1.18E-06
1788	565586	4222173	5.13E-06	6.27E-06	3.30E-07	1.17E-05	2.72E-06	6.87E-06	3.30E-07	9.93E-06	6.74E-07	1.22E-06	1.08E-07	2.01E-06	5.22E-07	6.82E-07	4.93E-08	1.25E-06
1789	565589.5	4222182	5.45E-06	6.66E-06	3.51E-07	1.25E-05	2.89E-06	7.30E-06	3.51E-07	1.05E-05	7.16E-07	1.30E-06	1.15E-07	2.13E-06	5.54E-07	7.24E-07	5.24E-08	1.33E-06
1790	565593.1	4222190	5.77E-06	7.05E-06	3.72E-07	1.32E-05	3.06E-06	7.73E-06	3.72E-07	1.12E-05	7.58E-07	1.38E-06	1.22E-07	2.26E-06	5.87E-07	7.67E-07	5.55E-08	1.41E-06
1791	565596.6	4222199	6.09E-06	7.44E-06	3.92E-07	1.39E-05	3.23E-06	8.16E-06	3.92E-07	1.18E-05	8.00E-07	1.45E-06	1.28E-07	2.38E-06	6.19E-07	8.10E-07	5.86E-08	1.49E-06
1792	565600.2	4222207	6.41E-06	7.83E-06	4.13E-07	1.47E-05	3.40E-06	8.58E-06	4.13E-07	1.24E-05	8.42E-07	1.53E-06	1.35E-07	2.51E-06	6.51E-07	8.52E-07	6.16E-08	1.56E-06
1793	565603.7	4222216	6.72E-06	8.2E-06	4.32E-07	1.54E-05	3.56E-06	8.99E-06	4.32E-07	1.30E-05	8.82E-07	1.60E-06	1.41E-07	2.63E-06	6.82E-07	8.92E-07	6.45E-08	1.64E-06
1794	565607.2	4222224	7.01E-06	8.56E-06	4.51E-07	1.60E-05	3.71E-06	9.38E-06	4.51E-07	1.35E-05	9.20E-07	1.67E-06	1.48E-07	2.74E-06	7.12E-07	9.31E-07	6.73E-08	1.71E-06
1795	565577.5	4222146	4.15E-06	5.07E-06	2.67E-07	9.50E-06	2.20E-06	5.56E-06	2.67E-07	8.03E-06	5.46E-07	9.91E-07	8.75E-08	1.62E-06	4.22E-07	5.52E-07	3.99E-08	1.01E-06
1796	565589.3	4222158	4.45E-06	5.44E-06	2.87E-07	1.02E-05	2.36E-06	5.96E-06	2.87E-07	8.61E-06	5.85E-07	1.06E-06	9.38E-08	1.74E-06	4.53E-07	5.92E-07	4.28E-08	1.09E-06
1797	565592.8	4222166	4.72E-06	5.77E-06	3.04E-07	1.08E-05	2.50E-06	6.33E-06	3.04E-07	9.13E-06	6.20E-07	1.13E-06	9.95E-08	1.85E-06	4.80E-07	6.28E-07	4.54E-08	1.15E-06
1798	565599.8	4222183	5.28E-06	6.45E-06	3.40E-07	1.21E-05	2.80E-06	7.07E-06	3.40E-07	1.02E-05	6.93E-07	1.26E-06	1.11E-07	2.06E-06	5.37E-07	7.01E-07	5.07E-08	1.29E-06
1799	565603.2	4222191	5.56E-06	6.79E-06	3.58E-07	1.27E-05	2.95E-06	7.45E-06	3.58E-07	1.08E-05	7.30E-07	1.33E-06	1.17E-07	2.17E-06	5.65E-07	7.39E-07	5.34E-08	1.36E-06
1800	565610.2	4222208	6.11E-06	7.46E-06	3.93E-07	1.40E-05	3.24E-06	8.18E-06	3.93E-07	1.18E-05	8.02E-07	1.46E-06	1.29E-07	2.39E-06	6.21E-07	8.12E-07	5.87E-08	1.49E-06
1801	565583.7	4222139	3.86E-06	4.72E-06	2.49E-07	8.83E-06	2.05E-06	5.17E-06	2.49E-07	7.47E-06	5.07E-07	9.22E-07	8.14E-08	1.51E-06	3.93E-07	5.13E-07	3.71E-08	9.43E-07
1802	565596.6	4222151	4.16E-06	5.08E-06	2.67E-07	9.50E-06	2.20E-06	5.56E-06	2.67E-07	8.04E-06	5.46E-07	9.92E-07	8.75E-08	1.62E-06	4.22E-07	5.52E-07	3.99E-08	1.01E-06
1803	565600.3	4222160	4.42E-06	5.39E-06	2.84E-07	1.01E-05	2.34E-06	5.91E-06	2.84E-07	8.54E-06	5.80E-07	1.05E-06	9.30E-08	1.73E-06	4.49E-07	5.87E-07	4.24E-08	1.08E-06
1804	565604.1	4222169	4.68E-06	5.72E-06	3.01E-07	1.07E-05	2.48E-06	6.27E-06	3.01E-07	9.06E-06	6.15E-07	1.12E-06	9.86E-08	1.83E-06	4.76E-07	6.22E-07	4.50E-08	1.14E-06
1805	565607.9	4222178	4.95E-06	6.05E-06	3.19E-07	1.13E-05	2.63E-06	6.63E-06	3.19E-07	9.58E-06	6.51E-07	1.18E-06	1.04E-07	1.94E-06	5.04E-07	6.58E-07	4.76E-08	1.21E-06
1806	565611.6	4222187	5.23E-06	6.38E-06	3.36E-07	1.19E-05	2.77E-06	7.00E-06	3.36E-07	1.01E-05	6.86E-07	1.25E-06	1.10E-07	2.04E-06	5.31E-07	6.94E-07	5.02E-08	1.28E-06
1807	565626.7	4222224	6.23E-06	7.61E-06	4.01E-07	1.42E-05	3.30E-06	8.34E-06	4.01E-07	1.20E-05	8.18E-07	1.49E-06	1.31E-07	2.44E-06	6.33E-07	8.28E-07	5.98E-08	1.52E-06
1808	565582	4222128	3.56E-06	4.35E-06	2.29E-07	8.15E-06	1.89E-06	4.77E-06	2.29E-07	6.89E-06	4.68E-07	8.50E-07	7.51E-08	1.39E-06	3.62E-07	4.73E-07	3.42E-08	8.70E-07
1809	565590.9	4222132	3.61E-06	4.41E-06	2.32E-07	8.25E-06	1.91E-06	4.83E-06	2.32E-07	6.98E-06	4.74E-07	8.61E-07	7.60E-08	1.41E-06	3.67E-07	4.80E-07	3.47E-08	8.81E-07
1810	565603.4	4222144	3.87E-06	4.72E-06	2.49E-07	8.84E-06	2.05E-06	5.18E-06	2.49E-07	7.48E-06	5.08E-07	9.23E-07	8.14E-08	1.51E-06	3.93E-07	5.14E-07	3.72E-08	9.44E-07
1811	565607.1	4222153	4.09E-06	5E-06	2.64E-07	9.36E-06	2.17E-06	5.48E-06	2.64E-07	7.92E-06	5.38E-07	9.77E-07	8.62E-08	1.60E-06	4.16E-07	5.44E-07	3.93E-08	9.99E-07
1812	565610.8	4222162	4.33E-06	5.29E-06	2.79E-07	9.89E-06	2.30E-06	5.80E-06	2.79E-07	8.37E-06	5.68E-07	1.03E-06	9.12E-08	1.69E-06	4.40E-07	5.75E-07	4.16E-08	1.06E-06
1813	565614.5	4222171	4.57E-06	5.58E-06	2.94E-07	1.04E-05	2.42E-06	6.11E-06	2.94E-07	8.83E-06	6.00E-07	1.09E-06	9.62E-08	1.79E-06	4.64E-07	6.07E-07	4.39E-08	1.11E-06
1814	565629.2	4222206	5.49E-06	6.71E-06	3.54E-07	1.26E-05	2.91E-06	7.35E-06	3.54E-07	1.06E-05	7.21E-07	1.31E-06	1.16E-07	2.15E-06	5.58E-07	7.30E-07	5.28E-08	1.34E-06
1815	565632.9	4222215	5.71E-06	6.97E-06	3.67E-07	1.30E-05	3.03E-06	7.64E-06	3.67E-07	1.10E-05	7.49E-07	1.36E-06	1.20E-07	2.23E-06	5.80E-07	7.58E-07	5.48E-08	1.39E-06
1816	565636.6	4222224	5.91E-06	7.21E-06	3.80E-07	1.35E-05	3.13E-06	7.91E-06	3.80E-07	1.14E-05	7.76E-07	1.41E-06	1.24E-07	2.31E-06	6.00E-07	7.85E-07	5.68E-08	1.44E-06
1817	565580.6	4222118	3.29E-06	4.02E-06	2.12E-07	7.53E-06	1.75E-06	4.41E-06	2.12E-07	6.37E-06	4.32E-07	7.86E-07	6.94E-08	1.29E-06	3.35E-07	4.37E-07	3.16E-08	8.04E-07
1818	565589.3	4222121	3.34E-06	4.08E-06	2.15E-07	7.64E-06	1.77E-06	4.47E-06	2.15E-07	6.46E-06	4.39E-07	7.97E-07	7.04E-08	1.31E-06	3.40E-07	4.44E-07	3.21E-08	8.15E-07
1819	565598	4222125	3.38E-06	4.13E-06	2.18E-07	7.73E-06	1.79E-06	4.53E-06	2.18E-07	6.54E-06	4.44E-07	8.07E-07	7.12E-08	1.32E-06	3.44E-07	4.49E-07	3.25E-08	8.25E-07
1820	565610.3	4222137	3.61E-06	4.41E-06	2.32E-07	8.25E-06	1.91E-06	4.83E-06	2.32E-07	6.98E-06	4.74E-07	8.61E-07	7.60E-08	1.41E-06	3.67E-07	4.79E-07	3.47E-08	8.81E-07
1821	565613.9	4222146	3.81E-06	4.66E-06	2.45E-07	8.71E-06	2.02E-06	5.10E-06	2.45E-07	7.37E-06	5.01E-07	9.09E-07	8.03E-08	1.49E-06	3.87E-07	5.06E-07	3.66E-08	9.30E-07
1822	565632	4222189	4.85E-06	5.93E-06	3.12E-07	1.11E-05	2.57E-06	6.50E-06	3.12E-07	9.39E-06	6.37E-07	1.16E-06	1.02E-07	1.90E-06	4.93E-07	6.45E-07	4.66E-08	1.18E-06
1823	565635.7	4222198	5.06E-06	6.18E-06	3.25E-07	1.16E-05	2.68E-06	6.77E-06	3.25E-07	9.78E-06	6.64E-07	1.21E-06	1.07E-07	1.98E-06	5.14E-07	6.72E-07	4.86E-08	1.23E-06
1824	565639.3	4222206	5.25E-06	6.41E-06	3.38E-07	1.20E-05	2.78E-06	7.03E-06	3.38E-07	1.02E-05	6.90E-07	1.25E-06	1.11E-07	2.05E-06	5.34E-07	6.98E-07	5.05E-08	1.28E-06
1825	565642.9	4222215	5.44E-06	6.64E-06	3.50E-07	1.24E-05	2.88E-06	7.28E-06	3.50E-07	1.05E-05	7.14E-07	1.30E-06	1.14E-07	2.13E-06	5.52E-07	7.22E-07	5.22E-08	1.33E-06
1826	565646.5	4222224	5.61E-06	6.85E-06	3.61E-07	1.28E-05	2.97E-06	7.51E-06	3.61E-07	1.08E-05	7.37E-07	1.34E-06	1.18E-07	2.19E-06	5.70E-07	7.45E-07	5.39E-08	1.37E-06
1827	565587.9	4222111	3.1E-06	3.78E-06	1.99E-07	7.08E-06	1.64E-06	4.15E-06	1.99E-07	5.99E-06	4.07E-07	7.39E-07	6.52E-08	1.21E-06	3.15E-07	4.12E-07	2.98E-08	7.56E-07
1828	565596.5	4222114	3.14E-06	3.84E-06	2.02E-07	7.18E-06	1.66E-06	4.20E-06	2.02E-07	6.07E-06	4.12E-07	7.49E-07	6.61E-08	1.23E-06	3.19E-07	4.17E-07	3.02E-08	7.66E-07
1829	565605	4222118	3.18E-06	3.88E-06	2.04E-07	7.26E-06	1.68E-06	4.25E-06	2.04E-07	6.14E-06	4.17E-07	7.58E-07	6.69E-08	1.24E-06	3.23E-07	4.22E-07	3.05E-08	7.75E-07
1830	565617.2	4222130	3.38E-06	4.13E-06	2.17E-07	7.72E-06	1.79E-06	4.52E-06	2.17E-07	6.53E-06	4.44E-07	8.06E-07	7.11E-08	1.32E-06	3.43E-07	4.49E-07	3.25E-08	8.25E-07
1831	565635	4222173	4.3E-06	5.26E-06	2.77E-07	9.84E-06	2.28E-06	5.76E-06	2.77E-07	8.32E-06	5.65E-07	1.03E-06	9.07E-08	1.68E-06	4.37E-07	5.72E-07	4.14E-08	1.05E-06
1832	565638.6	4222181	4.49E-06	5.49E-06	2.89E-07	1.03E-05	2.38E-06	6.01E-06	2.89E-07	8.68E-06	5.90E-07	1.07E-06	9.46E-08	1.76E-06	4.56E-07	5.97E-07	4.32E-08	1.10E-06
1833	565642.2	4222190	4.67E-06	5.71E-06	3.01E-07	1.07E-05	2.48E-06	6.26E-06	3.01E-07	9.04E-06	6.14E-07	1.12E-06	9.85E-08	1.83E-06	4.75E-07	6.21E-07	4.49E-08	1.14E-06
1834	565645.7	4222198	4.85E-06	5.93E-06	3.12E-07	1.11E-05	2.57E-06	6.50E-06	3.12E-07	9.38E-06	6.37E-07	1.16E-06	1.02E-07	1.90E-06	4.93E-07	6.45E-07	4.66E-08	1.18E-06
1835	565649.3	4222207	5.02E-06	6.13E-06	3.23E-07	1.15E-05	2.66E-06	6.72E-06	3.23E-07	9.71E-06	6.60E-07	1.20E-06	1.06E-07	1.96E-06	5.10E-07	6.67E-07	4.83E-08	1.23E-06
1836	565652.9	4222215	5.18E-06	6.33E-06	3.34E-07	1.18E-05	2.75E-06	6.94E-06	3.34E-07	1.00E-05	6.81E-07	1.24E-06	1.09E-07	2.03E-06	5.27E-07	6.89E-07	4.98E-08	1.27E-06
1837	565656.4	4222224	5.33E-06	6.51E-06	3.43E-07	1.22E-05	2.83E-06	7.14E-06	3.43E-07	1.03E-05	7.01E-07	1.27E-06	1.12E-07	2.09E-06	5.42E-07	7.09E-07	5.13E-08	1.30E-06
1838	565593.2	4222103	2.91E-06	3.56E-06	1.87E-07	6.65E-06	1.54E-06	3.90E-06	1.87E-07	5.63E-06	3.82E-07	6.95E-07	6.13E-08	1.14E-06	2.96E-07	3.87E-07	2.80E-08	7.11E-07
1839	565602.4	4222107	2.95E-06	3.61E-06	1.90E-07	6.75E-06	1.57E-06	3.95E-06	1.90E-07	5.71E-06	3.88E-07	7.04E-07	6.22E-08	1.15E-06	3.00E-07	3.92E-07	2.84E-08	7.21E-07
1840	565611.5	4222111	2.99E-06	3.65E-06	1.92E-07	6.83E-06	1.58E-06	4.00E-06	1.92E-07	5.78E-06	3.92E-07	7.13E-07	6.29E-08	1.17E-06	3.04E-07	3.97E-07	2.87E-08	7.29E-07
1841	565639.5	4222160	3.9E-06	4.76E-06	2.51E-07	8.91E-06	2.07E-06	5.22E-06	2.51E-07	7.54E-06	5.12E-07	9.30E-07	8.21E-08	1.52E-06	3.96E-07	5.18E-07	3.75E-08	9.52E-07
1842	565643.3	4222169	4.08E-06	4.99E-06	2.63E-07	9.33E-06	2.16E-06	5.47E-06	2.63E-07	7.89E-06	5.36E-07	9.74E-07	8.60E-08	1.60E-06	4.15E-07	5.42E-07	3.92E-08	9.96E-07
1843	565647.1	4222178	4.26E-06	5.21E-06	2.74E-07	9.74E-06	2.26E-06	5.71E-06	2.74E-07	8.24E-06	5.60E-07	1.02E-06	8.98E-08	1.67E-06	4.33E-07	5.66E-07	4.09E-08	1.04E-06
1844	565650.9	4222187	4.44E-06	5.42E-06	2.86E-07	1.01E-05	2.35E-06	5.94E-06	2.86E-07	8.58E-06	5.83E-07	1.06E-06	9.35E-08	1.73E-06	4.51E-07	5.89E-07	4.26E-08	1.08E-06
1845	565654.7	4222196	4.61E-06	5.63E-06	2.97E-07	1.05E-05	2.44E-06	6.17E-06	2.97E-07	8.91E-06	6.05E-07	1.10E-06	9.70E-08	1.80E-06	4.68E-07	6.12E-07	4.43E-08	1.12E-06
1846	565658.5	4222205	4.77E-06	5.83E-06	3.07E-07	1.09E-05	2.53E-06	6.39E-06	3.07E-07	9.23E-06	6.27E-07	1.14E-06	1.00E-07	1.87E-06	4.85E-07	6.34E-07	4.58E-08	1.16E-06
1847	565662.2	4222214	4.93E-06	6.02E-06	3.17E-07	1.13E-05	2.61E-06	6.60E-06	3.17E-07	9.52E-06	6.47E-07	1.18E-06	1.04E-07	1.93E-06	5.01E-07	6.54E-07	4.73E-08	1.20E-06
1848	565666	4222223	5.07E-06	6.19E-06	3.26E-07	1.16E-05	2.69E-06	6.79E-06	3.26E-07	9.80E-06	6.66E-07	1.21E-06	1.07E-07	1.98E-06	5.15E-07	6.73E-07	4.87E-08	1.24E-06
1849	565582.7	4222089	2.66E-06	3.25E-06	1.71E-07	6.09E-06	1.41E-06	3.57E-06	1.71E-07	5.15E-06	3.50E-07	6.35E-07	5.61E-08	1.04E-06	2.71E-07	3.54E-07	2.56E-08	6.50E-07
1850	565591.7	4222093	2.71E-06	3.31E-06	1.74E-07	6.19E-06	1.44E-06	3.63E-06	1.74E-07	5.24E-06	3.56E-07	6.46E-07	5.71E-08	1.06E-06	2.75E-07	3.60E-07	2.60E-08	6.61E-07
1851	565600.6	4222096	2.75E-06	3.36E-06	1.77E-07	6.29E-06	1.46E-06	3.68E-06	1.77E-07	5.32E-06	3.61E-07	6.56E-07	5.79E-08	1.08E-06	2.80E-07	3.65E-07	2.64E-08	6.71E-07
1852	565609.6	4222100	2.79E-06	3.4E-06	1.79E-07	6.37E-06	1.48E-06	3.73E-06	1.79E-07	5.39E-06	3.66E-07	6.65E-07	5.87E-08	1.09E-06	2.83E-07	3.70E-07	2.68E-08	6.80E-07
1853	565618.5	4222104	2.82E-06	3.44E-06	1.81E-07	6.44E-06	1.49E-06	3.77E-06	1.81E-07	5.45E-06	3.70E-07	6.73E-07	5.94E-08	1.10E-06	2.86E-07	3.74E-07	2.71E-08	6.88E-07
1854	565646.1	4222152	3.64E-06	4.44E-06	2.34E-07	8.31E-06	1.93E-06	4.87E-06	2.34E-07	7.03E-06	4.78E-07	8.68E-07	7.66E-08	1.42E-06	3.70E-07	4.83E-07	3.49E-08	8.88E-07
1855	565649.9	4222161	3.8E-06	4.64E-06	2.45E-07

1868	565649.1	4222136	3.25E-06	3.98E-06	2.09E-07	7.44E-06	1.73E-06	4.36E-06	2.09E-07	6.29E-06	4.27E-07	7.77E-07	6.85E-08	1.27E-06	3.31E-07	4.32E-07	3.13E-08	7.94E-07
1869	565656.5	4222153	3.55E-06	4.34E-06	2.29E-07	8.11E-06	1.88E-06	4.75E-06	2.29E-07	6.86E-06	4.66E-07	8.47E-07	7.48E-08	1.39E-06	3.61E-07	4.72E-07	3.41E-08	8.67E-07
1870	565660.1	4222162	3.7E-06	4.52E-06	2.38E-07	8.45E-06	1.96E-06	4.95E-06	2.38E-07	7.15E-06	4.86E-07	8.82E-07	7.79E-08	1.45E-06	3.76E-07	4.91E-07	3.55E-08	9.02E-07
1871	565663.8	4222171	3.84E-06	4.69E-06	2.47E-07	8.78E-06	2.04E-06	5.15E-06	2.47E-07	7.43E-06	5.05E-07	9.17E-07	8.09E-08	1.50E-06	3.91E-07	5.11E-07	3.69E-08	9.38E-07
1872	565667.5	4222180	3.98E-06	4.87E-06	2.56E-07	9.11E-06	2.11E-06	5.34E-06	2.56E-07	7.70E-06	5.23E-07	9.51E-07	8.39E-08	1.56E-06	4.05E-07	5.29E-07	3.83E-08	9.73E-07
1873	565671.1	4222188	4.12E-06	5.04E-06	2.65E-07	9.42E-06	2.19E-06	5.52E-06	2.65E-07	7.97E-06	5.41E-07	9.84E-07	8.68E-08	1.61E-06	4.19E-07	5.48E-07	3.96E-08	1.01E-06
1874	565674.8	4222197	4.26E-06	5.2E-06	2.74E-07	9.73E-06	2.26E-06	5.70E-06	2.74E-07	8.23E-06	5.59E-07	1.02E-06	8.97E-08	1.66E-06	4.33E-07	5.66E-07	4.09E-08	1.04E-06
1875	565678.5	4222206	4.38E-06	5.36E-06	2.82E-07	1.00E-05	2.32E-06	5.87E-06	2.82E-07	8.48E-06	5.76E-07	1.05E-06	9.23E-08	1.71E-06	4.46E-07	5.83E-07	4.21E-08	1.07E-06
1876	565682.2	4222215	4.5E-06	5.5E-06	2.90E-07	1.03E-05	2.39E-06	6.03E-06	2.90E-07	8.71E-06	5.91E-07	1.07E-06	9.49E-08	1.76E-06	4.58E-07	5.98E-07	4.33E-08	1.10E-06
1877	565685.8	4222224	4.61E-06	5.63E-06	2.97E-07	1.05E-05	2.45E-06	6.17E-06	2.97E-07	8.92E-06	6.06E-07	1.10E-06	9.71E-08	1.80E-06	4.69E-07	6.13E-07	4.43E-08	1.13E-06
1878	565589.2	4222072	2.36E-06	2.88E-06	1.52E-07	5.40E-06	1.25E-06	3.16E-06	1.52E-07	4.56E-06	3.10E-07	5.63E-07	4.97E-08	9.23E-07	2.40E-07	3.14E-07	2.27E-08	5.76E-07
1879	565597.9	4222076	2.4E-06	2.93E-06	1.55E-07	5.49E-06	1.27E-06	3.21E-06	1.55E-07	4.64E-06	3.15E-07	5.73E-07	5.06E-08	9.39E-07	2.44E-07	3.19E-07	2.31E-08	5.86E-07
1880	565606.6	4222079	2.44E-06	2.98E-06	1.57E-07	5.57E-06	1.29E-06	3.26E-06	1.57E-07	4.71E-06	3.20E-07	5.81E-07	5.13E-08	9.53E-07	2.48E-07	3.24E-07	2.34E-08	5.95E-07
1881	565615.3	4222083	2.47E-06	3.02E-06	1.59E-07	5.65E-06	1.31E-06	3.31E-06	1.59E-07	4.78E-06	3.24E-07	5.89E-07	5.20E-08	9.66E-07	2.51E-07	3.28E-07	2.37E-08	6.03E-07
1882	565645	4222102	2.67E-06	3.26E-06	1.72E-07	6.11E-06	1.42E-06	3.58E-06	1.72E-07	5.17E-06	3.51E-07	6.37E-07	5.63E-08	1.04E-06	2.71E-07	3.55E-07	2.57E-08	6.52E-07
1883	565648.6	4222111	2.8E-06	3.42E-06	1.80E-07	6.39E-06	1.48E-06	3.75E-06	1.80E-07	5.41E-06	3.67E-07	6.67E-07	5.89E-08	1.09E-06	2.84E-07	3.72E-07	2.69E-08	6.83E-07
1884	565652.2	4222119	2.93E-06	3.57E-06	1.88E-07	6.69E-06	1.55E-06	3.92E-06	1.88E-07	5.66E-06	3.84E-07	6.98E-07	6.16E-08	1.14E-06	2.97E-07	3.89E-07	2.81E-08	7.14E-07
1885	565655.9	4222128	3.06E-06	3.74E-06	1.97E-07	6.99E-06	1.62E-06	4.09E-06	1.97E-07	5.91E-06	4.02E-07	7.30E-07	6.44E-08	1.20E-06	3.11E-07	4.06E-07	2.94E-08	7.46E-07
1886	565659.5	4222137	3.19E-06	3.9E-06	2.05E-07	7.30E-06	1.69E-06	4.27E-06	2.05E-07	6.17E-06	4.19E-07	7.62E-07	6.72E-08	1.25E-06	3.24E-07	4.24E-07	3.07E-08	7.79E-07
1887	565670.4	4222163	3.59E-06	4.39E-06	2.31E-07	8.21E-06	1.91E-06	4.81E-06	2.31E-07	6.95E-06	4.72E-07	8.57E-07	7.57E-08	1.40E-06	3.65E-07	4.77E-07	3.45E-08	8.77E-07
1888	565674	4222172	3.72E-06	4.55E-06	2.40E-07	8.51E-06	1.97E-06	4.99E-06	2.40E-07	7.20E-06	4.89E-07	8.88E-07	7.84E-08	1.46E-06	3.78E-07	4.95E-07	3.58E-08	9.09E-07
1889	565677.6	4222180	3.85E-06	4.7E-06	2.48E-07	8.80E-06	2.04E-06	5.16E-06	2.48E-07	7.45E-06	5.06E-07	9.19E-07	8.11E-08	1.51E-06	3.91E-07	5.12E-07	3.70E-08	9.40E-07
1890	565681.2	4222189	3.98E-06	4.86E-06	2.56E-07	9.09E-06	2.11E-06	5.32E-06	2.56E-07	7.69E-06	5.22E-07	9.48E-07	8.37E-08	1.55E-06	4.04E-07	5.28E-07	3.82E-08	9.70E-07
1891	565684.8	4222198	4.09E-06	5E-06	2.64E-07	9.36E-06	2.17E-06	5.48E-06	2.64E-07	7.92E-06	5.38E-07	9.77E-07	8.62E-08	1.60E-06	4.16E-07	5.44E-07	3.93E-08	9.99E-07
1892	565688.5	4222206	4.21E-06	5.14E-06	2.71E-07	9.61E-06	2.23E-06	5.63E-06	2.71E-07	8.13E-06	5.52E-07	1.00E-06	8.86E-08	1.64E-06	4.27E-07	5.59E-07	4.04E-08	1.03E-06
1893	565692.1	4222215	4.31E-06	5.26E-06	2.77E-07	9.85E-06	2.29E-06	5.77E-06	2.77E-07	8.33E-06	5.66E-07	1.03E-06	9.08E-08	1.69E-06	4.38E-07	5.73E-07	4.14E-08	1.05E-06
1894	565695.7	4222224	4.41E-06	5.38E-06	2.84E-07	1.01E-05	2.34E-06	5.90E-06	2.84E-07	8.52E-06	5.79E-07	1.05E-06	9.28E-08	1.72E-06	4.48E-07	5.85E-07	4.23E-08	1.08E-06
1895	565593.5	4222064	2.23E-06	2.73E-06	1.44E-07	5.11E-06	1.18E-06	2.99E-06	1.44E-07	4.32E-06	2.93E-07	5.33E-07	4.71E-08	8.74E-07	2.27E-07	2.97E-07	2.15E-08	5.45E-07
1896	565602.6	4222068	2.27E-06	2.78E-06	1.46E-07	5.20E-06	1.21E-06	3.04E-06	1.46E-07	4.39E-06	2.99E-07	5.42E-07	4.79E-08	8.89E-07	2.31E-07	3.02E-07	2.18E-08	5.55E-07
1897	565611.8	4222071	2.31E-06	2.82E-06	1.49E-07	5.28E-06	1.22E-06	3.09E-06	1.49E-07	4.46E-06	3.03E-07	5.51E-07	4.86E-08	9.03E-07	2.35E-07	3.07E-07	2.22E-08	5.64E-07
1898	565652.1	4222096	2.54E-06	3.1E-06	1.63E-07	5.80E-06	1.34E-06	3.40E-06	1.63E-07	4.90E-06	3.33E-07	6.05E-07	5.34E-08	9.92E-07	2.58E-07	3.37E-07	2.44E-08	6.19E-07
1899	565655.9	4222105	2.66E-06	3.25E-06	1.71E-07	6.08E-06	1.41E-06	3.56E-06	1.71E-07	5.14E-06	3.49E-07	6.34E-07	5.60E-08	1.04E-06	2.70E-07	3.53E-07	2.55E-08	6.49E-07
1900	565659.7	4222114	2.78E-06	3.4E-06	1.79E-07	6.36E-06	1.48E-06	3.73E-06	1.79E-07	5.38E-06	3.66E-07	6.64E-07	5.86E-08	1.09E-06	2.83E-07	3.70E-07	2.67E-08	6.79E-07
1901	565663.5	4222123	2.91E-06	3.56E-06	1.87E-07	6.66E-06	1.54E-06	3.90E-06	1.87E-07	5.63E-06	3.82E-07	6.95E-07	6.13E-08	1.14E-06	2.96E-07	3.87E-07	2.80E-08	7.11E-07
1902	565667.3	4222132	3.04E-06	3.71E-06	1.96E-07	6.95E-06	1.61E-06	4.07E-06	1.96E-07	5.88E-06	3.99E-07	7.26E-07	6.40E-08	1.19E-06	3.09E-07	4.04E-07	2.92E-08	7.42E-07
1903	565671.1	4222141	3.17E-06	3.87E-06	2.04E-07	7.25E-06	1.68E-06	4.25E-06	2.04E-07	6.13E-06	4.16E-07	7.57E-07	6.68E-08	1.24E-06	3.22E-07	4.21E-07	3.05E-08	7.74E-07
1904	565682.6	4222169	3.56E-06	4.34E-06	2.29E-07	8.13E-06	1.89E-06	4.76E-06	2.29E-07	6.88E-06	4.67E-07	8.49E-07	7.49E-08	1.39E-06	3.62E-07	4.73E-07	3.42E-08	8.68E-07
1905	565686.4	4222178	3.68E-06	4.5E-06	2.37E-07	8.41E-06	1.95E-06	4.93E-06	2.37E-07	7.12E-06	4.83E-07	8.78E-07	7.75E-08	1.44E-06	3.74E-07	4.89E-07	3.54E-08	8.98E-07
1906	565690.2	4222187	3.8E-06	4.64E-06	2.45E-07	8.68E-06	2.01E-06	5.09E-06	2.45E-07	7.35E-06	4.99E-07	9.06E-07	8.00E-08	1.49E-06	3.86E-07	5.05E-07	3.65E-08	9.27E-07
1907	565694	4222196	3.91E-06	4.78E-06	2.52E-07	8.94E-06	2.07E-06	5.24E-06	2.52E-07	7.57E-06	5.14E-07	9.34E-07	8.24E-08	1.53E-06	3.98E-07	5.20E-07	3.76E-08	9.55E-07
1908	565697.8	4222205	4.02E-06	4.91E-06	2.59E-07	9.19E-06	2.13E-06	5.38E-06	2.59E-07	7.77E-06	5.28E-07	9.59E-07	8.47E-08	1.57E-06	4.08E-07	5.34E-07	3.86E-08	9.81E-07
1909	565701.6	4222214	4.12E-06	5.03E-06	2.65E-07	9.41E-06	2.18E-06	5.51E-06	2.65E-07	7.96E-06	5.41E-07	9.82E-07	8.67E-08	1.61E-06	4.18E-07	5.47E-07	3.96E-08	1.01E-06
1910	565705.4	4222223	4.21E-06	5.14E-06	2.71E-07	9.62E-06	2.23E-06	5.63E-06	2.71E-07	8.14E-06	5.53E-07	1.00E-06	8.86E-08	1.65E-06	4.28E-07	5.59E-07	4.04E-08	1.03E-06
1911	565592.2	4222054	2.1E-06	2.56E-06	1.35E-07	4.79E-06	1.11E-06	2.81E-06	1.35E-07	4.05E-06	2.75E-07	5.00E-07	4.41E-08	8.19E-07	2.13E-07	2.78E-07	2.01E-08	5.11E-07
1912	565601.2	4222057	2.13E-06	2.6E-06	1.37E-07	4.87E-06	1.13E-06	2.85E-06	1.37E-07	4.12E-06	2.80E-07	5.09E-07	4.49E-08	8.34E-07	2.17E-07	2.83E-07	2.05E-08	5.20E-07
1913	565610.2	4222061	2.17E-06	2.65E-06	1.39E-07	4.95E-06	1.15E-06	2.90E-06	1.39E-07	4.19E-06	2.85E-07	5.17E-07	4.56E-08	8.47E-07	2.20E-07	2.88E-07	2.08E-08	5.29E-07
1914	565659	4222088	2.41E-06	2.94E-06	1.55E-07	5.50E-06	1.28E-06	3.22E-06	1.55E-07	4.65E-06	3.16E-07	5.74E-07	5.07E-08	9.41E-07	2.44E-07	3.20E-07	2.31E-08	5.87E-07
1915	565662.8	4222097	2.52E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.87E-06	3.31E-07	6.00E-07	5.30E-08	9.84E-07	2.56E-07	3.34E-07	2.42E-08	6.14E-07
1916	565666.5	4222106	2.63E-06	3.21E-06	1.69E-07	6.01E-06	1.39E-06	3.52E-06	1.69E-07	5.09E-06	3.45E-07	6.28E-07	5.54E-08	1.03E-06	2.67E-07	3.49E-07	2.53E-08	6.42E-07
1917	565670.3	4222115	2.75E-06	3.35E-06	1.77E-07	6.28E-06	1.46E-06	3.68E-06	1.77E-07	5.31E-06	3.61E-07	6.55E-07	5.78E-08	1.07E-06	2.79E-07	3.65E-07	2.64E-08	6.70E-07
1918	565674	4222124	2.86E-06	3.5E-06	1.84E-07	6.55E-06	1.52E-06	3.84E-06	1.84E-07	5.54E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.81E-07	2.75E-08	6.99E-07
1919	565677.8	4222133	2.98E-06	3.64E-06	1.92E-07	6.82E-06	1.58E-06	3.99E-06	1.92E-07	5.77E-06	3.92E-07	7.12E-07	6.28E-08	1.17E-06	3.03E-07	3.96E-07	2.87E-08	7.28E-07
1920	565681.5	4222142	3.1E-06	3.79E-06	2.00E-07	7.09E-06	1.64E-06	4.15E-06	2.00E-07	6.00E-06	4.07E-07	7.40E-07	6.53E-08	1.21E-06	3.15E-07	4.12E-07	2.98E-08	7.57E-07
1921	565685.3	4222151	3.22E-06	3.93E-06	2.07E-07	7.36E-06	1.71E-06	4.31E-06	2.07E-07	6.23E-06	4.23E-07	7.69E-07	6.78E-08	1.26E-06	3.27E-07	4.28E-07	3.10E-08	7.86E-07
1922	565696.5	4222178	3.56E-06	4.35E-06	2.29E-07	8.14E-06	1.89E-06	4.77E-06	2.29E-07	6.89E-06	4.68E-07	8.50E-07	7.50E-08	1.39E-06	3.62E-07	4.73E-07	3.42E-08	8.70E-07
1923	565700.3	4222187	3.67E-06	4.48E-06	2.36E-07	8.39E-06	1.95E-06	4.91E-06	2.36E-07	7.09E-06	4.82E-07	8.75E-07	7.73E-08	1.43E-06	3.73E-07	4.87E-07	3.53E-08	8.96E-07
1924	565704	4222196	3.77E-06	4.6E-06	2.43E-07	8.62E-06	2.00E-06	5.05E-06	2.43E-07	7.29E-06	4.95E-07	8.99E-07	7.94E-08	1.47E-06	3.83E-07	5.01E-07	3.62E-08	9.20E-07
1925	565707.8	4222205	3.86E-06	4.72E-06	2.49E-07	8.83E-06	2.05E-06	5.17E-06	2.49E-07	7.47E-06	5.07E-07	9.22E-07	8.14E-08	1.51E-06	3.93E-07	5.13E-07	3.71E-08	9.43E-07
1926	565711.5	4222214	3.95E-06	4.82E-06	2.54E-07	9.03E-06	2.09E-06	5.29E-06	2.54E-07	7.64E-06	5.19E-07	9.42E-07	8.32E-08	1.54E-06	4.01E-07	5.25E-07	3.79E-08	9.64E-07
1927	565715.3	4222223	4.03E-06	4.92E-06	2.59E-07	9.21E-06	2.14E-06	5.39E-06	2.59E-07	7.79E-06	5.29E-07	9.61E-07	8.48E-08	1.57E-06	4.09E-07	5.35E-07	3.87E-08	9.83E-07
1928	565591	4222043	1.97E-06	2.4E-06	1.27E-07	4.50E-06	1.04E-06	2.64E-06	1.27E-07	3.81E-06	2.59E-07	4.70E-07	4.15E-08	7.70E-07	2.00E-07	2.62E-07	1.89E-08	4.80E-07
1929	565599.9	4222047	2E-06	2.45E-06	1.29E-07	4.58E-06	1.06E-06	2.68E-06	1.29E-07	3.87E-06	2.63E-07	4.78E-07	4.22E-08	7.83E-07	2.04E-07	2.66E-07	1.92E-08	4.89E-07
1930	565608.8	4222051	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.94E-06	2.67E-07	4.86E-07	4.29E-08	7.96E-07	2.07E-07	2.71E-07	1.96E-08	4.97E-07
1931	565617.7	4222054	2.07E-06	2.53E-06	1.33E-07	4.73E-06	1.10E-06	2.77E-06	1.33E-07	4.00E-06	2.72E-07	4.93E-07	4.36E-08	8.09E-07	2.10E-07	2.75E-07	1.99E-08	5.05E-07
1932	565665.9	4222081	2.29E-06	2.79E-06	1.47E-07	5.22E-06	1.21E-06	3.06E-06	1.47E-07	4.42E-06	3.00E-07	5.45E-07	4.81E-08	8.94E-07	2.32E-07	3.04E-07	2.20E-08	5.58E-07
1933	565669.6	4222090	2.39E-06	2.92E-06	1.54E-07	5.46E-06	1.27E-06	3.20E-06	1.54E-07	4.61E-06	3.13E-07	5.69E-07	5.03E-08	9.33E-07	2.43E-07	3.17E-07	2.29E-08	5.83E-07
1934	565673.3	4222099	2.49E-06	3.04E-06	1.60E-07	5.69E-06	1.32E-06	3.33E-06	1.60E-07	4.82E-06	3.27E-07	5.94E-07	5.25E-08	9.74E-07	2.53E-07	3.31E-07	2.39E-08	6.08E-07
1935	565677	4222108	2.6E-06	3.17E-06	1.67E-07	5.94E-06	1.38E-06	3.48E-06	1.67E-07	5.02E-06	3.41E-07	6.20E-07	5.47E-08	1.02E-06	2.64E-07	3.45E-07	2.49E-08	6.34E-07
1936	565680.7	4222117	2.7E-06	3.3E-06	1.74E-07	6.18E-06	1.43E-06	3.62E-06	1.74E-07	5.23E-06	3.55E-07	6.45E-07	5.70E-08	1.06E-06	2.75E-07	3.59E-07	2.60E-08	6.60E-07
1937	565684.4	4222126	2.81E-06	3.44E-06	1.81E-07	6.43E-06	1.49E-06	3.77E-06	1.81E-07	5.44E-06	3.69E-07	6.71E-07	5.92E-08	1.10E-06	2.86E-07	3.74E-07	2.70E-08	6.87E-07
1938	565688.1	4222135	2.92E-06	3.57E-06	1.88E-07	6.68E-06	1.55E-06	3.91E-06	1.88E-07	5.65E-06	3.84E-07	6.97E-07	6.15E-08	1.14E-06	2.97E-07	3.88E-07	2.81E-08	7.13E-07
1939	565691.8	4222144	3.03E-06	3.7E-06	1.95E-07	6.93E-06	1.61E-06	4.06E-06	1.95E-07	5.86E-06	3.98E-07	7.23E-07	6.38E-08	1.19E-06	3.08E-07	4.03E-07	2.91E-08	7.40E-07
1940	565695.5	4222152	3.14E-06	3.84E-06	2.02E-07	7.18E-06	1.66E-06	4.20E-06	2.02E-07	6.07E-06	4.12E-07	7.49E-07	6.61E-08	1.23E-06	3.19E-07	4.17E-07	3.02E-08	7.66E-07
1941	565699.2	4222161	3.25E-06	3.96E-06	2.09E-07	7.42E-06	1.72E-06	4.35E-06	2.09E-07	6.28E-06	4.26E-07	7.75E-07	6.84E-08	1.27E-06	3.30E-07	4.31E-07	3.12E-08	7.92E-07
1942	565714	4222197	3.63E-06	4.43E-06	2.34E-07	8.30E-06	1.92E-06	4.86E-06	2.34E-07	7.02E-06	4.77E-07	8.66E-07	7.65E-08	1.42E-06	3.69E-07	4.82E-07	3.49E-08	8.86E-07
1943	565717.7	4222206	3.71E-06	4.54E-06	2.39E-07	8.49E-06	1.97E-06	4.97E-06	2.39E-07	7.18E-06	4.88E-07	8.86E-07	7.82E-08	1.45E-06	3.77E-07	4.93E-07	3.57E-08	9.06E-07
1944	565721.4	4222215	3.79E-06	4.63E-06	2.44E-07	8.66E-06	2.01E-06	5.08E-06	2.44E-07	7.33E-06	4.98E-07	9.04E-07	7.98E-08	1.48E-06	3.85E-07	5.04E-07	3.64E-08	9.25E-07
1945	565725.2	4222223	3.86E-06	4.71E-06	2.48E-07	8.82E-06	2.05E-06	5.17E-06	2.48E-07	7.46E-06	5.07E-07	9.21E-07	8.13E-08	1.51E-06	3.92E-07	5.13E-07	3.71E-08	9.42E-07
1946	565598.8	4222037	1.89E-06	2.3E-06	1.21E-07	4.31E-06	1.00E-06	2.52E-06	1.21E-07	3.65E-06	2.48E-07	4.50E-07	3.97E-08	7.37E-07	1.92E-07	2.51E-07	1.81E-08	4.60E-07
1947	565607.6	4222040	1.92E-06	2.34E-06	1.23E-07	4.38E-06	1.02E-06	2.57E-06	1.23E-07	3.71E-06	2.52E-07	4.57E-07	4.04E-08	7.50E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
1948	565616.4	4222044	1.95E-06	2.38E-06	1.25E-07	4.45E-06	1.03E-06	2.61E-06	1.25E-07	3.77E-06	2.56E-07	4.65E-07	4.10E-08	7.62E-07	1.98E-07	2.59E-07	1.87E-08	4.75E-07
1949	565625.2	4222047	1.98E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.82E-06	2.59E-07	4.71E-07	4.16E-08	7.72E-07	2.01E-07	2.62E-07	1.90E-08	4.82E-07
1950	565634	4222051	2E-06	2.44E-06	1.29E-07	4.58E-06	1.06E-06	2.68E-06	1.29E-07	3.87E-06	2.63E-07	4.78E-07	4.22E-08	7.83E-07	2.03E-07	2.66E-07	1.92E-08	4.89E-07
1951	565642.8	4222055	2.03E-06	2.48E-06	1.30E-07	4.63E-06	1.07E-06	2.71E-06	1.30E-07	3.92E-06	2.66E-07	4.84E-07	4.27E-08	7.92E-07	2.06E-07	2.69E-07	1.95E-08	4.95E-07
1952	565651.6	4222058	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.89E-07	4.31E-08	8.01E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
1953	565660.4	4222062	2.07E-06	2.53E-06	1.33E-07	4.73E-06	1.10E-06	2.77E-06	1.33E-07	4.00E-06	2.72E-07	4.93E-07	4.36E-08	8.08E-07	2.10E-07	2.75E-07	1.99E-08	5.05E-07
1954	565676.5	4222083	2.27E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.04E-06	1.46E-07	4.38E-06	2.98E-07	5.41E-07	4.78E-08	8.87E-07	2.30E-07	3.01E-07	2.18E-08	5.53E-07
1955	565680.1	4222092	2.36E-06	2.89E-06	1.52E-07	5.40E-06	1.25E-06	3.16E-06	1.52E-07	4.57E-06	3.10E-07	5.64E-07	4.98E-08	9.24E-07	2.40E-07	3.14E-07	2.27E-08	5.77E-07
1956	565683.8	4222101	2.46E-06	3E-06	1.58E-07	5.62E-06	1.30E-06	3.29E-06	1.58E-07	4.76E-06	3.23E-07	5.87E-07	5.18E-08	9.62E-07	2.50E-07	3.27E-07	2.36E-08	6.00E-07
1957	565687.4	4222109	2.56E-06	3.12E-06	1.65E-07	5.85E-06	1.36E-06	3.43E-06	1.65E-07	4.95E-06	3.36E-07	6.10E-07	5.39E-08	1.00E-06	2.60E-07	3.40E-07	2.46E-08	6.24E-07
1958	565691.1	4222118	2.66E-06	3.25E-06	1.71E-07	6.08E-06	1.41E-06	3.56E-06	1.71E-07	5.14E-06	3.49E-07	6.34E-07	5.60E-08	1.04E-06	2.70E-07	3.53E-07	2.55E-08	6.49E-07
1959	565694.8	4222127	2.76E-06	3.37E-06	1.78E-07	6.30E-06	1.46E-06	3.69E-06	1.78E-07	5.33E-06	3.62E-07	6.58E-07	5.81E-08	1.08E-06	2.80E-07	3.66E-07	2.65E-08	6.73E-07
1960	565698.4	4222136	2.86E-06	3.49E-06	1.84E-07	6.53E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.75E-07	6.82E-07	6.02E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.98E-07
1961	565702.1	4222145	2.96E-06	3.61E-06	1.90E-07	6.76E-06	1.57E-06	3.96E-06	1.90E-07	5.72E-06	3.89E-07	7.06E-07	6.23E-08	1.16E-06	3.01E-07	3.93E-07	2.84E-08	7.22E-07
1962	565705.8	4222153	3.06E-06	3.74E-06	1.97E-07	6.99E-06	1.62E-06	4.09E-06	1.97E-07	5.91E-06	4.02E-07	7.30E-07	6.44E-08	1.20E-06	3.11E-07	4.06E-07	2.94E-08	7.46E-07
1963	565709.4	4222162	3.15E-06	3.85E-06	2.03E-07	7.21E-06	1.67E-06	4.22E-06	2.03E-07	6.10E-06	4.14E-07	7.52E-07	6.64E-08	1.23E-06	3.21E-07	4.19E-07	3.03E-08	7.70E-07
1964	565713.1	4222171	3.25E-06	3.96E-06	2.09E-07	7.42E-06	1.72E-06	4.35E-06	2.09E-07	6.28E-06	4.26E-07	7.75E-07	6.84E-08	1.27E-06	3.30E-07	4.31E-07	3.12E-08	7.92E-07
1965	565731.4	4222215	3.64E-06	4.45E-06	2.34E-07	8.32E-06

1978	565694.2	4222102	2.43E-06	2.96E-06	1.56E-07	5.54E-06	1.29E-06	3.25E-06	1.56E-07	4.69E-06	3.19E-07	5.79E-07	5.11E-08	9.48E-07	2.46E-07	3.22E-07	2.33E-08	5.92E-07
1979	565697.8	4222111	2.52E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.87E-06	3.31E-07	6.00E-07	5.30E-08	9.84E-07	2.56E-07	3.34E-07	2.42E-08	6.14E-07
1980	565701.4	4222119	2.61E-06	3.19E-06	1.68E-07	5.96E-06	1.38E-06	3.49E-06	1.68E-07	5.04E-06	3.43E-07	6.22E-07	5.49E-08	1.02E-06	2.65E-07	3.47E-07	2.51E-08	6.37E-07
1981	565705.1	4222128	2.7E-06	3.3E-06	1.74E-07	6.17E-06	1.43E-06	3.62E-06	1.74E-07	5.22E-06	3.55E-07	6.44E-07	5.69E-08	1.06E-06	2.75E-07	3.59E-07	2.60E-08	6.59E-07
1982	565708.7	4222137	2.79E-06	3.41E-06	1.80E-07	6.39E-06	1.48E-06	3.74E-06	1.80E-07	5.40E-06	3.67E-07	6.67E-07	5.88E-08	1.09E-06	2.84E-07	3.71E-07	2.68E-08	6.82E-07
1983	565712.3	4222145	2.89E-06	3.52E-06	1.86E-07	6.60E-06	1.53E-06	3.86E-06	1.86E-07	5.58E-06	3.79E-07	6.89E-07	6.08E-08	1.13E-06	2.93E-07	3.83E-07	2.77E-08	7.04E-07
1984	565715.9	4222154	2.98E-06	3.63E-06	1.92E-07	6.80E-06	1.58E-06	3.98E-06	1.92E-07	5.75E-06	3.91E-07	7.10E-07	6.27E-08	1.16E-06	3.02E-07	3.95E-07	2.86E-08	7.26E-07
1985	565719.6	4222163	3.06E-06	3.74E-06	1.97E-07	7.00E-06	1.62E-06	4.10E-06	1.97E-07	5.92E-06	4.02E-07	7.31E-07	6.45E-08	1.20E-06	3.11E-07	4.07E-07	2.94E-08	7.48E-07
1986	565723.2	4222171	3.15E-06	3.84E-06	2.02E-07	7.19E-06	1.67E-06	4.21E-06	2.02E-07	6.08E-06	4.13E-07	7.51E-07	6.63E-08	1.23E-06	3.20E-07	4.18E-07	3.02E-08	7.68E-07
1987	565726.8	4222180	3.23E-06	3.94E-06	2.08E-07	7.37E-06	1.71E-06	4.32E-06	2.08E-07	6.24E-06	4.24E-07	7.70E-07	6.79E-08	1.26E-06	3.28E-07	4.29E-07	3.10E-08	7.87E-07
1988	565730.4	4222189	3.3E-06	4.03E-06	2.12E-07	7.55E-06	1.75E-06	4.42E-06	2.12E-07	6.38E-06	4.34E-07	7.88E-07	6.95E-08	1.29E-06	3.35E-07	4.39E-07	3.17E-08	8.06E-07
1989	565619.7	4222026	1.75E-06	2.14E-06	1.13E-07	4.01E-06	9.29E-07	2.35E-06	1.13E-07	3.39E-06	2.30E-07	4.18E-07	3.69E-08	6.85E-07	1.78E-07	2.33E-07	1.68E-08	4.28E-07
1990	565628.7	4222029	1.78E-06	2.17E-06	1.14E-07	4.07E-06	9.43E-07	2.38E-06	1.14E-07	3.44E-06	2.34E-07	4.24E-07	3.75E-08	6.95E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
1991	565637.8	4222033	1.8E-06	2.2E-06	1.16E-07	4.12E-06	9.56E-07	2.42E-06	1.16E-07	3.49E-06	2.37E-07	4.30E-07	3.80E-08	7.05E-07	1.83E-07	2.40E-07	1.73E-08	4.40E-07
1992	565646.8	4222037	1.83E-06	2.23E-06	1.18E-07	4.18E-06	9.69E-07	2.45E-06	1.18E-07	3.53E-06	2.40E-07	4.36E-07	3.85E-08	7.15E-07	1.86E-07	2.43E-07	1.76E-08	4.46E-07
1993	565655.9	4222040	1.85E-06	2.26E-06	1.19E-07	4.23E-06	9.80E-07	2.48E-06	1.19E-07	3.58E-06	2.43E-07	4.41E-07	3.89E-08	7.23E-07	1.88E-07	2.46E-07	1.78E-08	4.51E-07
1994	565664.9	4222044	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.91E-07	2.50E-06	1.20E-07	3.61E-06	2.45E-07	4.46E-07	3.94E-08	7.31E-07	1.90E-07	2.48E-07	1.80E-08	4.56E-07
1995	565674	4222048	1.89E-06	2.3E-06	1.21E-07	4.31E-06	1.00E-06	2.53E-06	1.21E-07	3.65E-06	2.48E-07	4.50E-07	3.97E-08	7.37E-07	1.92E-07	2.51E-07	1.81E-08	4.60E-07
1996	565686.8	4222061	1.98E-06	2.42E-06	1.28E-07	4.53E-06	1.05E-06	2.65E-06	1.28E-07	3.83E-06	2.60E-07	4.73E-07	4.17E-08	7.75E-07	2.01E-07	2.63E-07	1.90E-08	4.84E-07
1997	565694.3	4222079	2.15E-06	2.63E-06	1.38E-07	4.91E-06	1.14E-06	2.88E-06	1.38E-07	4.16E-06	2.82E-07	5.13E-07	4.53E-08	8.40E-07	2.18E-07	2.86E-07	2.07E-08	5.25E-07
1998	565698.1	4222088	2.24E-06	2.73E-06	1.44E-07	5.11E-06	1.19E-06	2.99E-06	1.44E-07	4.32E-06	2.94E-07	5.34E-07	4.71E-08	8.74E-07	2.27E-07	2.97E-07	2.15E-08	5.46E-07
1999	565701.9	4222097	2.32E-06	2.84E-06	1.50E-07	5.31E-06	1.23E-06	3.11E-06	1.50E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.09E-07	2.36E-07	3.09E-07	2.23E-08	5.67E-07
2000	565705.6	4222106	2.41E-06	2.95E-06	1.55E-07	5.52E-06	1.28E-06	3.23E-06	1.55E-07	4.67E-06	3.17E-07	5.76E-07	5.08E-08	9.43E-07	2.45E-07	3.21E-07	2.32E-08	5.89E-07
2001	565709.4	4222115	2.5E-06	3.06E-06	1.61E-07	5.72E-06	1.33E-06	3.35E-06	1.61E-07	4.84E-06	3.29E-07	5.97E-07	5.27E-08	9.78E-07	2.54E-07	3.32E-07	2.40E-08	6.11E-07
2002	565713.2	4222124	2.59E-06	3.17E-06	1.67E-07	5.92E-06	1.37E-06	3.47E-06	1.67E-07	5.01E-06	3.40E-07	6.18E-07	5.46E-08	1.01E-06	2.63E-07	3.44E-07	2.49E-08	6.33E-07
2003	565720.7	4222142	2.77E-06	3.38E-06	1.78E-07	6.33E-06	1.47E-06	3.71E-06	1.78E-07	5.36E-06	3.64E-07	6.61E-07	5.84E-08	1.08E-06	2.82E-07	3.68E-07	2.66E-08	6.76E-07
2004	565724.5	4222151	2.86E-06	3.49E-06	1.84E-07	6.53E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.75E-07	6.82E-07	6.02E-08	1.12E-06	2.90E-07	3.80E-07	2.75E-08	6.98E-07
2005	565728.2	4222160	2.94E-06	3.59E-06	1.89E-07	6.72E-06	1.56E-06	3.94E-06	1.89E-07	5.69E-06	3.86E-07	7.02E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.18E-07
2006	565732	4222169	3.02E-06	3.69E-06	1.95E-07	6.91E-06	1.60E-06	4.05E-06	1.95E-07	5.84E-06	3.97E-07	7.21E-07	6.37E-08	1.18E-06	3.07E-07	4.02E-07	2.90E-08	7.38E-07
2007	565735.8	4222178	3.1E-06	3.79E-06	1.99E-07	7.08E-06	1.64E-06	4.15E-06	1.99E-07	5.99E-06	4.07E-07	7.39E-07	6.53E-08	1.21E-06	3.15E-07	4.12E-07	2.98E-08	7.56E-07
2008	565739.5	4222187	3.17E-06	3.87E-06	2.04E-07	7.25E-06	1.68E-06	4.25E-06	2.04E-07	6.13E-06	4.17E-07	7.57E-07	6.68E-08	1.24E-06	3.22E-07	4.21E-07	3.05E-08	7.74E-07
2009	565743.3	4222196	3.24E-06	3.96E-06	2.09E-07	7.41E-06	1.72E-06	4.34E-06	2.09E-07	6.26E-06	4.26E-07	7.73E-07	6.82E-08	1.27E-06	3.29E-07	4.30E-07	3.11E-08	7.91E-07
2010	565747.1	4222205	3.3E-06	4.03E-06	2.13E-07	7.55E-06	1.75E-06	4.42E-06	2.13E-07	6.39E-06	4.34E-07	7.88E-07	6.96E-08	1.29E-06	3.36E-07	4.39E-07	3.17E-08	8.06E-07
2011	565645.2	4222026	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.17E-07	2.32E-06	1.11E-07	3.34E-06	2.27E-07	4.13E-07	3.64E-08	6.76E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
2012	565654.2	4222030	1.75E-06	2.14E-06	1.13E-07	4.00E-06	9.29E-07	2.35E-06	1.13E-07	3.39E-06	2.30E-07	4.18E-07	3.69E-08	6.85E-07	1.78E-07	2.33E-07	1.68E-08	4.28E-07
2013	565663.1	4222034	1.77E-06	2.16E-06	1.14E-07	4.05E-06	9.39E-07	2.37E-06	1.14E-07	3.42E-06	2.33E-07	4.23E-07	3.73E-08	6.92E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
2014	565672.1	4222037	1.79E-06	2.19E-06	1.15E-07	4.09E-06	9.49E-07	2.40E-06	1.15E-07	3.46E-06	2.35E-07	4.27E-07	3.77E-08	6.99E-07	1.82E-07	2.38E-07	1.72E-08	4.37E-07
2015	565681	4222041	1.81E-06	2.21E-06	1.16E-07	4.13E-06	9.57E-07	2.42E-06	1.16E-07	3.49E-06	2.37E-07	4.31E-07	3.80E-08	7.06E-07	1.84E-07	2.40E-07	1.74E-08	4.41E-07
2016	565693.7	4222054	1.89E-06	2.31E-06	1.22E-07	4.33E-06	1.00E-06	2.54E-06	1.22E-07	3.66E-06	2.49E-07	4.52E-07	3.99E-08	7.41E-07	1.93E-07	2.52E-07	1.82E-08	4.62E-07
2017	565704.9	4222080	2.13E-06	2.6E-06	1.37E-07	4.86E-06	1.13E-06	2.85E-06	1.37E-07	4.11E-06	2.79E-07	5.08E-07	4.48E-08	8.32E-07	2.16E-07	2.83E-07	2.04E-08	5.19E-07
2018	565708.6	4222089	2.21E-06	2.7E-06	1.42E-07	5.05E-06	1.17E-06	2.96E-06	1.42E-07	4.27E-06	2.90E-07	5.27E-07	4.65E-08	8.64E-07	2.25E-07	2.93E-07	2.12E-08	5.39E-07
2019	565712.3	4222098	2.29E-06	2.8E-06	1.47E-07	5.24E-06	1.21E-06	3.07E-06	1.47E-07	4.43E-06	3.01E-07	5.47E-07	4.83E-08	8.96E-07	2.33E-07	3.04E-07	2.20E-08	5.59E-07
2020	565716	4222107	2.37E-06	2.9E-06	1.53E-07	5.43E-06	1.26E-06	3.18E-06	1.53E-07	4.59E-06	3.12E-07	5.66E-07	5.00E-08	9.28E-07	2.41E-07	3.15E-07	2.28E-08	5.79E-07
2021	565719.8	4222116	2.46E-06	3E-06	1.58E-07	5.62E-06	1.30E-06	3.29E-06	1.58E-07	4.75E-06	3.23E-07	5.86E-07	5.17E-08	9.60E-07	2.50E-07	3.26E-07	2.36E-08	6.00E-07
2022	565723.5	4222125	2.54E-06	3.1E-06	1.63E-07	5.80E-06	1.35E-06	3.40E-06	1.63E-07	4.91E-06	3.33E-07	6.06E-07	5.35E-08	9.93E-07	2.58E-07	3.37E-07	2.44E-08	6.20E-07
2023	565727.2	4222134	2.62E-06	3.2E-06	1.69E-07	5.99E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.44E-07	6.25E-07	5.52E-08	1.02E-06	2.66E-07	3.48E-07	2.52E-08	6.40E-07
2024	565731	4222143	2.7E-06	3.3E-06	1.74E-07	6.18E-06	1.43E-06	3.62E-06	1.74E-07	5.23E-06	3.55E-07	6.45E-07	5.69E-08	1.06E-06	2.75E-07	3.59E-07	2.60E-08	6.60E-07
2025	565734.7	4222152	2.78E-06	3.4E-06	1.79E-07	6.36E-06	1.48E-06	3.73E-06	1.79E-07	5.38E-06	3.65E-07	6.64E-07	5.86E-08	1.09E-06	2.83E-07	3.70E-07	2.67E-08	6.79E-07
2026	565738.4	4222161	2.86E-06	3.49E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.75E-07	6.82E-07	6.02E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.98E-07
2027	565742.1	4222170	2.93E-06	3.58E-06	1.89E-07	6.70E-06	1.55E-06	3.93E-06	1.89E-07	5.67E-06	3.85E-07	7.00E-07	6.17E-08	1.15E-06	2.98E-07	3.89E-07	2.82E-08	7.16E-07
2028	565745.9	4222179	3E-06	3.67E-06	1.93E-07	6.86E-06	1.59E-06	4.02E-06	1.93E-07	5.80E-06	3.94E-07	7.16E-07	6.32E-08	1.17E-06	3.05E-07	3.99E-07	2.88E-08	7.33E-07
2029	565749.6	4222188	3.07E-06	3.75E-06	1.97E-07	7.01E-06	1.63E-06	4.11E-06	1.97E-07	5.93E-06	4.03E-07	7.32E-07	6.46E-08	1.20E-06	3.12E-07	4.07E-07	2.95E-08	7.48E-07
2030	565753.3	4222197	3.13E-06	3.82E-06	2.01E-07	7.15E-06	1.66E-06	4.19E-06	2.01E-07	6.05E-06	4.11E-07	7.46E-07	6.59E-08	1.22E-06	3.18E-07	4.16E-07	3.01E-08	7.63E-07
2031	565757	4222205	3.18E-06	3.89E-06	2.05E-07	7.28E-06	1.69E-06	4.26E-06	2.05E-07	6.16E-06	4.18E-07	7.60E-07	6.71E-08	1.25E-06	3.24E-07	4.23E-07	3.06E-08	7.77E-07
2032	565760.8	4222214	3.24E-06	3.95E-06	2.08E-07	7.40E-06	1.72E-06	4.33E-06	2.08E-07	6.26E-06	4.25E-07	7.72E-07	6.82E-08	1.27E-06	3.29E-07	4.30E-07	3.11E-08	7.90E-07
2033	565764.5	4222223	3.28E-06	4.01E-06	2.11E-07	7.50E-06	1.74E-06	4.40E-06	2.11E-07	6.35E-06	4.31E-07	7.83E-07	6.91E-08	1.28E-06	3.34E-07	4.36E-07	3.15E-08	8.01E-07
2034	565670.3	4222027	1.7E-06	2.07E-06	1.09E-07	3.88E-06	9.01E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.05E-07	3.58E-08	6.64E-07	1.73E-07	2.26E-07	1.63E-08	4.15E-07
2035	565679.2	4222030	1.72E-06	2.1E-06	1.10E-07	3.92E-06	9.10E-07	2.30E-06	1.10E-07	3.32E-06	2.25E-07	4.09E-07	3.61E-08	6.71E-07	1.74E-07	2.28E-07	1.65E-08	4.19E-07
2036	565688	4222034	1.73E-06	2.11E-06	1.11E-07	3.96E-06	9.18E-07	2.32E-06	1.11E-07	3.35E-06	2.27E-07	4.13E-07	3.65E-08	6.77E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
2037	565700.6	4222046	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.61E-07	2.43E-06	1.17E-07	3.51E-06	2.38E-07	4.33E-07	3.82E-08	7.09E-07	1.84E-07	2.41E-07	1.74E-08	4.43E-07
2038	565704.3	4222055	1.88E-06	2.3E-06	1.21E-07	4.30E-06	9.98E-07	2.52E-06	1.21E-07	3.64E-06	2.47E-07	4.49E-07	3.97E-08	7.36E-07	1.91E-07	2.50E-07	1.81E-08	4.60E-07
2039	565715.4	4222082	2.1E-06	2.57E-06	1.35E-07	4.81E-06	1.12E-06	2.82E-06	1.35E-07	4.07E-06	2.76E-07	5.02E-07	4.43E-08	8.22E-07	2.14E-07	2.79E-07	2.02E-08	5.13E-07
2040	565719	4222091	2.18E-06	2.66E-06	1.40E-07	4.98E-06	1.16E-06	2.92E-06	1.40E-07	4.21E-06	2.86E-07	5.20E-07	4.59E-08	8.52E-07	2.21E-07	2.90E-07	2.09E-08	5.32E-07
2041	565722.7	4222100	2.26E-06	2.76E-06	1.45E-07	5.16E-06	1.20E-06	3.02E-06	1.45E-07	4.36E-06	2.96E-07	5.38E-07	4.75E-08	8.82E-07	2.29E-07	3.00E-07	2.17E-08	5.51E-07
2042	565726.4	4222108	2.33E-06	2.85E-06	1.50E-07	5.33E-06	1.24E-06	3.12E-06	1.50E-07	4.51E-06	3.06E-07	5.57E-07	4.91E-08	9.12E-07	2.37E-07	3.10E-07	2.24E-08	5.69E-07
2043	565730.1	4222117	2.41E-06	2.94E-06	1.55E-07	5.51E-06	1.28E-06	3.23E-06	1.55E-07	4.66E-06	3.16E-07	5.75E-07	5.07E-08	9.42E-07	2.45E-07	3.20E-07	2.31E-08	5.88E-07
2044	565733.8	4222126	2.49E-06	3.04E-06	1.60E-07	5.68E-06	1.32E-06	3.33E-06	1.60E-07	4.80E-06	3.26E-07	5.93E-07	5.23E-08	9.72E-07	2.53E-07	3.30E-07	2.39E-08	6.07E-07
2045	565737.5	4222135	2.56E-06	3.13E-06	1.65E-07	5.86E-06	1.36E-06	3.43E-06	1.65E-07	4.95E-06	3.36E-07	6.11E-07	5.40E-08	1.00E-06	2.60E-07	3.40E-07	2.46E-08	6.25E-07
2046	565741.2	4222144	2.64E-06	3.22E-06	1.70E-07	6.03E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
2047	565744.9	4222153	2.71E-06	3.31E-06	1.74E-07	6.19E-06	1.44E-06	3.63E-06	1.74E-07	5.24E-06	3.56E-07	6.46E-07	5.70E-08	1.06E-06	2.75E-07	3.60E-07	2.60E-08	6.61E-07
2048	565748.5	4222161	2.78E-06	3.39E-06	1.79E-07	6.35E-06	1.47E-06	3.72E-06	1.79E-07	5.37E-06	3.65E-07	6.63E-07	5.85E-08	1.09E-06	2.82E-07	3.69E-07	2.67E-08	6.78E-07
2049	565752.2	4222170	2.84E-06	3.47E-06	1.83E-07	6.50E-06	1.51E-06	3.81E-06	1.83E-07	5.50E-06	3.73E-07	6.79E-07	5.99E-08	1.11E-06	2.89E-07	3.78E-07	2.73E-08	6.94E-07
2050	565755.9	4222179	2.91E-06	3.55E-06	1.87E-07	6.64E-06	1.54E-06	3.89E-06	1.87E-07	5.62E-06	3.82E-07	6.93E-07	6.12E-08	1.14E-06	2.95E-07	3.86E-07	2.79E-08	7.09E-07
2051	565759.6	4222188	2.97E-06	3.62E-06	1.91E-07	6.78E-06	1.57E-06	3.97E-06	1.91E-07	5.73E-06	3.89E-07	7.08E-07	6.25E-08	1.16E-06	3.01E-07	3.94E-07	2.85E-08	7.24E-07
2052	565763.3	4222197	3.02E-06	3.69E-06	1.94E-07	6.90E-06	1.60E-06	4.04E-06	1.94E-07	5.84E-06	3.97E-07	7.21E-07	6.36E-08	1.18E-06	3.07E-07	4.01E-07	2.90E-08	7.37E-07
2053	565767	4222206	3.07E-06	3.75E-06	1.98E-07	7.02E-06	1.63E-06	4.11E-06	1.98E-07	5.94E-06	4.03E-07	7.33E-07	6.47E-08	1.20E-06	3.12E-07	4.08E-07	2.95E-08	7.50E-07
2054	565770.7	4222215	3.12E-06	3.81E-06	2.01E-07	7.13E-06	1.65E-06	4.18E-06	2.01E-07	6.03E-06	4.10E-07	7.44E-07	6.57E-08	1.22E-06	3.17E-07	4.14E-07	3.00E-08	7.61E-07
2055	565774.4	4222223	3.16E-06	3.86E-06	2.04E-07	7.23E-06	1.68E-06	4.23E-06	2.04E-07	6.11E-06	4.15E-07	7.55E-07	6.66E-08	1.24E-06	3.21E-07	4.20E-07	3.04E-08	7.72E-07
2056	565695.1	4222027	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.81E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.50E-08	6.49E-07	1.69E-07	2.21E-07	1.60E-08	4.05E-07
2057	565707.5	4222039	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.21E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.15E-07	3.66E-08	6.79E-07	1.77E-07	2.31E-07	1.67E-08	4.24E-07
2058	565711.2	4222048	1.8E-06	2.2E-06	1.16E-07	4.12E-06	9.56E-07	2.41E-06	1.16E-07	3.48E-06	2.37E-07	4.30E-07	3.80E-08	7.05E-07	1.83E-07	2.39E-07	1.73E-08	4.40E-07
2059	565714.8	4222057	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.91E-07	2.50E-06	1.20E-07	3.61E-06	2.45E-07	4.46E-07	3.94E-08	7.31E-07	1.90E-07	2.48E-07	1.80E-08	4.56E-07
2060	565725.8	4222083	2.08E-06	2.54E-06	1.34E-07	4.75E-06	1.10E-06	2.78E-06	1.34E-07	4.01E-06	2.73E-07	4.95E-07	4.37E-08	8.12E-07	2.11E-07	2.76E-07	1.99E-08	5.07E-07
2061	565729.4	4222092	2.15E-06	2.62E-06	1.38E-07	4.91E-06	1.14E-06	2.88E-06	1.38E-07	4.15E-06	2.82E-07	5.12E-07	4.52E-08	8.40E-07	2.18E-07	2.85E-07	2.06E-08	5.24E-07
2062	565733.1	4222101	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.95E-07	2.13E-08	5.42E-07
2063	565736.7	4222110	2.29E-06	2.8E-06	1.47E-07	5.24E-06	1.21E-06	3.07E-06	1.47E-07	4.43E-06	3.01E-07	5.46E-07	4.82E-08	8.95E-07	2.33E-07	3.04E-07	2.20E-08	5.59E-07
2064	565740.4	4222118	2.36E-06	2.88E-06	1.52E-07	5.40E-06	1.25E-06	3.16E-06	1.52E-07	4.57E-06	3.10E-07	5.63E-07	4.97E-08	9.23E-07	2.40E-07	3.14E-07	2.27E-08	5.76E-07
2065	565744	4222127	2.43E-06	2.97E-06	1.57E-07	5.56E-06	1.29E-06	3.26E-06	1.57E-07	4.70E-06	3.19E-07	5.80E-07	5.12E-08	9.51E-07	2.47E-07	3.23E-07	2.34E-08	5.94E-07
2066	565747.7	4222136	2.5E-06	3.06E-06	1.61E-07	5.72E-06	1.33E-06	3.35E-06	1.61E-07	4.84E-06	3.29E-07	5.97E-07	5.27E-08	9.78E-07	2.54E-07	3.32E-07	2.40E-08	6.11E-07
2067	565751.3	4222145	2.57E-06	3.14E-06	1.65E-07	5.87E-06	1.36E-06	3.44E-06	1.65E-07	4.97E-06	3.38E-07	6.13E-07	5.41E-08	1.00E-06	2.61E-07	3.41E-07	2.47E-08	6.27E-07
2068	565755	4222153	2.64E-06	3.22E-06	1.70E-07	6.02E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
2069	565758.7	4222162	2.7E-06	3.3E-06	1.74E-07	6.17E-06	1.43E-06	3.61E-06	1.74E-07	5.22E-06	3.54E-07	6.44E-07	5.68E-08	1.06E-06	2.74E-07	3.59E-07	2.59E-08	6.59E-07
2070	565762.3	4222171	2.76E-06	3.37E-06	1.78E-07	6.31E-06	1.46E-06	3.69E-06	1.78E-07	5.33E-06	3.62E-07	6.58E-07	5.81E-08	1.08E-06	2.80E-07	3.66E-07	2.65E-08	6.73E-07
2071	565766	4222180	2.82E-06	3.44E-06	1.81E-07	6.44E-06	1.49E-06	3.77E-06	1.81E-07	5.44E-06	3.70E-07	6.72E-07	5.93E-08	1.10E-06	2.86E-07	3.74E-07	2.71E-08	6.87E-07
2072	565769.6	4222188	2.87E-06	3.51E-06	1.85E-07	6.56E-06	1.52E-06	3.84E-06	1.85E-07	5.55E-06	3.77E-07	6.85E-07	6.04E-08	1.12E-06	2.92E-07	3.81E-07	2.76E-08	7.01E-07
2073	565773.3	4222197	2.92E-06	3.57E-06	1.88E-07	6.68E-06	1.55E-06	3.91E-06	1.88E-07	5.65E-06	3.84E-07	6.97E-07	6.15E-08	1.14E-06	2.97E-07	3.88E-07	2.81E-08	7.13E-07
2074	565776.9	4222206	2.97E-06	3.62E-06	1.91E-07	6.78E-06	1.57E-06	3.97E-06	1.91E-07	5.74E-06	3.90E-07	7.08E-07	6.25E-08	1.16E-06	3.02E-07	3.94E-07	2.85E-08	7.24E-07
2075	565780.6	4222215	3.01E-06	3.68E-06	1.94E-07	6.88E-06

2088	565767.5	4222160	2.6E-06	3.18E-06	1.68E-07	5.95E-06	1.38E-06	3.49E-06	1.68E-07	5.03E-06	3.42E-07	6.21E-07	5.48E-08	1.02E-06	2.65E-07	3.46E-07	2.50E-08	6.35E-07
2089	565771.3	4222169	2.66E-06	3.25E-06	1.71E-07	6.08E-06	1.41E-06	3.56E-06	1.71E-07	5.15E-06	3.50E-07	6.35E-07	5.61E-08	1.04E-06	2.70E-07	3.54E-07	2.56E-08	6.50E-07
2090	565775	4222178	2.72E-06	3.32E-06	1.75E-07	6.21E-06	1.44E-06	3.64E-06	1.75E-07	5.25E-06	3.57E-07	6.48E-07	5.72E-08	1.06E-06	2.76E-07	3.61E-07	2.61E-08	6.63E-07
2091	565778.8	4222187	2.77E-06	3.38E-06	1.78E-07	6.33E-06	1.47E-06	3.71E-06	1.78E-07	5.35E-06	3.64E-07	6.61E-07	5.83E-08	1.08E-06	2.81E-07	3.68E-07	2.66E-08	6.76E-07
2092	565782.6	4222196	2.82E-06	3.44E-06	1.81E-07	6.44E-06	1.49E-06	3.77E-06	1.81E-07	5.45E-06	3.70E-07	6.72E-07	5.93E-08	1.10E-06	2.86E-07	3.74E-07	2.71E-08	6.88E-07
2093	565786.4	4222205	2.86E-06	3.5E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.98E-07
2094	565790.2	4222214	2.9E-06	3.54E-06	1.87E-07	6.63E-06	1.54E-06	3.89E-06	1.87E-07	5.61E-06	3.81E-07	6.92E-07	6.11E-08	1.13E-06	2.95E-07	3.86E-07	2.79E-08	7.08E-07
2095	565793.9	4222223	2.94E-06	3.59E-06	1.89E-07	6.72E-06	1.56E-06	3.93E-06	1.89E-07	5.68E-06	3.86E-07	7.01E-07	6.19E-08	1.15E-06	2.99E-07	3.90E-07	2.82E-08	7.17E-07
2096	565721.5	4222026	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.49E-07	2.14E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.37E-08	6.26E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
2097	565725.2	4222035	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.81E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.50E-08	6.49E-07	1.69E-07	2.21E-07	1.60E-08	4.05E-07
2098	565729	4222044	1.72E-06	2.1E-06	1.11E-07	3.93E-06	9.13E-07	2.30E-06	1.11E-07	3.33E-06	2.26E-07	4.11E-07	3.62E-08	6.73E-07	1.75E-07	2.29E-07	1.65E-08	4.20E-07
2099	565732.7	4222053	1.78E-06	2.18E-06	1.15E-07	4.07E-06	9.45E-07	2.39E-06	1.15E-07	3.45E-06	2.34E-07	4.25E-07	3.75E-08	6.97E-07	1.81E-07	2.37E-07	1.71E-08	4.35E-07
2100	565736.4	4222062	1.84E-06	2.25E-06	1.19E-07	4.22E-06	9.78E-07	2.47E-06	1.19E-07	3.57E-06	2.42E-07	4.40E-07	3.89E-08	7.21E-07	1.87E-07	2.45E-07	1.77E-08	4.50E-07
2101	565773.9	4222151	2.48E-06	3.02E-06	1.59E-07	5.66E-06	1.31E-06	3.32E-06	1.59E-07	4.79E-06	3.25E-07	5.91E-07	5.21E-08	9.68E-07	2.52E-07	3.29E-07	2.38E-08	6.04E-07
2102	565777.6	4222160	2.53E-06	3.09E-06	1.63E-07	5.79E-06	1.34E-06	3.39E-06	1.63E-07	4.90E-06	3.33E-07	6.04E-07	5.33E-08	9.90E-07	2.57E-07	3.36E-07	2.43E-08	6.18E-07
2103	565781.4	4222169	2.59E-06	3.16E-06	1.66E-07	5.91E-06	1.37E-06	3.46E-06	1.66E-07	5.00E-06	3.40E-07	6.17E-07	5.45E-08	1.01E-06	2.63E-07	3.43E-07	2.48E-08	6.31E-07
2104	565785.1	4222178	2.64E-06	3.22E-06	1.70E-07	6.02E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
2105	565788.8	4222187	2.68E-06	3.28E-06	1.73E-07	6.13E-06	1.42E-06	3.59E-06	1.73E-07	5.19E-06	3.52E-07	6.40E-07	5.65E-08	1.05E-06	2.73E-07	3.56E-07	2.58E-08	6.55E-07
2106	565792.6	4222196	2.73E-06	3.33E-06	1.76E-07	6.23E-06	1.45E-06	3.65E-06	1.76E-07	5.27E-06	3.58E-07	6.51E-07	5.74E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.66E-07
2107	565796.3	4222205	2.77E-06	3.38E-06	1.78E-07	6.32E-06	1.47E-06	3.70E-06	1.78E-07	5.35E-06	3.63E-07	6.60E-07	5.83E-08	1.08E-06	2.81E-07	3.68E-07	2.66E-08	6.75E-07
2108	565800.1	4222214	2.8E-06	3.42E-06	1.80E-07	6.41E-06	1.49E-06	3.75E-06	1.80E-07	5.42E-06	3.68E-07	6.69E-07	5.90E-08	1.10E-06	2.85E-07	3.72E-07	2.69E-08	6.84E-07
2109	565803.8	4222223	2.83E-06	3.46E-06	1.82E-07	6.48E-06	1.50E-06	3.80E-06	1.82E-07	5.48E-06	3.72E-07	6.76E-07	5.97E-08	1.11E-06	2.88E-07	3.77E-07	2.72E-08	6.92E-07
2110	565742.9	4222029	1.58E-06	1.93E-06	1.02E-07	3.62E-06	8.39E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.78E-07	3.33E-08	6.19E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
2111	565746.6	4222038	1.64E-06	2E-06	1.05E-07	3.74E-06	8.68E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.45E-08	6.40E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
2112	565750.3	4222047	1.69E-06	2.06E-06	1.09E-07	3.86E-06	8.96E-07	2.26E-06	1.09E-07	3.27E-06	2.22E-07	4.03E-07	3.56E-08	6.61E-07	1.72E-07	2.25E-07	1.62E-08	4.13E-07
2113	565753.9	4222056	1.75E-06	2.13E-06	1.12E-07	3.99E-06	9.26E-07	2.34E-06	1.12E-07	3.38E-06	2.29E-07	4.17E-07	3.68E-08	6.83E-07	1.77E-07	2.32E-07	1.68E-08	4.26E-07
2114	565765	4222082	1.92E-06	2.34E-06	1.23E-07	4.38E-06	1.02E-06	2.57E-06	1.23E-07	3.70E-06	2.52E-07	4.57E-07	4.04E-08	7.49E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
2115	565768.7	4222091	1.97E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.81E-06	2.59E-07	4.71E-07	4.15E-08	7.71E-07	2.00E-07	2.62E-07	1.90E-08	4.81E-07
2116	565772.3	4222100	2.03E-06	2.48E-06	1.31E-07	4.64E-06	1.08E-06	2.72E-06	1.31E-07	3.92E-06	2.66E-07	4.84E-07	4.27E-08	7.93E-07	2.06E-07	2.70E-07	1.95E-08	4.95E-07
2117	565776	4222109	2.08E-06	2.55E-06	1.34E-07	4.76E-06	1.11E-06	2.79E-06	1.34E-07	4.03E-06	2.74E-07	4.97E-07	4.39E-08	8.15E-07	2.12E-07	2.77E-07	2.00E-08	5.09E-07
2118	565779.7	4222117	2.14E-06	2.61E-06	1.38E-07	4.89E-06	1.13E-06	2.86E-06	1.38E-07	4.14E-06	2.81E-07	5.10E-07	4.51E-08	8.36E-07	2.17E-07	2.84E-07	2.06E-08	5.22E-07
2119	565783.4	4222126	2.19E-06	2.68E-06	1.41E-07	5.01E-06	1.16E-06	2.94E-06	1.41E-07	4.24E-06	2.88E-07	5.23E-07	4.62E-08	8.57E-07	2.23E-07	2.91E-07	2.11E-08	5.35E-07
2120	565787.1	4222135	2.25E-06	2.74E-06	1.45E-07	5.13E-06	1.19E-06	3.01E-06	1.45E-07	4.34E-06	2.95E-07	5.36E-07	4.73E-08	8.78E-07	2.28E-07	2.98E-07	2.16E-08	5.48E-07
2121	565790.7	4222144	2.3E-06	2.81E-06	1.48E-07	5.25E-06	1.22E-06	3.08E-06	1.48E-07	4.44E-06	3.02E-07	5.48E-07	4.84E-08	8.98E-07	2.33E-07	3.05E-07	2.21E-08	5.61E-07
2122	565809.2	4222188	2.52E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.87E-06	3.31E-07	6.01E-07	5.30E-08	9.84E-07	2.56E-07	3.34E-07	2.42E-08	6.14E-07
2123	565812.8	4222197	2.55E-06	3.12E-06	1.64E-07	5.83E-06	1.35E-06	3.42E-06	1.64E-07	4.94E-06	3.35E-07	6.09E-07	5.38E-08	9.98E-07	2.59E-07	3.39E-07	2.45E-08	6.23E-07
2124	565816.5	4222206	2.58E-06	3.16E-06	1.66E-07	5.91E-06	1.37E-06	3.46E-06	1.66E-07	5.00E-06	3.39E-07	6.17E-07	5.44E-08	1.01E-06	2.63E-07	3.43E-07	2.48E-08	6.31E-07
2125	565820.2	4222214	2.61E-06	3.19E-06	1.68E-07	5.98E-06	1.39E-06	3.50E-06	1.68E-07	5.05E-06	3.43E-07	6.24E-07	5.51E-08	1.02E-06	2.66E-07	3.47E-07	2.51E-08	6.38E-07
2126	565823.9	4222223	2.67E-06	3.26E-06	1.72E-07	6.10E-06	1.41E-06	3.57E-06	1.72E-07	5.16E-06	3.50E-07	6.36E-07	5.62E-08	1.04E-06	2.71E-07	3.54E-07	2.56E-08	6.51E-07
2127	565761	4222024	1.52E-06	1.85E-06	9.75E-08	3.46E-06	8.04E-07	2.03E-06	9.75E-08	2.93E-06	1.99E-07	3.62E-07	3.19E-08	5.93E-07	1.54E-07	2.01E-07	1.46E-08	3.70E-07
2128	565764.8	4222034	1.56E-06	1.91E-06	1.01E-07	3.58E-06	8.30E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.73E-07	3.30E-08	6.12E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
2129	565768.5	4222043	1.62E-06	1.97E-06	1.04E-07	3.69E-06	8.57E-07	2.16E-06	1.04E-07	3.12E-06	2.12E-07	3.85E-07	3.40E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.94E-07
2130	565772.3	4222052	1.67E-06	2.04E-06	1.07E-07	3.81E-06	8.84E-07	2.23E-06	1.07E-07	3.22E-06	2.19E-07	3.98E-07	3.51E-08	6.52E-07	1.69E-07	2.21E-07	1.60E-08	4.07E-07
2131	565776.1	4222061	1.72E-06	2.1E-06	1.11E-07	3.93E-06	9.11E-07	2.30E-06	1.11E-07	3.32E-06	2.26E-07	4.10E-07	3.62E-08	6.72E-07	1.75E-07	2.28E-07	1.65E-08	4.19E-07
2132	565783.6	4222079	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
2133	565787.3	4222088	1.87E-06	2.29E-06	1.21E-07	4.28E-06	9.93E-07	2.51E-06	1.21E-07	3.62E-06	2.46E-07	4.47E-07	3.94E-08	7.32E-07	1.90E-07	2.49E-07	1.80E-08	4.57E-07
2134	565791.1	4222097	1.92E-06	2.35E-06	1.24E-07	4.40E-06	1.02E-06	2.58E-06	1.24E-07	3.72E-06	2.53E-07	4.59E-07	4.05E-08	7.52E-07	1.96E-07	2.56E-07	1.85E-08	4.70E-07
2135	565794.9	4222106	1.94E-06	2.37E-06	1.25E-07	4.44E-06	1.03E-06	2.60E-06	1.25E-07	3.76E-06	2.55E-07	4.64E-07	4.09E-08	7.60E-07	1.98E-07	2.58E-07	1.87E-08	4.74E-07
2136	565798.6	4222115	2E-06	2.44E-06	1.29E-07	4.56E-06	1.06E-06	2.67E-06	1.29E-07	3.86E-06	2.62E-07	4.76E-07	4.21E-08	7.81E-07	2.03E-07	2.65E-07	1.92E-08	4.87E-07
2137	565802.4	4222124	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.89E-07	4.31E-08	8.01E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
2138	565806.2	4222133	2.1E-06	2.57E-06	1.35E-07	4.80E-06	1.11E-06	2.81E-06	1.35E-07	4.06E-06	2.76E-07	5.01E-07	4.42E-08	8.21E-07	2.13E-07	2.79E-07	2.02E-08	5.13E-07
2139	565809.9	4222142	2.15E-06	2.63E-06	1.39E-07	4.92E-06	1.14E-06	2.88E-06	1.39E-07	4.16E-06	2.83E-07	5.14E-07	4.53E-08	8.42E-07	2.19E-07	2.86E-07	2.07E-08	5.25E-07
2140	565813.7	4222151	2.21E-06	2.7E-06	1.42E-07	5.05E-06	1.17E-06	2.96E-06	1.42E-07	4.27E-06	2.90E-07	5.27E-07	4.65E-08	8.64E-07	2.24E-07	2.93E-07	2.12E-08	5.39E-07
2141	565817.5	4222160	2.25E-06	2.75E-06	1.45E-07	5.14E-06	1.19E-06	3.01E-06	1.45E-07	4.35E-06	2.96E-07	5.37E-07	4.74E-08	8.80E-07	2.29E-07	2.99E-07	2.16E-08	5.49E-07
2142	565821.2	4222169	2.29E-06	2.8E-06	1.47E-07	5.23E-06	1.21E-06	3.06E-06	1.47E-07	4.43E-06	3.01E-07	5.46E-07	4.82E-08	8.95E-07	2.33E-07	3.04E-07	2.20E-08	5.59E-07
2143	565825	4222178	2.33E-06	2.85E-06	1.50E-07	5.33E-06	1.24E-06	3.12E-06	1.50E-07	4.51E-06	3.06E-07	5.56E-07	4.91E-08	9.12E-07	2.37E-07	3.10E-07	2.24E-08	5.69E-07
2144	565843.8	4222223	2.49E-06	3.04E-06	1.60E-07	5.69E-06	1.32E-06	3.34E-06	1.60E-07	4.82E-06	3.27E-07	5.94E-07	5.25E-08	9.74E-07	2.53E-07	3.31E-07	2.39E-08	6.08E-07
2145	565782.3	4222028	1.49E-06	1.82E-06	9.59E-08	3.41E-06	7.90E-07	2.00E-06	9.59E-08	2.88E-06	1.96E-07	3.56E-07	3.14E-08	5.83E-07	1.51E-07	1.98E-07	1.43E-08	3.64E-07
2146	565786	4222036	1.54E-06	1.88E-06	9.88E-08	3.51E-06	8.14E-07	2.06E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
2147	565789.7	4222045	1.58E-06	1.93E-06	1.02E-07	3.61E-06	8.38E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.77E-07	3.33E-08	6.18E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
2148	565793.4	4222054	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.62E-07	2.18E-06	1.05E-07	3.14E-06	2.14E-07	3.88E-07	3.42E-08	6.36E-07	1.65E-07	2.16E-07	1.56E-08	3.97E-07
2149	565800.8	4222072	1.72E-06	2.1E-06	1.11E-07	3.92E-06	9.10E-07	2.30E-06	1.11E-07	3.32E-06	2.26E-07	4.10E-07	3.62E-08	6.71E-07	1.75E-07	2.28E-07	1.65E-08	4.19E-07
2150	565804.5	4222081	1.76E-06	2.15E-06	1.13E-07	4.03E-06	9.35E-07	2.36E-06	1.13E-07	3.41E-06	2.32E-07	4.21E-07	3.71E-08	6.89E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
2151	565808.3	4222090	1.81E-06	2.21E-06	1.16E-07	4.13E-06	9.59E-07	2.42E-06	1.16E-07	3.50E-06	2.37E-07	4.31E-07	3.81E-08	7.07E-07	1.84E-07	2.40E-07	1.74E-08	4.41E-07
2152	565812	4222099	1.83E-06	2.23E-06	1.17E-07	4.17E-06	9.68E-07	2.44E-06	1.17E-07	3.53E-06	2.40E-07	4.35E-07	3.84E-08	7.14E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
2153	565815.7	4222108	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.92E-07	2.50E-06	1.20E-07	3.62E-06	2.46E-07	4.46E-07	3.94E-08	7.31E-07	1.90E-07	2.48E-07	1.80E-08	4.56E-07
2154	565819.4	4222116	1.91E-06	2.34E-06	1.23E-07	4.37E-06	1.01E-06	2.56E-06	1.23E-07	3.70E-06	2.51E-07	4.57E-07	4.03E-08	7.48E-07	1.94E-07	2.54E-07	1.84E-08	4.67E-07
2155	565823.1	4222125	1.96E-06	2.39E-06	1.26E-07	4.47E-06	1.04E-06	2.62E-06	1.26E-07	3.78E-06	2.57E-07	4.67E-07	4.12E-08	7.65E-07	1.99E-07	2.60E-07	1.88E-08	4.77E-07
2156	565826.8	4222134	2E-06	2.45E-06	1.29E-07	4.58E-06	1.06E-06	2.68E-06	1.29E-07	3.87E-06	2.63E-07	4.78E-07	4.22E-08	7.83E-07	2.04E-07	2.66E-07	1.92E-08	4.89E-07
2157	565830.5	4222143	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.89E-07	4.31E-08	8.01E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
2158	565834.2	4222152	2.09E-06	2.55E-06	1.35E-07	4.78E-06	1.11E-06	2.80E-06	1.35E-07	4.04E-06	2.75E-07	4.99E-07	4.40E-08	8.17E-07	2.12E-07	2.78E-07	2.01E-08	5.10E-07
2159	565837.9	4222161	2.13E-06	2.6E-06	1.37E-07	4.87E-06	1.13E-06	2.85E-06	1.37E-07	4.12E-06	2.80E-07	5.08E-07	4.49E-08	8.33E-07	2.16E-07	2.83E-07	2.05E-08	5.20E-07
2160	565841.6	4222170	2.17E-06	2.65E-06	1.39E-07	4.95E-06	1.15E-06	2.90E-06	1.39E-07	4.19E-06	2.84E-07	5.17E-07	4.56E-08	8.47E-07	2.20E-07	2.88E-07	2.08E-08	5.29E-07
2161	565845.3	4222179	2.2E-06	2.69E-06	1.42E-07	5.03E-06	1.17E-06	2.95E-06	1.42E-07	4.25E-06	2.89E-07	5.25E-07	4.63E-08	8.60E-07	2.24E-07	2.92E-07	2.11E-08	5.37E-07
2162	565849	4222188	2.23E-06	2.73E-06	1.44E-07	5.10E-06	1.18E-06	2.99E-06	1.44E-07	4.31E-06	2.93E-07	5.32E-07	4.70E-08	8.72E-07	2.27E-07	2.96E-07	2.14E-08	5.45E-07
2163	565852.7	4222196	2.26E-06	2.76E-06	1.45E-07	5.17E-06	1.20E-06	3.03E-06	1.45E-07	4.37E-06	2.97E-07	5.39E-07	4.76E-08	8.84E-07	2.30E-07	3.00E-07	2.17E-08	5.52E-07
2164	565856.4	4222205	2.29E-06	2.79E-06	1.47E-07	5.23E-06	1.21E-06	3.06E-06	1.47E-07	4.42E-06	3.00E-07	5.46E-07	4.82E-08	8.94E-07	2.32E-07	3.04E-07	2.20E-08	5.58E-07
2165	565860.1	4222214	2.31E-06	2.83E-06	1.49E-07	5.29E-06	1.23E-06	3.10E-06	1.49E-07	4.47E-06	3.04E-07	5.52E-07	4.87E-08	9.04E-07	2.35E-07	3.07E-07	2.22E-08	5.65E-07
2166	565819.5	4222069	1.64E-06	2E-06	1.05E-07	3.75E-06	8.69E-07	2.19E-06	1.05E-07	3.17E-06	2.15E-07	3.91E-07	3.45E-08	6.41E-07	1.67E-07	2.18E-07	1.57E-08	4.00E-07
2167	565823.3	4222078	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.91E-07	2.25E-06	1.08E-07	3.25E-06	2.21E-07	4.01E-07	3.54E-08	6.57E-07	1.71E-07	2.23E-07	1.61E-08	4.10E-07
2168	565827.1	4222087	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.98E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.04E-07	3.57E-08	6.63E-07	1.72E-07	2.25E-07	1.63E-08	4.14E-07
2169	565830.9	4222096	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.21E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.15E-07	3.66E-08	6.79E-07	1.77E-07	2.31E-07	1.67E-08	4.24E-07
2170	565834.6	4222105	1.78E-06	2.17E-06	1.14E-07	4.06E-06	9.43E-07	2.38E-06	1.14E-07	3.44E-06	2.33E-07	4.24E-07	3.74E-08	6.95E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
2171	565838.4	4222114	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.64E-07	2.43E-06	1.17E-07	3.52E-06	2.39E-07	4.34E-07	3.83E-08	7.11E-07	1.85E-07	2.42E-07	1.75E-08	4.44E-07
2172	565842.2	4222123	1.86E-06	2.27E-06	1.20E-07	4.25E-06	9.85E-07	2.49E-06	1.20E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.26E-07	1.89E-07	2.47E-07	1.79E-08	4.54E-07
2173	565846	4222132	1.9E-06	2.32E-06	1.22E-07	4.34E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.49E-07	4.53E-07	4.00E-08	7.42E-07	1.93E-07	2.52E-07	1.82E-08	4.63E-07
2174	565849.8	4222141	1.94E-06	2.37E-06	1.25E-07	4.43E-06	1.03E-06	2.59E-06	1.25E-07	3.75E-06	2.55E-07	4.62E-07	4.08E-08	7.58E-07	1.97E-07	2.57E-07	1.86E-08	4.73E-07
2175	565853.5	4222150	1.97E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.82E-06	2.59E-07	4.71E-07	4.16E-08	7.72E-07	2.01E-07	2.62E-07	1.90E-08	4.82E-07
2176	565857.3	4222159	2.01E-06	2.45E-06	1.29E-07	4.59E-06	1.07E-06	2.69E-06	1.29E-07	3.88E-06	2.64E-07	4.79E-07	4.23E-08	7.85E-07	2.04E-07	2.67E-07	1.93E-08	4.90E-07
2177	565861.1	4222169	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.95E-06	2.68E-07	4.87E-07	4.30E-08	7.98E-07	2.07E-07	2.71E-07	1.96E-08	4.98E-07
2178	565864.9	4222178	2.07E-06	2.53E-06	1.33E-07	4.73E-06	1.10E-06	2.77E-06	1.33E-07	4.00E-06	2.72E-07	4.94E-07	4.36E-08	8.10E-07	2.10E-07	2.75E-07	1.99E-08	5.06E-07
2179	565868.7	4222187	2.1E-06	2.56E-06	1.35E-07	4.80E-06	1.11E-06	2.81E-06	1.35E-07	4.06E-06	2.76E-07	5.01E-07	4.42E-08	8.21E-07	2.13E-07	2.79E-07	2.02E-08	5.12E-07
2180	565872.4	4222196	2.13E-06	2.6E-06	1.37E-07	4.86E-06	1.13E-06	2.85E-06	1.37E-07	4.11E-06	2.79E-07	5.07E-07	4.48E-08	8.31E-07	2.16E-07	2.83E-07	2.04E-08	5.19E-07
2181	565876.2	4222205	2.15E-06	2.63E-06	1.39E-07	4.92E-06	1.14E-06	2.88E-06	1.39E-07	4.16E-06	2.83E-07	5.14E-07	4.53E-08	8.42E-07	2.19E-07	2.86E-07	2.07E-08	5.25E-07
2182	565880	4222214	2.18E-06	2.66E-06	1.40E-07	4.97E-06	1.15E-06	2.91E-06	1.40E-07	4.21E-06	2.86E-07	5.19E-07	4.58E-08	8.51E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
2183	565883.8	4222223	2.2E-06	2.68E-06	1.41E-07	5.02E-06	1.16E-06	2.94E-06	1.41E-07	4.25E-06	2.88E-07	5.24E-07	4.63E-08	8.59E-07	2.23E-07	2.92E-07	2.11E-08	5.36E-07
2184	565862.8	4222125	1.78E-06	2.17E-06	1.15E-07	4.07E-06	9.43E-07	2.38E-06	1.15E-07	3.44E-06	2.34E-07	4.24E-07	3.75E-08	6.96E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
2185	565866.6	4222134	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.

2198	565904.8	4222177	1.86E-06	2.27E-06	1.19E-07	4.24E-06	9.84E-07	2.48E-06	1.19E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.26E-07	1.89E-07	2.47E-07	1.78E-08	4.53E-07
2199	565908.6	4222186	1.88E-06	2.29E-06	1.21E-07	4.29E-06	9.96E-07	2.51E-06	1.21E-07	3.63E-06	2.47E-07	4.48E-07	3.96E-08	7.34E-07	1.91E-07	2.49E-07	1.80E-08	4.58E-07
2200	565912.4	4222195	1.9E-06	2.32E-06	1.22E-07	4.34E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.49E-07	4.53E-07	4.00E-08	7.42E-07	1.93E-07	2.52E-07	1.82E-08	4.63E-07
2201	565916.2	4222205	1.92E-06	2.34E-06	1.23E-07	4.38E-06	1.02E-06	2.57E-06	1.23E-07	3.70E-06	2.52E-07	4.57E-07	4.03E-08	7.49E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
2202	565920	4222214	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.59E-06	1.24E-07	3.73E-06	2.54E-07	4.61E-07	4.07E-08	7.55E-07	1.96E-07	2.57E-07	1.86E-08	4.71E-07
2203	565923.8	4222223	1.94E-06	2.37E-06	1.25E-07	4.44E-06	1.03E-06	2.60E-06	1.25E-07	3.76E-06	2.55E-07	4.64E-07	4.10E-08	7.60E-07	1.98E-07	2.58E-07	1.87E-08	4.75E-07
2204	565932.6	4222196	1.8E-06	2.19E-06	1.16E-07	4.10E-06	9.52E-07	2.40E-06	1.16E-07	3.47E-06	2.36E-07	4.28E-07	3.78E-08	7.02E-07	1.82E-07	2.39E-07	1.73E-08	4.38E-07
2205	565936.3	4222205	1.81E-06	2.21E-06	1.16E-07	4.14E-06	9.60E-07	2.42E-06	1.16E-07	3.50E-06	2.38E-07	4.32E-07	3.81E-08	7.08E-07	1.84E-07	2.40E-07	1.74E-08	4.42E-07
2206	565940.1	4222214	1.82E-06	2.23E-06	1.17E-07	4.17E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.13E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
2207	565943.8	4222223	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.72E-07	2.46E-06	1.18E-07	3.55E-06	2.41E-07	4.38E-07	3.86E-08	7.17E-07	1.86E-07	2.44E-07	1.76E-08	4.48E-07
2208	565921.9	4222122	1.54E-06	1.89E-06	9.94E-08	3.53E-06	8.19E-07	2.07E-06	9.94E-08	2.99E-06	2.03E-07	3.68E-07	3.25E-08	6.04E-07	1.57E-07	2.05E-07	1.48E-08	3.77E-07
2209	565929.5	4222044	1.22E-06	1.49E-06	7.83E-08	2.78E-06	6.45E-07	1.63E-06	7.83E-08	2.35E-06	1.60E-07	2.90E-07	2.56E-08	4.76E-07	1.24E-07	1.62E-07	1.17E-08	2.97E-07
2210	565933.2	4222053	1.24E-06	1.52E-06	7.98E-08	2.84E-06	6.58E-07	1.66E-06	7.98E-08	2.40E-06	1.63E-07	2.96E-07	2.61E-08	4.85E-07	1.26E-07	1.65E-07	1.19E-08	3.03E-07
2211	565936.9	4222062	1.26E-06	1.54E-06	8.13E-08	2.89E-06	6.70E-07	1.69E-06	8.13E-08	2.44E-06	1.66E-07	3.01E-07	2.66E-08	4.94E-07	1.28E-07	1.68E-07	1.21E-08	3.08E-07
2212	565940.6	4222071	1.29E-06	1.57E-06	8.27E-08	2.94E-06	6.82E-07	1.72E-06	8.27E-08	2.49E-06	1.69E-07	3.07E-07	2.71E-08	5.03E-07	1.31E-07	1.71E-07	1.24E-08	3.14E-07
2213	565944.4	4222080	1.31E-06	1.6E-06	8.42E-08	2.99E-06	6.94E-07	1.75E-06	8.42E-08	2.53E-06	1.72E-07	3.12E-07	2.76E-08	5.12E-07	1.33E-07	1.74E-07	1.26E-08	3.19E-07
2214	565944.6	4222033	1.15E-06	1.4E-06	7.40E-08	2.63E-06	6.09E-07	1.54E-06	7.40E-08	2.22E-06	1.51E-07	2.74E-07	2.42E-08	4.49E-07	1.17E-07	1.53E-07	1.10E-08	2.80E-07
2215	565948.4	4222042	1.17E-06	1.43E-06	7.54E-08	2.68E-06	6.21E-07	1.57E-06	7.54E-08	2.26E-06	1.54E-07	2.79E-07	2.47E-08	4.58E-07	1.19E-07	1.56E-07	1.13E-08	2.86E-07
2216	565952.1	4222051	1.19E-06	1.46E-06	7.67E-08	2.72E-06	6.32E-07	1.60E-06	7.67E-08	2.30E-06	1.57E-07	2.84E-07	2.51E-08	4.66E-07	1.21E-07	1.58E-07	1.15E-08	2.91E-07
2217	565955.9	4222060	1.21E-06	1.48E-06	7.81E-08	2.77E-06	6.43E-07	1.62E-06	7.81E-08	2.35E-06	1.59E-07	2.90E-07	2.56E-08	4.74E-07	1.23E-07	1.61E-07	1.17E-08	2.96E-07
2218	565959.7	4222069	1.23E-06	1.51E-06	7.95E-08	2.82E-06	6.55E-07	1.65E-06	7.95E-08	2.39E-06	1.62E-07	2.95E-07	2.60E-08	4.83E-07	1.25E-07	1.64E-07	1.19E-08	3.01E-07
2219	565963.4	4222078	1.26E-06	1.53E-06	8.08E-08	2.87E-06	6.66E-07	1.68E-06	8.08E-08	2.43E-06	1.65E-07	3.00E-07	2.64E-08	4.91E-07	1.28E-07	1.67E-07	1.21E-08	3.06E-07
2220	565967.2	4222087	1.27E-06	1.56E-06	8.20E-08	2.91E-06	6.76E-07	1.71E-06	8.20E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.98E-07	1.30E-07	1.69E-07	1.22E-08	3.11E-07
2221	565971	4222096	1.29E-06	1.58E-06	8.32E-08	2.95E-06	6.85E-07	1.73E-06	8.32E-08	2.50E-06	1.70E-07	3.08E-07	2.72E-08	5.05E-07	1.31E-07	1.72E-07	1.24E-08	3.15E-07
2222	565974.8	4222105	1.31E-06	1.6E-06	8.44E-08	3.00E-06	6.95E-07	1.76E-06	8.44E-08	2.54E-06	1.72E-07	3.13E-07	2.76E-08	5.13E-07	1.33E-07	1.74E-07	1.26E-08	3.20E-07
2223	565978.5	4222114	1.33E-06	1.62E-06	8.56E-08	3.04E-06	7.05E-07	1.78E-06	8.56E-08	2.57E-06	1.75E-07	3.17E-07	2.80E-08	5.20E-07	1.35E-07	1.77E-07	1.28E-08	3.25E-07
2224	565982.3	4222123	1.35E-06	1.65E-06	8.67E-08	3.08E-06	7.14E-07	1.80E-06	8.67E-08	2.60E-06	1.77E-07	3.21E-07	2.84E-08	5.27E-07	1.37E-07	1.79E-07	1.29E-08	3.29E-07
2225	566023.8	4222223	1.47E-06	1.79E-06	9.46E-08	3.36E-06	7.79E-07	1.97E-06	9.46E-08	2.84E-06	1.93E-07	3.51E-07	3.09E-08	5.75E-07	1.49E-07	1.95E-07	1.41E-08	3.59E-07
2226	565626.9	4221740	5.56E-07	6.79E-07	3.58E-08	1.27E-06	2.95E-07	7.44E-07	3.58E-08	1.07E-06	7.30E-08	1.33E-07	1.17E-08	2.17E-07	5.65E-08	7.38E-08	5.34E-09	1.36E-07
2227	565635.9	4221743	5.63E-07	6.87E-07	3.62E-08	1.29E-06	2.98E-07	7.53E-07	3.62E-08	1.09E-06	7.39E-08	1.34E-07	1.18E-08	2.20E-07	5.72E-08	7.47E-08	5.40E-09	1.37E-07
2228	565644.9	4221747	5.69E-07	6.95E-07	3.66E-08	1.30E-06	3.02E-07	7.62E-07	3.66E-08	1.10E-06	7.48E-08	1.36E-07	1.20E-08	2.23E-07	5.79E-08	7.56E-08	5.47E-09	1.39E-07
2229	565653.8	4221751	5.76E-07	7.04E-07	3.71E-08	1.32E-06	3.05E-07	7.71E-07	3.71E-08	1.11E-06	7.57E-08	1.37E-07	1.21E-08	2.25E-07	5.85E-08	7.65E-08	5.54E-09	1.41E-07
2230	565662.8	4221754	5.83E-07	7.12E-07	3.75E-08	1.33E-06	3.09E-07	7.80E-07	3.75E-08	1.13E-06	7.65E-08	1.39E-07	1.23E-08	2.28E-07	5.92E-08	7.74E-08	5.60E-09	1.42E-07
2231	565958	4222017	1.08E-06	1.31E-06	6.92E-08	2.46E-06	5.70E-07	1.44E-06	6.92E-08	2.08E-06	1.41E-07	2.56E-07	2.26E-08	4.20E-07	1.09E-07	1.43E-07	1.03E-08	2.62E-07
2232	565961.7	4222026	1.1E-06	1.34E-06	7.05E-08	2.50E-06	5.81E-07	1.47E-06	7.05E-08	2.12E-06	1.44E-07	2.61E-07	2.31E-08	4.28E-07	1.11E-07	1.46E-07	1.05E-08	2.67E-07
2233	565965.4	4222035	1.12E-06	1.36E-06	7.18E-08	2.55E-06	5.91E-07	1.49E-06	7.18E-08	2.16E-06	1.46E-07	2.66E-07	2.35E-08	4.36E-07	1.13E-07	1.48E-07	1.07E-08	2.72E-07
2234	565969.2	4222044	1.14E-06	1.39E-06	7.31E-08	2.60E-06	6.02E-07	1.52E-06	7.31E-08	2.20E-06	1.49E-07	2.71E-07	2.39E-08	4.44E-07	1.15E-07	1.51E-07	1.09E-08	2.77E-07
2235	565972.9	4222053	1.16E-06	1.41E-06	7.44E-08	2.64E-06	6.13E-07	1.55E-06	7.44E-08	2.24E-06	1.52E-07	2.76E-07	2.43E-08	4.52E-07	1.17E-07	1.54E-07	1.11E-08	2.82E-07
2236	565976.6	4222061	1.18E-06	1.44E-06	7.57E-08	2.69E-06	6.24E-07	1.58E-06	7.57E-08	2.27E-06	1.54E-07	2.81E-07	2.48E-08	4.60E-07	1.20E-07	1.56E-07	1.13E-08	2.87E-07
2237	565980.4	4222070	1.19E-06	1.46E-06	7.69E-08	2.73E-06	6.33E-07	1.60E-06	7.69E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.92E-07
2238	565984.1	4222079	1.21E-06	1.48E-06	7.80E-08	2.77E-06	6.42E-07	1.62E-06	7.80E-08	2.34E-06	1.59E-07	2.89E-07	2.55E-08	4.74E-07	1.23E-07	1.61E-07	1.16E-08	2.96E-07
2239	565987.8	4222088	1.23E-06	1.5E-06	7.90E-08	2.80E-06	6.50E-07	1.64E-06	7.90E-08	2.37E-06	1.61E-07	2.93E-07	2.58E-08	4.80E-07	1.25E-07	1.63E-07	1.18E-08	2.99E-07
2240	565991.6	4222097	1.24E-06	1.52E-06	7.99E-08	2.84E-06	6.58E-07	1.66E-06	7.99E-08	2.40E-06	1.63E-07	2.96E-07	2.61E-08	4.85E-07	1.26E-07	1.65E-07	1.19E-08	3.03E-07
2241	565995.3	4222106	1.26E-06	1.54E-06	8.10E-08	2.88E-06	6.67E-07	1.68E-06	8.10E-08	2.43E-06	1.65E-07	3.00E-07	2.65E-08	4.92E-07	1.28E-07	1.67E-07	1.21E-08	3.07E-07
2242	565999	4222115	1.27E-06	1.56E-06	8.20E-08	2.91E-06	6.76E-07	1.71E-06	8.20E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.98E-07	1.30E-07	1.69E-07	1.22E-08	3.11E-07
2243	566002.8	4222124	1.29E-06	1.57E-06	8.30E-08	2.95E-06	6.84E-07	1.73E-06	8.30E-08	2.49E-06	1.69E-07	3.08E-07	2.72E-08	5.04E-07	1.31E-07	1.71E-07	1.24E-08	3.15E-07
2244	566006.5	4222133	1.3E-06	1.59E-06	8.39E-08	2.98E-06	6.91E-07	1.75E-06	8.39E-08	2.52E-06	1.71E-07	3.11E-07	2.75E-08	5.10E-07	1.32E-07	1.73E-07	1.25E-08	3.18E-07
2245	566010.2	4222142	1.32E-06	1.61E-06	8.48E-08	3.01E-06	6.98E-07	1.76E-06	8.48E-08	2.55E-06	1.73E-07	3.14E-07	2.77E-08	5.15E-07	1.34E-07	1.75E-07	1.27E-08	3.21E-07
2246	566014	4222151	1.33E-06	1.62E-06	8.56E-08	3.04E-06	7.05E-07	1.78E-06	8.56E-08	2.57E-06	1.75E-07	3.17E-07	2.80E-08	5.20E-07	1.35E-07	1.77E-07	1.28E-08	3.24E-07
2247	566017.7	4222160	1.34E-06	1.64E-06	8.63E-08	3.06E-06	7.11E-07	1.80E-06	8.63E-08	2.59E-06	1.76E-07	3.20E-07	2.82E-08	5.24E-07	1.36E-07	1.78E-07	1.29E-08	3.27E-07
2248	566036.4	4222205	1.38E-06	1.69E-06	8.89E-08	3.16E-06	7.32E-07	1.85E-06	8.89E-08	2.67E-06	1.81E-07	3.30E-07	2.91E-08	5.40E-07	1.40E-07	1.83E-07	1.33E-08	3.37E-07
2249	566040.1	4222214	1.39E-06	1.69E-06	8.91E-08	3.17E-06	7.34E-07	1.85E-06	8.91E-08	2.68E-06	1.82E-07	3.30E-07	2.92E-08	5.42E-07	1.41E-07	1.84E-07	1.33E-08	3.38E-07
2250	566043.8	4222223	1.39E-06	1.7E-06	8.95E-08	3.18E-06	7.37E-07	1.86E-06	8.95E-08	2.69E-06	1.83E-07	3.32E-07	2.93E-08	5.44E-07	1.41E-07	1.85E-07	1.34E-08	3.39E-07
2251	565628.5	4221720	5.26E-07	6.42E-07	3.38E-08	1.20E-06	2.79E-07	7.04E-07	3.38E-08	1.02E-06	6.90E-08	1.25E-07	1.11E-08	2.06E-07	5.34E-08	6.98E-08	5.05E-09	1.28E-07
2252	565637.6	4221724	5.32E-07	6.5E-07	3.42E-08	1.22E-06	2.82E-07	7.12E-07	3.42E-08	1.03E-06	6.99E-08	1.27E-07	1.12E-08	2.08E-07	5.41E-08	7.07E-08	5.11E-09	1.30E-07
2253	565646.7	4221728	5.38E-07	6.57E-07	3.46E-08	1.23E-06	2.85E-07	7.21E-07	3.46E-08	1.04E-06	7.07E-08	1.28E-07	1.13E-08	2.10E-07	5.47E-08	7.15E-08	5.17E-09	1.31E-07
2254	565655.8	4221731	5.44E-07	6.65E-07	3.50E-08	1.24E-06	2.89E-07	7.29E-07	3.50E-08	1.05E-06	7.15E-08	1.30E-07	1.15E-08	2.13E-07	5.53E-08	7.23E-08	5.23E-09	1.33E-07
2255	565664.9	4221735	5.51E-07	6.73E-07	3.54E-08	1.26E-06	2.92E-07	7.37E-07	3.54E-08	1.06E-06	7.23E-08	1.31E-07	1.16E-08	2.15E-07	5.60E-08	7.31E-08	5.29E-09	1.34E-07
2256	565674	4221739	5.57E-07	6.8E-07	3.58E-08	1.27E-06	2.95E-07	7.46E-07	3.58E-08	1.08E-06	7.31E-08	1.33E-07	1.17E-08	2.18E-07	5.66E-08	7.40E-08	5.35E-09	1.36E-07
2257	565683.1	4221743	5.63E-07	6.88E-07	3.62E-08	1.29E-06	2.99E-07	7.54E-07	3.62E-08	1.09E-06	7.40E-08	1.34E-07	1.19E-08	2.20E-07	5.72E-08	7.48E-08	5.41E-09	1.37E-07
2258	565692.2	4221746	5.69E-07	6.95E-07	3.66E-08	1.30E-06	3.02E-07	7.62E-07	3.66E-08	1.10E-06	7.48E-08	1.36E-07	1.20E-08	2.23E-07	5.79E-08	7.56E-08	5.47E-09	1.39E-07
2259	565701.2	4221750	5.76E-07	7.03E-07	3.70E-08	1.32E-06	3.05E-07	7.71E-07	3.70E-08	1.11E-06	7.56E-08	1.37E-07	1.21E-08	2.25E-07	5.85E-08	7.65E-08	5.53E-09	1.40E-07
2260	565710.3	4221754	5.82E-07	7.11E-07	3.75E-08	1.33E-06	3.08E-07	7.79E-07	3.75E-08	1.13E-06	7.64E-08	1.39E-07	1.23E-08	2.27E-07	5.91E-08	7.73E-08	5.59E-09	1.42E-07
2261	565719.4	4221758	5.88E-07	7.18E-07	3.79E-08	1.34E-06	3.12E-07	7.87E-07	3.79E-08	1.14E-06	7.72E-08	1.40E-07	1.24E-08	2.30E-07	5.98E-08	7.81E-08	5.65E-09	1.44E-07
2262	565728.5	4221761	5.94E-07	7.26E-07	3.82E-08	1.36E-06	3.15E-07	7.96E-07	3.82E-08	1.15E-06	7.80E-08	1.42E-07	1.25E-08	2.32E-07	6.04E-08	7.89E-08	5.71E-09	1.45E-07
2263	565973	4222005	1.02E-06	1.24E-06	6.56E-08	2.33E-06	5.40E-07	1.36E-06	6.56E-08	1.97E-06	1.34E-07	2.43E-07	2.15E-08	3.98E-07	1.04E-07	1.35E-07	9.79E-09	2.49E-07
2264	565976.8	4222014	1.04E-06	1.27E-06	6.68E-08	2.37E-06	5.50E-07	1.39E-06	6.68E-08	2.01E-06	1.36E-07	2.48E-07	2.19E-08	4.06E-07	1.05E-07	1.38E-07	9.97E-09	2.53E-07
2265	565980.6	4222023	1.06E-06	1.29E-06	6.80E-08	2.41E-06	5.60E-07	1.41E-06	6.80E-08	2.04E-06	1.39E-07	2.52E-07	2.22E-08	4.13E-07	1.07E-07	1.40E-07	1.01E-08	2.58E-07
2266	565984.4	4222032	1.07E-06	1.31E-06	6.92E-08	2.46E-06	5.70E-07	1.44E-06	6.92E-08	2.08E-06	1.41E-07	2.56E-07	2.26E-08	4.20E-07	1.09E-07	1.43E-07	1.03E-08	2.62E-07
2267	565988.1	4222041	1.09E-06	1.34E-06	7.04E-08	2.50E-06	5.80E-07	1.46E-06	7.04E-08	2.11E-06	1.44E-07	2.61E-07	2.30E-08	4.28E-07	1.11E-07	1.45E-07	1.05E-08	2.67E-07
2268	565991.9	4222050	1.11E-06	1.36E-06	7.16E-08	2.54E-06	5.90E-07	1.49E-06	7.16E-08	2.15E-06	1.46E-07	2.65E-07	2.34E-08	4.35E-07	1.13E-07	1.48E-07	1.07E-08	2.71E-07
2269	565995.7	4222059	1.13E-06	1.38E-06	7.27E-08	2.58E-06	5.99E-07	1.51E-06	7.27E-08	2.18E-06	1.48E-07	2.70E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
2270	565999.5	4222068	1.15E-06	1.4E-06	7.37E-08	2.62E-06	6.07E-07	1.53E-06	7.37E-08	2.22E-06	1.50E-07	2.73E-07	2.41E-08	4.48E-07	1.16E-07	1.52E-07	1.10E-08	2.80E-07
2271	566003.3	4222077	1.16E-06	1.42E-06	7.47E-08	2.65E-06	6.15E-07	1.55E-06	7.47E-08	2.24E-06	1.52E-07	2.77E-07	2.44E-08	4.54E-07	1.18E-07	1.54E-07	1.12E-08	2.83E-07
2272	566007.1	4222086	1.18E-06	1.44E-06	7.57E-08	2.69E-06	6.23E-07	1.57E-06	7.57E-08	2.27E-06	1.54E-07	2.81E-07	2.48E-08	4.60E-07	1.19E-07	1.56E-07	1.13E-08	2.87E-07
2273	566010.8	4222095	1.19E-06	1.45E-06	7.66E-08	2.72E-06	6.31E-07	1.59E-06	7.66E-08	2.30E-06	1.56E-07	2.84E-07	2.51E-08	4.65E-07	1.21E-07	1.58E-07	1.14E-08	2.90E-07
2274	566014.6	4222105	1.21E-06	1.47E-06	7.76E-08	2.76E-06	6.39E-07	1.61E-06	7.76E-08	2.33E-06	1.58E-07	2.88E-07	2.54E-08	4.71E-07	1.23E-07	1.60E-07	1.16E-08	2.94E-07
2275	566018.4	4222114	1.22E-06	1.49E-06	7.85E-08	2.79E-06	6.47E-07	1.63E-06	7.85E-08	2.36E-06	1.60E-07	2.91E-07	2.57E-08	4.77E-07	1.24E-07	1.62E-07	1.17E-08	2.98E-07
2276	566022.2	4222123	1.23E-06	1.5E-06	7.93E-08	2.82E-06	6.53E-07	1.65E-06	7.93E-08	2.38E-06	1.62E-07	2.94E-07	2.59E-08	4.82E-07	1.25E-07	1.64E-07	1.18E-08	3.01E-07
2277	566026	4222132	1.24E-06	1.52E-06	8.01E-08	2.84E-06	6.60E-07	1.67E-06	8.01E-08	2.41E-06	1.63E-07	2.97E-07	2.62E-08	4.86E-07	1.26E-07	1.65E-07	1.20E-08	3.04E-07
2278	566029.7	4222141	1.26E-06	1.53E-06	8.08E-08	2.87E-06	6.66E-07	1.68E-06	8.08E-08	2.43E-06	1.65E-07	3.00E-07	2.64E-08	4.91E-07	1.28E-07	1.67E-07	1.21E-08	3.07E-07
2279	566033.5	4222150	1.27E-06	1.55E-06	8.15E-08	2.90E-06	6.72E-07	1.70E-06	8.15E-08	2.45E-06	1.66E-07	3.02E-07	2.67E-08	4.95E-07	1.29E-07	1.68E-07	1.22E-08	3.09E-07
2280	566037.3	4222159	1.28E-06	1.56E-06	8.22E-08	2.92E-06	6.77E-07	1.71E-06	8.22E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	4.99E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
2281	566041.1	4222168	1.29E-06	1.57E-06	8.27E-08	2.94E-06	6.81E-07	1.72E-06	8.27E-08	2.48E-06	1.69E-07	3.07E-07	2.71E-08	5.02E-07	1.31E-07	1.71E-07	1.23E-08	3.14E-07
2282	566052.4	4222195	1.3E-06	1.59E-06	8.37E-08	2.97E-06	6.89E-07	1.74E-06	8.37E-08	2.51E-06	1.71E-07	3.10E-07	2.74E-08	5.08E-07	1.32E-07	1.73E-07	1.25E-08	3.17E-07
2283	565627.3	4221700	4.96E-07	6.06E-07	3.19E-08	1.13E-06	2.63E-07	6.65E-07	3.19E-08	9.60E-07	6.52E-08	1.18E-07	1.05E-08	1.94E-07	5.04E-08	6.59E-08	4.77E-09	1.21E-07
2284	565636.3	4221703	5.02E-07	6.13E-07	3.23E-08	1.15E-06	2.66E-07	6.72E-07	3.23E-08	9.71E-07	6.59E-08	1.20E-07	1.06E-08	1.96E-07	5.10E-08	6.67E-08	4.82E-09	1.23E-07
2285	565645.3	4221707	5.08E-07	6.2E-07	3.27E-08	1.16E-06	2.69E-07	6.80E-07	3.27E-08	9.82E-07	6.67E-08	1.21E-07	1.07E-08	1.99E-07	5.16E-08	6.75E-08	4.88E-09	1.24E-07
2286	565654.3	4221711	5.13E-07	6.27E-07	3.30E-08	1.17E-06	2.72E-07	6.87E-07	3.30E-08	9.93E-07	6.74E-08	1.23E-07	1.08E-08	2.01E-07	5.22E-08	6.82E-08	4.93E-09	1.25E-07
2287	565663.3	4221715	5.19E-07	6.34E-07	3.34E-08	1.19E-06	2.75E-07	6.95E-07	3.34E-08	1.00E-06	6.82E-08	1.24E-07	1.09E-08	2.03E-07	5.28E-08	6.90E-08	4.99E-09	1.27E-07
2288	565672.3	4221718	5.25E-07	6.41E-07	3.38E-08	1.20E-06	2.78E-07	7.03E-07	3.38E-08	1.01E-06	6.89E-08	1.25E-07	1.11E-08	2.05E-07	5.33E-08	6.97E-08	5.04E-09	1.28E-07
2289	565681.3	4221722	5.31E-07	6.48E-07	3.41E-08	1.21E-06	2.81E-07	7.10E-07	3.41E-08	1.03E-06	6.97E-08	1.27E-07	1.12E-08	2.07E-07	5.39E-08	7.05E-08	5.10E-09	1.29E-07
2290	565690.3	4221726	5.36E-07	6.55E-07	3.45E-08	1.23E-06	2.84E-07	7.18E-07	3.45E-08	1.04E-06	7.04E-08	1.28E-07	1.13E-08	2.10E-07	5.45E-08	7.12E-08	5.15E-09	1.31E-07
2291	565699.3	4221729	5.42E-07	6.62E-07	3.49E-08	1.24E-06	2.87E-07	7.25E-07	3.49E-08	1.05E-06	7.12E-08	1.29E-07	1.14E-08	2.12E-07	5.51E-08	7.20E-08	5.21E-09	1.32E-07
2292	565708.3	4221733	5.48E-07	6.69E-07	3.52E-08	1.25E-06	2.90E-07	7.33E-07	3.52E-08	1.06E-06	7.19E-08	1.31E-07	1.15E-08	2.14E-07	5.56E-08	7.27E-08	5.26E-09	1.34E-07
2293	565717.3	4221737	5.53E-07	6.76E-07	3.56E-08	1.26E-06	2.93E-07	7.41E-07	3.56E-08	1.07E-06	7.27E-08	1.32E-07	1.17E-08	2.16E-07	5.62E-08	7.35E-08	5.32E-09	1.35E-07
2294	565726.3	4221740	5.59E-07	6.83E-07	3.60E-08	1.28E-06	2.96E-07	7.49E-07	3.60E-08	1.08E-06	7.34E-08	1.33E-07	1.18E-08	2.19E-07	5.68E-08	7.43E-08	5.37E-09	1.36E-07
2295	565753.3	4221752	5.76E-07	7.03E-07	3.71E-08

2308	566008.9	4222043	1.06E-06	1.3E-06	6.84E-08	2.43E-06	5.63E-07	1.42E-06	6.84E-08	2.05E-06	1.40E-07	2.54E-07	2.24E-08	4.15E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
2309	566012.7	4222052	1.08E-06	1.32E-06	6.94E-08	2.46E-06	5.72E-07	1.44E-06	6.94E-08	2.08E-06	1.42E-07	2.57E-07	2.27E-08	4.22E-07	1.10E-07	1.43E-07	1.04E-08	2.63E-07
2310	566016.4	4222061	1.09E-06	1.34E-06	7.04E-08	2.50E-06	5.80E-07	1.47E-06	7.04E-08	2.12E-06	1.44E-07	2.61E-07	2.30E-08	4.28E-07	1.11E-07	1.45E-07	1.05E-08	2.67E-07
2311	566020.1	4222070	1.11E-06	1.36E-06	7.14E-08	2.54E-06	5.88E-07	1.49E-06	7.14E-08	2.15E-06	1.46E-07	2.65E-07	2.34E-08	4.34E-07	1.13E-07	1.47E-07	1.07E-08	2.71E-07
2312	566023.9	4222079	1.12E-06	1.37E-06	7.23E-08	2.57E-06	5.96E-07	1.50E-06	7.23E-08	2.17E-06	1.48E-07	2.68E-07	2.37E-08	4.39E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
2313	566027.6	4222088	1.14E-06	1.39E-06	7.32E-08	2.60E-06	6.03E-07	1.52E-06	7.32E-08	2.20E-06	1.49E-07	2.71E-07	2.40E-08	4.45E-07	1.16E-07	1.51E-07	1.09E-08	2.78E-07
2314	566031.4	4222097	1.15E-06	1.4E-06	7.40E-08	2.63E-06	6.10E-07	1.54E-06	7.40E-08	2.22E-06	1.51E-07	2.74E-07	2.42E-08	4.50E-07	1.17E-07	1.53E-07	1.10E-08	2.81E-07
2315	566035.1	4222106	1.16E-06	1.42E-06	7.48E-08	2.66E-06	6.16E-07	1.56E-06	7.48E-08	2.25E-06	1.53E-07	2.77E-07	2.45E-08	4.54E-07	1.18E-07	1.54E-07	1.12E-08	2.84E-07
2316	566038.9	4222115	1.17E-06	1.43E-06	7.54E-08	2.68E-06	6.21E-07	1.57E-06	7.54E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.58E-07	1.19E-07	1.56E-07	1.13E-08	2.86E-07
2317	566042.6	4222124	1.18E-06	1.44E-06	7.60E-08	2.70E-06	6.26E-07	1.58E-06	7.60E-08	2.28E-06	1.55E-07	2.82E-07	2.49E-08	4.61E-07	1.20E-07	1.57E-07	1.13E-08	2.88E-07
2318	566046.4	4222133	1.19E-06	1.45E-06	7.66E-08	2.72E-06	6.31E-07	1.59E-06	7.66E-08	2.30E-06	1.56E-07	2.84E-07	2.51E-08	4.65E-07	1.21E-07	1.58E-07	1.14E-08	2.91E-07
2319	566050.1	4222142	1.2E-06	1.47E-06	7.73E-08	2.74E-06	6.37E-07	1.61E-06	7.73E-08	2.32E-06	1.58E-07	2.86E-07	2.53E-08	4.69E-07	1.22E-07	1.59E-07	1.15E-08	2.93E-07
2320	566053.9	4222151	1.21E-06	1.48E-06	7.79E-08	2.77E-06	6.42E-07	1.62E-06	7.79E-08	2.34E-06	1.59E-07	2.89E-07	2.55E-08	4.73E-07	1.23E-07	1.61E-07	1.16E-08	2.95E-07
2321	566065.1	4222178	1.22E-06	1.49E-06	7.87E-08	2.80E-06	6.48E-07	1.64E-06	7.87E-08	2.36E-06	1.61E-07	2.92E-07	2.58E-08	4.78E-07	1.24E-07	1.62E-07	1.18E-08	2.99E-07
2322	566068.8	4222187	1.22E-06	1.49E-06	7.86E-08	2.79E-06	6.47E-07	1.63E-06	7.86E-08	2.36E-06	1.60E-07	2.91E-07	2.57E-08	4.77E-07	1.24E-07	1.62E-07	1.17E-08	2.98E-07
2323	566072.6	4222196	1.22E-06	1.49E-06	7.88E-08	2.80E-06	6.49E-07	1.64E-06	7.88E-08	2.37E-06	1.61E-07	2.92E-07	2.58E-08	4.78E-07	1.24E-07	1.63E-07	1.18E-08	2.99E-07
2324	566076.3	4222205	1.23E-06	1.5E-06	7.89E-08	2.80E-06	6.50E-07	1.64E-06	7.89E-08	2.37E-06	1.61E-07	2.93E-07	2.58E-08	4.79E-07	1.25E-07	1.63E-07	1.18E-08	2.99E-07
2325	566080.1	4222214	1.23E-06	1.5E-06	7.91E-08	2.81E-06	6.52E-07	1.65E-06	7.91E-08	2.38E-06	1.61E-07	2.93E-07	2.59E-08	4.81E-07	1.25E-07	1.63E-07	1.18E-08	3.00E-07
2326	566083.8	4222222	1.23E-06	1.51E-06	7.95E-08	2.82E-06	6.55E-07	1.65E-06	7.95E-08	2.39E-06	1.62E-07	2.95E-07	2.60E-08	4.83E-07	1.25E-07	1.64E-07	1.19E-08	3.01E-07
2327	565510.3	4221632	4.01E-07	4.9E-07	2.58E-08	9.17E-07	2.13E-07	5.37E-07	2.58E-08	7.76E-07	5.27E-08	9.58E-08	8.45E-09	1.57E-07	4.08E-08	5.33E-08	3.86E-09	9.80E-08
2328	565519.5	4221635	4.07E-07	4.97E-07	2.62E-08	9.29E-07	2.16E-07	5.44E-07	2.62E-08	7.86E-07	5.34E-08	9.70E-08	8.56E-09	1.59E-07	4.13E-08	5.40E-08	3.91E-09	9.92E-08
2329	565628.8	4221680	4.71E-07	5.75E-07	3.03E-08	1.08E-06	2.50E-07	6.31E-07	3.03E-08	9.11E-07	6.19E-08	1.12E-07	9.92E-09	1.84E-07	4.79E-08	6.26E-08	4.53E-09	1.15E-07
2330	565637.9	4221684	4.76E-07	5.82E-07	3.07E-08	1.09E-06	2.53E-07	6.38E-07	3.07E-08	9.21E-07	6.26E-08	1.14E-07	1.00E-08	1.86E-07	4.84E-08	6.33E-08	4.58E-09	1.16E-07
2331	565647	4221688	4.82E-07	5.88E-07	3.10E-08	1.10E-06	2.55E-07	6.45E-07	3.10E-08	9.32E-07	6.33E-08	1.15E-07	1.01E-08	1.88E-07	4.90E-08	6.40E-08	4.63E-09	1.18E-07
2332	565656.1	4221692	4.87E-07	5.95E-07	3.14E-08	1.11E-06	2.58E-07	6.52E-07	3.14E-08	9.42E-07	6.40E-08	1.16E-07	1.03E-08	1.90E-07	4.95E-08	6.47E-08	4.68E-09	1.19E-07
2333	565665.2	4221695	4.93E-07	6.02E-07	3.17E-08	1.13E-06	2.61E-07	6.59E-07	3.17E-08	9.52E-07	6.47E-08	1.18E-07	1.04E-08	1.93E-07	5.01E-08	6.54E-08	4.73E-09	1.20E-07
2334	565674.3	4221699	4.98E-07	6.08E-07	3.20E-08	1.14E-06	2.64E-07	6.67E-07	3.20E-08	9.63E-07	6.54E-08	1.19E-07	1.05E-08	1.95E-07	5.06E-08	6.61E-08	4.78E-09	1.22E-07
2335	565683.4	4221703	5.03E-07	6.15E-07	3.24E-08	1.15E-06	2.67E-07	6.74E-07	3.24E-08	9.73E-07	6.61E-08	1.20E-07	1.06E-08	1.97E-07	5.11E-08	6.68E-08	4.83E-09	1.23E-07
2336	565692.5	4221707	5.08E-07	6.21E-07	3.27E-08	1.16E-06	2.70E-07	6.81E-07	3.27E-08	9.83E-07	6.68E-08	1.21E-07	1.07E-08	1.99E-07	5.17E-08	6.75E-08	4.89E-09	1.24E-07
2337	565701.6	4221710	5.14E-07	6.27E-07	3.31E-08	1.17E-06	2.72E-07	6.88E-07	3.31E-08	9.93E-07	6.75E-08	1.23E-07	1.08E-08	2.01E-07	5.22E-08	6.83E-08	4.94E-09	1.25E-07
2338	565710.7	4221714	5.19E-07	6.34E-07	3.34E-08	1.19E-06	2.75E-07	6.95E-07	3.34E-08	1.00E-06	6.82E-08	1.24E-07	1.09E-08	2.03E-07	5.28E-08	6.90E-08	4.99E-09	1.27E-07
2339	565719.9	4221718	5.25E-07	6.41E-07	3.38E-08	1.20E-06	2.78E-07	7.02E-07	3.38E-08	1.01E-06	6.89E-08	1.25E-07	1.10E-08	2.05E-07	5.33E-08	6.97E-08	5.04E-09	1.28E-07
2340	565729	4221722	5.3E-07	6.47E-07	3.41E-08	1.21E-06	2.81E-07	7.10E-07	3.41E-08	1.02E-06	6.96E-08	1.26E-07	1.12E-08	2.07E-07	5.39E-08	7.04E-08	5.09E-09	1.29E-07
2341	565756.3	4221733	5.46E-07	6.67E-07	3.51E-08	1.25E-06	2.89E-07	7.31E-07	3.51E-08	1.06E-06	7.17E-08	1.30E-07	1.15E-08	2.13E-07	5.55E-08	7.25E-08	5.24E-09	1.33E-07
2342	565765.4	4221737	5.51E-07	6.73E-07	3.55E-08	1.26E-06	2.92E-07	7.38E-07	3.55E-08	1.07E-06	7.24E-08	1.31E-07	1.16E-08	2.15E-07	5.60E-08	7.32E-08	5.29E-09	1.34E-07
2343	565774.5	4221740	5.56E-07	6.79E-07	3.58E-08	1.27E-06	2.95E-07	7.45E-07	3.58E-08	1.08E-06	7.30E-08	1.33E-07	1.17E-08	2.17E-07	5.65E-08	7.39E-08	5.34E-09	1.36E-07
2344	565783.6	4221744	5.61E-07	6.85E-07	3.61E-08	1.28E-06	2.98E-07	7.51E-07	3.61E-08	1.09E-06	7.37E-08	1.34E-07	1.18E-08	2.19E-07	5.70E-08	7.46E-08	5.39E-09	1.37E-07
2345	565792.7	4221748	5.66E-07	6.92E-07	3.64E-08	1.29E-06	3.00E-07	7.58E-07	3.64E-08	1.09E-06	7.44E-08	1.35E-07	1.19E-08	2.21E-07	5.75E-08	7.52E-08	5.44E-09	1.38E-07
2346	565801.8	4221752	5.71E-07	6.98E-07	3.68E-08	1.31E-06	3.03E-07	7.65E-07	3.68E-08	1.10E-06	7.50E-08	1.36E-07	1.20E-08	2.23E-07	5.81E-08	7.59E-08	5.49E-09	1.39E-07
2347	565811	4221755	5.76E-07	7.04E-07	3.71E-08	1.32E-06	3.05E-07	7.71E-07	3.71E-08	1.11E-06	7.57E-08	1.37E-07	1.21E-08	2.25E-07	5.86E-08	7.65E-08	5.54E-09	1.41E-07
2348	565820.1	4221759	5.81E-07	7.1E-07	3.74E-08	1.33E-06	3.08E-07	7.78E-07	3.74E-08	1.12E-06	7.63E-08	1.39E-07	1.22E-08	2.27E-07	5.90E-08	7.72E-08	5.58E-09	1.42E-07
2349	565829.2	4221763	5.86E-07	7.15E-07	3.77E-08	1.34E-06	3.11E-07	7.84E-07	3.77E-08	1.13E-06	7.69E-08	1.40E-07	1.23E-08	2.29E-07	5.95E-08	7.78E-08	5.63E-09	1.43E-07
2350	565838.3	4221767	5.9E-07	7.21E-07	3.80E-08	1.35E-06	3.13E-07	7.90E-07	3.80E-08	1.14E-06	7.75E-08	1.41E-07	1.24E-08	2.31E-07	6.00E-08	7.84E-08	5.67E-09	1.44E-07
2351	565847.4	4221770	5.95E-07	7.27E-07	3.83E-08	1.36E-06	3.15E-07	7.96E-07	3.83E-08	1.15E-06	7.81E-08	1.42E-07	1.25E-08	2.33E-07	6.05E-08	7.90E-08	5.72E-09	1.45E-07
2352	565997.6	4221968	8.92E-07	1.09E-06	5.74E-08	2.04E-06	4.73E-07	1.19E-06	5.74E-08	1.72E-06	1.17E-07	2.13E-07	1.88E-08	3.49E-07	9.06E-08	1.18E-07	8.57E-09	2.18E-07
2353	566001.4	4221977	9.1E-07	1.11E-06	5.85E-08	2.08E-06	4.82E-07	1.22E-06	5.85E-08	1.76E-06	1.19E-07	2.17E-07	1.92E-08	3.56E-07	9.24E-08	1.21E-07	8.74E-09	2.22E-07
2354	566005.2	4221986	9.26E-07	1.13E-06	5.96E-08	2.12E-06	4.91E-07	1.24E-06	5.96E-08	1.79E-06	1.22E-07	2.21E-07	1.95E-08	3.62E-07	9.41E-08	1.23E-07	8.89E-09	2.26E-07
2355	566009	4221995	9.42E-07	1.15E-06	6.06E-08	2.15E-06	4.99E-07	1.26E-06	6.06E-08	1.82E-06	1.24E-07	2.25E-07	1.98E-08	3.68E-07	9.57E-08	1.25E-07	9.05E-09	2.30E-07
2356	566012.8	4222004	9.58E-07	1.17E-06	6.17E-08	2.19E-06	5.08E-07	1.28E-06	6.17E-08	1.85E-06	1.26E-07	2.29E-07	2.02E-08	3.75E-07	9.74E-08	1.27E-07	9.21E-09	2.34E-07
2357	566016.6	4222013	9.75E-07	1.19E-06	6.28E-08	2.23E-06	5.17E-07	1.31E-06	6.28E-08	1.89E-06	1.28E-07	2.33E-07	2.05E-08	3.81E-07	9.91E-08	1.30E-07	9.37E-09	2.38E-07
2358	566020.4	4222022	9.92E-07	1.21E-06	6.38E-08	2.27E-06	5.26E-07	1.33E-06	6.38E-08	1.92E-06	1.30E-07	2.37E-07	2.09E-08	3.88E-07	1.01E-07	1.32E-07	9.53E-09	2.42E-07
2359	566024.2	4222031	1.01E-06	1.23E-06	6.48E-08	2.30E-06	5.34E-07	1.35E-06	6.48E-08	1.95E-06	1.32E-07	2.40E-07	2.12E-08	3.94E-07	1.02E-07	1.34E-07	9.68E-09	2.46E-07
2360	566027.9	4222040	1.02E-06	1.25E-06	6.58E-08	2.34E-06	5.42E-07	1.37E-06	6.58E-08	1.98E-06	1.34E-07	2.44E-07	2.15E-08	4.00E-07	1.04E-07	1.36E-07	9.83E-09	2.50E-07
2361	566031.7	4222050	1.04E-06	1.27E-06	6.69E-08	2.37E-06	5.51E-07	1.39E-06	6.69E-08	2.01E-06	1.36E-07	2.48E-07	2.19E-08	4.06E-07	1.06E-07	1.38E-07	9.98E-09	2.54E-07
2362	566035.5	4222059	1.05E-06	1.29E-06	6.79E-08	2.41E-06	5.59E-07	1.41E-06	6.79E-08	2.04E-06	1.38E-07	2.52E-07	2.22E-08	4.12E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
2363	566039.3	4222068	1.07E-06	1.31E-06	6.88E-08	2.44E-06	5.67E-07	1.43E-06	6.88E-08	2.07E-06	1.40E-07	2.55E-07	2.25E-08	4.18E-07	1.09E-07	1.42E-07	1.03E-08	2.61E-07
2364	566043.1	4222077	1.08E-06	1.32E-06	6.96E-08	2.47E-06	5.74E-07	1.45E-06	6.96E-08	2.09E-06	1.42E-07	2.58E-07	2.28E-08	4.23E-07	1.10E-07	1.44E-07	1.04E-08	2.64E-07
2365	566046.9	4222086	1.09E-06	1.34E-06	7.05E-08	2.50E-06	5.80E-07	1.47E-06	7.05E-08	2.12E-06	1.44E-07	2.61E-07	2.31E-08	4.28E-07	1.11E-07	1.45E-07	1.05E-08	2.67E-07
2366	566050.7	4222095	1.11E-06	1.35E-06	7.13E-08	2.53E-06	5.87E-07	1.48E-06	7.13E-08	2.14E-06	1.45E-07	2.64E-07	2.33E-08	4.33E-07	1.13E-07	1.47E-07	1.06E-08	2.70E-07
2367	566054.5	4222104	1.12E-06	1.36E-06	7.19E-08	2.55E-06	5.92E-07	1.50E-06	7.19E-08	2.16E-06	1.47E-07	2.67E-07	2.35E-08	4.37E-07	1.14E-07	1.48E-07	1.07E-08	2.73E-07
2368	566058.3	4222113	1.12E-06	1.37E-06	7.24E-08	2.57E-06	5.96E-07	1.51E-06	7.24E-08	2.17E-06	1.48E-07	2.68E-07	2.37E-08	4.40E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
2369	566062.1	4222122	1.13E-06	1.38E-06	7.27E-08	2.58E-06	5.99E-07	1.51E-06	7.27E-08	2.18E-06	1.48E-07	2.70E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
2370	566065.9	4222131	1.14E-06	1.39E-06	7.32E-08	2.60E-06	6.03E-07	1.52E-06	7.32E-08	2.20E-06	1.49E-07	2.71E-07	2.39E-08	4.44E-07	1.16E-07	1.51E-07	1.09E-08	2.77E-07
2371	566069.7	4222141	1.14E-06	1.4E-06	7.36E-08	2.61E-06	6.07E-07	1.53E-06	7.36E-08	2.21E-06	1.50E-07	2.73E-07	2.41E-08	4.47E-07	1.16E-07	1.52E-07	1.10E-08	2.79E-07
2372	566081	4222168	1.15E-06	1.4E-06	7.39E-08	2.62E-06	6.09E-07	1.54E-06	7.39E-08	2.22E-06	1.51E-07	2.74E-07	2.42E-08	4.49E-07	1.17E-07	1.53E-07	1.10E-08	2.80E-07
2373	566084.8	4222177	1.15E-06	1.4E-06	7.37E-08	2.62E-06	6.07E-07	1.53E-06	7.37E-08	2.21E-06	1.50E-07	2.73E-07	2.41E-08	4.48E-07	1.16E-07	1.52E-07	1.10E-08	2.80E-07
2374	566088.6	4222186	1.14E-06	1.39E-06	7.34E-08	2.61E-06	6.05E-07	1.53E-06	7.34E-08	2.21E-06	1.50E-07	2.72E-07	2.40E-08	4.46E-07	1.16E-07	1.52E-07	1.10E-08	2.79E-07
2375	566092.4	4222195	1.15E-06	1.4E-06	7.37E-08	2.62E-06	6.07E-07	1.53E-06	7.37E-08	2.21E-06	1.50E-07	2.73E-07	2.41E-08	4.48E-07	1.16E-07	1.52E-07	1.10E-08	2.80E-07
2376	566096.2	4222204	1.15E-06	1.41E-06	7.42E-08	2.63E-06	6.11E-07	1.54E-06	7.42E-08	2.23E-06	1.51E-07	2.75E-07	2.43E-08	4.51E-07	1.17E-07	1.53E-07	1.11E-08	2.81E-07
2377	566100	4222213	1.16E-06	1.42E-06	7.47E-08	2.65E-06	6.15E-07	1.55E-06	7.47E-08	2.24E-06	1.52E-07	2.77E-07	2.44E-08	4.54E-07	1.18E-07	1.54E-07	1.11E-08	2.83E-07
2378	566103.8	4222222	1.17E-06	1.43E-06	7.51E-08	2.67E-06	6.19E-07	1.56E-06	7.51E-08	2.26E-06	1.53E-07	2.79E-07	2.46E-08	4.56E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
2379	565501.2	4221628	3.96E-07	4.84E-07	2.55E-08	9.06E-07	2.10E-07	5.31E-07	2.55E-08	7.66E-07	5.20E-08	9.45E-08	8.34E-09	1.55E-07	4.03E-08	5.26E-08	3.81E-09	9.67E-08
2380	565491.3	4221628	3.95E-07	4.82E-07	2.54E-08	9.02E-07	2.09E-07	5.29E-07	2.54E-08	7.63E-07	5.18E-08	9.42E-08	8.31E-09	1.54E-07	4.01E-08	5.24E-08	3.79E-09	9.63E-08
2381	565481.4	4221628	3.93E-07	4.8E-07	2.53E-08	8.99E-07	2.09E-07	5.27E-07	2.53E-08	7.61E-07	5.17E-08	9.39E-08	8.29E-09	1.54E-07	4.00E-08	5.23E-08	3.78E-09	9.60E-08
2382	565238.2	4222232	1.03E-05	1.26E-05	6.63E-07	2.36E-05	5.46E-06	1.38E-05	6.63E-07	1.99E-05	1.35E-06	2.46E-06	2.17E-07	4.03E-06	1.05E-06	1.37E-06	9.90E-08	2.52E-06
2383	565236.9	4222248	1.2E-05	1.46E-05	7.69E-07	2.73E-05	6.34E-06	1.60E-05	7.69E-07	2.31E-05	1.57E-06	2.85E-06	2.52E-07	4.67E-06	1.21E-06	1.59E-06	1.15E-07	2.92E-06
2384	565239.1	4222266	1.39E-05	1.7E-05	8.94E-07	3.17E-05	7.36E-06	1.86E-05	8.94E-07	2.68E-05	1.82E-06	3.31E-06	2.92E-07	5.43E-06	1.41E-06	1.84E-06	1.33E-07	3.39E-06
2385	565240.2	4222275	1.47E-05	1.79E-05	9.45E-07	3.36E-05	7.79E-06	1.97E-05	9.45E-07	2.84E-05	1.93E-06	3.50E-06	3.09E-07	5.74E-06	1.49E-06	1.95E-06	1.41E-07	3.58E-06
2386	565241.3	4222284	1.53E-05	1.87E-05	9.86E-07	3.50E-05	8.13E-06	2.05E-05	9.86E-07	2.96E-05	2.01E-06	3.66E-06	3.23E-07	5.99E-06	1.56E-06	2.04E-06	1.47E-07	3.74E-06
2387	565242.4	4222293	1.58E-05	1.93E-05	1.02E-06	3.61E-05	8.37E-06	2.11E-05	1.02E-06	3.05E-05	2.07E-06	3.77E-06	3.32E-07	6.17E-06	1.60E-06	2.10E-06	1.52E-07	3.85E-06
2388	565243.5	4222302	1.61E-05	1.96E-05	1.03E-06	3.67E-05	8.51E-06	2.15E-05	1.03E-06	3.10E-05	2.11E-06	3.83E-06	3.38E-07	6.28E-06	1.63E-06	2.13E-06	1.54E-07	3.92E-06
2389	565228.4	4222233	9.78E-06	1.19E-05	6.29E-07	2.24E-05	5.18E-06	1.31E-05	6.29E-07	1.89E-05	1.28E-06	2.33E-06	2.06E-07	3.82E-06	9.94E-07	1.30E-06	9.40E-08	2.39E-06
2390	565233.2	4222217	8.65E-06	1.06E-05	5.57E-07	1.98E-05	4.58E-06	1.16E-05	5.57E-07	1.67E-05	1.14E-06	2.06E-06	1.82E-07	3.38E-06	8.79E-07	1.15E-06	8.31E-08	2.11E-06
2391	565227.1	4222249	1.11E-05	1.36E-05	7.16E-07	2.54E-05	5.89E-06	1.49E-05	7.16E-07	2.15E-05	1.46E-06	2.65E-06	2.34E-07	4.35E-06	1.13E-06	1.48E-06	1.07E-07	2.71E-06
2392	565228.2	4222258	1.19E-05	1.46E-05	7.67E-07	2.73E-05	6.32E-06	1.60E-05	7.67E-07	2.31E-05	1.57E-06	2.84E-06	2.51E-07	4.66E-06	1.21E-06	1.58E-06	1.15E-07	2.91E-06
2393	565229.3	4222267	1.27E-05	1.55E-05	8.15E-07	2.89E-05	6.71E-06	1.70E-05	8.15E-07	2.45E-05	1.66E-06	3.02E-06	2.67E-07	4.95E-06	1.29E-06	1.68E-06	1.22E-07	3.09E-06
2394	565230.4	4222276	1.33E-05	1.62E-05	8.56E-07	3.04E-05	7.05E-06	1.78E-05	8.56E-07	2.57E-05	1.75E-06	3.17E-06	2.80E-07	5.20E-06	1.35E-06	1.77E-06	1.28E-07	3.25E-06
2395	565231.5	4222285	1.38E-05	1.69E-05	8.89E-07	3.16E-05	7.32E-06	1.85E-05	8.89E-07	2.67E-05	1.81E-06	3.29E-06	2.91E-07	5.40E-06	1.40E-06	1.83E-06	1.33E-07	3.37E-06
2396	565233.7	4222303	1.44E-05	1.76E-05	9.26E-07	3.29E-05	7.63E-06	1.93E-05	9.26E-07	2.78E-05	1.89E-06	3.43E-06	3.03E-07	5.63E-06	1.46E-06	1.91E-06	1.38E-07	3.51E-06
2397	565218.7	4222234	9.27E-06	1.13E-05	5.97E-07	2.12E-05	4.92E-06	1.24E-05	5.97E-07	1.79E-05	1.22E-06	2.21E-06	1.95E-07	3.63E-06	9.43E-07	1.23E-06	8.91E-08	2.26E-06
2398	565223.5	4222219	8.33E-06	1.02E-05	5.36E-07	1.90E-05	4.41E-06	1.11E-05	5.36E-07	1.61E-05	1.09E-06	1.99E-06	1.75E-07	3.26E-06	8.46E-07	1.11E-06	8.00E-08	2.03E-06
2399	565228.3	4222203	7.32E-06	8.93E-06	4.71E-07	1.67E-05	3.88E-06	9.79E-06	4.71E-07	1.41E-05	9.61E-07	1.75E-06	1.54E-07	2.86E-06	7.43E-07	9.72E-07	7.03E-08	1.79E-06
2400	565217.4	4222251	1.04E-05	1.27E-05	6.68E-07	2.37E-05	5.50E-06	1.39E-05	6.68E-07	2.01E-05	1.36E-06	2.47E-06	2.18E-07	4.06E-06	1.05E-06	1.38E-06	9.97E-08	2.53E-06
2401	565218.5	4222260	1.1E-05	1.35E-05	7.10E-07	2.52E-05	5.85E-06	1.48E-05	7.10E-07	2.13E-05	1.45E-06	2.63E-06	2.32E-07	4.31E-06	1.12E-06	1.47E-06	1.06E-07	2.69E-06
2402	565219.6	4222269	1.16E-05	1.42E-05	7.49E-07	2.66E-05	6.17E-06	1.56E-05	7.49E-07	2.25E-05	1.53E-06	2.77E-06	2.45E-07	4.55E-06	1.18E-06	1.55E-06	1.12E-07	2.84E-06
2403	565220.6	4222278	1.21E-05	1.48E-05	7.82E-07	2.78E-05	6.44E-06	1.63E-05	7.82E-07	2.35E-05	1.59E-06	2.90E-06	2.56E-07	4.75E-06	1.23E-06	1.61E-06	1.17E-07	2.96E-06
2404	565221.7	4222286	1.26E-05	1.53E-05	8.08E-07	2.87E-05	6.66E-06	1.68E-05	8.08E-07	2.43E-05	1.65E-06	2.99E-06	2.64E-07	4.91E-06	1.28E-06	1.67E-06	1.21E-07	3.06E-06
2405	565222.8	4222295	1.28E-05	1.57E-05	8.

2418	565199.1	4222236	8.35E-06	1.02E-05	5.37E-07	1.91E-05	4.43E-06	1.12E-05	5.37E-07	1.61E-05	1.10E-06	1.99E-06	1.76E-07	3.26E-06	8.48E-07	1.11E-06	8.02E-08	2.04E-06
2419	565203.9	4222221	7.68E-06	9.38E-06	4.94E-07	1.76E-05	4.07E-06	1.03E-05	4.94E-07	1.49E-05	1.01E-06	1.83E-06	1.62E-07	3.00E-06	7.81E-07	1.02E-06	7.38E-08	1.88E-06
2420	565208.7	4222206	6.92E-06	8.45E-06	4.45E-07	1.58E-05	3.67E-06	9.26E-06	4.45E-07	1.34E-05	9.08E-07	1.65E-06	1.46E-07	2.70E-06	7.03E-07	9.19E-07	6.65E-08	1.69E-06
2421	565213.5	4222190	6.13E-06	7.49E-06	3.95E-07	1.40E-05	3.25E-06	8.21E-06	3.95E-07	1.19E-05	8.05E-07	1.46E-06	1.29E-07	2.40E-06	6.23E-07	8.14E-07	5.89E-08	1.50E-06
2422	565225.7	4222171	5.3E-06	6.47E-06	3.41E-07	1.21E-05	2.81E-06	7.09E-06	3.41E-07	1.02E-05	6.96E-07	1.26E-06	1.12E-07	2.07E-06	5.38E-07	7.04E-07	5.09E-08	1.29E-06
2423	565197.8	4222253	9.11E-06	1.11E-05	5.86E-07	2.08E-05	4.83E-06	1.22E-05	5.86E-07	1.76E-05	1.20E-06	2.17E-06	1.92E-07	3.56E-06	9.26E-07	1.21E-06	8.75E-08	2.22E-06
2424	565198.9	4222262	9.56E-06	1.17E-05	6.15E-07	2.19E-05	5.07E-06	1.28E-05	6.15E-07	1.85E-05	1.26E-06	2.28E-06	2.01E-07	3.74E-06	9.72E-07	1.27E-06	9.19E-08	2.33E-06
2425	565200	4222271	9.97E-06	1.22E-05	6.42E-07	2.28E-05	5.28E-06	1.33E-05	6.42E-07	1.93E-05	1.31E-06	2.38E-06	2.10E-07	3.90E-06	1.01E-06	1.32E-06	9.58E-08	2.43E-06
2426	565201.1	4222280	1.03E-05	1.26E-05	6.64E-07	2.36E-05	5.47E-06	1.38E-05	6.64E-07	1.99E-05	1.35E-06	2.46E-06	2.17E-07	4.03E-06	1.05E-06	1.37E-06	9.91E-08	2.52E-06
2427	565202.2	4222289	1.06E-05	1.29E-05	6.81E-07	2.42E-05	5.61E-06	1.42E-05	6.81E-07	2.05E-05	1.39E-06	2.52E-06	2.23E-07	4.14E-06	1.08E-06	1.41E-06	1.02E-07	2.58E-06
2428	565203.3	4222298	1.08E-05	1.32E-05	6.93E-07	2.46E-05	5.71E-06	1.44E-05	6.93E-07	2.08E-05	1.41E-06	2.57E-06	2.27E-07	4.21E-06	1.09E-06	1.43E-06	1.04E-07	2.63E-06
2429	565189.6	4222237	7.9E-06	9.65E-06	5.09E-07	1.81E-05	4.19E-06	1.06E-05	5.09E-07	1.53E-05	1.04E-06	1.88E-06	1.66E-07	3.09E-06	8.03E-07	1.05E-06	7.59E-08	1.93E-06
2430	565195	4222220	7.26E-06	8.87E-06	4.68E-07	1.66E-05	3.85E-06	9.73E-06	4.68E-07	1.40E-05	9.54E-07	1.73E-06	1.53E-07	2.84E-06	7.38E-07	9.65E-07	6.98E-08	1.77E-06
2431	565202.9	4222194	6.12E-06	7.47E-06	3.94E-07	1.40E-05	3.24E-06	8.19E-06	3.94E-07	1.18E-05	8.04E-07	1.46E-06	1.29E-07	2.39E-06	6.22E-07	8.13E-07	5.88E-08	1.49E-06
2432	565208.3	4222177	5.35E-06	6.53E-06	3.44E-07	1.22E-05	2.84E-06	7.16E-06	3.44E-07	1.03E-05	7.02E-07	1.28E-06	1.13E-07	2.09E-06	5.44E-07	7.11E-07	5.14E-08	1.31E-06
2433	565219.1	4222165	4.9E-06	5.98E-06	3.15E-07	1.12E-05	2.60E-06	6.56E-06	3.15E-07	9.47E-06	6.43E-07	1.17E-06	1.03E-07	1.92E-06	4.98E-07	6.51E-07	4.71E-08	1.20E-06
2434	565187	4222245	8.15E-06	9.95E-06	5.24E-07	1.86E-05	4.32E-06	1.09E-05	5.24E-07	1.58E-05	1.07E-06	1.94E-06	1.72E-07	3.19E-06	8.28E-07	1.08E-06	7.83E-08	1.99E-06
2435	565189.2	4222263	8.95E-06	1.09E-05	5.76E-07	2.05E-05	4.74E-06	1.20E-05	5.76E-07	1.73E-05	1.18E-06	2.13E-06	1.88E-07	3.50E-06	9.09E-07	1.19E-06	8.60E-08	2.18E-06
2436	565190.3	4222272	9.29E-06	1.13E-05	5.98E-07	2.12E-05	4.92E-06	1.24E-05	5.98E-07	1.80E-05	1.22E-06	2.22E-06	1.96E-07	3.63E-06	9.44E-07	1.23E-06	8.92E-08	2.27E-06
2437	565191.3	4222281	9.57E-06	1.17E-05	6.16E-07	2.19E-05	5.07E-06	1.28E-05	6.16E-07	1.85E-05	1.26E-06	2.28E-06	2.02E-07	3.74E-06	9.73E-07	1.27E-06	9.19E-08	2.34E-06
2438	565192.4	4222290	9.79E-06	1.2E-05	6.30E-07	2.24E-05	5.19E-06	1.31E-05	6.30E-07	1.89E-05	1.29E-06	2.34E-06	2.06E-07	3.83E-06	9.95E-07	1.30E-06	9.41E-08	2.39E-06
2439	565193.5	4222299	9.95E-06	1.21E-05	6.40E-07	2.27E-05	5.27E-06	1.33E-05	6.40E-07	1.92E-05	1.31E-06	2.37E-06	2.09E-07	3.89E-06	1.01E-06	1.32E-06	9.56E-08	2.43E-06
2440	565194.6	4222308	1E-05	1.23E-05	6.46E-07	2.29E-05	5.32E-06	1.34E-05	6.46E-07	1.94E-05	1.32E-06	2.39E-06	2.11E-07	3.92E-06	1.02E-06	1.33E-06	9.64E-08	2.45E-06
2441	565179.9	4222238	7.51E-06	9.18E-06	4.84E-07	1.72E-05	3.98E-06	1.01E-05	4.84E-07	1.45E-05	9.87E-07	1.79E-06	1.58E-07	2.94E-06	7.64E-07	9.98E-07	7.22E-08	1.83E-06
2442	565185.1	4222221	6.98E-06	8.53E-06	4.50E-07	1.60E-05	3.70E-06	9.35E-06	4.50E-07	1.35E-05	9.17E-07	1.67E-06	1.47E-07	2.73E-06	7.10E-07	9.28E-07	6.71E-08	1.70E-06
2443	565190.4	4222204	6.34E-06	7.74E-06	4.08E-07	1.45E-05	3.36E-06	8.48E-06	4.08E-07	1.23E-05	8.32E-07	1.51E-06	1.33E-07	2.48E-06	6.44E-07	8.42E-07	6.09E-08	1.55E-06
2444	565195.7	4222187	5.64E-06	6.89E-06	3.63E-07	1.29E-05	2.99E-06	7.55E-06	3.63E-07	1.09E-05	7.41E-07	1.35E-06	1.19E-07	2.21E-06	5.73E-07	7.49E-07	5.42E-08	1.38E-06
2445	565200.9	4222170	4.96E-06	6.06E-06	3.19E-07	1.13E-05	2.63E-06	6.64E-06	3.19E-07	9.59E-06	6.51E-07	1.18E-06	1.04E-07	1.94E-06	5.04E-07	6.59E-07	4.76E-08	1.21E-06
2446	565211.6	4222158	4.56E-06	5.57E-06	2.93E-07	1.04E-05	2.42E-06	6.10E-06	2.93E-07	8.81E-06	5.99E-07	1.09E-06	9.60E-08	1.78E-06	4.63E-07	6.05E-07	4.38E-08	1.11E-06
2447	565227.8	4222151	4.37E-06	5.34E-06	2.81E-07	9.99E-06	2.32E-06	5.85E-06	2.81E-07	8.45E-06	5.74E-07	1.04E-06	9.20E-08	1.71E-06	4.44E-07	5.81E-07	4.20E-08	1.07E-06
2448	565178.3	4222255	8.07E-06	9.86E-06	5.20E-07	1.84E-05	4.28E-06	1.08E-05	5.20E-07	1.56E-05	1.06E-06	1.93E-06	1.70E-07	3.16E-06	8.20E-07	1.07E-06	7.76E-08	1.97E-06
2449	565179.4	4222264	8.4E-06	1.03E-05	5.40E-07	1.92E-05	4.45E-06	1.12E-05	5.40E-07	1.62E-05	1.10E-06	2.00E-06	1.77E-07	3.28E-06	8.53E-07	1.12E-06	8.07E-08	2.05E-06
2450	565180.5	4222273	8.68E-06	1.06E-05	5.59E-07	1.98E-05	4.60E-06	1.16E-05	5.59E-07	1.68E-05	1.14E-06	2.07E-06	1.83E-07	3.39E-06	8.82E-07	1.15E-06	8.34E-08	2.12E-06
2451	565181.6	4222282	8.92E-06	1.09E-05	5.74E-07	2.04E-05	4.73E-06	1.19E-05	5.74E-07	1.72E-05	1.17E-06	2.13E-06	1.88E-07	3.49E-06	9.06E-07	1.18E-06	8.57E-08	2.18E-06
2452	565183.8	4222300	9.23E-06	1.13E-05	5.94E-07	2.11E-05	4.89E-06	1.24E-05	5.94E-07	1.78E-05	1.21E-06	2.20E-06	1.94E-07	3.61E-06	9.38E-07	1.23E-06	8.86E-08	2.25E-06
2453	565184.9	4222309	9.29E-06	1.14E-05	5.98E-07	2.12E-05	4.93E-06	1.24E-05	5.98E-07	1.80E-05	1.22E-06	2.22E-06	1.96E-07	3.63E-06	9.44E-07	1.23E-06	8.93E-08	2.27E-06
2454	565170.1	4222239	7.15E-06	8.74E-06	4.60E-07	1.64E-05	3.79E-06	9.58E-06	4.60E-07	1.38E-05	9.39E-07	1.71E-06	1.51E-07	2.80E-06	7.27E-07	9.50E-07	6.87E-08	1.75E-06
2455	565175.3	4222222	6.71E-06	8.2E-06	4.32E-07	1.53E-05	3.56E-06	8.99E-06	4.32E-07	1.30E-05	8.81E-07	1.60E-06	1.41E-07	2.62E-06	6.82E-07	8.92E-07	6.45E-08	1.64E-06
2456	565180.5	4222206	6.15E-06	7.52E-06	3.96E-07	1.41E-05	3.26E-06	8.24E-06	3.96E-07	1.19E-05	8.08E-07	1.47E-06	1.30E-07	2.41E-06	6.25E-07	8.17E-07	5.91E-08	1.50E-06
2457	565185.7	4222189	5.54E-06	6.76E-06	3.56E-07	1.27E-05	2.94E-06	7.41E-06	3.56E-07	1.07E-05	7.27E-07	1.32E-06	1.17E-07	2.16E-06	5.63E-07	7.36E-07	5.32E-08	1.35E-06
2458	565191	4222172	4.91E-06	6E-06	3.16E-07	1.12E-05	2.61E-06	6.58E-06	3.16E-07	9.50E-06	6.45E-07	1.17E-06	1.03E-07	1.92E-06	4.99E-07	6.53E-07	4.72E-08	1.20E-06
2459	565204.2	4222152	4.25E-06	5.19E-06	2.74E-07	9.72E-06	2.25E-06	5.69E-06	2.74E-07	8.22E-06	5.59E-07	1.01E-06	8.96E-08	1.66E-06	4.32E-07	5.65E-07	4.09E-08	1.04E-06
2460	565220.2	4222144	4.08E-06	4.99E-06	2.63E-07	9.33E-06	2.17E-06	5.47E-06	2.63E-07	7.90E-06	5.36E-07	9.74E-07	8.60E-08	1.60E-06	4.15E-07	5.42E-07	3.92E-08	9.97E-07
2461	565171.8	4222283	8.34E-06	1.02E-05	5.37E-07	1.91E-05	4.42E-06	1.12E-05	5.37E-07	1.61E-05	1.09E-06	1.99E-06	1.76E-07	3.26E-06	8.47E-07	1.11E-06	8.01E-08	2.03E-06
2462	565172.9	4222292	8.49E-06	1.04E-05	5.46E-07	1.94E-05	4.50E-06	1.14E-05	5.46E-07	1.64E-05	1.11E-06	2.03E-06	1.79E-07	3.32E-06	8.63E-07	1.13E-06	8.16E-08	2.07E-06
2463	565174	4222301	8.59E-06	1.05E-05	5.53E-07	1.96E-05	4.55E-06	1.15E-05	5.53E-07	1.66E-05	1.13E-06	2.05E-06	1.81E-07	3.36E-06	8.73E-07	1.14E-06	8.25E-08	2.10E-06
2464	565175.1	4222310	8.64E-06	1.06E-05	5.56E-07	1.98E-05	4.58E-06	1.16E-05	5.56E-07	1.67E-05	1.13E-06	2.06E-06	1.82E-07	3.38E-06	8.78E-07	1.15E-06	8.30E-08	2.11E-06
2465	565170.7	4222207	5.97E-06	7.29E-06	3.84E-07	1.36E-05	3.16E-06	7.99E-06	3.84E-07	1.15E-05	7.83E-07	1.42E-06	1.26E-07	2.33E-06	6.06E-07	7.92E-07	5.73E-08	1.46E-06
2466	565175.8	4222190	5.42E-06	6.62E-06	3.49E-07	1.24E-05	2.87E-06	7.26E-06	3.49E-07	1.05E-05	7.12E-07	1.29E-06	1.14E-07	2.12E-06	5.51E-07	7.20E-07	5.21E-08	1.32E-06
2467	565181	4222174	4.85E-06	5.93E-06	3.12E-07	1.11E-05	2.57E-06	6.50E-06	3.12E-07	9.39E-06	6.37E-07	1.16E-06	1.02E-07	1.90E-06	4.93E-07	6.45E-07	4.66E-08	1.18E-06
2468	565186.2	4222157	4.31E-06	5.26E-06	2.77E-07	9.84E-06	2.28E-06	5.77E-06	2.77E-07	8.33E-06	5.66E-07	1.03E-06	9.07E-08	1.68E-06	4.38E-07	5.72E-07	4.14E-08	1.05E-06
2469	565196.8	4222145	3.98E-06	4.86E-06	2.56E-07	9.10E-06	2.11E-06	5.33E-06	2.56E-07	7.70E-06	5.23E-07	9.50E-07	8.38E-08	1.56E-06	4.05E-07	5.29E-07	3.82E-08	9.72E-07
2470	565212.7	4222138	3.83E-06	4.67E-06	2.46E-07	8.75E-06	2.03E-06	5.12E-06	2.46E-07	7.40E-06	5.03E-07	9.13E-07	8.06E-08	1.50E-06	3.89E-07	5.08E-07	3.68E-08	9.34E-07
2471	565228.6	4222131	3.65E-06	4.46E-06	2.35E-07	8.34E-06	1.94E-06	4.89E-06	2.35E-07	7.06E-06	4.79E-07	8.71E-07	7.69E-08	1.43E-06	3.71E-07	4.85E-07	3.51E-08	8.91E-07
2472	565150.5	4222242	6.5E-06	7.94E-06	4.18E-07	1.49E-05	3.44E-06	8.70E-06	4.18E-07	1.26E-05	8.53E-07	1.55E-06	1.37E-07	2.54E-06	6.60E-07	8.63E-07	6.24E-08	1.59E-06
2473	565171.1	4222175	4.78E-06	5.84E-06	3.08E-07	1.09E-05	2.54E-06	6.40E-06	3.08E-07	9.25E-06	6.28E-07	1.14E-06	1.01E-07	1.87E-06	4.86E-07	6.35E-07	4.59E-08	1.17E-06
2474	565176.3	4222159	4.28E-06	5.22E-06	2.75E-07	9.77E-06	2.27E-06	5.72E-06	2.75E-07	8.27E-06	5.61E-07	1.02E-06	9.00E-08	1.67E-06	4.34E-07	5.68E-07	4.11E-08	1.04E-06
2475	565189.4	4222139	3.74E-06	4.56E-06	2.40E-07	8.54E-06	1.98E-06	5.00E-06	2.40E-07	7.22E-06	4.91E-07	8.91E-07	7.87E-08	1.46E-06	3.80E-07	4.96E-07	3.59E-08	9.12E-07
2476	565205.2	4222131	3.59E-06	4.39E-06	2.31E-07	8.22E-06	1.91E-06	4.81E-06	2.31E-07	6.95E-06	4.72E-07	8.58E-07	7.57E-08	1.41E-06	3.65E-07	4.78E-07	3.45E-08	8.77E-07
2477	565221	4222124	3.43E-06	4.19E-06	2.21E-07	7.85E-06	1.82E-06	4.60E-06	2.21E-07	6.64E-06	4.51E-07	8.19E-07	7.23E-08	1.34E-06	3.49E-07	4.56E-07	3.30E-08	8.38E-07
2478	565149	4222259	6.83E-06	8.34E-06	4.40E-07	1.56E-05	3.62E-06	9.15E-06	4.40E-07	1.32E-05	8.97E-07	1.63E-06	1.44E-07	2.67E-06	6.94E-07	9.08E-07	6.56E-08	1.67E-06
2479	565150.1	4222268	7.04E-06	8.59E-06	4.53E-07	1.61E-05	3.73E-06	9.42E-06	4.53E-07	1.36E-05	9.24E-07	1.68E-06	1.48E-07	2.75E-06	7.15E-07	9.35E-07	6.76E-08	1.72E-06
2480	565151.2	4222277	7.21E-06	8.8E-06	4.64E-07	1.65E-05	3.82E-06	9.65E-06	4.64E-07	1.39E-05	9.47E-07	1.72E-06	1.52E-07	2.82E-06	7.33E-07	9.58E-07	6.93E-08	1.76E-06
2481	565152.3	4222286	7.35E-06	8.98E-06	4.73E-07	1.68E-05	3.90E-06	9.84E-06	4.73E-07	1.42E-05	9.65E-07	1.75E-06	1.55E-07	2.87E-06	7.47E-07	9.76E-07	7.06E-08	1.79E-06
2482	565153.4	4222295	7.45E-06	9.1E-06	4.80E-07	1.70E-05	3.95E-06	9.98E-06	4.80E-07	1.44E-05	9.79E-07	1.78E-06	1.57E-07	2.91E-06	7.57E-07	9.90E-07	7.16E-08	1.82E-06
2483	565155.6	4222313	7.55E-06	9.22E-06	4.86E-07	1.73E-05	4.00E-06	1.01E-05	4.86E-07	1.46E-05	9.92E-07	1.80E-06	1.59E-07	2.95E-06	7.67E-07	1.00E-06	7.26E-08	1.84E-06
2484	565140.7	4222243	6.2E-06	7.57E-06	3.99E-07	1.42E-05	3.29E-06	8.30E-06	3.99E-07	1.20E-05	8.14E-07	1.48E-06	1.31E-07	2.42E-06	6.30E-07	8.24E-07	5.96E-08	1.51E-06
2485	565145.9	4222226	5.94E-06	7.26E-06	3.82E-07	1.36E-05	3.15E-06	7.96E-06	3.82E-07	1.15E-05	7.80E-07	1.42E-06	1.25E-07	2.32E-06	6.04E-07	7.89E-07	5.71E-08	1.45E-06
2486	565151	4222210	5.59E-06	6.82E-06	3.60E-07	1.28E-05	2.96E-06	7.48E-06	3.60E-07	1.08E-05	7.34E-07	1.33E-06	1.18E-07	2.18E-06	5.68E-07	7.42E-07	5.37E-08	1.36E-06
2487	565171.5	4222144	3.78E-06	4.62E-06	2.43E-07	8.64E-06	2.00E-06	5.06E-06	2.43E-07	7.31E-06	4.97E-07	9.02E-07	7.96E-08	1.48E-06	3.84E-07	5.02E-07	3.63E-08	9.23E-07
2488	565181.9	4222132	3.51E-06	4.29E-06	2.26E-07	8.03E-06	1.86E-06	4.70E-06	2.26E-07	6.79E-06	4.61E-07	8.38E-07	7.40E-08	1.37E-06	3.57E-07	4.67E-07	3.37E-08	8.57E-07
2489	565197.7	4222125	3.39E-06	4.13E-06	2.18E-07	7.74E-06	1.79E-06	4.53E-06	2.18E-07	6.54E-06	4.45E-07	8.08E-07	7.13E-08	1.32E-06	3.44E-07	4.50E-07	3.25E-08	8.26E-07
2490	565139.2	4222260	6.48E-06	7.92E-06	4.17E-07	1.48E-05	3.44E-06	8.68E-06	4.17E-07	1.25E-05	8.52E-07	1.55E-06	1.37E-07	2.54E-06	6.59E-07	8.61E-07	6.23E-08	1.58E-06
2491	565140.3	4222269	6.66E-06	8.13E-06	4.29E-07	1.52E-05	3.53E-06	8.92E-06	4.29E-07	1.29E-05	8.74E-07	1.59E-06	1.40E-07	2.60E-06	6.77E-07	8.85E-07	6.40E-08	1.63E-06
2492	565141.4	4222278	6.81E-06	8.31E-06	4.38E-07	1.56E-05	3.61E-06	9.11E-06	4.38E-07	1.32E-05	8.94E-07	1.62E-06	1.43E-07	2.66E-06	6.92E-07	9.04E-07	6.54E-08	1.66E-06
2493	565142.5	4222287	6.93E-06	8.46E-06	4.46E-07	1.58E-05	3.67E-06	9.27E-06	4.46E-07	1.34E-05	9.09E-07	1.65E-06	1.46E-07	2.71E-06	7.04E-07	9.20E-07	6.65E-08	1.69E-06
2494	565143.6	4222296	7.01E-06	8.56E-06	4.51E-07	1.60E-05	3.72E-06	9.39E-06	4.51E-07	1.36E-05	9.21E-07	1.67E-06	1.48E-07	2.74E-06	7.13E-07	9.32E-07	6.74E-08	1.71E-06
2495	565144.7	4222305	7.07E-06	8.63E-06	4.55E-07	1.62E-05	3.75E-06	9.46E-06	4.55E-07	1.37E-05	9.28E-07	1.69E-06	1.49E-07	2.76E-06	7.18E-07	9.39E-07	6.79E-08	1.72E-06
2496	565145.8	4222314	7.09E-06	8.66E-06	4.56E-07	1.62E-05	3.76E-06	9.49E-06	4.56E-07	1.37E-05	9.31E-07	1.69E-06	1.49E-07	2.77E-06	7.20E-07	9.42E-07	6.81E-08	1.73E-06
2497	565130.9	4222244	5.92E-06	7.23E-06	3.81E-07	1.35E-05	3.14E-06	7.93E-06	3.81E-07	1.14E-05	7.78E-07	1.41E-06	1.25E-07	2.32E-06	6.02E-07	7.87E-07	5.69E-08	1.45E-06
2498	565136.1	4222228	5.71E-06	6.97E-06	3.67E-07	1.30E-05	3.03E-06	7.64E-06	3.67E-07	1.10E-05	7.49E-07	1.36E-06	1.20E-07	2.23E-06	5.80E-07	7.58E-07	5.48E-08	1.39E-06
2499	565141.2	4222211	5.4E-06	6.59E-06	3.47E-07	1.23E-05	2.86E-06	7.23E-06	3.47E-07	1.04E-05	7.09E-07	1.29E-06	1.14E-07	2.11E-06	5.49E-07	7.17E-07	5.19E-08	1.32E-06
2500	565151.4	4222178	4.61E-06	5.63E-06	2.96E-07	1.05E-05	2.44E-06	6.17E-06	2.96E-07	8.91E-06	6.05E-07	1.10E-06	9.70E-08	1.80E-06	4.68E-07	6.12E-07	4.43E-08	1.12E-06
2501	565174.5	4222126	3.31E-06	4.04E-06	2.13E-07	7.56E-06	1.75E-06	4.43E-06	2.13E-07	6.40E-06	4.35E-07	7.89E-07	6.97E-08	1.29E-06	3.36E-07	4.40E-07	3.18E-08	8.08E-07
2502	565129.5	4222261	6.16E-06	7.53E-06	3.97E-07	1.41E-05	3.27E-06	8.25E-06	3.97E-07	1.19E-05	8.09E-07	1.47E-06	1.30E-07	2.41E-06	6.26E-07	8.19E-07	5.92E-08	1.50E-06
2503	565130.6	4222270	6.31E-06	7.71E-06	4.06E-07	1.44E-05	3.35E-06	8.45E-06	4.06E-07	1.22E-05	8.29E-07	1.51E-06	1.33E-07	2.47E-06	6.42E-07	8.39E-07	6.07E-08	1.54E-06
2504	565131.7	4222279	6.44E-06	7.87E-06	4.15E-07	1.47E-05	3.41E-06	8.62E-06	4.15E-07	1.25E-05	8.46E-07	1.54E-06	1.36E-07	2.52E-06	6.54E-07	8.56E-07	6.19E-08	1.57E-06
2505	565133.8	4222297	6.61E-06	8.08E-06	4.26E-07	1.51E-05	3.51E-06	8.85E-06	4.26E-07	1.28E-05	8.68E-07	1.58E-06	1.39E-07	2.59E-06	6.72E-07	8.78E-07	6.35E-08	1.61E-06
2506	565134.9	4222306	6.66E-06	8.13E-06	4.28E-07	1.52E-05	3.53E-06	8.91E-06	4.28E-07	1.29E-05	8.74E-07	1.59E-06	1.40E-07	2.60E-06	6.76E-07	8.84E-07	6.40E-08	1.62E-06
2507	565136	4222315	6.67E-06	8.15E-06	4.29E-07	1.52E-05	3.54E-06	8.93E-06	4.29E-07	1.29E-05	8.76E-07	1.59E-06	1.41E-07	2.61E-06	6.78E-07	8.86E-07	6.41E-08	1.63E-06
2508	565121.2	4222245	5.66E-06	6.91E-06	3.64E-07	1.29E-05	3.00E-06	7.58E-06	3.64E-07	1.09E-05	7.43E-07	1.35E-06	1.19E-07	2.21E-06	5.75E-07	7.52E-07	5.44E-08	1.38E-06
2509	565126.3	4222229	5.48E-06	6.69E-06	3.53E-07	1.25E-05	2.91E-06	7.34E-06	3.53E-07	1.06E-05	7.20E-07	1.31E-06	1.15E-07	2.14E-06	5.57E-07	7.28E-07	5.27E-08	1.34E-06
2510	565131.3	4222213	5.22E-06	6.37E-06	3.36E-07	1.19E-05	2.77E-06	6.98E-06	3.36E-07	1.01E-05	6.85E-07	1.24E-06	1.10E-07	2.04E-06	5.30E-07	6.93E-07	5.01E-08	1.27E-06
2511	565141.5	4222180	4.51E-06	5.51E-06	2.90E-07	1.03E-05	2.39E-06	6.04E-06	2.90E-07	8.72E-06	5.92E-07	1.08E-06	9.49E-08	1.76E-06	4.58E-07	5.99E-07	4.33E-08	1.10E-06
2512	565146.6	4222164	4.12E-06	5.03E-06	2.65E-07	9.41E-06	2.18E-06	5.51E-06	2.65E-07	7.96E-06	5.41E-07	9.83E-07	8.67E-08	1.61E-06	4.19E-07	5.47E-07	3.96E-08	1.01E-06
2513	565151.7	4222147	3.73E-06	4.55E-06	2.40E-07	8.52E-06	1.98E-06	4.99E-06	2.40E-07	7.21E-06	4.90E-07	8.89E-07	7.85E-08	1.46E-06	3.79E-07	4.95E-07	3.58E-08	9.10E-07
2514	565214	4222098	2.77E-06	3.38E-06	1.78E-07	6.32E-06	1.47E-06	3.70E-06	1.78E-07	5.35E-06	3.63E-07	6.60E-07	5.83E-08	1.08E-06	2.81E-07	3.67E-07	2.66E-08	6.75E-07
2515	565119.7	4222263	5.87E-06	7.16E-06	3.78E-07	1.34E-05

2528	565141.8	4222149	3.69E-06	4.51E-06	2.37E-07	8.43E-06	1.96E-06	4.94E-06	2.37E-07	7.13E-06	4.84E-07	8.80E-07	7.77E-08	1.44E-06	3.75E-07	4.90E-07	3.54E-08	9.00E-07
2529	565146.9	4222132	3.34E-06	4.07E-06	2.15E-07	7.62E-06	1.77E-06	4.47E-06	2.15E-07	6.45E-06	4.38E-07	7.96E-07	7.03E-08	1.30E-06	3.39E-07	4.43E-07	3.20E-08	8.14E-07
2530	565190.9	4222099	2.75E-06	3.36E-06	1.77E-07	6.28E-06	1.46E-06	3.68E-06	1.77E-07	5.31E-06	3.61E-07	6.56E-07	5.79E-08	1.07E-06	2.79E-07	3.65E-07	2.64E-08	6.71E-07
2531	565206.4	4222091	2.63E-06	3.21E-06	1.69E-07	6.01E-06	1.39E-06	3.52E-06	1.69E-07	5.08E-06	3.45E-07	6.27E-07	5.53E-08	1.03E-06	2.67E-07	3.49E-07	2.52E-08	6.41E-07
2532	565222	4222084	2.5E-06	3.06E-06	1.61E-07	5.72E-06	1.33E-06	3.35E-06	1.61E-07	4.84E-06	3.29E-07	5.97E-07	5.27E-08	9.79E-07	2.54E-07	3.33E-07	2.41E-08	6.11E-07
2533	565109.9	4222264	5.59E-06	6.83E-06	3.60E-07	1.28E-05	2.96E-06	7.48E-06	3.60E-07	1.08E-05	7.34E-07	1.33E-06	1.18E-07	2.19E-06	5.68E-07	7.43E-07	5.37E-08	1.36E-06
2534	565111	4222273	5.7E-06	6.96E-06	3.67E-07	1.30E-05	3.02E-06	7.64E-06	3.67E-07	1.10E-05	7.49E-07	1.36E-06	1.20E-07	2.23E-06	5.80E-07	7.58E-07	5.48E-08	1.39E-06
2535	565112.1	4222282	5.8E-06	7.08E-06	3.73E-07	1.32E-05	3.07E-06	7.76E-06	3.73E-07	1.12E-05	7.61E-07	1.38E-06	1.22E-07	2.27E-06	5.89E-07	7.70E-07	5.57E-08	1.41E-06
2536	565113.2	4222291	5.87E-06	7.17E-06	3.78E-07	1.34E-05	3.11E-06	7.86E-06	3.78E-07	1.13E-05	7.71E-07	1.40E-06	1.24E-07	2.29E-06	5.96E-07	7.79E-07	5.64E-08	1.43E-06
2537	565114.3	4222300	5.92E-06	7.23E-06	3.81E-07	1.35E-05	3.14E-06	7.92E-06	3.81E-07	1.14E-05	7.77E-07	1.41E-06	1.25E-07	2.31E-06	6.01E-07	7.86E-07	5.69E-08	1.44E-06
2538	565115.4	4222309	5.94E-06	7.26E-06	3.83E-07	1.36E-05	3.15E-06	7.96E-06	3.83E-07	1.15E-05	7.81E-07	1.42E-06	1.25E-07	2.32E-06	6.04E-07	7.90E-07	5.71E-08	1.45E-06
2539	565116.5	4222317	5.95E-06	7.27E-06	3.83E-07	1.36E-05	3.15E-06	7.97E-06	3.83E-07	1.15E-05	7.81E-07	1.42E-06	1.25E-07	2.33E-06	6.05E-07	7.90E-07	5.72E-08	1.45E-06
2540	565101.8	4222247	5.18E-06	6.33E-06	3.34E-07	1.18E-05	2.75E-06	6.94E-06	3.34E-07	1.00E-05	6.81E-07	1.24E-06	1.09E-07	2.03E-06	5.27E-07	6.89E-07	4.98E-08	1.26E-06
2541	565104.4	4222239	5.12E-06	6.26E-06	3.30E-07	1.17E-05	2.72E-06	6.86E-06	3.30E-07	9.91E-06	6.73E-07	1.22E-06	1.08E-07	2.00E-06	5.21E-07	6.81E-07	4.92E-08	1.25E-06
2542	565109.8	4222222	4.94E-06	6.04E-06	3.18E-07	1.13E-05	2.62E-06	6.62E-06	3.18E-07	9.56E-06	6.49E-07	1.18E-06	1.04E-07	1.93E-06	5.02E-07	6.57E-07	4.75E-08	1.21E-06
2543	565115.1	4222204	4.7E-06	5.73E-06	3.02E-07	1.07E-05	2.49E-06	6.29E-06	3.02E-07	9.08E-06	6.17E-07	1.12E-06	9.89E-08	1.84E-06	4.77E-07	6.24E-07	4.51E-08	1.15E-06
2544	565123.2	4222178	4.22E-06	5.16E-06	2.72E-07	9.65E-06	2.24E-06	5.65E-06	2.72E-07	8.16E-06	5.54E-07	1.01E-06	8.89E-08	1.65E-06	4.29E-07	5.61E-07	4.06E-08	1.03E-06
2545	565128.5	4222161	3.87E-06	4.73E-06	2.49E-07	8.85E-06	2.05E-06	5.18E-06	2.49E-07	7.49E-06	5.09E-07	9.24E-07	8.16E-08	1.51E-06	3.94E-07	5.14E-07	3.72E-08	9.45E-07
2546	565133.9	4222144	3.52E-06	4.3E-06	2.26E-07	8.04E-06	1.86E-06	4.71E-06	2.26E-07	6.80E-06	4.62E-07	8.39E-07	7.41E-08	1.38E-06	3.57E-07	4.67E-07	3.38E-08	8.58E-07
2547	565139.2	4222127	3.17E-06	3.87E-06	2.04E-07	7.25E-06	1.68E-06	4.25E-06	2.04E-07	6.13E-06	4.17E-07	7.57E-07	6.68E-08	1.24E-06	3.22E-07	4.21E-07	3.05E-08	7.74E-07
2548	565177.4	4222095	2.65E-06	3.24E-06	1.71E-07	6.06E-06	1.40E-06	3.55E-06	1.71E-07	5.12E-06	3.48E-07	6.32E-07	5.58E-08	1.04E-06	2.69E-07	3.52E-07	2.55E-08	6.47E-07
2549	565193.9	4222087	2.54E-06	3.1E-06	1.63E-07	5.80E-06	1.34E-06	3.40E-06	1.63E-07	4.90E-06	3.33E-07	6.05E-07	5.34E-08	9.92E-07	2.58E-07	3.37E-07	2.44E-08	6.19E-07
2550	565202.1	4222084	2.48E-06	3.02E-06	1.59E-07	5.66E-06	1.31E-06	3.32E-06	1.59E-07	4.79E-06	3.25E-07	5.91E-07	5.22E-08	9.68E-07	2.52E-07	3.29E-07	2.38E-08	6.04E-07
2551	565218.5	4222076	2.36E-06	2.88E-06	1.52E-07	5.38E-06	1.25E-06	3.15E-06	1.52E-07	4.55E-06	3.09E-07	5.62E-07	4.96E-08	9.21E-07	2.39E-07	3.13E-07	2.26E-08	5.75E-07
2552	565100.2	4222265	5.33E-06	6.51E-06	3.43E-07	1.22E-05	2.83E-06	7.14E-06	3.43E-07	1.03E-05	7.00E-07	1.27E-06	1.12E-07	2.08E-06	5.42E-07	7.08E-07	5.12E-08	1.30E-06
2553	565101.3	4222274	5.43E-06	6.63E-06	3.49E-07	1.24E-05	2.88E-06	7.27E-06	3.49E-07	1.05E-05	7.13E-07	1.30E-06	1.14E-07	2.12E-06	5.52E-07	7.21E-07	5.22E-08	1.33E-06
2554	565102.4	4222283	5.51E-06	6.73E-06	3.55E-07	1.26E-05	2.92E-06	7.38E-06	3.55E-07	1.07E-05	7.24E-07	1.31E-06	1.16E-07	2.15E-06	5.60E-07	7.32E-07	5.29E-08	1.34E-06
2555	565103.4	4222292	5.57E-06	6.8E-06	3.59E-07	1.27E-05	2.95E-06	7.46E-06	3.59E-07	1.08E-05	7.32E-07	1.33E-06	1.17E-07	2.18E-06	5.66E-07	7.40E-07	5.35E-08	1.36E-06
2556	565105.6	4222310	5.63E-06	6.88E-06	3.63E-07	1.29E-05	2.99E-06	7.54E-06	3.63E-07	1.09E-05	7.40E-07	1.34E-06	1.19E-07	2.20E-06	5.72E-07	7.48E-07	5.41E-08	1.37E-06
2557	565106.7	4222319	5.63E-06	6.88E-06	3.63E-07	1.29E-05	2.99E-06	7.54E-06	3.63E-07	1.09E-05	7.40E-07	1.34E-06	1.19E-07	2.20E-06	5.73E-07	7.48E-07	5.41E-08	1.38E-06
2558	565092	4222249	4.96E-06	6.06E-06	3.19E-07	1.13E-05	2.63E-06	6.65E-06	3.19E-07	9.60E-06	6.52E-07	1.18E-06	1.05E-07	1.94E-06	5.04E-07	6.59E-07	4.77E-08	1.21E-06
2559	565097.3	4222231	4.85E-06	5.93E-06	3.12E-07	1.11E-05	2.57E-06	6.50E-06	3.12E-07	9.38E-06	6.37E-07	1.16E-06	1.02E-07	1.90E-06	4.93E-07	6.45E-07	4.66E-08	1.18E-06
2560	565102.6	4222214	4.67E-06	5.7E-06	3.00E-07	1.07E-05	2.47E-06	6.25E-06	3.00E-07	9.02E-06	6.13E-07	1.11E-06	9.83E-08	1.82E-06	4.74E-07	6.20E-07	4.48E-08	1.14E-06
2561	565107.9	4222197	4.42E-06	5.4E-06	2.85E-07	1.01E-05	2.34E-06	5.92E-06	2.85E-07	8.55E-06	5.81E-07	1.06E-06	9.31E-08	1.73E-06	4.49E-07	5.88E-07	4.25E-08	1.08E-06
2562	565113.3	4222180	4.13E-06	5.05E-06	2.66E-07	9.44E-06	2.19E-06	5.53E-06	2.66E-07	7.99E-06	5.43E-07	9.86E-07	8.70E-08	1.62E-06	4.20E-07	5.49E-07	3.97E-08	1.01E-06
2563	565118.6	4222163	3.81E-06	4.66E-06	2.45E-07	8.72E-06	2.02E-06	5.11E-06	2.45E-07	7.37E-06	5.01E-07	9.10E-07	8.03E-08	1.49E-06	3.88E-07	5.07E-07	3.66E-08	9.31E-07
2564	565123.9	4222146	3.48E-06	4.26E-06	2.24E-07	7.97E-06	1.85E-06	4.67E-06	2.24E-07	6.74E-06	4.58E-07	8.31E-07	7.34E-08	1.36E-06	3.54E-07	4.63E-07	3.35E-08	8.51E-07
2565	565129.2	4222129	3.16E-06	3.86E-06	2.03E-07	7.22E-06	1.68E-06	4.23E-06	2.03E-07	6.11E-06	4.15E-07	7.54E-07	6.66E-08	1.24E-06	3.21E-07	4.20E-07	3.04E-08	7.71E-07
2566	565145.4	4222099	2.66E-06	3.25E-06	1.71E-07	6.09E-06	1.41E-06	3.57E-06	1.71E-07	5.15E-06	3.50E-07	6.35E-07	5.61E-08	1.04E-06	2.71E-07	3.54E-07	2.56E-08	6.50E-07
2567	565169.9	4222088	2.52E-06	3.08E-06	1.62E-07	5.76E-06	1.34E-06	3.37E-06	1.62E-07	4.87E-06	3.31E-07	6.01E-07	5.31E-08	9.85E-07	2.56E-07	3.35E-07	2.42E-08	6.15E-07
2568	565178	4222085	2.47E-06	3.01E-06	1.59E-07	5.64E-06	1.31E-06	3.30E-06	1.59E-07	4.77E-06	3.24E-07	5.89E-07	5.20E-08	9.65E-07	2.51E-07	3.28E-07	2.37E-08	6.02E-07
2569	565194.4	4222077	2.36E-06	2.88E-06	1.52E-07	5.40E-06	1.25E-06	3.16E-06	1.52E-07	4.57E-06	3.10E-07	5.63E-07	4.97E-08	9.23E-07	2.40E-07	3.14E-07	2.27E-08	5.76E-07
2570	565210.7	4222070	2.25E-06	2.75E-06	1.45E-07	5.14E-06	1.19E-06	3.01E-06	1.45E-07	4.35E-06	2.95E-07	5.37E-07	4.74E-08	8.79E-07	2.29E-07	2.99E-07	2.16E-08	5.49E-07
2571	565218.9	4222066	2.19E-06	2.68E-06	1.41E-07	5.01E-06	1.16E-06	2.94E-06	1.41E-07	4.24E-06	2.88E-07	5.23E-07	4.62E-08	8.58E-07	2.23E-07	2.91E-07	2.11E-08	5.35E-07
2572	565090.4	4222266	5.09E-06	6.22E-06	3.28E-07	1.16E-05	2.70E-06	6.81E-06	3.28E-07	9.84E-06	6.68E-07	1.21E-06	1.07E-07	1.99E-06	5.17E-07	6.76E-07	4.89E-08	1.24E-06
2573	565091.5	4222275	5.17E-06	6.32E-06	3.33E-07	1.18E-05	2.74E-06	6.93E-06	3.33E-07	1.00E-05	6.79E-07	1.23E-06	1.09E-07	2.02E-06	5.26E-07	6.87E-07	4.97E-08	1.26E-06
2574	565092.6	4222284	5.24E-06	6.4E-06	3.37E-07	1.20E-05	2.78E-06	7.02E-06	3.37E-07	1.01E-05	6.89E-07	1.25E-06	1.10E-07	2.05E-06	5.33E-07	6.96E-07	5.04E-08	1.28E-06
2575	565095.9	4222311	5.34E-06	6.53E-06	3.44E-07	1.22E-05	2.83E-06	7.16E-06	3.44E-07	1.03E-05	7.02E-07	1.28E-06	1.13E-07	2.09E-06	5.43E-07	7.10E-07	5.13E-08	1.30E-06
2576	565097	4222320	5.34E-06	6.53E-06	3.44E-07	1.22E-05	2.83E-06	7.15E-06	3.44E-07	1.03E-05	7.02E-07	1.27E-06	1.13E-07	2.09E-06	5.43E-07	7.10E-07	5.13E-08	1.30E-06
2577	565092.8	4222216	4.51E-06	5.51E-06	2.90E-07	1.03E-05	2.39E-06	6.04E-06	2.90E-07	8.72E-06	5.92E-07	1.08E-06	9.50E-08	1.76E-06	4.58E-07	5.99E-07	4.33E-08	1.10E-06
2578	565095.4	4222207	4.41E-06	5.39E-06	2.84E-07	1.01E-05	2.34E-06	5.91E-06	2.84E-07	8.53E-06	5.79E-07	1.05E-06	9.29E-08	1.72E-06	4.48E-07	5.86E-07	4.24E-08	1.08E-06
2579	565106	4222173	3.9E-06	4.76E-06	2.51E-07	8.91E-06	2.07E-06	5.22E-06	2.51E-07	7.54E-06	5.12E-07	9.30E-07	8.21E-08	1.52E-06	3.96E-07	5.18E-07	3.74E-08	9.51E-07
2580	565111.3	4222156	3.6E-06	4.4E-06	2.32E-07	8.23E-06	1.91E-06	4.82E-06	2.32E-07	6.96E-06	4.73E-07	8.59E-07	7.58E-08	1.41E-06	3.66E-07	4.78E-07	3.46E-08	8.78E-07
2581	565116.6	4222139	3.29E-06	4.02E-06	2.12E-07	7.53E-06	1.75E-06	4.41E-06	2.12E-07	6.37E-06	4.33E-07	7.86E-07	6.94E-08	1.29E-06	3.35E-07	4.38E-07	3.16E-08	8.04E-07
2582	565121.9	4222122	2.99E-06	3.66E-06	1.93E-07	6.84E-06	1.59E-06	4.01E-06	1.93E-07	5.79E-06	3.93E-07	7.14E-07	6.31E-08	1.17E-06	3.04E-07	3.98E-07	2.88E-08	7.31E-07
2583	565127.2	4222105	2.71E-06	3.31E-06	1.74E-07	6.19E-06	1.44E-06	3.63E-06	1.74E-07	5.24E-06	3.56E-07	6.46E-07	5.71E-08	1.06E-06	2.75E-07	3.60E-07	2.60E-08	6.61E-07
2584	565138	4222093	2.53E-06	3.1E-06	1.63E-07	5.79E-06	1.34E-06	3.39E-06	1.63E-07	4.90E-06	3.33E-07	6.05E-07	5.34E-08	9.91E-07	2.58E-07	3.37E-07	2.44E-08	6.19E-07
2585	565146.1	4222089	2.49E-06	3.04E-06	1.60E-07	5.70E-06	1.32E-06	3.34E-06	1.60E-07	4.82E-06	3.27E-07	5.95E-07	5.25E-08	9.74E-07	2.53E-07	3.31E-07	2.39E-08	6.08E-07
2586	565170.5	4222078	2.35E-06	2.87E-06	1.51E-07	5.38E-06	1.25E-06	3.15E-06	1.51E-07	4.55E-06	3.09E-07	5.61E-07	4.95E-08	9.20E-07	2.39E-07	3.12E-07	2.26E-08	5.74E-07
2587	565186.7	4222071	2.25E-06	2.75E-06	1.45E-07	5.15E-06	1.19E-06	3.02E-06	1.45E-07	4.36E-06	2.96E-07	5.38E-07	4.75E-08	8.81E-07	2.29E-07	2.99E-07	2.17E-08	5.50E-07
2588	565194.8	4222067	2.2E-06	2.69E-06	1.42E-07	5.04E-06	1.17E-06	2.95E-06	1.42E-07	4.26E-06	2.89E-07	5.26E-07	4.64E-08	8.61E-07	2.24E-07	2.93E-07	2.12E-08	5.38E-07
2589	565211.1	4222060	2.1E-06	2.56E-06	1.35E-07	4.80E-06	1.11E-06	2.81E-06	1.35E-07	4.06E-06	2.76E-07	5.01E-07	4.42E-08	8.21E-07	2.13E-07	2.79E-07	2.02E-08	5.12E-07
2590	565219.2	4222056	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.09E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.89E-07	4.31E-08	8.01E-07	2.08E-07	2.72E-07	1.97E-08	5.00E-07
2591	565086.1	4222312	5.08E-06	6.2E-06	3.27E-07	1.16E-05	2.69E-06	6.80E-06	3.27E-07	9.82E-06	6.67E-07	1.21E-06	1.07E-07	1.99E-06	5.16E-07	6.75E-07	4.88E-08	1.24E-06
2592	565087.2	4222321	5.07E-06	6.2E-06	3.27E-07	1.16E-05	2.69E-06	6.79E-06	3.27E-07	9.81E-06	6.66E-07	1.21E-06	1.07E-07	1.98E-06	5.16E-07	6.74E-07	4.88E-08	1.24E-06
2593	565072.4	4222251	4.56E-06	5.57E-06	2.94E-07	1.04E-05	2.42E-06	6.11E-06	2.94E-07	8.82E-06	5.99E-07	1.09E-06	9.61E-08	1.78E-06	4.64E-07	6.06E-07	4.38E-08	1.11E-06
2594	565093.5	4222183	3.95E-06	4.82E-06	2.54E-07	9.02E-06	2.09E-06	5.28E-06	2.54E-07	7.63E-06	5.18E-07	9.41E-07	8.31E-08	1.54E-06	4.01E-07	5.24E-07	3.79E-08	9.63E-07
2595	565098.8	4222166	3.68E-06	4.5E-06	2.37E-07	8.42E-06	1.95E-06	4.93E-06	2.37E-07	7.12E-06	4.84E-07	8.79E-07	7.76E-08	1.44E-06	3.74E-07	4.89E-07	3.54E-08	8.99E-07
2596	565104	4222149	3.4E-06	4.16E-06	2.19E-07	7.78E-06	1.80E-06	4.56E-06	2.19E-07	6.58E-06	4.47E-07	8.12E-07	7.17E-08	1.33E-06	3.46E-07	4.52E-07	3.27E-08	8.31E-07
2597	565109.3	4222132	3.12E-06	3.81E-06	2.01E-07	7.13E-06	1.65E-06	4.18E-06	2.01E-07	6.03E-06	4.10E-07	7.44E-07	6.57E-08	1.22E-06	3.17E-07	4.14E-07	3.00E-08	7.61E-07
2598	565119.8	4222099	2.58E-06	3.15E-06	1.66E-07	5.89E-06	1.37E-06	3.45E-06	1.66E-07	4.98E-06	3.39E-07	6.15E-07	5.43E-08	1.01E-06	2.62E-07	3.42E-07	2.48E-08	6.29E-07
2599	565130.5	4222086	2.42E-06	2.95E-06	1.55E-07	5.52E-06	1.28E-06	3.23E-06	1.55E-07	4.67E-06	3.17E-07	5.76E-07	5.09E-08	9.44E-07	2.45E-07	3.21E-07	2.32E-08	5.90E-07
2600	565138.6	4222083	2.38E-06	2.9E-06	1.53E-07	5.43E-06	1.26E-06	3.18E-06	1.53E-07	4.59E-06	3.12E-07	5.67E-07	5.00E-08	9.29E-07	2.41E-07	3.16E-07	2.28E-08	5.80E-07
2601	565171	4222068	2.2E-06	2.69E-06	1.42E-07	5.03E-06	1.17E-06	2.94E-06	1.42E-07	4.25E-06	2.89E-07	5.25E-07	4.63E-08	8.60E-07	2.24E-07	2.92E-07	2.11E-08	5.37E-07
2602	565187.1	4222061	2.11E-06	2.57E-06	1.36E-07	4.81E-06	1.12E-06	2.82E-06	1.36E-07	4.07E-06	2.77E-07	5.03E-07	4.44E-08	8.24E-07	2.14E-07	2.80E-07	2.02E-08	5.14E-07
2603	565195.2	4222057	2.06E-06	2.52E-06	1.33E-07	4.71E-06	1.09E-06	2.76E-06	1.33E-07	3.98E-06	2.70E-07	4.91E-07	4.34E-08	8.05E-07	2.09E-07	2.74E-07	1.98E-08	5.03E-07
2604	565211.4	4222050	1.96E-06	2.4E-06	1.26E-07	4.49E-06	1.04E-06	2.63E-06	1.26E-07	3.80E-06	2.58E-07	4.68E-07	4.14E-08	7.68E-07	2.00E-07	2.61E-07	1.89E-08	4.79E-07
2605	565219.5	4222046	1.92E-06	2.34E-06	1.23E-07	4.38E-06	1.02E-06	2.57E-06	1.23E-07	3.71E-06	2.52E-07	4.57E-07	4.04E-08	7.49E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
2606	565070.9	4222268	4.65E-06	5.68E-06	2.99E-07	1.06E-05	2.47E-06	6.23E-06	2.99E-07	8.99E-06	6.11E-07	1.11E-06	9.80E-08	1.82E-06	4.73E-07	6.18E-07	4.47E-08	1.14E-06
2607	565072	4222277	4.71E-06	5.76E-06	3.03E-07	1.08E-05	2.50E-06	6.31E-06	3.03E-07	9.12E-06	6.19E-07	1.12E-06	9.93E-08	1.84E-06	4.79E-07	6.26E-07	4.53E-08	1.15E-06
2608	565073.1	4222286	4.76E-06	5.82E-06	3.07E-07	1.09E-05	2.53E-06	6.38E-06	3.07E-07	9.21E-06	6.26E-07	1.14E-06	1.00E-07	1.86E-06	4.84E-07	6.33E-07	4.58E-08	1.16E-06
2609	565076.3	4222313	4.83E-06	5.9E-06	3.11E-07	1.10E-05	2.56E-06	6.47E-06	3.11E-07	9.34E-06	6.35E-07	1.15E-06	1.02E-07	1.89E-06	4.91E-07	6.42E-07	4.64E-08	1.18E-06
2610	565062.6	4222252	4.38E-06	5.35E-06	2.82E-07	1.00E-05	2.32E-06	5.87E-06	2.82E-07	8.48E-06	5.76E-07	1.05E-06	9.23E-08	1.71E-06	4.45E-07	5.82E-07	4.21E-08	1.07E-06
2611	565067.9	4222235	4.33E-06	5.29E-06	2.79E-07	9.89E-06	2.30E-06	5.80E-06	2.79E-07	8.37E-06	5.68E-07	1.03E-06	9.12E-08	1.69E-06	4.40E-07	5.75E-07	4.16E-08	1.06E-06
2612	565073.1	4222219	4.22E-06	5.15E-06	2.72E-07	9.64E-06	2.24E-06	5.65E-06	2.72E-07	8.16E-06	5.54E-07	1.01E-06	8.88E-08	1.65E-06	4.29E-07	5.60E-07	4.05E-08	1.03E-06
2613	565083.6	4222185	3.85E-06	4.7E-06	2.48E-07	8.80E-06	2.04E-06	5.16E-06	2.48E-07	7.44E-06	5.06E-07	9.19E-07	8.11E-08	1.51E-06	3.91E-07	5.12E-07	3.70E-08	9.40E-07
2614	565088.9	4222168	3.61E-06	4.41E-06	2.33E-07	8.26E-06	1.92E-06	4.84E-06	2.33E-07	6.98E-06	4.74E-07	8.62E-07	7.61E-08	1.41E-06	3.67E-07	4.80E-07	3.47E-08	8.82E-07
2615	565094.1	4222151	3.36E-06	4.1E-06	2.16E-07	7.67E-06	1.78E-06	4.49E-06	2.16E-07	6.49E-06	4.41E-07	8.01E-07	7.07E-08	1.31E-06	3.41E-07	4.46E-07	3.22E-08	8.19E-07
2616	565099.4	4222134	3.09E-06	3.77E-06	1.99E-07	7.06E-06	1.64E-06	4.14E-06	1.99E-07	5.98E-06	4.06E-07	7.37E-07	6.51E-08	1.21E-06	3.14E-07	4.11E-07	2.97E-08	7.54E-07
2617	565109.8	4222100	2.58E-06	3.15E-06	1.66E-07	5.89E-06	1.37E-06	3.45E-06	1.66E-07	4.98E-06	3.38E-07	6.15E-07	5.43E-08	1.01E-06	2.62E-07	3.42E-07	2.48E-08	6.29E-07
2618	565123.1	4222080	2.31E-06	2.82E-06	1.48E-07	5.27E-06	1.22E-06	3.09E-06	1.48E-07	4.46E-06	3.03E-07	5.50E-07	4.86E-08	9.01E-07	2.34E-07	3.06E-07	2.21E-08	5.63E-07
2619	565131.2	4222076	2.27E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.04E-06	1.46E-07	4.39E-06	2.98E-07	5.41E-07	4.78E-08	8.87E-07	2.30E-07	3.01E-07	2.18E-08	5.54E-07
2620	565147.3	4222069	2.19E-06	2.67E-06	1.41E-07	5.00E-06	1.16E-06	2.93E-06	1.41E-07	4.23E-06	2.87E-07	5.22E-07	4.61E-08	8.56E-07	2.22E-07	2.91E-07	2.10E-08	5.34E-07
2621	565179.5	4222054	2.02E-06	2.46E-06	1.30E-07	4.61E-06	1.07E-06	2.70E-06	1.30E-07	3.90E-06	2.65E-07	4.81E-07	4.25E-08	7.88E-07	2.05E-07	2.68E-07	1.94E-08	4.92E-07
2622	565195.6	4222047	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.58E-06	1.24E-07	3.73E-06	2.53E-07	4.60E-07	4.06E-08	7.54E-07	1.96E-07	2.56E-07	1.85E-08	4.71E-07
2623	565211.7	4222040	1.84E-06	2.25E-06	1.18E-07	4.21E-06	9.76E-07	2.46E-06	1.18E-07	3.56E-06	2.42E-07	4.39E-07	3.88E-08	7.20E-07	1.87E-07	2.45E-07	1.77E-08	4.49E-07
2624	565061.1	4222270	4.46E-06	5.44E-06	2.87E-07	1.02E-05	2.36E-06	5.97E-06	2.87E-07	8.62E-06	5.85E-07	1.06E-06	9.39E-08	1.74E-06	4.53E-07	5.92E-07	4.28E-08	1.09E-06
2625	565062.2	4222279	4.51E-06	5.51E-06	2.90E-07	1

2638	565099.9	4222102	2.57E-06	3.14E-06	1.65E-07	5.88E-06	1.36E-06	3.44E-06	1.65E-07	4.97E-06	3.38E-07	6.13E-07	5.42E-08	1.01E-06	2.61E-07	3.42E-07	2.47E-08	6.28E-07
2639	565105.1	4222085	2.34E-06	2.86E-06	1.51E-07	5.36E-06	1.24E-06	3.14E-06	1.51E-07	4.53E-06	3.08E-07	5.59E-07	4.94E-08	9.16E-07	2.38E-07	3.11E-07	2.25E-08	5.72E-07
2640	565115.7	4222073	2.2E-06	2.69E-06	1.42E-07	5.04E-06	1.17E-06	2.95E-06	1.42E-07	4.26E-06	2.89E-07	5.26E-07	4.64E-08	8.61E-07	2.24E-07	2.93E-07	2.12E-08	5.38E-07
2641	565131.8	4222066	2.13E-06	2.6E-06	1.37E-07	4.87E-06	1.13E-06	2.85E-06	1.37E-07	4.12E-06	2.80E-07	5.09E-07	4.49E-08	8.33E-07	2.17E-07	2.83E-07	2.05E-08	5.20E-07
2642	565147.8	4222059	2.05E-06	2.51E-06	1.32E-07	4.70E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.33E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
2643	565179.9	4222044	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.66E-06	2.48E-07	4.51E-07	3.98E-08	7.40E-07	1.92E-07	2.51E-07	1.82E-08	4.62E-07
2644	565195.9	4222037	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.60E-07	2.42E-06	1.17E-07	3.50E-06	2.38E-07	4.32E-07	3.81E-08	7.08E-07	1.84E-07	2.41E-07	1.74E-08	4.42E-07
2645	565212	4222030	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.17E-07	2.31E-06	1.11E-07	3.34E-06	2.27E-07	4.13E-07	3.64E-08	6.76E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
2646	565051.3	4222271	4.27E-06	5.22E-06	2.75E-07	9.77E-06	2.27E-06	5.72E-06	2.75E-07	8.26E-06	5.61E-07	1.02E-06	9.00E-08	1.67E-06	4.34E-07	5.68E-07	4.11E-08	1.04E-06
2647	565052.4	4222280	4.32E-06	5.28E-06	2.78E-07	9.88E-06	2.29E-06	5.79E-06	2.78E-07	8.36E-06	5.68E-07	1.03E-06	9.10E-08	1.69E-06	4.39E-07	5.74E-07	4.15E-08	1.05E-06
2648	565053.5	4222289	4.36E-06	5.32E-06	2.81E-07	9.96E-06	2.31E-06	5.84E-06	2.81E-07	8.43E-06	5.72E-07	1.04E-06	9.18E-08	1.70E-06	4.43E-07	5.79E-07	4.19E-08	1.06E-06
2649	565055.7	4222307	4.39E-06	5.37E-06	2.83E-07	1.00E-05	2.33E-06	5.88E-06	2.83E-07	8.50E-06	5.77E-07	1.05E-06	9.26E-08	1.72E-06	4.47E-07	5.84E-07	4.22E-08	1.07E-06
2650	565056.8	4222316	4.4E-06	5.37E-06	2.83E-07	1.00E-05	2.33E-06	5.89E-06	2.83E-07	8.50E-06	5.77E-07	1.05E-06	9.26E-08	1.72E-06	4.47E-07	5.84E-07	4.22E-08	1.07E-06
2651	565057.9	4222325	4.39E-06	5.36E-06	2.82E-07	1.00E-05	2.33E-06	5.87E-06	2.82E-07	8.48E-06	5.76E-07	1.05E-06	9.24E-08	1.72E-06	4.46E-07	5.83E-07	4.21E-08	1.07E-06
2652	565043.1	4222255	4.05E-06	4.95E-06	2.61E-07	9.27E-06	2.15E-06	5.43E-06	2.61E-07	7.84E-06	5.32E-07	9.67E-07	8.54E-08	1.58E-06	4.12E-07	5.39E-07	3.89E-08	9.89E-07
2653	565048.3	4222238	4.02E-06	4.91E-06	2.59E-07	9.20E-06	2.13E-06	5.39E-06	2.59E-07	7.78E-06	5.28E-07	9.60E-07	8.47E-08	1.57E-06	4.09E-07	5.34E-07	3.87E-08	9.82E-07
2654	565053.5	4222221	3.95E-06	4.82E-06	2.54E-07	9.02E-06	2.09E-06	5.28E-06	2.54E-07	7.63E-06	5.18E-07	9.41E-07	8.31E-08	1.54E-06	4.01E-07	5.24E-07	3.79E-08	9.63E-07
2655	565058.7	4222204	3.82E-06	4.67E-06	2.46E-07	8.74E-06	2.03E-06	5.12E-06	2.46E-07	7.39E-06	5.02E-07	9.12E-07	8.05E-08	1.49E-06	3.89E-07	5.08E-07	3.67E-08	9.33E-07
2656	565069.1	4222171	3.47E-06	4.23E-06	2.23E-07	7.92E-06	1.84E-06	4.64E-06	2.23E-07	6.70E-06	4.55E-07	8.27E-07	7.30E-08	1.36E-06	3.52E-07	4.61E-07	3.33E-08	8.46E-07
2657	565074.3	4222154	3.25E-06	3.97E-06	2.09E-07	7.43E-06	1.72E-06	4.35E-06	2.09E-07	6.28E-06	4.27E-07	7.76E-07	6.85E-08	1.27E-06	3.30E-07	4.32E-07	3.12E-08	7.93E-07
2658	565079.5	4222137	3.02E-06	3.69E-06	1.95E-07	6.91E-06	1.60E-06	4.05E-06	1.95E-07	5.84E-06	3.97E-07	7.21E-07	6.36E-08	1.18E-06	3.07E-07	4.01E-07	2.90E-08	7.38E-07
2659	565095.1	4222087	2.34E-06	2.86E-06	1.51E-07	5.36E-06	1.24E-06	3.14E-06	1.51E-07	4.53E-06	3.08E-07	5.59E-07	4.94E-08	9.16E-07	2.38E-07	3.11E-07	2.25E-08	5.72E-07
2660	565108.3	4222067	2.11E-06	2.57E-06	1.36E-07	4.82E-06	1.12E-06	2.82E-06	1.36E-07	4.08E-06	2.77E-07	5.03E-07	4.44E-08	8.24E-07	2.14E-07	2.80E-07	2.03E-08	5.14E-07
2661	565124.3	4222060	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.95E-06	2.68E-07	4.87E-07	4.30E-08	7.98E-07	2.07E-07	2.71E-07	1.96E-08	4.98E-07
2662	565140.3	4222052	1.97E-06	2.4E-06	1.27E-07	4.50E-06	1.04E-06	2.64E-06	1.27E-07	3.81E-06	2.59E-07	4.70E-07	4.15E-08	7.70E-07	2.00E-07	2.61E-07	1.89E-08	4.80E-07
2663	565172.3	4222038	1.82E-06	2.22E-06	1.17E-07	4.15E-06	9.63E-07	2.43E-06	1.17E-07	3.51E-06	2.38E-07	4.33E-07	3.82E-08	7.10E-07	1.85E-07	2.41E-07	1.74E-08	4.43E-07
2664	565188.2	4222031	1.74E-06	2.12E-06	1.12E-07	3.98E-06	9.22E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.15E-07	3.66E-08	6.80E-07	1.77E-07	2.31E-07	1.67E-08	4.25E-07
2665	565204.2	4222024	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.82E-07	2.23E-06	1.07E-07	3.22E-06	2.19E-07	3.97E-07	3.50E-08	6.51E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
2666	565041.6	4222272	4.1E-06	5.01E-06	2.64E-07	9.38E-06	2.18E-06	5.49E-06	2.64E-07	7.93E-06	5.39E-07	9.79E-07	8.64E-08	1.60E-06	4.17E-07	5.45E-07	3.94E-08	1.00E-06
2667	565042.7	4222281	4.14E-06	5.06E-06	2.67E-07	9.47E-06	2.20E-06	5.55E-06	2.67E-07	8.01E-06	5.44E-07	9.89E-07	8.73E-08	1.62E-06	4.21E-07	5.51E-07	3.98E-08	1.01E-06
2668	565043.8	4222290	4.17E-06	5.1E-06	2.69E-07	9.54E-06	2.21E-06	5.59E-06	2.69E-07	8.07E-06	5.48E-07	9.96E-07	8.79E-08	1.63E-06	4.24E-07	5.55E-07	4.01E-08	1.02E-06
2669	565044.8	4222299	4.19E-06	5.12E-06	2.70E-07	9.59E-06	2.22E-06	5.62E-06	2.70E-07	8.11E-06	5.51E-07	1.00E-06	8.83E-08	1.64E-06	4.26E-07	5.57E-07	4.03E-08	1.02E-06
2670	565045.9	4222308	4.2E-06	5.13E-06	2.71E-07	9.61E-06	2.23E-06	5.63E-06	2.71E-07	8.13E-06	5.52E-07	1.00E-06	8.85E-08	1.64E-06	4.27E-07	5.58E-07	4.04E-08	1.03E-06
2671	565047	4222317	4.2E-06	5.13E-06	2.70E-07	9.60E-06	2.23E-06	5.63E-06	2.70E-07	8.12E-06	5.52E-07	1.00E-06	8.85E-08	1.64E-06	4.27E-07	5.58E-07	4.04E-08	1.03E-06
2672	565048.1	4222326	4.19E-06	5.12E-06	2.70E-07	9.58E-06	2.22E-06	5.61E-06	2.70E-07	8.10E-06	5.50E-07	9.99E-07	8.82E-08	1.64E-06	4.26E-07	5.57E-07	4.03E-08	1.02E-06
2673	565033.3	4222256	3.9E-06	4.77E-06	2.51E-07	8.92E-06	2.07E-06	5.22E-06	2.51E-07	7.54E-06	5.12E-07	9.31E-07	8.22E-08	1.53E-06	3.97E-07	5.18E-07	3.75E-08	9.52E-07
2674	565038.5	4222239	3.88E-06	4.74E-06	2.50E-07	8.87E-06	2.06E-06	5.20E-06	2.50E-07	7.50E-06	5.10E-07	9.26E-07	8.17E-08	1.52E-06	3.94E-07	5.16E-07	3.73E-08	9.47E-07
2675	565043.7	4222223	3.82E-06	4.66E-06	2.46E-07	8.73E-06	2.02E-06	5.11E-06	2.46E-07	7.38E-06	5.01E-07	9.11E-07	8.04E-08	1.49E-06	3.88E-07	5.07E-07	3.67E-08	9.32E-07
2676	565048.9	4222206	3.71E-06	4.53E-06	2.39E-07	8.48E-06	1.97E-06	4.97E-06	2.39E-07	7.18E-06	4.87E-07	8.85E-07	7.82E-08	1.45E-06	3.77E-07	4.93E-07	3.57E-08	9.06E-07
2677	565059.3	4222172	3.39E-06	4.14E-06	2.18E-07	7.75E-06	1.80E-06	4.54E-06	2.18E-07	6.56E-06	4.46E-07	8.09E-07	7.15E-08	1.33E-06	3.45E-07	4.51E-07	3.26E-08	8.28E-07
2678	565064.4	4222156	3.19E-06	3.9E-06	2.06E-07	7.30E-06	1.69E-06	4.28E-06	2.06E-07	6.18E-06	4.20E-07	7.62E-07	6.73E-08	1.25E-06	3.25E-07	4.24E-07	3.07E-08	7.80E-07
2679	565069.6	4222139	2.98E-06	3.64E-06	1.92E-07	6.82E-06	1.58E-06	3.99E-06	1.92E-07	5.77E-06	3.92E-07	7.12E-07	6.28E-08	1.17E-06	3.03E-07	3.96E-07	2.87E-08	7.28E-07
2680	565074.8	4222122	2.77E-06	3.38E-06	1.78E-07	6.32E-06	1.47E-06	3.70E-06	1.78E-07	5.35E-06	3.63E-07	6.60E-07	5.82E-08	1.08E-06	2.81E-07	3.67E-07	2.66E-08	6.75E-07
2681	565090.4	4222072	2.14E-06	2.62E-06	1.38E-07	4.90E-06	1.14E-06	2.87E-06	1.38E-07	4.14E-06	2.81E-07	5.11E-07	4.51E-08	8.38E-07	2.18E-07	2.85E-07	2.06E-08	5.23E-07
2682	565100.9	4222060	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.70E-06	1.30E-07	3.90E-06	2.65E-07	4.82E-07	4.25E-08	7.89E-07	2.05E-07	2.68E-07	1.94E-08	4.93E-07
2683	565116.9	4222053	1.96E-06	2.39E-06	1.26E-07	4.47E-06	1.04E-06	2.62E-06	1.26E-07	3.78E-06	2.57E-07	4.67E-07	4.12E-08	7.65E-07	1.99E-07	2.60E-07	1.88E-08	4.77E-07
2684	565132.8	4222046	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.65E-06	2.48E-07	4.51E-07	3.98E-08	7.38E-07	1.92E-07	2.51E-07	1.81E-08	4.61E-07
2685	565148.7	4222039	1.82E-06	2.22E-06	1.17E-07	4.15E-06	9.63E-07	2.43E-06	1.17E-07	3.51E-06	2.39E-07	4.34E-07	3.83E-08	7.11E-07	1.85E-07	2.41E-07	1.75E-08	4.44E-07
2686	565180.6	4222024	1.67E-06	2.04E-06	1.08E-07	3.83E-06	8.87E-07	2.24E-06	1.08E-07	3.24E-06	2.20E-07	3.99E-07	3.52E-08	6.54E-07	1.70E-07	2.22E-07	1.61E-08	4.08E-07
2687	565196.5	4222017	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.50E-07	2.15E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.38E-08	6.27E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
2688	565212.4	4222010	1.53E-06	1.87E-06	9.88E-08	3.51E-06	8.14E-07	2.05E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.47E-08	3.75E-07
2689	565031.8	4222273	3.94E-06	4.81E-06	2.54E-07	9.01E-06	2.09E-06	5.28E-06	2.54E-07	7.62E-06	5.18E-07	9.40E-07	8.30E-08	1.54E-06	4.01E-07	5.24E-07	3.79E-08	9.62E-07
2690	565032.9	4222282	3.98E-06	4.86E-06	2.56E-07	9.09E-06	2.11E-06	5.33E-06	2.56E-07	7.69E-06	5.22E-07	9.49E-07	8.38E-08	1.55E-06	4.04E-07	5.28E-07	3.82E-08	9.71E-07
2691	565034	4222291	4E-06	4.89E-06	2.58E-07	9.15E-06	2.12E-06	5.36E-06	2.58E-07	7.74E-06	5.26E-07	9.55E-07	8.43E-08	1.57E-06	4.07E-07	5.32E-07	3.85E-08	9.77E-07
2692	565035.1	4222300	4.02E-06	4.91E-06	2.59E-07	9.19E-06	2.13E-06	5.38E-06	2.59E-07	7.77E-06	5.28E-07	9.59E-07	8.46E-08	1.57E-06	4.08E-07	5.34E-07	3.86E-08	9.81E-07
2693	565036.2	4222309	4.02E-06	4.92E-06	2.59E-07	9.20E-06	2.13E-06	5.39E-06	2.59E-07	7.78E-06	5.29E-07	9.60E-07	8.48E-08	1.57E-06	4.09E-07	5.35E-07	3.87E-08	9.82E-07
2694	565037.3	4222318	4.02E-06	4.91E-06	2.59E-07	9.19E-06	2.13E-06	5.38E-06	2.59E-07	7.77E-06	5.28E-07	9.59E-07	8.47E-08	1.57E-06	4.09E-07	5.34E-07	3.86E-08	9.81E-07
2695	565038.4	4222327	4.01E-06	4.89E-06	2.58E-07	9.16E-06	2.12E-06	5.36E-06	2.58E-07	7.75E-06	5.26E-07	9.56E-07	8.44E-08	1.57E-06	4.07E-07	5.32E-07	3.85E-08	9.78E-07
2696	565023.5	4222257	3.76E-06	4.59E-06	2.42E-07	8.59E-06	1.99E-06	5.03E-06	2.42E-07	7.27E-06	4.94E-07	8.97E-07	7.92E-08	1.47E-06	3.82E-07	4.99E-07	3.61E-08	9.17E-07
2697	565028.7	4222241	3.75E-06	4.58E-06	2.41E-07	8.56E-06	1.99E-06	5.02E-06	2.41E-07	7.24E-06	4.92E-07	8.94E-07	7.89E-08	1.46E-06	3.81E-07	4.98E-07	3.60E-08	9.14E-07
2698	565033.9	4222224	3.69E-06	4.51E-06	2.38E-07	8.44E-06	1.96E-06	4.95E-06	2.38E-07	7.14E-06	4.85E-07	8.81E-07	7.78E-08	1.44E-06	3.75E-07	4.91E-07	3.55E-08	9.02E-07
2699	565039.1	4222207	3.6E-06	4.4E-06	2.32E-07	8.23E-06	1.91E-06	4.82E-06	2.32E-07	6.97E-06	4.73E-07	8.60E-07	7.59E-08	1.41E-06	3.66E-07	4.79E-07	3.46E-08	8.79E-07
2700	565049.4	4222174	3.32E-06	4.05E-06	2.14E-07	7.58E-06	1.76E-06	4.44E-06	2.14E-07	6.41E-06	4.36E-07	7.92E-07	6.99E-08	1.30E-06	3.37E-07	4.41E-07	3.19E-08	8.10E-07
2701	565054.6	4222157	3.14E-06	3.83E-06	2.02E-07	7.17E-06	1.66E-06	4.20E-06	2.02E-07	6.07E-06	4.12E-07	7.48E-07	6.61E-08	1.23E-06	3.19E-07	4.17E-07	3.01E-08	7.66E-07
2702	565059.7	4222141	2.94E-06	3.59E-06	1.89E-07	6.72E-06	1.56E-06	3.94E-06	1.89E-07	5.69E-06	3.86E-07	7.02E-07	6.19E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.18E-07
2703	565064.9	4222124	2.74E-06	3.34E-06	1.76E-07	6.26E-06	1.45E-06	3.67E-06	1.76E-07	5.29E-06	3.59E-07	6.53E-07	5.77E-08	1.07E-06	2.78E-07	3.64E-07	2.63E-08	6.68E-07
2704	565075.3	4222091	2.33E-06	2.85E-06	1.50E-07	5.33E-06	1.24E-06	3.12E-06	1.50E-07	4.51E-06	3.06E-07	5.57E-07	4.91E-08	9.12E-07	2.37E-07	3.10E-07	2.24E-08	5.70E-07
2705	565093.5	4222054	1.94E-06	2.36E-06	1.25E-07	4.43E-06	1.03E-06	2.59E-06	1.25E-07	3.74E-06	2.54E-07	4.62E-07	4.08E-08	7.57E-07	1.97E-07	2.57E-07	1.86E-08	4.73E-07
2706	565109.4	4222047	1.88E-06	2.29E-06	1.21E-07	4.29E-06	9.95E-07	2.51E-06	1.21E-07	3.63E-06	2.46E-07	4.48E-07	3.95E-08	7.34E-07	1.91E-07	2.49E-07	1.80E-08	4.58E-07
2707	565125.3	4222040	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.61E-07	2.43E-06	1.17E-07	3.51E-06	2.38E-07	4.33E-07	3.82E-08	7.09E-07	1.84E-07	2.41E-07	1.74E-08	4.43E-07
2708	565141.2	4222032	1.75E-06	2.13E-06	1.12E-07	3.99E-06	9.26E-07	2.34E-06	1.12E-07	3.38E-06	2.29E-07	4.17E-07	3.68E-08	6.83E-07	1.78E-07	2.32E-07	1.68E-08	4.26E-07
2709	565172.9	4222018	1.61E-06	1.97E-06	1.04E-07	3.68E-06	8.54E-07	2.16E-06	1.04E-07	3.12E-06	2.12E-07	3.84E-07	3.39E-08	6.30E-07	1.64E-07	2.14E-07	1.55E-08	3.93E-07
2710	565188.8	4222011	1.54E-06	1.89E-06	9.94E-08	3.53E-06	8.19E-07	2.07E-06	9.94E-08	2.99E-06	2.03E-07	3.69E-07	3.25E-08	6.04E-07	1.57E-07	2.05E-07	1.48E-08	3.77E-07
2711	565204.7	4222004	1.48E-06	1.81E-06	9.53E-08	3.38E-06	7.85E-07	1.98E-06	9.53E-08	2.86E-06	1.94E-07	3.53E-07	3.12E-08	5.79E-07	1.50E-07	1.97E-07	1.42E-08	3.61E-07
2712	565022	4222274	3.79E-06	4.63E-06	2.44E-07	8.66E-06	2.01E-06	5.07E-06	2.44E-07	7.33E-06	4.98E-07	9.04E-07	7.98E-08	1.48E-06	3.85E-07	5.03E-07	3.64E-08	9.25E-07
2713	565023.1	4222283	3.82E-06	4.67E-06	2.46E-07	8.73E-06	2.03E-06	5.11E-06	2.46E-07	7.39E-06	5.02E-07	9.11E-07	8.05E-08	1.49E-06	3.88E-07	5.07E-07	3.67E-08	9.32E-07
2714	565024.2	4222292	3.84E-06	4.69E-06	2.47E-07	8.78E-06	2.04E-06	5.14E-06	2.47E-07	7.43E-06	5.05E-07	9.17E-07	8.09E-08	1.50E-06	3.90E-07	5.10E-07	3.69E-08	9.38E-07
2715	565025.3	4222301	3.85E-06	4.71E-06	2.48E-07	8.81E-06	2.04E-06	5.16E-06	2.48E-07	7.45E-06	5.06E-07	9.20E-07	8.12E-08	1.51E-06	3.92E-07	5.12E-07	3.70E-08	9.41E-07
2716	565027.5	4222319	3.85E-06	4.7E-06	2.48E-07	8.80E-06	2.04E-06	5.16E-06	2.48E-07	7.45E-06	5.06E-07	9.19E-07	8.11E-08	1.51E-06	3.91E-07	5.12E-07	3.70E-08	9.40E-07
2717	565028.6	4222328	3.84E-06	4.69E-06	2.47E-07	8.77E-06	2.03E-06	5.14E-06	2.47E-07	7.42E-06	5.04E-07	9.15E-07	8.08E-08	1.50E-06	3.90E-07	5.10E-07	3.69E-08	9.36E-07
2718	565013.8	4222258	3.62E-06	4.42E-06	2.33E-07	8.28E-06	1.92E-06	4.85E-06	2.33E-07	7.00E-06	4.76E-07	8.64E-07	7.63E-08	1.42E-06	3.68E-07	4.81E-07	3.48E-08	8.84E-07
2719	565018.9	4222242	3.62E-06	4.42E-06	2.33E-07	8.27E-06	1.92E-06	4.84E-06	2.33E-07	6.99E-06	4.75E-07	8.63E-07	7.62E-08	1.41E-06	3.68E-07	4.81E-07	3.48E-08	8.83E-07
2720	565024.1	4222225	3.58E-06	4.37E-06	2.30E-07	8.17E-06	1.90E-06	4.79E-06	2.30E-07	6.91E-06	4.70E-07	8.53E-07	7.53E-08	1.40E-06	3.63E-07	4.75E-07	3.44E-08	8.73E-07
2721	565029.2	4222209	3.5E-06	4.27E-06	2.25E-07	7.99E-06	1.85E-06	4.68E-06	2.25E-07	6.76E-06	4.59E-07	8.34E-07	7.36E-08	1.37E-06	3.55E-07	4.65E-07	3.36E-08	8.54E-07
2722	565039.6	4222175	3.24E-06	3.96E-06	2.09E-07	7.41E-06	1.72E-06	4.34E-06	2.09E-07	6.27E-06	4.26E-07	7.74E-07	6.83E-08	1.27E-06	3.30E-07	4.31E-07	3.12E-08	7.92E-07
2723	565044.7	4222159	3.08E-06	3.76E-06	1.98E-07	7.04E-06	1.63E-06	4.12E-06	1.98E-07	5.95E-06	4.04E-07	7.34E-07	6.48E-08	1.20E-06	3.13E-07	4.09E-07	2.96E-08	7.51E-07
2724	565049.9	4222142	2.9E-06	3.54E-06	1.86E-07	6.62E-06	1.54E-06	3.88E-06	1.86E-07	5.60E-06	3.80E-07	6.91E-07	6.10E-08	1.13E-06	2.94E-07	3.85E-07	2.78E-08	7.07E-07
2725	565055	4222126	2.71E-06	3.31E-06	1.74E-07	6.19E-06	1.44E-06	3.62E-06	1.74E-07	5.23E-06	3.55E-07	6.46E-07	5.70E-08	1.06E-06	2.75E-07	3.60E-07	2.60E-08	6.61E-07
2726	565065.3	4222092	2.32E-06	2.84E-06	1.50E-07	5.31E-06	1.23E-06	3.11E-06	1.50E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.09E-07	2.36E-07	3.09E-07	2.23E-08	5.67E-07
2727	565070.5	4222076	2.14E-06	2.61E-06	1.38E-07	4.89E-06	1.13E-06	2.87E-06	1.38E-07	4.14E-06	2.81E-07	5.11E-07	4.51E-08	8.37E-07	2.18E-07	2.84E-07	2.06E-08	5.22E-07
2728	565075.6	4222059	1.97E-06	2.4E-06	1.27E-07	4.50E-06	1.04E-06	2.63E-06	1.27E-07	3.80E-06	2.58E-07	4.69E-07	4.14E-08	7.69E-07	2.00E-07	2.61E-07	1.89E-08	4.80E-07
2729	565102	4222040	1.8E-06	2.2E-06	1.16E-07	4.12E-06	9.56E-07	2.41E-06	1.16E-07	3.49E-06	2.37E-07	4.30E-07	3.80E-08	7.05E-07	1.83E-07	2.39E-07	1.73E-08	4.40E-07
2730	565117.8	4222033	1.74E-06	2.13E-06	1.12E-07	3.98E-06	9.24E-07	2.33E-06	1.12E-07	3.37E-06	2.29E-07	4.16E-07	3.67E-08	6.81E-07	1.77E-07	2.32E-07	1.67E-08	4.25E-07
2731	565133.6	4222026	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.91E-07	2.25E-06	1.08E-07	3.25E-06	2.21E-07	4.01E-07	3.54E-08	6.57E-07	1.71E-07	2.23E-07	1.61E-08	4.10E-07
2732	565149.5	4222019	1.62E-06	1.97E-06	1.04E-07	3.70E-06	8.57E-07	2.16E-06	1.04E-07	3.13E-06	2.12E-07	3.86E-07	3.41E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.95E-07
2733	565181.1	4222004	1.49E-06	1.82E-06	9.59E-08	3.41E-06	7.90E-07	2.00E-06	9.59E-08	2.88E-06	1.96E-07	3.56E-07	3.14E-08	5.83E-07	1.51E-07	1.98E-07	1.43E-08	3.64E-07
2734	565197	4221997	1.43E-06	1.75E-06	9.20E-08	3.27E-06	7.58E-07	1.91E-06	9.20E-08	2.76E-06	1.88E-07	3.41E-07	3.01E-08	5.59E-07	1.45E-07	1.90E-07	1.37E-08	3.49E-07
2735	565012.3	4222276	3.65E-06	4.45E-06	2.35E-07

2748	565060.2	4222079	2.15E-06	2.62E-06	1.38E-07	4.91E-06	1.14E-06	2.88E-06	1.38E-07	4.16E-06	2.82E-07	5.13E-07	4.53E-08	8.40E-07	2.18E-07	2.85E-07	2.06E-08	5.25E-07
2749	565062.8	4222070	2.06E-06	2.52E-06	1.33E-07	4.71E-06	1.09E-06	2.76E-06	1.33E-07	3.98E-06	2.71E-07	4.92E-07	4.34E-08	8.06E-07	2.09E-07	2.74E-07	1.98E-08	5.03E-07
2750	565068.2	4222053	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.66E-06	2.48E-07	4.51E-07	3.98E-08	7.39E-07	1.92E-07	2.51E-07	1.82E-08	4.62E-07
2751	565095.4	4222033	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.17E-07	2.32E-06	1.11E-07	3.34E-06	2.27E-07	4.13E-07	3.64E-08	6.76E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
2752	565103.6	4222030	1.7E-06	2.08E-06	1.09E-07	3.89E-06	9.02E-07	2.28E-06	1.09E-07	3.29E-06	2.23E-07	4.06E-07	3.58E-08	6.65E-07	1.73E-07	2.26E-07	1.63E-08	4.15E-07
2753	565120	4222022	1.64E-06	2E-06	1.06E-07	3.75E-06	8.70E-07	2.20E-06	1.06E-07	3.17E-06	2.15E-07	3.91E-07	3.46E-08	6.42E-07	1.67E-07	2.18E-07	1.58E-08	4.01E-07
2754	565136.4	4222015	1.58E-06	1.93E-06	1.02E-07	3.61E-06	8.37E-07	2.11E-06	1.02E-07	3.05E-06	2.07E-07	3.77E-07	3.33E-08	6.17E-07	1.60E-07	2.10E-07	1.52E-08	3.85E-07
2755	565152.8	4222007	1.52E-06	1.85E-06	9.76E-08	3.47E-06	8.04E-07	2.03E-06	9.76E-08	2.93E-06	1.99E-07	3.62E-07	3.19E-08	5.93E-07	1.54E-07	2.01E-07	1.46E-08	3.70E-07
2756	565177.4	4221996	1.42E-06	1.74E-06	9.17E-08	3.26E-06	7.55E-07	1.91E-06	9.17E-08	2.75E-06	1.87E-07	3.40E-07	3.00E-08	5.57E-07	1.45E-07	1.89E-07	1.37E-08	3.48E-07
2757	565193.8	4221989	1.37E-06	1.67E-06	8.79E-08	3.12E-06	7.24E-07	1.83E-06	8.79E-08	2.64E-06	1.79E-07	3.26E-07	2.88E-08	5.34E-07	1.39E-07	1.81E-07	1.31E-08	3.33E-07
2758	565202	4221985	1.34E-06	1.63E-06	8.61E-08	3.06E-06	7.09E-07	1.79E-06	8.61E-08	2.59E-06	1.76E-07	3.19E-07	2.82E-08	5.23E-07	1.36E-07	1.78E-07	1.29E-08	3.27E-07
2759	565002.5	4222277	3.51E-06	4.29E-06	2.26E-07	8.02E-06	1.86E-06	4.70E-06	2.26E-07	6.79E-06	4.61E-07	8.38E-07	7.39E-08	1.37E-06	3.57E-07	4.66E-07	3.37E-08	8.57E-07
2760	565003.6	4222286	3.53E-06	4.32E-06	2.27E-07	8.08E-06	1.87E-06	4.73E-06	2.27E-07	6.83E-06	4.64E-07	8.43E-07	7.44E-08	1.38E-06	3.59E-07	4.69E-07	3.39E-08	8.62E-07
2761	565005.8	4222304	3.55E-06	4.34E-06	2.29E-07	8.12E-06	1.88E-06	4.76E-06	2.29E-07	6.87E-06	4.67E-07	8.48E-07	7.49E-08	1.39E-06	3.61E-07	4.72E-07	3.41E-08	8.68E-07
2762	565006.9	4222313	3.55E-06	4.34E-06	2.29E-07	8.12E-06	1.88E-06	4.76E-06	2.29E-07	6.87E-06	4.67E-07	8.48E-07	7.48E-08	1.39E-06	3.61E-07	4.72E-07	3.41E-08	8.67E-07
2763	564994.3	4222260	3.37E-06	4.12E-06	2.17E-07	7.71E-06	1.79E-06	4.51E-06	2.17E-07	6.52E-06	4.43E-07	8.04E-07	7.10E-08	1.32E-06	3.43E-07	4.48E-07	3.24E-08	8.23E-07
2764	564999.6	4222243	3.38E-06	4.12E-06	2.17E-07	7.72E-06	1.79E-06	4.52E-06	2.17E-07	6.53E-06	4.43E-07	8.06E-07	7.11E-08	1.32E-06	3.43E-07	4.49E-07	3.24E-08	8.24E-07
2765	565005	4222226	3.35E-06	4.09E-06	2.16E-07	7.65E-06	1.78E-06	4.48E-06	2.16E-07	6.47E-06	4.40E-07	7.99E-07	7.05E-08	1.31E-06	3.40E-07	4.45E-07	3.22E-08	8.17E-07
2766	565015.6	4222192	3.19E-06	3.9E-06	2.05E-07	7.30E-06	1.69E-06	4.27E-06	2.05E-07	6.17E-06	4.19E-07	7.62E-07	6.72E-08	1.25E-06	3.24E-07	4.24E-07	3.07E-08	7.79E-07
2767	565020.9	4222175	3.07E-06	3.75E-06	1.98E-07	7.01E-06	1.63E-06	4.11E-06	1.98E-07	5.93E-06	4.03E-07	7.32E-07	6.46E-08	1.20E-06	3.12E-07	4.08E-07	2.95E-08	7.49E-07
2768	565026.2	4222158	2.92E-06	3.57E-06	1.88E-07	6.68E-06	1.55E-06	3.91E-06	1.88E-07	5.65E-06	3.84E-07	6.97E-07	6.16E-08	1.14E-06	2.97E-07	3.88E-07	2.81E-08	7.13E-07
2769	565028.9	4222149	2.84E-06	3.47E-06	1.83E-07	6.50E-06	1.51E-06	3.81E-06	1.83E-07	5.50E-06	3.73E-07	6.78E-07	5.99E-08	1.11E-06	2.89E-07	3.78E-07	2.73E-08	6.94E-07
2770	565034.2	4222132	2.67E-06	3.27E-06	1.72E-07	6.11E-06	1.42E-06	3.58E-06	1.72E-07	5.17E-06	3.51E-07	6.38E-07	5.63E-08	1.05E-06	2.72E-07	3.55E-07	2.57E-08	6.53E-07
2771	565044.9	4222098	2.32E-06	2.83E-06	1.49E-07	5.30E-06	1.23E-06	3.10E-06	1.49E-07	4.48E-06	3.05E-07	5.53E-07	4.88E-08	9.07E-07	2.36E-07	3.08E-07	2.23E-08	5.66E-07
2772	565050.2	4222081	2.14E-06	2.62E-06	1.38E-07	4.90E-06	1.14E-06	2.87E-06	1.38E-07	4.15E-06	2.82E-07	5.12E-07	4.52E-08	8.38E-07	2.18E-07	2.85E-07	2.06E-08	5.23E-07
2773	565055.5	4222064	1.98E-06	2.41E-06	1.27E-07	4.52E-06	1.05E-06	2.65E-06	1.27E-07	3.82E-06	2.59E-07	4.71E-07	4.16E-08	7.72E-07	2.01E-07	2.62E-07	1.90E-08	4.82E-07
2774	565060.8	4222046	1.82E-06	2.22E-06	1.17E-07	4.15E-06	9.63E-07	2.43E-06	1.17E-07	3.51E-06	2.39E-07	4.33E-07	3.83E-08	7.10E-07	1.85E-07	2.41E-07	1.75E-08	4.43E-07
2775	565071.6	4222034	1.72E-06	2.1E-06	1.11E-07	3.92E-06	9.10E-07	2.30E-06	1.11E-07	3.32E-06	2.25E-07	4.10E-07	3.62E-08	6.71E-07	1.74E-07	2.28E-07	1.65E-08	4.19E-07
2776	565096.1	4222023	1.64E-06	2E-06	1.05E-07	3.74E-06	8.68E-07	2.19E-06	1.05E-07	3.17E-06	2.15E-07	3.91E-07	3.45E-08	6.40E-07	1.66E-07	2.18E-07	1.57E-08	4.00E-07
2777	565112.5	4222016	1.58E-06	1.93E-06	1.02E-07	3.61E-06	8.38E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.77E-07	3.33E-08	6.18E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
2778	565120.7	4222012	1.55E-06	1.9E-06	9.99E-08	3.55E-06	8.23E-07	2.08E-06	9.99E-08	3.00E-06	2.04E-07	3.70E-07	3.27E-08	6.07E-07	1.58E-07	2.06E-07	1.49E-08	3.79E-07
2779	565137	4222005	1.49E-06	1.82E-06	9.61E-08	3.41E-06	7.92E-07	2.00E-06	9.61E-08	2.89E-06	1.96E-07	3.56E-07	3.15E-08	5.84E-07	1.52E-07	1.98E-07	1.44E-08	3.65E-07
2780	565153.3	4221997	1.44E-06	1.75E-06	9.24E-08	3.28E-06	7.61E-07	1.92E-06	9.24E-08	2.78E-06	1.88E-07	3.42E-07	3.02E-08	5.61E-07	1.46E-07	1.91E-07	1.38E-08	3.50E-07
2781	565177.8	4221986	1.35E-06	1.65E-06	8.69E-08	3.09E-06	7.16E-07	1.81E-06	8.69E-08	2.61E-06	1.77E-07	3.22E-07	2.84E-08	5.28E-07	1.37E-07	1.79E-07	1.30E-08	3.29E-07
2782	565194.2	4221979	1.3E-06	1.58E-06	8.34E-08	2.96E-06	6.87E-07	1.73E-06	8.34E-08	2.50E-06	1.70E-07	3.09E-07	2.73E-08	5.06E-07	1.32E-07	1.72E-07	1.24E-08	3.16E-07
2783	565202.3	4221975	1.27E-06	1.55E-06	8.17E-08	2.90E-06	6.73E-07	1.70E-06	8.17E-08	2.45E-06	1.67E-07	3.03E-07	2.67E-08	4.96E-07	1.29E-07	1.69E-07	1.22E-08	3.10E-07
2784	564992.7	4222278	3.38E-06	4.13E-06	2.18E-07	7.73E-06	1.79E-06	4.53E-06	2.18E-07	6.54E-06	4.44E-07	8.07E-07	7.12E-08	1.32E-06	3.44E-07	4.49E-07	3.25E-08	8.26E-07
2785	564993.8	4222287	3.4E-06	4.15E-06	2.19E-07	7.77E-06	1.80E-06	4.55E-06	2.19E-07	6.58E-06	4.47E-07	8.12E-07	7.16E-08	1.33E-06	3.46E-07	4.52E-07	3.27E-08	8.30E-07
2786	564994.9	4222296	3.41E-06	4.17E-06	2.20E-07	7.80E-06	1.81E-06	4.57E-06	2.20E-07	6.60E-06	4.48E-07	8.14E-07	7.19E-08	1.33E-06	3.47E-07	4.53E-07	3.28E-08	8.33E-07
2787	564996	4222305	3.42E-06	4.17E-06	2.20E-07	7.81E-06	1.81E-06	4.58E-06	2.20E-07	6.61E-06	4.49E-07	8.15E-07	7.20E-08	1.34E-06	3.47E-07	4.54E-07	3.28E-08	8.34E-07
2788	564984.5	4222262	3.26E-06	3.98E-06	2.10E-07	7.44E-06	1.73E-06	4.36E-06	2.10E-07	6.29E-06	4.28E-07	7.77E-07	6.86E-08	1.27E-06	3.31E-07	4.32E-07	3.13E-08	7.95E-07
2789	564989.8	4222245	3.27E-06	3.99E-06	2.10E-07	7.46E-06	1.73E-06	4.37E-06	2.10E-07	6.31E-06	4.29E-07	7.79E-07	6.88E-08	1.28E-06	3.32E-07	4.34E-07	3.14E-08	7.97E-07
2790	565005.7	4222193	3.11E-06	3.8E-06	2.00E-07	7.11E-06	1.65E-06	4.16E-06	2.00E-07	6.01E-06	4.08E-07	7.42E-07	6.55E-08	1.22E-06	3.16E-07	4.13E-07	2.99E-08	7.59E-07
2791	565011	4222176	3E-06	3.66E-06	1.93E-07	6.86E-06	1.59E-06	4.02E-06	1.93E-07	5.80E-06	3.94E-07	7.16E-07	6.32E-08	1.17E-06	3.05E-07	3.98E-07	2.88E-08	7.32E-07
2792	565016.3	4222159	2.87E-06	3.5E-06	1.85E-07	6.55E-06	1.52E-06	3.84E-06	1.85E-07	5.54E-06	3.76E-07	6.84E-07	6.04E-08	1.12E-06	2.91E-07	3.81E-07	2.75E-08	7.00E-07
2793	565021.6	4222142	2.72E-06	3.32E-06	1.75E-07	6.21E-06	1.44E-06	3.64E-06	1.75E-07	5.25E-06	3.57E-07	6.48E-07	5.72E-08	1.06E-06	2.76E-07	3.61E-07	2.61E-08	6.63E-07
2794	565026.9	4222125	2.55E-06	3.12E-06	1.64E-07	5.84E-06	1.35E-06	3.42E-06	1.64E-07	4.94E-06	3.36E-07	6.10E-07	5.38E-08	9.99E-07	2.60E-07	3.39E-07	2.45E-08	6.24E-07
2795	565037.6	4222091	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.68E-07	2.26E-07	2.95E-07	2.13E-08	5.42E-07
2796	565042.9	4222074	2.05E-06	2.51E-06	1.32E-07	4.70E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.33E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
2797	565048.2	4222057	1.9E-06	2.32E-06	1.22E-07	4.33E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.49E-07	4.52E-07	3.99E-08	7.41E-07	1.93E-07	2.52E-07	1.82E-08	4.63E-07
2798	565053.5	4222040	1.75E-06	2.13E-06	1.12E-07	3.99E-06	9.26E-07	2.34E-06	1.12E-07	3.38E-06	2.29E-07	4.17E-07	3.68E-08	6.83E-07	1.78E-07	2.32E-07	1.68E-08	4.26E-07
2799	565064.2	4222028	1.65E-06	2.02E-06	1.06E-07	3.78E-06	8.76E-07	2.21E-06	1.06E-07	3.20E-06	2.17E-07	3.94E-07	3.48E-08	6.46E-07	1.68E-07	2.20E-07	1.59E-08	4.03E-07
2800	565104.9	4222009	1.52E-06	1.86E-06	9.81E-08	3.49E-06	8.08E-07	2.04E-06	9.81E-08	2.95E-06	2.00E-07	3.64E-07	3.21E-08	5.96E-07	1.55E-07	2.03E-07	1.47E-08	3.72E-07
2801	565113.1	4222006	1.5E-06	1.83E-06	9.64E-08	3.42E-06	7.94E-07	2.01E-06	9.64E-08	2.90E-06	1.97E-07	3.57E-07	3.15E-08	5.85E-07	1.52E-07	1.99E-07	1.44E-08	3.66E-07
2802	565129.4	4221998	1.44E-06	1.76E-06	9.28E-08	3.30E-06	7.65E-07	1.93E-06	9.28E-08	2.79E-06	1.89E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
2803	565137.5	4221995	1.41E-06	1.73E-06	9.11E-08	3.23E-06	7.50E-07	1.89E-06	9.11E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
2804	565170	4221980	1.31E-06	1.6E-06	8.41E-08	2.99E-06	6.93E-07	1.75E-06	8.41E-08	2.53E-06	1.72E-07	3.12E-07	2.75E-08	5.11E-07	1.33E-07	1.74E-07	1.26E-08	3.19E-07
2805	565178.2	4221976	1.28E-06	1.56E-06	8.24E-08	2.93E-06	6.79E-07	1.71E-06	8.24E-08	2.48E-06	1.68E-07	3.06E-07	2.70E-08	5.01E-07	1.30E-07	1.70E-07	1.23E-08	3.13E-07
2806	565194.5	4221969	1.23E-06	1.5E-06	7.92E-08	2.81E-06	6.52E-07	1.65E-06	7.92E-08	2.38E-06	1.62E-07	2.94E-07	2.59E-08	4.81E-07	1.25E-07	1.63E-07	1.18E-08	3.00E-07
2807	565202.6	4221965	1.21E-06	1.47E-06	7.77E-08	2.76E-06	6.40E-07	1.62E-06	7.77E-08	2.33E-06	1.58E-07	2.88E-07	2.54E-08	4.72E-07	1.23E-07	1.60E-07	1.16E-08	2.94E-07
2808	564983	4222279	3.26E-06	3.98E-06	2.10E-07	7.45E-06	1.73E-06	4.37E-06	2.10E-07	6.31E-06	4.28E-07	7.78E-07	6.87E-08	1.28E-06	3.31E-07	4.33E-07	3.13E-08	7.96E-07
2809	564984.1	4222288	3.28E-06	4E-06	2.11E-07	7.49E-06	1.74E-06	4.39E-06	2.11E-07	6.34E-06	4.30E-07	7.82E-07	6.90E-08	1.28E-06	3.33E-07	4.35E-07	3.15E-08	8.00E-07
2810	564987.3	4222315	3.28E-06	4.01E-06	2.11E-07	7.51E-06	1.74E-06	4.40E-06	2.11E-07	6.35E-06	4.31E-07	7.84E-07	6.92E-08	1.28E-06	3.34E-07	4.36E-07	3.16E-08	8.02E-07
2811	564988.4	4222324	3.27E-06	4E-06	2.11E-07	7.48E-06	1.74E-06	4.38E-06	2.11E-07	6.33E-06	4.30E-07	7.81E-07	6.89E-08	1.28E-06	3.33E-07	4.35E-07	3.15E-08	7.99E-07
2812	564989.5	4222333	3.26E-06	3.98E-06	2.10E-07	7.44E-06	1.73E-06	4.36E-06	2.10E-07	6.30E-06	4.28E-07	7.77E-07	6.86E-08	1.27E-06	3.31E-07	4.33E-07	3.13E-08	7.95E-07
2813	564975.2	4222230	3.05E-06	3.72E-06	1.96E-07	6.96E-06	1.61E-06	4.08E-06	1.96E-07	5.89E-06	4.00E-07	7.27E-07	6.41E-08	1.19E-06	3.09E-07	4.05E-07	2.93E-08	7.43E-07
2814	564985.8	4222196	2.95E-06	3.6E-06	1.90E-07	6.74E-06	1.56E-06	3.95E-06	1.90E-07	5.70E-06	3.87E-07	7.03E-07	6.21E-08	1.15E-06	3.00E-07	3.92E-07	2.83E-08	7.19E-07
2815	564991	4222179	2.86E-06	3.49E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.76E-07	6.82E-07	6.02E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.98E-07
2816	564996.3	4222162	2.75E-06	3.36E-06	1.77E-07	6.29E-06	1.46E-06	3.68E-06	1.77E-07	5.32E-06	3.61E-07	6.56E-07	5.79E-08	1.08E-06	2.80E-07	3.65E-07	2.64E-08	6.71E-07
2817	565001.6	4222145	2.62E-06	3.21E-06	1.69E-07	6.00E-06	1.39E-06	3.51E-06	1.69E-07	5.07E-06	3.45E-07	6.26E-07	5.53E-08	1.03E-06	2.67E-07	3.49E-07	2.52E-08	6.41E-07
2818	565006.9	4222128	2.49E-06	3.04E-06	1.60E-07	5.68E-06	1.32E-06	3.33E-06	1.60E-07	4.80E-06	3.26E-07	5.93E-07	5.23E-08	9.72E-07	2.53E-07	3.30E-07	2.39E-08	6.07E-07
2819	565017.4	4222095	2.19E-06	2.67E-06	1.41E-07	5.00E-06	1.16E-06	2.93E-06	1.41E-07	4.23E-06	2.87E-07	5.22E-07	4.61E-08	8.55E-07	2.22E-07	2.91E-07	2.10E-08	5.34E-07
2820	565022.7	4222078	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.94E-06	2.67E-07	4.86E-07	4.29E-08	7.96E-07	2.07E-07	2.71E-07	1.96E-08	4.97E-07
2821	565027.9	4222061	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.66E-06	2.48E-07	4.51E-07	3.98E-08	7.39E-07	1.92E-07	2.51E-07	1.82E-08	4.61E-07
2822	565033.2	4222044	1.75E-06	2.14E-06	1.13E-07	4.00E-06	9.28E-07	2.34E-06	1.13E-07	3.38E-06	2.30E-07	4.18E-07	3.69E-08	6.84E-07	1.78E-07	2.33E-07	1.68E-08	4.27E-07
2823	565038.5	4222027	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.58E-07	2.17E-06	1.04E-07	3.13E-06	2.12E-07	3.86E-07	3.41E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.95E-07
2824	565049.2	4222015	1.53E-06	1.87E-06	9.87E-08	3.51E-06	8.13E-07	2.05E-06	9.87E-08	2.97E-06	2.01E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.47E-08	3.74E-07
2825	565065.4	4222007	1.49E-06	1.82E-06	9.59E-08	3.41E-06	7.90E-07	1.99E-06	9.59E-08	2.88E-06	1.96E-07	3.55E-07	3.14E-08	5.82E-07	1.51E-07	1.98E-07	1.43E-08	3.64E-07
2826	565089.7	4221996	1.42E-06	1.73E-06	9.13E-08	3.24E-06	7.52E-07	1.90E-06	9.13E-08	2.74E-06	1.86E-07	3.39E-07	2.99E-08	5.55E-07	1.44E-07	1.89E-07	1.36E-08	3.46E-07
2827	565105.9	4221989	1.37E-06	1.67E-06	8.82E-08	3.13E-06	7.27E-07	1.84E-06	8.82E-08	2.65E-06	1.80E-07	3.27E-07	2.89E-08	5.36E-07	1.39E-07	1.82E-07	1.32E-08	3.35E-07
2828	565114	4221985	1.35E-06	1.64E-06	8.66E-08	3.08E-06	7.14E-07	1.80E-06	8.66E-08	2.60E-06	1.77E-07	3.21E-07	2.84E-08	5.26E-07	1.37E-07	1.79E-07	1.29E-08	3.29E-07
2829	565130.2	4221978	1.3E-06	1.58E-06	8.35E-08	2.96E-06	6.88E-07	1.74E-06	8.35E-08	2.51E-06	1.70E-07	3.09E-07	2.73E-08	5.07E-07	1.32E-07	1.72E-07	1.25E-08	3.17E-07
2830	565138.2	4221974	1.27E-06	1.55E-06	8.19E-08	2.91E-06	6.75E-07	1.70E-06	8.19E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.98E-07	1.29E-07	1.69E-07	1.22E-08	3.11E-07
2831	565170.6	4221960	1.18E-06	1.44E-06	7.59E-08	2.70E-06	6.25E-07	1.58E-06	7.59E-08	2.28E-06	1.55E-07	2.81E-07	2.48E-08	4.61E-07	1.20E-07	1.57E-07	1.13E-08	2.88E-07
2832	565186.8	4221952	1.14E-06	1.39E-06	7.31E-08	2.59E-06	6.02E-07	1.52E-06	7.31E-08	2.19E-06	1.49E-07	2.71E-07	2.39E-08	4.44E-07	1.15E-07	1.51E-07	1.09E-08	2.77E-07
2833	565194.9	4221949	1.11E-06	1.36E-06	7.17E-08	2.55E-06	5.90E-07	1.49E-06	7.17E-08	2.15E-06	1.46E-07	2.66E-07	2.35E-08	4.35E-07	1.13E-07	1.48E-07	1.07E-08	2.72E-07
2834	564964.2	4222291	3.04E-06	3.72E-06	1.96E-07	6.96E-06	1.61E-06	4.08E-06	1.96E-07	5.89E-06	4.00E-07	7.26E-07	6.41E-08	1.19E-06	3.09E-07	4.05E-07	2.93E-08	7.43E-07
2835	564965.3	4222300	3.05E-06	3.72E-06	1.96E-07	6.97E-06	1.62E-06	4.08E-06	1.96E-07	5.90E-06	4.01E-07	7.28E-07	6.42E-08	1.19E-06	3.10E-07	4.05E-07	2.93E-08	7.44E-07
2836	564966.4	4222308	3.05E-06	3.72E-06	1.96E-07	6.97E-06	1.62E-06	4.08E-06	1.96E-07	5.89E-06	4.00E-07	7.27E-07	6.42E-08	1.19E-06	3.10E-07	4.05E-07	2.93E-08	7.44E-07
2837	564967.5	4222317	3.04E-06	3.71E-06	1.96E-07	6.95E-06	1.61E-06	4.07E-06	1.96E-07	5.88E-06	3.99E-07	7.26E-07	6.40E-08	1.19E-06	3.09E-07	4.04E-07	2.92E-08	7.42E-07
2838	564968.6	4222326	3.03E-06	3.7E-06	1.95E-07	6.92E-06	1.61E-06	4.05E-06	1.95E-07	5.85E-06	3.98E-07	7.22E-07	6.38E-08	1.18E-06	3.08E-07	4.02E-07	2.91E-08	7.39E-07
2839	564969.7	4222335	3.01E-06	3.68E-06	1.94E-07	6.88E-06	1.60E-06	4.03E-06	1.94E-07	5.82E-06	3.95E-07	7.18E-07	6.34E-08	1.18E-06	3.06E-07	4.00E-07	2.89E-08	7.35E-07
2840	564950.1	4222250	2.86E-06	3.49E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.98E-07
2841	564955.3	4222233	2.86E-06	3.5E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.99E-07
2842	564960.5	4222216	2.84E-06	3.47E-06	1.83E-07	6.49E-06	1.51E-06	3.80E-06	1.83E-07	5.49E-06	3.73E-07	6.78E-07	5.98E-08	1.11E-06	2.89E-07	3.77E-07	2.73E-08	6.93E-07
2843	564971	4222182	2.73E-06	3.33E-06	1.75E-07	6.23E-06	1.44E-06	3.65E-06	1.75E-07	5.27E-06	3.58E-07	6.50E-07	5.74E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.65E-07
2844	564976.3	4222165	2.64E-06	3.22E-06	1.70E-07	6.03E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.55E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.43E-07
2845	564981.5	4222148	2.53E-06	3.09E-06	1.63E-07	5.78E-06	1.34E

2858	565122.8	4221961	1.19E-06	1.46E-06	7.69E-08	2.73E-06	6.33E-07	1.60E-06	7.69E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.91E-07
2859	565138.9	4221954	1.15E-06	1.41E-06	7.41E-08	2.63E-06	6.11E-07	1.54E-06	7.41E-08	2.23E-06	1.51E-07	2.75E-07	2.43E-08	4.50E-07	1.17E-07	1.53E-07	1.11E-08	2.81E-07
2860	565171.1	4221939	1.07E-06	1.31E-06	6.89E-08	2.45E-06	5.67E-07	1.43E-06	6.89E-08	2.07E-06	1.41E-07	2.55E-07	2.25E-08	4.18E-07	1.09E-07	1.42E-07	1.03E-08	2.61E-07
2861	565179.2	4221936	1.05E-06	1.28E-06	6.76E-08	2.40E-06	5.57E-07	1.41E-06	6.76E-08	2.03E-06	1.38E-07	2.51E-07	2.21E-08	4.11E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
2862	564944.4	4222293	2.84E-06	3.46E-06	1.83E-07	6.48E-06	1.50E-06	3.80E-06	1.83E-07	5.48E-06	3.72E-07	6.77E-07	5.97E-08	1.11E-06	2.88E-07	3.77E-07	2.72E-08	6.92E-07
2863	564945.5	4222302	2.84E-06	3.46E-06	1.83E-07	6.48E-06	1.50E-06	3.80E-06	1.83E-07	5.48E-06	3.73E-07	6.77E-07	5.97E-08	1.11E-06	2.88E-07	3.77E-07	2.73E-08	6.92E-07
2864	564946.5	4222311	2.83E-06	3.46E-06	1.82E-07	6.47E-06	1.50E-06	3.79E-06	1.82E-07	5.48E-06	3.72E-07	6.76E-07	5.97E-08	1.11E-06	2.88E-07	3.76E-07	2.72E-08	6.91E-07
2865	564947.6	4222320	2.82E-06	3.45E-06	1.82E-07	6.45E-06	1.50E-06	3.78E-06	1.82E-07	5.46E-06	3.71E-07	6.74E-07	5.95E-08	1.10E-06	2.87E-07	3.75E-07	2.71E-08	6.89E-07
2866	564948.7	4222329	2.81E-06	3.43E-06	1.81E-07	6.42E-06	1.49E-06	3.76E-06	1.81E-07	5.43E-06	3.69E-07	6.70E-07	5.92E-08	1.10E-06	2.85E-07	3.73E-07	2.70E-08	6.86E-07
2867	564924.9	4222269	2.66E-06	3.25E-06	1.71E-07	6.08E-06	1.41E-06	3.56E-06	1.71E-07	5.14E-06	3.49E-07	6.34E-07	5.60E-08	1.04E-06	2.70E-07	3.53E-07	2.55E-08	6.49E-07
2868	564930.2	4222252	2.69E-06	3.28E-06	1.73E-07	6.14E-06	1.42E-06	3.60E-06	1.73E-07	5.19E-06	3.53E-07	6.41E-07	5.66E-08	1.05E-06	2.73E-07	3.57E-07	2.58E-08	6.55E-07
2869	564935.4	4222235	2.69E-06	3.29E-06	1.73E-07	6.16E-06	1.43E-06	3.61E-06	1.73E-07	5.21E-06	3.54E-07	6.43E-07	5.67E-08	1.05E-06	2.74E-07	3.58E-07	2.59E-08	6.57E-07
2870	564940.6	4222219	2.68E-06	3.27E-06	1.73E-07	6.13E-06	1.42E-06	3.59E-06	1.73E-07	5.18E-06	3.52E-07	6.40E-07	5.65E-08	1.05E-06	2.72E-07	3.56E-07	2.58E-08	6.54E-07
2871	564945.8	4222202	2.65E-06	3.23E-06	1.70E-07	6.05E-06	1.40E-06	3.55E-06	1.70E-07	5.12E-06	3.48E-07	6.32E-07	5.58E-08	1.04E-06	2.69E-07	3.52E-07	2.54E-08	6.46E-07
2872	564956.3	4222168	2.52E-06	3.08E-06	1.62E-07	5.77E-06	1.34E-06	3.38E-06	1.62E-07	4.88E-06	3.31E-07	6.02E-07	5.31E-08	9.87E-07	2.56E-07	3.35E-07	2.42E-08	6.16E-07
2873	564961.5	4222151	2.43E-06	2.97E-06	1.57E-07	5.57E-06	1.29E-06	3.26E-06	1.57E-07	4.71E-06	3.20E-07	5.81E-07	5.13E-08	9.52E-07	2.47E-07	3.23E-07	2.34E-08	5.94E-07
2874	564966.7	4222135	2.33E-06	2.85E-06	1.50E-07	5.33E-06	1.24E-06	3.12E-06	1.50E-07	4.51E-06	3.06E-07	5.57E-07	4.91E-08	9.12E-07	2.37E-07	3.10E-07	2.24E-08	5.69E-07
2875	564977.2	4222101	2.1E-06	2.57E-06	1.35E-07	4.80E-06	1.11E-06	2.81E-06	1.35E-07	4.06E-06	2.76E-07	5.01E-07	4.43E-08	8.22E-07	2.14E-07	2.79E-07	2.02E-08	5.13E-07
2876	564982.4	4222084	1.98E-06	2.42E-06	1.27E-07	4.53E-06	1.05E-06	2.65E-06	1.27E-07	3.83E-06	2.60E-07	4.72E-07	4.17E-08	7.74E-07	2.01E-07	2.63E-07	1.90E-08	4.83E-07
2877	564987.6	4222067	1.86E-06	2.27E-06	1.20E-07	4.24E-06	9.85E-07	2.49E-06	1.20E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.26E-07	1.89E-07	2.47E-07	1.78E-08	4.53E-07
2878	564992.9	4222051	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.20E-07	2.32E-06	1.12E-07	3.36E-06	2.28E-07	4.14E-07	3.66E-08	6.79E-07	1.76E-07	2.31E-07	1.67E-08	4.24E-07
2879	564998.1	4222034	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.58E-07	2.17E-06	1.04E-07	3.13E-06	2.13E-07	3.86E-07	3.41E-08	6.33E-07	1.65E-07	2.15E-07	1.56E-08	3.95E-07
2880	565019.2	4221988	1.33E-06	1.63E-06	8.57E-08	3.04E-06	7.06E-07	1.78E-06	8.57E-08	2.57E-06	1.75E-07	3.18E-07	2.80E-08	5.21E-07	1.35E-07	1.77E-07	1.28E-08	3.25E-07
2881	565035.2	4221981	1.3E-06	1.58E-06	8.34E-08	2.96E-06	6.87E-07	1.74E-06	8.34E-08	2.51E-06	1.70E-07	3.09E-07	2.73E-08	5.07E-07	1.32E-07	1.72E-07	1.25E-08	3.16E-07
2882	565043.2	4221977	1.28E-06	1.56E-06	8.22E-08	2.92E-06	6.77E-07	1.71E-06	8.22E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	4.99E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
2883	565059.3	4221970	1.24E-06	1.51E-06	7.98E-08	2.83E-06	6.57E-07	1.66E-06	7.98E-08	2.40E-06	1.63E-07	2.96E-07	2.61E-08	4.84E-07	1.26E-07	1.65E-07	1.19E-08	3.02E-07
2884	565075.3	4221963	1.2E-06	1.47E-06	7.72E-08	2.74E-06	6.36E-07	1.61E-06	7.72E-08	2.32E-06	1.58E-07	2.86E-07	2.53E-08	4.69E-07	1.22E-07	1.59E-07	1.15E-08	2.93E-07
2885	565091.4	4221955	1.16E-06	1.42E-06	7.48E-08	2.66E-06	6.16E-07	1.56E-06	7.48E-08	2.25E-06	1.53E-07	2.77E-07	2.45E-08	4.54E-07	1.18E-07	1.54E-07	1.12E-08	2.84E-07
2886	565107.4	4221948	1.12E-06	1.37E-06	7.23E-08	2.57E-06	5.95E-07	1.50E-06	7.23E-08	2.17E-06	1.47E-07	2.68E-07	2.37E-08	4.39E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
2887	565123.4	4221941	1.08E-06	1.32E-06	6.98E-08	2.48E-06	5.75E-07	1.45E-06	6.98E-08	2.10E-06	1.42E-07	2.59E-07	2.28E-08	4.24E-07	1.10E-07	1.44E-07	1.04E-08	2.65E-07
2888	565139.5	4221934	1.05E-06	1.28E-06	6.74E-08	2.39E-06	5.55E-07	1.40E-06	6.74E-08	2.02E-06	1.38E-07	2.50E-07	2.21E-08	4.09E-07	1.06E-07	1.39E-07	1.01E-08	2.56E-07
2889	565155.5	4221926	1.01E-06	1.23E-06	6.51E-08	2.31E-06	5.36E-07	1.35E-06	6.51E-08	1.95E-06	1.33E-07	2.41E-07	2.13E-08	3.95E-07	1.03E-07	1.34E-07	9.71E-09	2.47E-07
2890	565171.6	4221919	9.76E-07	1.19E-06	6.28E-08	2.23E-06	5.18E-07	1.31E-06	6.28E-08	1.89E-06	1.28E-07	2.33E-07	2.06E-08	3.82E-07	9.92E-08	1.30E-07	9.38E-09	2.38E-07
2891	564923.4	4222286	2.64E-06	3.23E-06	1.70E-07	6.04E-06	1.40E-06	3.54E-06	1.70E-07	5.11E-06	3.47E-07	6.31E-07	5.57E-08	1.03E-06	2.69E-07	3.51E-07	2.54E-08	6.45E-07
2892	564926.7	4222313	2.64E-06	3.22E-06	1.70E-07	6.03E-06	1.40E-06	3.53E-06	1.70E-07	5.10E-06	3.46E-07	6.29E-07	5.56E-08	1.03E-06	2.68E-07	3.50E-07	2.53E-08	6.44E-07
2893	564928.9	4222331	2.61E-06	3.19E-06	1.68E-07	5.98E-06	1.39E-06	3.50E-06	1.68E-07	5.05E-06	3.43E-07	6.24E-07	5.51E-08	1.02E-06	2.66E-07	3.47E-07	2.51E-08	6.38E-07
2894	564930	4222340	2.6E-06	3.17E-06	1.67E-07	5.93E-06	1.38E-06	3.48E-06	1.67E-07	5.02E-06	3.41E-07	6.19E-07	5.47E-08	1.01E-06	2.64E-07	3.45E-07	2.49E-08	6.34E-07
2895	564905.2	4222271	2.49E-06	3.04E-06	1.60E-07	5.70E-06	1.32E-06	3.34E-06	1.60E-07	4.82E-06	3.27E-07	5.95E-07	5.25E-08	9.75E-07	2.53E-07	3.31E-07	2.40E-08	6.08E-07
2896	564907.8	4222263	2.51E-06	3.07E-06	1.62E-07	5.74E-06	1.33E-06	3.36E-06	1.62E-07	4.85E-06	3.30E-07	5.99E-07	5.29E-08	9.81E-07	2.55E-07	3.33E-07	2.41E-08	6.13E-07
2897	564913.2	4222245	2.53E-06	3.09E-06	1.63E-07	5.79E-06	1.34E-06	3.39E-06	1.63E-07	4.90E-06	3.33E-07	6.04E-07	5.33E-08	9.90E-07	2.57E-07	3.36E-07	2.43E-08	6.18E-07
2898	564918.5	4222228	2.54E-06	3.1E-06	1.63E-07	5.80E-06	1.35E-06	3.40E-06	1.63E-07	4.91E-06	3.33E-07	6.05E-07	5.34E-08	9.92E-07	2.58E-07	3.37E-07	2.44E-08	6.19E-07
2899	564923.9	4222211	2.52E-06	3.08E-06	1.62E-07	5.76E-06	1.34E-06	3.38E-06	1.62E-07	4.88E-06	3.31E-07	6.02E-07	5.31E-08	9.86E-07	2.56E-07	3.35E-07	2.42E-08	6.15E-07
2900	564929.2	4222194	2.49E-06	3.04E-06	1.60E-07	5.68E-06	1.32E-06	3.33E-06	1.60E-07	4.81E-06	3.26E-07	5.93E-07	5.23E-08	9.72E-07	2.53E-07	3.30E-07	2.39E-08	6.07E-07
2901	564931.9	4222185	2.46E-06	3E-06	1.58E-07	5.62E-06	1.30E-06	3.29E-06	1.58E-07	4.76E-06	3.23E-07	5.87E-07	5.18E-08	9.62E-07	2.50E-07	3.27E-07	2.36E-08	6.01E-07
2902	564937.3	4222168	2.4E-06	2.93E-06	1.54E-07	5.48E-06	1.27E-06	3.21E-06	1.54E-07	4.64E-06	3.15E-07	5.72E-07	5.05E-08	9.38E-07	2.44E-07	3.19E-07	2.30E-08	5.86E-07
2903	564942.6	4222151	2.32E-06	2.84E-06	1.49E-07	5.31E-06	1.23E-06	3.11E-06	1.49E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.08E-07	2.36E-07	3.08E-07	2.23E-08	5.67E-07
2904	564948	4222133	2.23E-06	2.72E-06	1.44E-07	5.10E-06	1.18E-06	2.99E-06	1.44E-07	4.31E-06	2.93E-07	5.32E-07	4.70E-08	8.72E-07	2.27E-07	2.96E-07	2.14E-08	5.44E-07
2905	564958.7	4222099	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.70E-06	1.30E-07	3.91E-06	2.65E-07	4.82E-07	4.25E-08	7.90E-07	2.05E-07	2.68E-07	1.94E-08	4.93E-07
2906	564964	4222082	1.91E-06	2.33E-06	1.23E-07	4.36E-06	1.01E-06	2.55E-06	1.23E-07	3.69E-06	2.50E-07	4.55E-07	4.01E-08	7.45E-07	1.94E-07	2.53E-07	1.83E-08	4.65E-07
2907	564966.7	4222073	1.85E-06	2.26E-06	1.19E-07	4.23E-06	9.80E-07	2.48E-06	1.19E-07	3.57E-06	2.43E-07	4.41E-07	3.89E-08	7.23E-07	1.88E-07	2.46E-07	1.78E-08	4.51E-07
2908	564972.1	4222056	1.73E-06	2.12E-06	1.12E-07	3.96E-06	9.20E-07	2.32E-06	1.12E-07	3.35E-06	2.28E-07	4.14E-07	3.65E-08	6.78E-07	1.76E-07	2.30E-07	1.67E-08	4.23E-07
2909	564977.4	4222039	1.62E-06	1.98E-06	1.04E-07	3.71E-06	8.60E-07	2.17E-06	1.04E-07	3.14E-06	2.13E-07	3.87E-07	3.42E-08	6.34E-07	1.65E-07	2.15E-07	1.56E-08	3.96E-07
2910	564982.8	4222022	1.51E-06	1.85E-06	9.73E-08	3.46E-06	8.02E-07	2.02E-06	9.73E-08	2.92E-06	1.99E-07	3.61E-07	3.18E-08	5.91E-07	1.54E-07	2.01E-07	1.45E-08	3.69E-07
2911	564988.1	4222004	1.41E-06	1.72E-06	9.06E-08	3.22E-06	7.46E-07	1.88E-06	9.06E-08	2.72E-06	1.85E-07	3.36E-07	2.96E-08	5.50E-07	1.43E-07	1.87E-07	1.35E-08	3.43E-07
2912	564990.8	4221996	1.36E-06	1.66E-06	8.74E-08	3.10E-06	7.20E-07	1.82E-06	8.74E-08	2.62E-06	1.78E-07	3.24E-07	2.86E-08	5.31E-07	1.38E-07	1.80E-07	1.30E-08	3.31E-07
2913	565020.8	4221967	1.21E-06	1.48E-06	7.81E-08	2.77E-06	6.43E-07	1.62E-06	7.81E-08	2.35E-06	1.59E-07	2.89E-07	2.56E-08	4.74E-07	1.23E-07	1.61E-07	1.17E-08	2.96E-07
2914	565029	4221964	1.2E-06	1.46E-06	7.70E-08	2.73E-06	6.34E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.68E-07	1.22E-07	1.59E-07	1.15E-08	2.92E-07
2915	565045.5	4221956	1.16E-06	1.42E-06	7.47E-08	2.65E-06	6.15E-07	1.55E-06	7.47E-08	2.24E-06	1.52E-07	2.77E-07	2.44E-08	4.54E-07	1.18E-07	1.54E-07	1.11E-08	2.83E-07
2916	565061.9	4221949	1.12E-06	1.37E-06	7.23E-08	2.57E-06	5.96E-07	1.50E-06	7.23E-08	2.17E-06	1.48E-07	2.68E-07	2.37E-08	4.39E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
2917	565103	4221930	1.03E-06	1.26E-06	6.66E-08	2.36E-06	5.48E-07	1.38E-06	6.66E-08	2.00E-06	1.36E-07	2.47E-07	2.18E-08	4.04E-07	1.05E-07	1.37E-07	9.94E-09	2.52E-07
2918	565119.4	4221923	9.99E-07	1.22E-06	6.43E-08	2.28E-06	5.30E-07	1.34E-06	6.43E-08	1.93E-06	1.31E-07	2.38E-07	2.10E-08	3.91E-07	1.02E-07	1.33E-07	9.60E-09	2.44E-07
2919	565144.1	4221912	9.48E-07	1.16E-06	6.10E-08	2.17E-06	5.03E-07	1.27E-06	6.10E-08	1.83E-06	1.25E-07	2.26E-07	2.00E-08	3.71E-07	9.64E-08	1.26E-07	9.11E-09	2.31E-07
2920	565160.5	4221904	9.16E-07	1.12E-06	5.90E-08	2.09E-06	4.86E-07	1.23E-06	5.90E-08	1.77E-06	1.20E-07	2.19E-07	1.93E-08	3.58E-07	9.31E-08	1.22E-07	8.81E-09	2.24E-07
2921	564903.6	4222289	2.48E-06	3.02E-06	1.59E-07	5.66E-06	1.31E-06	3.31E-06	1.59E-07	4.79E-06	3.25E-07	5.91E-07	5.21E-08	9.68E-07	2.52E-07	3.29E-07	2.38E-08	6.04E-07
2922	564904.7	4222298	2.48E-06	3.02E-06	1.59E-07	5.66E-06	1.31E-06	3.31E-06	1.59E-07	4.79E-06	3.25E-07	5.91E-07	5.21E-08	9.68E-07	2.52E-07	3.29E-07	2.38E-08	6.04E-07
2923	564885.3	4222274	2.34E-06	2.86E-06	1.51E-07	5.35E-06	1.24E-06	3.14E-06	1.51E-07	4.53E-06	3.08E-07	5.59E-07	4.93E-08	9.16E-07	2.38E-07	3.11E-07	2.25E-08	5.72E-07
2924	564890.6	4222257	2.37E-06	2.9E-06	1.53E-07	5.43E-06	1.26E-06	3.18E-06	1.53E-07	4.59E-06	3.12E-07	5.66E-07	5.00E-08	9.28E-07	2.41E-07	3.15E-07	2.28E-08	5.80E-07
2925	564895.9	4222239	2.39E-06	2.92E-06	1.54E-07	5.47E-06	1.27E-06	3.20E-06	1.54E-07	4.62E-06	3.14E-07	5.71E-07	5.04E-08	9.35E-07	2.43E-07	3.18E-07	2.30E-08	5.84E-07
2926	564901.3	4222222	2.39E-06	2.92E-06	1.54E-07	5.47E-06	1.27E-06	3.20E-06	1.54E-07	4.63E-06	3.14E-07	5.71E-07	5.04E-08	9.36E-07	2.43E-07	3.18E-07	2.30E-08	5.84E-07
2927	564903.9	4222214	2.39E-06	2.92E-06	1.54E-07	5.46E-06	1.27E-06	3.20E-06	1.54E-07	4.62E-06	3.14E-07	5.70E-07	5.03E-08	9.34E-07	2.43E-07	3.17E-07	2.29E-08	5.83E-07
2928	564909.3	4222197	2.36E-06	2.89E-06	1.52E-07	5.40E-06	1.25E-06	3.16E-06	1.52E-07	4.57E-06	3.10E-07	5.64E-07	4.98E-08	9.24E-07	2.40E-07	3.14E-07	2.27E-08	5.77E-07
2929	564914.6	4222179	2.32E-06	2.83E-06	1.49E-07	5.31E-06	1.23E-06	3.11E-06	1.49E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.07E-07	2.36E-07	3.08E-07	2.23E-08	5.67E-07
2930	564919.9	4222162	2.26E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.03E-06	1.46E-07	4.38E-06	2.97E-07	5.40E-07	4.77E-08	8.85E-07	2.30E-07	3.01E-07	2.18E-08	5.53E-07
2931	564922.6	4222154	2.23E-06	2.72E-06	1.44E-07	5.10E-06	1.18E-06	2.99E-06	1.44E-07	4.31E-06	2.93E-07	5.32E-07	4.70E-08	8.72E-07	2.27E-07	2.96E-07	2.14E-08	5.44E-07
2932	564927.9	4222137	2.15E-06	2.63E-06	1.39E-07	4.92E-06	1.14E-06	2.88E-06	1.39E-07	4.16E-06	2.83E-07	5.14E-07	4.54E-08	8.42E-07	2.19E-07	2.86E-07	2.07E-08	5.26E-07
2933	564941.2	4222094	1.92E-06	2.35E-06	1.24E-07	4.39E-06	1.02E-06	2.57E-06	1.24E-07	3.72E-06	2.52E-07	4.59E-07	4.05E-08	7.51E-07	1.95E-07	2.55E-07	1.85E-08	4.69E-07
2934	564946.5	4222077	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.64E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.34E-07	3.83E-08	7.11E-07	1.85E-07	2.42E-07	1.75E-08	4.44E-07
2935	564951.9	4222059	1.71E-06	2.09E-06	1.10E-07	3.92E-06	9.09E-07	2.30E-06	1.10E-07	3.32E-06	2.25E-07	4.09E-07	3.61E-08	6.70E-07	1.74E-07	2.28E-07	1.65E-08	4.18E-07
2936	564957.2	4222042	1.61E-06	1.97E-06	1.04E-07	3.68E-06	8.54E-07	2.16E-06	1.04E-07	3.11E-06	2.12E-07	3.84E-07	3.39E-08	6.30E-07	1.64E-07	2.14E-07	1.55E-08	3.93E-07
2937	564962.5	4222025	1.51E-06	1.84E-06	9.71E-08	3.45E-06	8.00E-07	2.02E-06	9.71E-08	2.92E-06	1.98E-07	3.60E-07	3.18E-08	5.90E-07	1.53E-07	2.00E-07	1.45E-08	3.68E-07
2938	564967.9	4222008	1.41E-06	1.72E-06	9.07E-08	3.22E-06	7.47E-07	1.89E-06	9.07E-08	2.72E-06	1.85E-07	3.36E-07	2.97E-08	5.51E-07	1.43E-07	1.87E-07	1.35E-08	3.44E-07
2939	564973.2	4221991	1.32E-06	1.61E-06	8.47E-08	3.01E-06	6.97E-07	1.76E-06	8.47E-08	2.54E-06	1.73E-07	3.14E-07	2.77E-08	5.14E-07	1.34E-07	1.75E-07	1.26E-08	3.21E-07
2940	564978.5	4221974	1.23E-06	1.5E-06	7.90E-08	2.80E-06	6.50E-07	1.64E-06	7.90E-08	2.37E-06	1.61E-07	2.93E-07	2.58E-08	4.80E-07	1.25E-07	1.63E-07	1.18E-08	2.99E-07
2941	564989.4	4221961	1.17E-06	1.43E-06	7.53E-08	2.67E-06	6.20E-07	1.57E-06	7.53E-08	2.26E-06	1.54E-07	2.79E-07	2.46E-08	4.58E-07	1.19E-07	1.55E-07	1.12E-08	2.86E-07
2942	565022.1	4221947	1.11E-06	1.35E-06	7.14E-08	2.53E-06	5.88E-07	1.48E-06	7.14E-08	2.14E-06	1.46E-07	2.65E-07	2.34E-08	4.34E-07	1.13E-07	1.47E-07	1.07E-08	2.71E-07
2943	565038.4	4221939	1.08E-06	1.31E-06	6.93E-08	2.46E-06	5.70E-07	1.44E-06	6.93E-08	2.08E-06	1.41E-07	2.57E-07	2.27E-08	4.21E-07	1.09E-07	1.43E-07	1.03E-08	2.63E-07
2944	565046.6	4221936	1.06E-06	1.29E-06	6.82E-08	2.42E-06	5.62E-07	1.42E-06	6.82E-08	2.05E-06	1.39E-07	2.53E-07	2.23E-08	4.14E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
2945	565063	4221928	1.03E-06	1.25E-06	6.61E-08	2.35E-06	5.44E-07	1.37E-06	6.61E-08	1.98E-06	1.35E-07	2.45E-07	2.16E-08	4.01E-07	1.04E-07	1.36E-07	9.86E-09	2.51E-07
2946	565079.3	4221921	9.94E-07	1.21E-06	6.40E-08	2.27E-06	5.27E-07	1.33E-06	6.40E-08	1.92E-06	1.31E-07	2.37E-07	2.09E-08	3.89E-07	1.01E-07	1.32E-07	9.55E-09	2.43E-07
2947	565128.4	4221899	8.99E-07	1.1E-06	5.79E-08	2.06E-06	4.77E-07	1.20E-06	5.79E-08	1.74E-06	1.18E-07	2.15E-07	1.89E-08	3.52E-07	9.14E-08	1.19E-07	8.64E-09	2.19E-07
2948	565144.7	4221891	8.7E-07	1.06E-06	5.60E-08	1.99E-06	4.61E-07	1.16E-06	5.60E-08	1.68E-06	1.14E-07	2.08E-07	1.83E-08	3.40E-07	8.84E-08	1.16E-07	8.36E-09	2.12E-07
2949	564882.6	4222282	2.32E-06	2.83E-06	1.49E-07	5.31E-06	1.23E-06	3.11E-06	1.49E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.07E-07	2.36E-07	3.08E-07	2.23E-08	5.67E-07
2950	564883.7	4222291	2.32E-06	2.84E-06	1.50E-07	5.31E-06	1.23E-06	3.11E-06	1.50E-07	4.49E-06	3.05E-07	5.54E-07	4.89E-08	9.08E-07	2.36E-07	3.09E-07	2.23E-08	5.67E-07
2951	564890.3	4222345	2.26E-06	2.76E-06	1.46E-07	5.17E-06	1.20E-06	3.03E-06	1.46E-07	4.38E-06	2.97E-07	5.40E-07	4.77E-08	8.85E-07	2.30E-07	3.01E-07	2.17E-08	5.52E-07
2952	564865.4	4222276	2.21E-06	2.69E-06	1.42E-07	5.04E-06	1.17E-06	2.95E-06	1.42E-07	4.27E-06	2.90E-07	5.26E-07	4.65E-08	8.62E-07	2.24E-07	2.93E-07	2.12E-08	5.38E-07
2953	564870.7	4222259	2.24E-06	2.73E-06	1.44E-07	5.12E-06	1.19E-06	3.00E-06	1.44E-07	4.33E-06	2.94E-07	5.34E-07	4.72E-08	8.75E-07	2.28E-07	2.97E-07	2.15E-08	5.47E-07
2954	564886.6	4222208	2.26E-06	2.76E-06	1.45E-07	5.16E-06	1.20E-06	3.02E-06	1.45E-07	4.36E-06	2.96E-07	5.38E-07	4.75E-08	8.82E-07	2.29E-07	3.00E-07	2.17E-08	5.51E-07
2955	564891.9	4222191	2.23E-06	2.73E-06	1.44E

2968	564982.5	4221945	1.09E-06	1.33E-06	7.00E-08	2.49E-06	5.76E-07	1.46E-06	7.00E-08	2.10E-06	1.43E-07	2.59E-07	2.29E-08	4.25E-07	1.10E-07	1.44E-07	1.04E-08	2.65E-07
2969	564998.8	4221937	1.06E-06	1.29E-06	6.82E-08	2.42E-06	5.62E-07	1.42E-06	6.82E-08	2.05E-06	1.39E-07	2.53E-07	2.23E-08	4.14E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
2970	565015	4221930	1.03E-06	1.26E-06	6.64E-08	2.36E-06	5.47E-07	1.38E-06	6.64E-08	1.99E-06	1.35E-07	2.46E-07	2.17E-08	4.03E-07	1.05E-07	1.37E-07	9.90E-09	2.52E-07
2971	565023.2	4221926	1.02E-06	1.24E-06	6.54E-08	2.32E-06	5.39E-07	1.36E-06	6.54E-08	1.96E-06	1.33E-07	2.42E-07	2.14E-08	3.97E-07	1.03E-07	1.35E-07	9.76E-09	2.48E-07
2972	565039.5	4221919	9.86E-07	1.2E-06	6.35E-08	2.25E-06	5.23E-07	1.32E-06	6.35E-08	1.91E-06	1.29E-07	2.35E-07	2.08E-08	3.85E-07	1.00E-07	1.31E-07	9.47E-09	2.41E-07
2973	565047.6	4221915	9.71E-07	1.19E-06	6.25E-08	2.22E-06	5.15E-07	1.30E-06	6.25E-08	1.88E-06	1.27E-07	2.32E-07	2.04E-08	3.80E-07	9.87E-08	1.29E-07	9.33E-09	2.37E-07
2974	565063.9	4221908	9.41E-07	1.15E-06	6.05E-08	2.15E-06	4.99E-07	1.26E-06	6.05E-08	1.82E-06	1.24E-07	2.24E-07	1.98E-08	3.68E-07	9.56E-08	1.25E-07	9.04E-09	2.30E-07
2975	565072	4221904	9.26E-07	1.13E-06	5.96E-08	2.12E-06	4.91E-07	1.24E-06	5.96E-08	1.79E-06	1.22E-07	2.21E-07	1.95E-08	3.62E-07	9.41E-08	1.23E-07	8.89E-09	2.26E-07
2976	565088.3	4221897	8.96E-07	1.09E-06	5.77E-08	2.05E-06	4.75E-07	1.20E-06	5.77E-08	1.73E-06	1.18E-07	2.14E-07	1.89E-08	3.50E-07	9.11E-08	1.19E-07	8.61E-09	2.19E-07
2977	565112.7	4221886	8.54E-07	1.04E-06	5.49E-08	1.95E-06	4.53E-07	1.14E-06	5.49E-08	1.65E-06	1.12E-07	2.04E-07	1.80E-08	3.34E-07	8.68E-08	1.13E-07	8.20E-09	2.08E-07
2978	565129	4221878	8.27E-07	1.01E-06	5.32E-08	1.89E-06	4.38E-07	1.11E-06	5.32E-08	1.60E-06	1.09E-07	1.97E-07	1.74E-08	3.23E-07	8.40E-08	1.10E-07	7.95E-09	2.02E-07
2979	565137.2	4221875	8.14E-07	9.94E-07	5.24E-08	1.86E-06	4.32E-07	1.09E-06	5.24E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.18E-07	8.27E-08	1.08E-07	7.82E-09	1.99E-07
2980	564866	4222312	2.18E-06	2.66E-06	1.40E-07	4.97E-06	1.15E-06	2.91E-06	1.40E-07	4.21E-06	2.86E-07	5.19E-07	4.58E-08	8.51E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
2981	564867.1	4222321	2.17E-06	2.65E-06	1.39E-07	4.95E-06	1.15E-06	2.90E-06	1.39E-07	4.19E-06	2.84E-07	5.17E-07	4.56E-08	8.47E-07	2.20E-07	2.88E-07	2.08E-08	5.29E-07
2982	564868.2	4222330	2.15E-06	2.63E-06	1.39E-07	4.92E-06	1.14E-06	2.88E-06	1.39E-07	4.16E-06	2.83E-07	5.14E-07	4.54E-08	8.42E-07	2.19E-07	2.86E-07	2.07E-08	5.26E-07
2983	564869.3	4222338	2.14E-06	2.61E-06	1.38E-07	4.89E-06	1.13E-06	2.86E-06	1.38E-07	4.14E-06	2.81E-07	5.10E-07	4.50E-08	8.36E-07	2.17E-07	2.84E-07	2.05E-08	5.22E-07
2984	564856.1	4222245	2.14E-06	2.61E-06	1.38E-07	4.88E-06	1.13E-06	2.86E-06	1.38E-07	4.13E-06	2.81E-07	5.10E-07	4.50E-08	8.35E-07	2.17E-07	2.84E-07	2.05E-08	5.22E-07
2985	564861.4	4222228	2.15E-06	2.62E-06	1.38E-07	4.91E-06	1.14E-06	2.88E-06	1.38E-07	4.15E-06	2.82E-07	5.12E-07	4.52E-08	8.40E-07	2.18E-07	2.85E-07	2.06E-08	5.24E-07
2986	564877.2	4222177	2.1E-06	2.56E-06	1.35E-07	4.80E-06	1.11E-06	2.81E-06	1.35E-07	4.06E-06	2.76E-07	5.01E-07	4.42E-08	8.20E-07	2.13E-07	2.79E-07	2.02E-08	5.12E-07
2987	564882.5	4222160	2.06E-06	2.51E-06	1.32E-07	4.70E-06	1.09E-06	2.75E-06	1.32E-07	3.98E-06	2.70E-07	4.91E-07	4.33E-08	8.04E-07	2.09E-07	2.73E-07	1.98E-08	5.02E-07
2988	564887.8	4222143	2E-06	2.45E-06	1.29E-07	4.58E-06	1.06E-06	2.68E-06	1.29E-07	3.87E-06	2.63E-07	4.78E-07	4.22E-08	7.83E-07	2.04E-07	2.66E-07	1.92E-08	4.89E-07
2989	564893.1	4222126	1.94E-06	2.37E-06	1.25E-07	4.43E-06	1.03E-06	2.60E-06	1.25E-07	3.75E-06	2.55E-07	4.63E-07	4.08E-08	7.58E-07	1.97E-07	2.58E-07	1.86E-08	4.73E-07
2990	564903.7	4222092	1.79E-06	2.18E-06	1.15E-07	4.09E-06	9.48E-07	2.39E-06	1.15E-07	3.46E-06	2.35E-07	4.27E-07	3.76E-08	6.99E-07	1.82E-07	2.37E-07	1.72E-08	4.36E-07
2991	564908.9	4222075	1.7E-06	2.08E-06	1.10E-07	3.89E-06	9.03E-07	2.28E-06	1.10E-07	3.29E-06	2.24E-07	4.07E-07	3.59E-08	6.66E-07	1.73E-07	2.26E-07	1.64E-08	4.16E-07
2992	564914.2	4222058	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.58E-07	2.17E-06	1.04E-07	3.13E-06	2.12E-07	3.86E-07	3.41E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.95E-07
2993	564919.5	4222041	1.53E-06	1.87E-06	9.84E-08	3.50E-06	8.11E-07	2.05E-06	9.84E-08	2.96E-06	2.01E-07	3.65E-07	3.22E-08	5.98E-07	1.55E-07	2.03E-07	1.47E-08	3.73E-07
2994	564924.8	4222024	1.44E-06	1.76E-06	9.28E-08	3.30E-06	7.65E-07	1.93E-06	9.28E-08	2.79E-06	1.89E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
2995	564940.6	4221973	1.2E-06	1.46E-06	7.70E-08	2.73E-06	6.34E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.92E-07
2996	564945.9	4221956	1.12E-06	1.37E-06	7.21E-08	2.56E-06	5.94E-07	1.50E-06	7.21E-08	2.17E-06	1.47E-07	2.67E-07	2.36E-08	4.38E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
2997	564959.3	4221935	1.04E-06	1.27E-06	6.68E-08	2.37E-06	5.50E-07	1.39E-06	6.68E-08	2.01E-06	1.36E-07	2.48E-07	2.19E-08	4.06E-07	1.05E-07	1.38E-07	9.97E-09	2.53E-07
2998	564975.5	4221928	1.01E-06	1.24E-06	6.52E-08	2.31E-06	5.37E-07	1.36E-06	6.52E-08	1.96E-06	1.33E-07	2.42E-07	2.13E-08	3.96E-07	1.03E-07	1.35E-07	9.73E-09	2.47E-07
2999	564991.7	4221920	9.87E-07	1.21E-06	6.35E-08	2.26E-06	5.23E-07	1.32E-06	6.35E-08	1.91E-06	1.30E-07	2.35E-07	2.08E-08	3.86E-07	1.00E-07	1.31E-07	9.48E-09	2.41E-07
3000	564999.9	4221917	9.74E-07	1.19E-06	6.27E-08	2.23E-06	5.16E-07	1.30E-06	6.27E-08	1.88E-06	1.28E-07	2.32E-07	2.05E-08	3.81E-07	9.89E-08	1.29E-07	9.35E-09	2.38E-07
3001	565016.1	4221909	9.47E-07	1.16E-06	6.09E-08	2.16E-06	5.02E-07	1.27E-06	6.09E-08	1.83E-06	1.24E-07	2.26E-07	1.99E-08	3.70E-07	9.62E-08	1.26E-07	9.10E-09	2.31E-07
3002	565024.2	4221906	9.33E-07	1.14E-06	6.00E-08	2.13E-06	4.95E-07	1.25E-06	6.00E-08	1.80E-06	1.23E-07	2.23E-07	1.96E-08	3.65E-07	9.48E-08	1.24E-07	8.96E-09	2.28E-07
3003	565040.4	4221898	9.05E-07	1.11E-06	5.83E-08	2.07E-06	4.80E-07	1.21E-06	5.83E-08	1.75E-06	1.19E-07	2.16E-07	1.91E-08	3.54E-07	9.20E-08	1.20E-07	8.70E-09	2.21E-07
3004	565048.5	4221895	8.91E-07	1.09E-06	5.74E-08	2.04E-06	4.73E-07	1.19E-06	5.74E-08	1.72E-06	1.17E-07	2.13E-07	1.88E-08	3.48E-07	9.06E-08	1.18E-07	8.56E-09	2.18E-07
3005	565064.7	4221887	8.64E-07	1.06E-06	5.56E-08	1.98E-06	4.58E-07	1.16E-06	5.56E-08	1.67E-06	1.13E-07	2.06E-07	1.82E-08	3.38E-07	8.78E-08	1.15E-07	8.30E-09	2.11E-07
3006	565072.8	4221884	8.51E-07	1.04E-06	5.48E-08	1.94E-06	4.51E-07	1.14E-06	5.48E-08	1.64E-06	1.12E-07	2.03E-07	1.79E-08	3.33E-07	8.65E-08	1.13E-07	8.17E-09	2.08E-07
3007	565097.2	4221873	8.12E-07	9.92E-07	5.23E-08	1.86E-06	4.31E-07	1.09E-06	5.23E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.18E-07	8.25E-08	1.08E-07	7.80E-09	1.98E-07
3008	565113.4	4221865	7.88E-07	9.62E-07	5.07E-08	1.80E-06	4.18E-07	1.05E-06	5.07E-08	1.52E-06	1.03E-07	1.88E-07	1.66E-08	3.08E-07	8.01E-08	1.05E-07	7.57E-09	1.92E-07
3009	565121.5	4221862	7.76E-07	9.48E-07	4.99E-08	1.77E-06	4.11E-07	1.04E-06	4.99E-08	1.50E-06	1.02E-07	1.85E-07	1.63E-08	3.03E-07	7.88E-08	1.03E-07	7.45E-09	1.89E-07
3010	564844	4222296	2.06E-06	2.51E-06	1.32E-07	4.70E-06	1.09E-06	2.75E-06	1.32E-07	3.98E-06	2.70E-07	4.91E-07	4.33E-08	8.04E-07	2.09E-07	2.73E-07	1.98E-08	5.02E-07
3011	564845.1	4222305	2.05E-06	2.51E-06	1.32E-07	4.69E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.32E-08	8.03E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
3012	564846.2	4222314	2.05E-06	2.5E-06	1.32E-07	4.68E-06	1.08E-06	2.74E-06	1.32E-07	3.96E-06	2.69E-07	4.88E-07	4.31E-08	8.00E-07	2.08E-07	2.72E-07	1.97E-08	4.99E-07
3013	564847.3	4222323	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.94E-06	2.67E-07	4.86E-07	4.29E-08	7.96E-07	2.07E-07	2.71E-07	1.96E-08	4.97E-07
3014	564848.4	4222332	2.02E-06	2.47E-06	1.30E-07	4.63E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.66E-07	4.83E-07	4.26E-08	7.92E-07	2.06E-07	2.69E-07	1.95E-08	4.94E-07
3015	564849.5	4222341	2.01E-06	2.46E-06	1.29E-07	4.60E-06	1.07E-06	2.69E-06	1.29E-07	3.89E-06	2.64E-07	4.80E-07	4.23E-08	7.86E-07	2.04E-07	2.67E-07	1.93E-08	4.91E-07
3016	564850.5	4222350	1.99E-06	2.44E-06	1.28E-07	4.56E-06	1.06E-06	2.67E-06	1.28E-07	3.86E-06	2.62E-07	4.76E-07	4.20E-08	7.80E-07	2.03E-07	2.65E-07	1.92E-08	4.87E-07
3017	564825.7	4222281	1.96E-06	2.4E-06	1.26E-07	4.49E-06	1.04E-06	2.63E-06	1.26E-07	3.80E-06	2.58E-07	4.68E-07	4.13E-08	7.68E-07	2.00E-07	2.61E-07	1.89E-08	4.79E-07
3018	564836.2	4222247	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.65E-07	4.82E-07	4.26E-08	7.90E-07	2.05E-07	2.69E-07	1.94E-08	4.93E-07
3019	564841.5	4222230	2.04E-06	2.49E-06	1.31E-07	4.65E-06	1.08E-06	2.73E-06	1.31E-07	3.94E-06	2.67E-07	4.86E-07	4.29E-08	7.96E-07	2.07E-07	2.70E-07	1.96E-08	4.97E-07
3020	564846.7	4222213	2.04E-06	2.49E-06	1.31E-07	4.66E-06	1.08E-06	2.73E-06	1.31E-07	3.94E-06	2.68E-07	4.86E-07	4.29E-08	7.97E-07	2.07E-07	2.71E-07	1.96E-08	4.97E-07
3021	564857.3	4222179	2.01E-06	2.45E-06	1.29E-07	4.58E-06	1.06E-06	2.68E-06	1.29E-07	3.88E-06	2.63E-07	4.78E-07	4.22E-08	7.84E-07	2.04E-07	2.66E-07	1.93E-08	4.89E-07
3022	564862.5	4222163	1.97E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.81E-06	2.59E-07	4.70E-07	4.15E-08	7.71E-07	2.00E-07	2.62E-07	1.89E-08	4.81E-07
3023	564867.8	4222146	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.58E-06	1.24E-07	3.73E-06	2.53E-07	4.60E-07	4.06E-08	7.54E-07	1.96E-07	2.56E-07	1.85E-08	4.71E-07
3024	564873.1	4222129	1.88E-06	2.29E-06	1.21E-07	4.29E-06	9.94E-07	2.51E-06	1.21E-07	3.63E-06	2.46E-07	4.47E-07	3.95E-08	7.33E-07	1.91E-07	2.49E-07	1.80E-08	4.58E-07
3025	564883.6	4222095	1.74E-06	2.13E-06	1.12E-07	3.98E-06	9.24E-07	2.33E-06	1.12E-07	3.37E-06	2.29E-07	4.16E-07	3.67E-08	6.81E-07	1.77E-07	2.31E-07	1.67E-08	4.25E-07
3026	564888.8	4222078	1.67E-06	2.04E-06	1.07E-07	3.81E-06	8.84E-07	2.23E-06	1.07E-07	3.22E-06	2.19E-07	3.98E-07	3.51E-08	6.52E-07	1.69E-07	2.22E-07	1.60E-08	4.07E-07
3027	564894.1	4222061	1.59E-06	1.94E-06	1.02E-07	3.63E-06	8.43E-07	2.13E-06	1.02E-07	3.07E-06	2.09E-07	3.79E-07	3.35E-08	6.21E-07	1.62E-07	2.11E-07	1.53E-08	3.88E-07
3028	564899.4	4222044	1.51E-06	1.84E-06	9.72E-08	3.45E-06	8.00E-07	2.02E-06	9.72E-08	2.92E-06	1.98E-07	3.60E-07	3.18E-08	5.90E-07	1.53E-07	2.01E-07	1.45E-08	3.68E-07
3029	564904.6	4222027	1.43E-06	1.75E-06	9.20E-08	3.27E-06	7.58E-07	1.91E-06	9.20E-08	2.76E-06	1.88E-07	3.41E-07	3.01E-08	5.59E-07	1.45E-07	1.90E-07	1.37E-08	3.49E-07
3030	564909.9	4222010	1.35E-06	1.65E-06	8.69E-08	3.08E-06	7.16E-07	1.81E-06	8.69E-08	2.61E-06	1.77E-07	3.22E-07	2.84E-08	5.28E-07	1.37E-07	1.79E-07	1.30E-08	3.29E-07
3031	564915.2	4221993	1.27E-06	1.55E-06	8.18E-08	2.91E-06	6.74E-07	1.70E-06	8.18E-08	2.46E-06	1.67E-07	3.03E-07	2.68E-08	4.97E-07	1.29E-07	1.69E-07	1.22E-08	3.10E-07
3032	564920.4	4221976	1.2E-06	1.46E-06	7.70E-08	2.73E-06	6.34E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.92E-07
3033	564925.7	4221959	1.12E-06	1.37E-06	7.23E-08	2.57E-06	5.96E-07	1.50E-06	7.23E-08	2.17E-06	1.48E-07	2.68E-07	2.37E-08	4.39E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
3034	564944.3	4221922	9.8E-07	1.2E-06	6.31E-08	2.24E-06	5.20E-07	1.31E-06	6.31E-08	1.89E-06	1.29E-07	2.34E-07	2.06E-08	3.83E-07	9.96E-08	1.30E-07	9.41E-09	2.39E-07
3035	564952.4	4221918	9.68E-07	1.18E-06	6.23E-08	2.21E-06	5.13E-07	1.30E-06	6.23E-08	1.87E-06	1.27E-07	2.31E-07	2.04E-08	3.79E-07	9.84E-08	1.29E-07	9.30E-09	2.36E-07
3036	564968.5	4221911	9.45E-07	1.15E-06	6.08E-08	2.16E-06	5.01E-07	1.27E-06	6.08E-08	1.83E-06	1.24E-07	2.25E-07	1.99E-08	3.69E-07	9.60E-08	1.26E-07	9.08E-09	2.31E-07
3037	564976.6	4221907	9.33E-07	1.14E-06	6.01E-08	2.13E-06	4.95E-07	1.25E-06	6.01E-08	1.80E-06	1.23E-07	2.23E-07	1.97E-08	3.65E-07	9.48E-08	1.24E-07	8.97E-09	2.28E-07
3038	564992.8	4221900	9.09E-07	1.11E-06	5.85E-08	2.08E-06	4.82E-07	1.22E-06	5.85E-08	1.76E-06	1.19E-07	2.17E-07	1.91E-08	3.55E-07	9.24E-08	1.21E-07	8.73E-09	2.22E-07
3039	565000.8	4221896	8.96E-07	1.09E-06	5.77E-08	2.05E-06	4.75E-07	1.20E-06	5.77E-08	1.73E-06	1.18E-07	2.14E-07	1.89E-08	3.50E-07	9.11E-08	1.19E-07	8.61E-09	2.19E-07
3040	565017	4221889	8.71E-07	1.06E-06	5.61E-08	1.99E-06	4.62E-07	1.17E-06	5.61E-08	1.68E-06	1.14E-07	2.08E-07	1.83E-08	3.41E-07	8.85E-08	1.16E-07	8.37E-09	2.13E-07
3041	565033.2	4221882	8.46E-07	1.03E-06	5.45E-08	1.93E-06	4.49E-07	1.13E-06	5.45E-08	1.64E-06	1.11E-07	2.02E-07	1.78E-08	3.31E-07	8.60E-08	1.12E-07	8.13E-09	2.06E-07
3042	565049.3	4221874	8.21E-07	1E-06	5.29E-08	1.88E-06	4.35E-07	1.10E-06	5.29E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.21E-07	8.34E-08	1.09E-07	7.89E-09	2.00E-07
3043	565057.4	4221871	8.09E-07	9.88E-07	5.21E-08	1.85E-06	4.29E-07	1.08E-06	5.21E-08	1.56E-06	1.06E-07	1.93E-07	1.70E-08	3.16E-07	8.22E-08	1.07E-07	7.77E-09	1.97E-07
3044	565081.6	4221860	7.74E-07	9.45E-07	4.98E-08	1.77E-06	4.10E-07	1.04E-06	4.98E-08	1.50E-06	1.02E-07	1.85E-07	1.63E-08	3.03E-07	7.86E-08	1.03E-07	7.44E-09	1.89E-07
3045	565097.8	4221852	7.51E-07	9.17E-07	4.83E-08	1.72E-06	3.98E-07	1.01E-06	4.83E-08	1.45E-06	9.86E-08	1.79E-07	1.58E-08	2.94E-07	7.63E-08	9.98E-08	7.22E-09	1.83E-07
3046	565105.9	4221849	7.4E-07	9.04E-07	4.76E-08	1.69E-06	3.92E-07	9.91E-07	4.76E-08	1.43E-06	9.72E-08	1.77E-07	1.56E-08	2.89E-07	7.52E-08	9.83E-08	7.11E-09	1.81E-07
3047	564824.2	4222299	1.94E-06	2.37E-06	1.25E-07	4.43E-06	1.03E-06	2.60E-06	1.25E-07	3.75E-06	2.55E-07	4.63E-07	4.09E-08	7.59E-07	1.97E-07	2.58E-07	1.86E-08	4.74E-07
3048	564825.2	4222307	1.94E-06	2.36E-06	1.25E-07	4.42E-06	1.03E-06	2.59E-06	1.25E-07	3.74E-06	2.54E-07	4.62E-07	4.08E-08	7.57E-07	1.97E-07	2.57E-07	1.86E-08	4.72E-07
3049	564826.3	4222316	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.58E-06	1.24E-07	3.73E-06	2.53E-07	4.60E-07	4.06E-08	7.54E-07	1.96E-07	2.56E-07	1.85E-08	4.71E-07
3050	564827.4	4222325	1.92E-06	2.34E-06	1.24E-07	4.39E-06	1.02E-06	2.57E-06	1.24E-07	3.71E-06	2.52E-07	4.58E-07	4.04E-08	7.50E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
3051	564828.5	4222334	1.91E-06	2.33E-06	1.23E-07	4.36E-06	1.01E-06	2.55E-06	1.23E-07	3.69E-06	2.51E-07	4.55E-07	4.02E-08	7.46E-07	1.94E-07	2.53E-07	1.83E-08	4.66E-07
3052	564829.6	4222343	1.89E-06	2.31E-06	1.22E-07	4.33E-06	1.00E-06	2.54E-06	1.22E-07	3.66E-06	2.49E-07	4.52E-07	3.99E-08	7.41E-07	1.93E-07	2.52E-07	1.82E-08	4.62E-07
3053	564805.8	4222284	1.86E-06	2.27E-06	1.20E-07	4.25E-06	9.85E-07	2.49E-06	1.20E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.26E-07	1.89E-07	2.47E-07	1.78E-08	4.53E-07
3054	564811.1	4222267	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.66E-06	2.48E-07	4.51E-07	3.98E-08	7.39E-07	1.92E-07	2.51E-07	1.82E-08	4.62E-07
3055	564821.6	4222233	1.93E-06	2.36E-06	1.24E-07	4.42E-06	1.02E-06	2.59E-06	1.24E-07	3.74E-06	2.54E-07	4.61E-07	4.07E-08	7.56E-07	1.96E-07	2.57E-07	1.86E-08	4.72E-07
3056	564826.8	4222216	1.94E-06	2.37E-06	1.25E-07	4.43E-06	1.03E-06	2.60E-06	1.25E-07	3.75E-06	2.55E-07	4.63E-07	4.08E-08	7.58E-07	1.97E-07	2.58E-07	1.86E-08	4.73E-07
3057	564832.1	4222199	1.93E-06	2.36E-06	1.24E-07	4.42E-06	1.03E-06	2.59E-06	1.24E-07	3.74E-06	2.54E-07	4.61E-07	4.07E-08	7.56E-07	1.97E-07	2.57E-07	1.86E-08	4.72E-07
3058	564837.3	4222182	1.92E-06	2.34E-06	1.23E-07	4.38E-06	1.02E-06	2.57E-06	1.23E-07	3.71E-06	2.52E-07	4.58E-07	4.04E-08	7.50E-07	1.95E-07	2.55E-07	1.84E-08	4.68E-07
3059	564842.5	4222165	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.66E-06	2.48E-07	4.51E-07	3.98E-08	7.40E-07	1.92E-07	2.51E-07	1.82E-08	4.62E-07
3060	564847.8	4222149	1.86E-06	2.27E-06	1.19E-07	4.24E-06	9.84E-07	2.48E-06	1.19E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.26E-07	1.89E-07	2.47E-07	1.78E-08	4.53E-07
3061	564853	4222132	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.60E-07	2.43E-06	1.17E-07	3.50E-06	2.38E-07	4.32E-07	3.81E-08	7.08E-07	1.84E-07	2.41E-07	1.74E-08	4.42E-07
3062	564863.5	4222098	1.7E-06	2.07E-06	1.09E-07	3.88E-06	9.00E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.05E-07	3.57E-08	6.63E-07	1.72E-07	2.25E-07	1.63E-08	4.14E-07
3063	564868.8	4222081	1.63E-06	1.99E-06	1.05E-07	3.73E-06	8.64E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.89E-07	3.43E-08	6.37E-07	1.66E-07	2.17E-07	1.57E-08	3.98E-07
3064	564874	4222064	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.27E-07	2.09E-06	1.00E-07	3.02E-06	2.05E-07	3.72E-07	3.28E-08	6.10E-07	1.58E-07	2.07E-07	1.50E-08	3.81E-07
3065	564879.3	4222047	1.49E-06	1.82E-06	9.57E-08	3

3078	565050.1	4221854	7.59E-07	9.27E-07	4.89E-08	1.74E-06	4.02E-07	1.02E-06	4.89E-08	1.47E-06	9.97E-08	1.81E-07	1.60E-08	2.97E-07	7.71E-08	1.01E-07	7.29E-09	1.85E-07
3079	565066.2	4221847	7.38E-07	9.01E-07	4.75E-08	1.69E-06	3.91E-07	9.88E-07	4.75E-08	1.43E-06	9.69E-08	1.76E-07	1.55E-08	2.88E-07	7.50E-08	9.80E-08	7.09E-09	1.80E-07
3080	565082.3	4221839	7.17E-07	8.76E-07	4.61E-08	1.64E-06	3.80E-07	9.60E-07	4.61E-08	1.39E-06	9.41E-08	1.71E-07	1.51E-08	2.80E-07	7.29E-08	9.52E-08	6.89E-09	1.75E-07
3081	564804.3	4222301	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.73E-07	2.46E-06	1.18E-07	3.55E-06	2.41E-07	4.38E-07	3.86E-08	7.17E-07	1.86E-07	2.44E-07	1.76E-08	4.48E-07
3082	564805.4	4222310	1.83E-06	2.23E-06	1.18E-07	4.18E-06	9.70E-07	2.45E-06	1.18E-07	3.54E-06	2.40E-07	4.36E-07	3.85E-08	7.15E-07	1.86E-07	2.43E-07	1.76E-08	4.46E-07
3083	564806.5	4222319	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
3084	564807.6	4222328	1.81E-06	2.21E-06	1.17E-07	4.14E-06	9.61E-07	2.43E-06	1.17E-07	3.50E-06	2.38E-07	4.32E-07	3.82E-08	7.08E-07	1.84E-07	2.41E-07	1.74E-08	4.42E-07
3085	564809.7	4222346	1.79E-06	2.18E-06	1.15E-07	4.09E-06	9.48E-07	2.39E-06	1.15E-07	3.46E-06	2.35E-07	4.27E-07	3.77E-08	6.99E-07	1.82E-07	2.37E-07	1.72E-08	4.36E-07
3086	564810.8	4222355	1.77E-06	2.17E-06	1.14E-07	4.05E-06	9.40E-07	2.37E-06	1.14E-07	3.43E-06	2.33E-07	4.23E-07	3.73E-08	6.93E-07	1.80E-07	2.36E-07	1.70E-08	4.33E-07
3087	564786	4222286	1.76E-06	2.15E-06	1.13E-07	4.02E-06	9.33E-07	2.36E-06	1.13E-07	3.40E-06	2.31E-07	4.20E-07	3.71E-08	6.88E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
3088	564788.7	4222277	1.78E-06	2.17E-06	1.14E-07	4.06E-06	9.42E-07	2.38E-06	1.14E-07	3.44E-06	2.33E-07	4.24E-07	3.74E-08	6.95E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
3089	564794	4222260	1.81E-06	2.21E-06	1.16E-07	4.13E-06	9.59E-07	2.42E-06	1.16E-07	3.50E-06	2.37E-07	4.31E-07	3.81E-08	7.07E-07	1.84E-07	2.40E-07	1.74E-08	4.41E-07
3090	564799.4	4222243	1.83E-06	2.24E-06	1.18E-07	4.18E-06	9.71E-07	2.45E-06	1.18E-07	3.54E-06	2.40E-07	4.37E-07	3.86E-08	7.16E-07	1.86E-07	2.43E-07	1.76E-08	4.47E-07
3091	564807.4	4222217	1.85E-06	2.26E-06	1.19E-07	4.22E-06	9.79E-07	2.47E-06	1.19E-07	3.57E-06	2.43E-07	4.41E-07	3.89E-08	7.22E-07	1.88E-07	2.45E-07	1.77E-08	4.51E-07
3092	564812.7	4222200	1.84E-06	2.25E-06	1.19E-07	4.22E-06	9.78E-07	2.47E-06	1.19E-07	3.57E-06	2.42E-07	4.40E-07	3.89E-08	7.21E-07	1.87E-07	2.45E-07	1.77E-08	4.50E-07
3093	564815.4	4222191	1.84E-06	2.25E-06	1.18E-07	4.21E-06	9.76E-07	2.46E-06	1.18E-07	3.56E-06	2.42E-07	4.39E-07	3.88E-08	7.20E-07	1.87E-07	2.44E-07	1.77E-08	4.49E-07
3094	564820.8	4222174	1.82E-06	2.23E-06	1.17E-07	4.17E-06	9.67E-07	2.44E-06	1.17E-07	3.53E-06	2.39E-07	4.35E-07	3.84E-08	7.13E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
3095	564826.1	4222157	1.8E-06	2.19E-06	1.16E-07	4.11E-06	9.53E-07	2.41E-06	1.16E-07	3.47E-06	2.36E-07	4.29E-07	3.78E-08	7.02E-07	1.83E-07	2.39E-07	1.73E-08	4.38E-07
3096	564831.4	4222140	1.76E-06	2.15E-06	1.13E-07	4.02E-06	9.33E-07	2.36E-06	1.13E-07	3.40E-06	2.31E-07	4.20E-07	3.71E-08	6.88E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
3097	564836.8	4222122	1.72E-06	2.1E-06	1.10E-07	3.92E-06	9.09E-07	2.30E-06	1.10E-07	3.32E-06	2.25E-07	4.09E-07	3.61E-08	6.71E-07	1.74E-07	2.28E-07	1.65E-08	4.19E-07
3098	564844.8	4222097	1.63E-06	2E-06	1.05E-07	3.74E-06	8.67E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.44E-08	6.39E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
3099	564863.5	4222037	1.41E-06	1.72E-06	9.05E-08	3.21E-06	7.45E-07	1.88E-06	9.05E-08	2.72E-06	1.85E-07	3.35E-07	2.96E-08	5.50E-07	1.43E-07	1.87E-07	1.35E-08	3.43E-07
3100	564868.8	4222019	1.34E-06	1.63E-06	8.60E-08	3.05E-06	7.08E-07	1.79E-06	8.60E-08	2.58E-06	1.75E-07	3.19E-07	2.81E-08	5.22E-07	1.36E-07	1.77E-07	1.28E-08	3.26E-07
3101	564871.5	4222011	1.3E-06	1.59E-06	8.37E-08	2.97E-06	6.90E-07	1.74E-06	8.37E-08	2.51E-06	1.71E-07	3.10E-07	2.74E-08	5.09E-07	1.32E-07	1.73E-07	1.25E-08	3.17E-07
3102	564876.9	4221994	1.23E-06	1.5E-06	7.92E-08	2.81E-06	6.53E-07	1.65E-06	7.92E-08	2.38E-06	1.62E-07	2.94E-07	2.59E-08	4.81E-07	1.25E-07	1.64E-07	1.18E-08	3.00E-07
3103	564882.2	4221976	1.16E-06	1.42E-06	7.48E-08	2.66E-06	6.16E-07	1.56E-06	7.48E-08	2.25E-06	1.53E-07	2.77E-07	2.45E-08	4.54E-07	1.18E-07	1.54E-07	1.12E-08	2.84E-07
3104	564884.9	4221968	1.13E-06	1.38E-06	7.27E-08	2.58E-06	5.99E-07	1.51E-06	7.27E-08	2.18E-06	1.48E-07	2.69E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
3105	564890.2	4221951	1.06E-06	1.3E-06	6.85E-08	2.43E-06	5.65E-07	1.43E-06	6.85E-08	2.06E-06	1.40E-07	2.54E-07	2.24E-08	4.16E-07	1.08E-07	1.41E-07	1.02E-08	2.60E-07
3106	564895.6	4221933	1E-06	1.23E-06	6.46E-08	2.29E-06	5.32E-07	1.34E-06	6.46E-08	1.94E-06	1.32E-07	2.39E-07	2.11E-08	3.92E-07	1.02E-07	1.33E-07	9.64E-09	2.45E-07
3107	564900.9	4221916	9.45E-07	1.15E-06	6.08E-08	2.16E-06	5.01E-07	1.26E-06	6.08E-08	1.83E-06	1.24E-07	2.25E-07	1.99E-08	3.69E-07	9.60E-08	1.25E-07	9.08E-09	2.31E-07
3108	564914.4	4221895	8.79E-07	1.07E-06	5.66E-08	2.01E-06	4.66E-07	1.18E-06	5.66E-08	1.70E-06	1.15E-07	2.10E-07	1.85E-08	3.44E-07	8.94E-08	1.17E-07	8.45E-09	2.15E-07
3109	564922.6	4221892	8.69E-07	1.06E-06	5.60E-08	1.99E-06	4.61E-07	1.16E-06	5.60E-08	1.68E-06	1.14E-07	2.07E-07	1.83E-08	3.40E-07	8.83E-08	1.15E-07	8.35E-09	2.12E-07
3110	564939	4221884	8.49E-07	1.04E-06	5.46E-08	1.94E-06	4.50E-07	1.14E-06	5.46E-08	1.64E-06	1.11E-07	2.02E-07	1.79E-08	3.32E-07	8.62E-08	1.13E-07	8.15E-09	2.07E-07
3111	564955.5	4221877	8.28E-07	1.01E-06	5.33E-08	1.89E-06	4.39E-07	1.11E-06	5.33E-08	1.60E-06	1.09E-07	1.97E-07	1.74E-08	3.24E-07	8.41E-08	1.10E-07	7.95E-09	2.02E-07
3112	564971.9	4221869	8.06E-07	9.85E-07	5.19E-08	1.84E-06	4.27E-07	1.08E-06	5.19E-08	1.56E-06	1.06E-07	1.92E-07	1.70E-08	3.15E-07	8.19E-08	1.07E-07	7.75E-09	1.97E-07
3113	564980.1	4221866	7.95E-07	9.72E-07	5.12E-08	1.82E-06	4.22E-07	1.07E-06	5.12E-08	1.54E-06	1.04E-07	1.90E-07	1.68E-08	3.11E-07	8.08E-08	1.06E-07	7.64E-09	1.94E-07
3114	564996.5	4221858	7.74E-07	9.45E-07	4.98E-08	1.77E-06	4.10E-07	1.04E-06	4.98E-08	1.50E-06	1.02E-07	1.85E-07	1.63E-08	3.02E-07	7.86E-08	1.03E-07	7.43E-09	1.89E-07
3115	565012.9	4221851	7.52E-07	9.19E-07	4.84E-08	1.72E-06	3.99E-07	1.01E-06	4.84E-08	1.45E-06	9.88E-08	1.79E-07	1.58E-08	2.94E-07	7.64E-08	9.99E-08	7.23E-09	1.84E-07
3116	565021.1	4221847	7.42E-07	9.06E-07	4.77E-08	1.70E-06	3.93E-07	9.93E-07	4.77E-08	1.43E-06	9.74E-08	1.77E-07	1.56E-08	2.90E-07	7.54E-08	9.85E-08	7.13E-09	1.81E-07
3117	565037.5	4221840	7.21E-07	8.8E-07	4.64E-08	1.65E-06	3.82E-07	9.65E-07	4.64E-08	1.39E-06	9.47E-08	1.72E-07	1.52E-08	2.82E-07	7.32E-08	9.57E-08	6.92E-09	1.76E-07
3118	565053.9	4221832	7.01E-07	8.56E-07	4.51E-08	1.60E-06	3.71E-07	9.38E-07	4.51E-08	1.35E-06	9.20E-08	1.67E-07	1.48E-08	2.74E-07	7.12E-08	9.31E-08	6.73E-09	1.71E-07
3119	565070.3	4221825	6.81E-07	8.32E-07	4.38E-08	1.56E-06	3.61E-07	9.12E-07	4.38E-08	1.32E-06	8.94E-08	1.62E-07	1.43E-08	2.66E-07	6.92E-08	9.05E-08	6.54E-09	1.66E-07
3120	565078.5	4221821	6.71E-07	8.2E-07	4.32E-08	1.53E-06	3.56E-07	8.99E-07	4.32E-08	1.30E-06	8.82E-08	1.60E-07	1.41E-08	2.63E-07	6.82E-08	8.92E-08	6.45E-09	1.64E-07
3121	564784.4	4222303	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.21E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.14E-07	3.66E-08	6.79E-07	1.77E-07	2.31E-07	1.67E-08	4.24E-07
3122	564785.5	4222312	1.73E-06	2.11E-06	1.11E-07	3.96E-06	9.18E-07	2.32E-06	1.11E-07	3.35E-06	2.27E-07	4.13E-07	3.65E-08	6.77E-07	1.76E-07	2.30E-07	1.66E-08	4.23E-07
3123	564786.6	4222321	1.72E-06	2.1E-06	1.11E-07	3.94E-06	9.14E-07	2.31E-06	1.11E-07	3.33E-06	2.26E-07	4.11E-07	3.63E-08	6.74E-07	1.75E-07	2.29E-07	1.66E-08	4.21E-07
3124	564789.9	4222348	1.69E-06	2.06E-06	1.09E-07	3.86E-06	8.96E-07	2.26E-06	1.09E-07	3.27E-06	2.22E-07	4.03E-07	3.56E-08	6.61E-07	1.72E-07	2.25E-07	1.62E-08	4.13E-07
3125	564791	4222357	1.68E-06	2.05E-06	1.08E-07	3.83E-06	8.89E-07	2.24E-06	1.08E-07	3.24E-06	2.20E-07	4.00E-07	3.53E-08	6.55E-07	1.70E-07	2.23E-07	1.61E-08	4.09E-07
3126	564766.2	4222288	1.67E-06	2.04E-06	1.07E-07	3.82E-06	8.85E-07	2.23E-06	1.07E-07	3.23E-06	2.19E-07	3.98E-07	3.52E-08	6.53E-07	1.70E-07	2.22E-07	1.60E-08	4.07E-07
3127	564771.5	4222271	1.7E-06	2.08E-06	1.10E-07	3.89E-06	9.02E-07	2.28E-06	1.10E-07	3.29E-06	2.23E-07	4.06E-07	3.58E-08	6.65E-07	1.73E-07	2.26E-07	1.64E-08	4.15E-07
3128	564776.8	4222254	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.17E-07	2.32E-06	1.11E-07	3.34E-06	2.27E-07	4.13E-07	3.64E-08	6.76E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
3129	564782.1	4222237	1.75E-06	2.14E-06	1.13E-07	4.00E-06	9.27E-07	2.34E-06	1.13E-07	3.38E-06	2.30E-07	4.17E-07	3.68E-08	6.84E-07	1.78E-07	2.32E-07	1.68E-08	4.27E-07
3130	564792.8	4222203	1.76E-06	2.15E-06	1.13E-07	4.03E-06	9.34E-07	2.36E-06	1.13E-07	3.41E-06	2.31E-07	4.20E-07	3.71E-08	6.89E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
3131	564798.1	4222185	1.75E-06	2.14E-06	1.13E-07	4.01E-06	9.30E-07	2.35E-06	1.13E-07	3.39E-06	2.30E-07	4.19E-07	3.70E-08	6.86E-07	1.78E-07	2.33E-07	1.69E-08	4.28E-07
3132	564803.4	4222168	1.74E-06	2.12E-06	1.12E-07	3.97E-06	9.22E-07	2.33E-06	1.12E-07	3.36E-06	2.28E-07	4.15E-07	3.66E-08	6.80E-07	1.77E-07	2.31E-07	1.67E-08	4.24E-07
3133	564808.7	4222151	1.71E-06	2.09E-06	1.10E-07	3.92E-06	9.08E-07	2.29E-06	1.10E-07	3.31E-06	2.25E-07	4.09E-07	3.61E-08	6.70E-07	1.74E-07	2.28E-07	1.65E-08	4.18E-07
3134	564814.1	4222134	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.90E-07	2.25E-06	1.08E-07	3.25E-06	2.21E-07	4.01E-07	3.54E-08	6.57E-07	1.71E-07	2.23E-07	1.61E-08	4.10E-07
3135	564824.7	4222100	1.59E-06	1.94E-06	1.02E-07	3.63E-06	8.42E-07	2.13E-06	1.02E-07	3.07E-06	2.09E-07	3.79E-07	3.35E-08	6.21E-07	1.61E-07	2.11E-07	1.53E-08	3.88E-07
3136	564830	4222083	1.54E-06	1.88E-06	9.88E-08	3.51E-06	8.14E-07	2.06E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
3137	564835.4	4222066	1.48E-06	1.81E-06	9.51E-08	3.38E-06	7.84E-07	1.98E-06	9.51E-08	2.86E-06	1.94E-07	3.53E-07	3.11E-08	5.78E-07	1.50E-07	1.96E-07	1.42E-08	3.61E-07
3138	564840.7	4222048	1.42E-06	1.73E-06	9.11E-08	3.24E-06	7.51E-07	1.90E-06	9.11E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.54E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
3139	564846	4222031	1.35E-06	1.65E-06	8.70E-08	3.09E-06	7.17E-07	1.81E-06	8.70E-08	2.61E-06	1.78E-07	3.23E-07	2.85E-08	5.29E-07	1.37E-07	1.80E-07	1.30E-08	3.30E-07
3140	564862	4221980	1.16E-06	1.41E-06	7.45E-08	2.65E-06	6.14E-07	1.55E-06	7.45E-08	2.24E-06	1.52E-07	2.76E-07	2.44E-08	4.53E-07	1.18E-07	1.54E-07	1.11E-08	2.83E-07
3141	564867.3	4221963	1.1E-06	1.34E-06	7.05E-08	2.50E-06	5.81E-07	1.47E-06	7.05E-08	2.12E-06	1.44E-07	2.61E-07	2.31E-08	4.28E-07	1.11E-07	1.46E-07	1.05E-08	2.67E-07
3142	564870	4221954	1.07E-06	1.3E-06	6.86E-08	2.43E-06	5.65E-07	1.43E-06	6.86E-08	2.06E-06	1.40E-07	2.54E-07	2.24E-08	4.16E-07	1.08E-07	1.41E-07	1.02E-08	2.60E-07
3143	564875.3	4221937	1.01E-06	1.23E-06	6.47E-08	2.30E-06	5.33E-07	1.35E-06	6.47E-08	1.94E-06	1.32E-07	2.40E-07	2.12E-08	3.93E-07	1.02E-07	1.34E-07	9.67E-09	2.46E-07
3144	564880.6	4221920	9.49E-07	1.16E-06	6.11E-08	2.17E-06	5.03E-07	1.27E-06	6.11E-08	1.84E-06	1.25E-07	2.27E-07	2.00E-08	3.71E-07	9.65E-08	1.26E-07	9.12E-09	2.32E-07
3145	564885.9	4221903	8.95E-07	1.09E-06	5.76E-08	2.05E-06	4.75E-07	1.20E-06	5.76E-08	1.73E-06	1.18E-07	2.14E-07	1.89E-08	3.50E-07	9.10E-08	1.19E-07	8.60E-09	2.19E-07
3146	564899.4	4221882	8.35E-07	1.02E-06	5.38E-08	1.91E-06	4.43E-07	1.12E-06	5.38E-08	1.61E-06	1.10E-07	1.99E-07	1.76E-08	3.27E-07	8.49E-08	1.11E-07	8.02E-09	2.04E-07
3147	564915.8	4221875	8.16E-07	9.97E-07	5.25E-08	1.87E-06	4.33E-07	1.09E-06	5.25E-08	1.58E-06	1.07E-07	1.95E-07	1.72E-08	3.19E-07	8.29E-08	1.08E-07	7.84E-09	1.99E-07
3148	564948.5	4221860	7.77E-07	9.49E-07	5.00E-08	1.78E-06	4.12E-07	1.04E-06	5.00E-08	1.50E-06	1.02E-07	1.85E-07	1.64E-08	3.04E-07	7.90E-08	1.03E-07	7.47E-09	1.90E-07
3149	564956.6	4221856	7.68E-07	9.38E-07	4.94E-08	1.75E-06	4.07E-07	1.03E-06	4.94E-08	1.48E-06	1.01E-07	1.83E-07	1.62E-08	3.00E-07	7.80E-08	1.02E-07	7.38E-09	1.87E-07
3150	564973	4221849	7.48E-07	9.13E-07	4.81E-08	1.71E-06	3.96E-07	1.00E-06	4.81E-08	1.45E-06	9.82E-08	1.78E-07	1.57E-08	2.92E-07	7.60E-08	9.93E-08	7.18E-09	1.82E-07
3151	564981.1	4221845	7.38E-07	9.01E-07	4.75E-08	1.69E-06	3.91E-07	9.88E-07	4.75E-08	1.43E-06	9.69E-08	1.76E-07	1.55E-08	2.88E-07	7.50E-08	9.80E-08	7.09E-09	1.80E-07
3152	564997.5	4221838	7.18E-07	8.77E-07	4.62E-08	1.64E-06	3.81E-07	9.61E-07	4.62E-08	1.39E-06	9.43E-08	1.71E-07	1.51E-08	2.81E-07	7.30E-08	9.54E-08	6.90E-09	1.75E-07
3153	565013.8	4221830	6.98E-07	8.53E-07	4.50E-08	1.60E-06	3.70E-07	9.35E-07	4.50E-08	1.35E-06	9.17E-08	1.67E-07	1.47E-08	2.73E-07	7.10E-08	9.28E-08	6.71E-09	1.70E-07
3154	565022	4221827	6.89E-07	8.41E-07	4.43E-08	1.57E-06	3.65E-07	9.22E-07	4.43E-08	1.33E-06	9.05E-08	1.64E-07	1.45E-08	2.69E-07	7.00E-08	9.15E-08	6.62E-09	1.68E-07
3155	565038.3	4221819	6.7E-07	8.18E-07	4.31E-08	1.53E-06	3.55E-07	8.97E-07	4.31E-08	1.30E-06	8.80E-08	1.60E-07	1.41E-08	2.62E-07	6.81E-08	8.90E-08	6.44E-09	1.64E-07
3156	565054.7	4221812	6.52E-07	7.96E-07	4.20E-08	1.49E-06	3.46E-07	8.73E-07	4.20E-08	1.26E-06	8.56E-08	1.56E-07	1.37E-08	2.55E-07	6.63E-08	8.66E-08	6.26E-09	1.59E-07
3157	565062.9	4221808	6.43E-07	7.86E-07	4.14E-08	1.47E-06	3.41E-07	8.61E-07	4.14E-08	1.24E-06	8.45E-08	1.53E-07	1.35E-08	2.51E-07	6.54E-08	8.54E-08	6.18E-09	1.57E-07
3158	564763.5	4222297	1.65E-06	2.02E-06	1.06E-07	3.77E-06	8.75E-07	2.21E-06	1.06E-07	3.19E-06	2.17E-07	3.94E-07	3.48E-08	6.45E-07	1.68E-07	2.19E-07	1.59E-08	4.03E-07
3159	564764.6	4222306	1.65E-06	2.01E-06	1.06E-07	3.76E-06	8.73E-07	2.20E-06	1.06E-07	3.18E-06	2.16E-07	3.93E-07	3.47E-08	6.44E-07	1.67E-07	2.19E-07	1.58E-08	4.02E-07
3160	564766.8	4222324	1.63E-06	1.99E-06	1.05E-07	3.73E-06	8.66E-07	2.19E-06	1.05E-07	3.16E-06	2.14E-07	3.90E-07	3.44E-08	6.38E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
3161	564767.9	4222333	1.62E-06	1.98E-06	1.05E-07	3.71E-06	8.61E-07	2.17E-06	1.05E-07	3.14E-06	2.13E-07	3.87E-07	3.42E-08	6.35E-07	1.65E-07	2.16E-07	1.56E-08	3.96E-07
3162	564771.1	4222359	1.59E-06	1.94E-06	1.02E-07	3.63E-06	8.42E-07	2.13E-06	1.02E-07	3.07E-06	2.08E-07	3.79E-07	3.34E-08	6.21E-07	1.61E-07	2.11E-07	1.53E-08	3.87E-07
3163	564746.3	4222291	1.59E-06	1.94E-06	1.02E-07	3.62E-06	8.41E-07	2.12E-06	1.02E-07	3.07E-06	2.08E-07	3.78E-07	3.34E-08	6.20E-07	1.61E-07	2.11E-07	1.52E-08	3.87E-07
3164	564751.6	4222274	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.58E-07	2.17E-06	1.04E-07	3.13E-06	2.12E-07	3.86E-07	3.41E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.95E-07
3165	564756.9	4222257	1.64E-06	2.01E-06	1.06E-07	3.76E-06	8.72E-07	2.20E-06	1.06E-07	3.18E-06	2.16E-07	3.92E-07	3.46E-08	6.43E-07	1.67E-07	2.19E-07	1.58E-08	4.01E-07
3166	564762.2	4222239	1.67E-06	2.03E-06	1.07E-07	3.81E-06	8.83E-07	2.23E-06	1.07E-07	3.22E-06	2.19E-07	3.97E-07	3.51E-08	6.51E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
3167	564767.5	4222222	1.68E-06	2.05E-06	1.08E-07	3.83E-06	8.89E-07	2.25E-06	1.08E-07	3.24E-06	2.20E-07	4.00E-07	3.53E-08	6.56E-07	1.70E-07	2.23E-07	1.61E-08	4.09E-07
3168	564772.8	4222205	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.91E-07	2.25E-06	1.08E-07	3.25E-06	2.21E-07	4.01E-07	3.54E-08	6.57E-07	1.71E-07	2.23E-07	1.62E-08	4.10E-07
3169	564786.1	4222163	1.66E-06	2.03E-06	1.07E-07	3.79E-06	8.79E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.49E-08	6.49E-07	1.69E-07	2.20E-07	1.59E-08	4.05E-07
3170	564791.4	4222146	1.64E-06	2E-06	1.05E-07	3.74E-06	8.67E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.44E-08	6.40E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
3171	564796.7	4222129	1.6E-06	1.96E-06	1.03E-07	3.67E-06	8.51E-07	2.15E-06	1.03E-07	3.10E-06	2.11E-07	3.83E-07	3.38E-08	6.27E-07	1.63E-07	2.13E-07	1.54E-08	3.92E-07
3172	564807.3	4222094	1.52E-06	1.86E-06	9.79E-08	3.48E-06	8.06E-07	2.04E-06	9.79E-08	2.94E-06	2.00E-07	3.63E-07	3.20E-08	5.95E-07	1.55E-07	2.02E-07	1.46E-08	3.71E-07
3173	564812.6	4222077	1.47E-06	1.8E-06	9.47E-08	3.36E-06	7.80E-07	1.97E-06	9.47E-08	2.84E-06	1.93E-07	3.51E-07	3.10E-08	5.75E-07	1.49E-07	1.95E-07	1.41E-08	3.59E-07
3174	564817.9	4222060	1.42E-06	1.73E-06	9.12E-08	3.24E-06	7.51E-07	1.90E-06	9.12E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.54E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
3175	564823.2	4222043	1.36E-06	1.66E-06	8.75E-08	3.11E-06

3188	564957.7	4221836	7.13E-07	8.71E-07	4.59E-08	1.63E-06	3.78E-07	9.55E-07	4.59E-08	1.38E-06	9.36E-08	1.70E-07	1.50E-08	2.79E-07	7.25E-08	9.47E-08	6.85E-09	1.74E-07
3189	564974	4221828	6.95E-07	8.49E-07	4.47E-08	1.59E-06	3.68E-07	9.31E-07	4.47E-08	1.34E-06	9.13E-08	1.66E-07	1.46E-08	2.72E-07	7.06E-08	9.23E-08	6.68E-09	1.70E-07
3190	564982.1	4221825	6.86E-07	8.38E-07	4.42E-08	1.57E-06	3.64E-07	9.19E-07	4.42E-08	1.33E-06	9.01E-08	1.64E-07	1.44E-08	2.68E-07	6.97E-08	9.11E-08	6.59E-09	1.67E-07
3191	564998.4	4221817	6.68E-07	8.16E-07	4.30E-08	1.53E-06	3.54E-07	8.94E-07	4.30E-08	1.29E-06	8.77E-08	1.59E-07	1.41E-08	2.61E-07	6.79E-08	8.87E-08	6.42E-09	1.63E-07
3192	565014.7	4221810	6.5E-07	7.94E-07	4.19E-08	1.49E-06	3.45E-07	8.71E-07	4.19E-08	1.26E-06	8.54E-08	1.55E-07	1.37E-08	2.54E-07	6.61E-08	8.64E-08	6.25E-09	1.59E-07
3193	565022.9	4221806	6.42E-07	7.84E-07	4.13E-08	1.47E-06	3.40E-07	8.59E-07	4.13E-08	1.24E-06	8.43E-08	1.53E-07	1.35E-08	2.51E-07	6.52E-08	8.53E-08	6.17E-09	1.57E-07
3194	565039.1	4221799	6.25E-07	7.63E-07	4.02E-08	1.43E-06	3.31E-07	8.37E-07	4.02E-08	1.21E-06	8.21E-08	1.49E-07	1.32E-08	2.44E-07	6.35E-08	8.30E-08	6.00E-09	1.53E-07
3195	565047.3	4221795	6.17E-07	7.53E-07	3.97E-08	1.41E-06	3.27E-07	8.26E-07	3.97E-08	1.19E-06	8.10E-08	1.47E-07	1.30E-08	2.41E-07	6.27E-08	8.19E-08	5.93E-09	1.51E-07
3196	564744.7	4222308	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.28E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.08E-07	1.50E-08	3.81E-07
3197	564745.8	4222317	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.25E-07	2.08E-06	1.00E-07	3.01E-06	2.04E-07	3.71E-07	3.28E-08	6.09E-07	1.58E-07	2.07E-07	1.50E-08	3.80E-07
3198	564746.9	4222326	1.55E-06	1.89E-06	9.97E-08	3.54E-06	8.21E-07	2.07E-06	9.97E-08	3.00E-06	2.03E-07	3.70E-07	3.26E-08	6.06E-07	1.57E-07	2.06E-07	1.49E-08	3.78E-07
3199	564748	4222335	1.54E-06	1.88E-06	9.92E-08	3.52E-06	8.17E-07	2.06E-06	9.92E-08	2.98E-06	2.02E-07	3.68E-07	3.24E-08	6.02E-07	1.57E-07	2.05E-07	1.48E-08	3.76E-07
3200	564749.1	4222344	1.53E-06	1.87E-06	9.85E-08	3.50E-06	8.11E-07	2.05E-06	9.85E-08	2.96E-06	2.01E-07	3.65E-07	3.22E-08	5.98E-07	1.56E-07	2.03E-07	1.47E-08	3.73E-07
3201	564750.2	4222353	1.52E-06	1.85E-06	9.77E-08	3.47E-06	8.05E-07	2.03E-06	9.77E-08	2.94E-06	1.99E-07	3.62E-07	3.20E-08	5.94E-07	1.54E-07	2.02E-07	1.46E-08	3.71E-07
3202	564737	4222259	1.57E-06	1.91E-06	1.01E-07	3.58E-06	8.30E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.74E-07	3.30E-08	6.12E-07	1.59E-07	2.08E-07	1.50E-08	3.82E-07
3203	564742.3	4222242	1.59E-06	1.94E-06	1.02E-07	3.63E-06	8.41E-07	2.12E-06	1.02E-07	3.07E-06	2.08E-07	3.79E-07	3.34E-08	6.20E-07	1.61E-07	2.11E-07	1.52E-08	3.87E-07
3204	564747.6	4222225	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.49E-07	2.14E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.37E-08	6.26E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
3205	564752.9	4222208	1.61E-06	1.96E-06	1.03E-07	3.67E-06	8.52E-07	2.15E-06	1.03E-07	3.11E-06	2.11E-07	3.84E-07	3.39E-08	6.29E-07	1.63E-07	2.14E-07	1.54E-08	3.92E-07
3206	564758.2	4222191	1.61E-06	1.96E-06	1.03E-07	3.67E-06	8.52E-07	2.15E-06	1.03E-07	3.11E-06	2.11E-07	3.84E-07	3.39E-08	6.29E-07	1.63E-07	2.14E-07	1.54E-08	3.92E-07
3207	564763.5	4222174	1.6E-06	1.95E-06	1.03E-07	3.66E-06	8.48E-07	2.14E-06	1.03E-07	3.09E-06	2.10E-07	3.82E-07	3.37E-08	6.26E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
3208	564768.7	4222157	1.59E-06	1.94E-06	1.02E-07	3.62E-06	8.40E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.78E-07	3.34E-08	6.20E-07	1.61E-07	2.11E-07	1.52E-08	3.87E-07
3209	564789.9	4222089	1.46E-06	1.78E-06	9.38E-08	3.33E-06	7.73E-07	1.95E-06	9.38E-08	2.82E-06	1.91E-07	3.48E-07	3.07E-08	5.70E-07	1.48E-07	1.94E-07	1.40E-08	3.56E-07
3210	564795.2	4222072	1.41E-06	1.72E-06	9.08E-08	3.22E-06	7.48E-07	1.89E-06	9.08E-08	2.73E-06	1.85E-07	3.37E-07	2.97E-08	5.52E-07	1.43E-07	1.87E-07	1.36E-08	3.44E-07
3211	564800.5	4222055	1.36E-06	1.66E-06	8.76E-08	3.11E-06	7.21E-07	1.82E-06	8.76E-08	2.63E-06	1.79E-07	3.25E-07	2.87E-08	5.32E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
3212	564805.8	4222038	1.31E-06	1.6E-06	8.42E-08	2.99E-06	6.93E-07	1.75E-06	8.42E-08	2.53E-06	1.72E-07	3.12E-07	2.75E-08	5.11E-07	1.33E-07	1.74E-07	1.26E-08	3.19E-07
3213	564811	4222021	1.25E-06	1.53E-06	8.06E-08	2.86E-06	6.64E-07	1.68E-06	8.06E-08	2.42E-06	1.65E-07	2.99E-07	2.64E-08	4.90E-07	1.27E-07	1.66E-07	1.20E-08	3.06E-07
3214	564816.3	4222004	1.2E-06	1.46E-06	7.70E-08	2.74E-06	6.35E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.86E-07	2.52E-08	4.68E-07	1.22E-07	1.59E-07	1.15E-08	2.92E-07
3215	564821.6	4221987	1.14E-06	1.39E-06	7.34E-08	2.61E-06	6.05E-07	1.53E-06	7.34E-08	2.21E-06	1.50E-07	2.72E-07	2.40E-08	4.46E-07	1.16E-07	1.52E-07	1.10E-08	2.79E-07
3216	564826.9	4221970	1.09E-06	1.33E-06	6.99E-08	2.48E-06	5.76E-07	1.45E-06	6.99E-08	2.10E-06	1.43E-07	2.59E-07	2.29E-08	4.25E-07	1.10E-07	1.44E-07	1.04E-08	2.65E-07
3217	564832.2	4221953	1.03E-06	1.26E-06	6.64E-08	2.36E-06	5.47E-07	1.38E-06	6.64E-08	1.99E-06	1.35E-07	2.46E-07	2.17E-08	4.03E-07	1.05E-07	1.37E-07	9.91E-09	2.52E-07
3218	564837.5	4221936	9.79E-07	1.2E-06	6.30E-08	2.24E-06	5.19E-07	1.31E-06	6.30E-08	1.89E-06	1.29E-07	2.33E-07	2.06E-08	3.83E-07	9.94E-08	1.30E-07	9.40E-09	2.39E-07
3219	564842.8	4221919	9.27E-07	1.13E-06	5.97E-08	2.12E-06	4.92E-07	1.24E-06	5.97E-08	1.79E-06	1.22E-07	2.21E-07	1.95E-08	3.63E-07	9.42E-08	1.23E-07	8.91E-09	2.26E-07
3220	564848.1	4221902	8.78E-07	1.07E-06	5.65E-08	2.01E-06	4.65E-07	1.18E-06	5.65E-08	1.70E-06	1.15E-07	2.09E-07	1.85E-08	3.43E-07	8.92E-08	1.17E-07	8.43E-09	2.14E-07
3221	564869.4	4221856	7.56E-07	9.24E-07	4.87E-08	1.73E-06	4.01E-07	1.01E-06	4.87E-08	1.46E-06	9.93E-08	1.80E-07	1.59E-08	2.96E-07	7.69E-08	1.00E-07	7.27E-09	1.85E-07
3222	564885.6	4221848	7.4E-07	9.04E-07	4.76E-08	1.69E-06	3.92E-07	9.91E-07	4.76E-08	1.43E-06	9.72E-08	1.77E-07	1.56E-08	2.89E-07	7.52E-08	9.83E-08	7.11E-09	1.81E-07
3223	564901.9	4221841	7.24E-07	8.84E-07	4.66E-08	1.65E-06	3.84E-07	9.69E-07	4.66E-08	1.40E-06	9.50E-08	1.73E-07	1.52E-08	2.83E-07	7.35E-08	9.61E-08	6.95E-09	1.77E-07
3224	564910	4221837	7.15E-07	8.73E-07	4.60E-08	1.63E-06	3.79E-07	9.57E-07	4.60E-08	1.38E-06	9.39E-08	1.71E-07	1.51E-08	2.80E-07	7.27E-08	9.50E-08	6.87E-09	1.75E-07
3225	564934.3	4221826	6.9E-07	8.42E-07	4.44E-08	1.58E-06	3.66E-07	9.23E-07	4.44E-08	1.33E-06	9.06E-08	1.65E-07	1.45E-08	2.70E-07	7.01E-08	9.16E-08	6.63E-09	1.68E-07
3226	564950.6	4221819	6.73E-07	8.21E-07	4.33E-08	1.54E-06	3.57E-07	9.01E-07	4.33E-08	1.30E-06	8.83E-08	1.60E-07	1.42E-08	2.63E-07	6.84E-08	8.94E-08	6.46E-09	1.64E-07
3227	564958.7	4221815	6.64E-07	8.11E-07	4.28E-08	1.52E-06	3.52E-07	8.89E-07	4.28E-08	1.28E-06	8.72E-08	1.58E-07	1.40E-08	2.60E-07	6.75E-08	8.82E-08	6.38E-09	1.62E-07
3228	564974.9	4221808	6.48E-07	7.91E-07	4.17E-08	1.48E-06	3.43E-07	8.67E-07	4.17E-08	1.25E-06	8.50E-08	1.54E-07	1.36E-08	2.53E-07	6.58E-08	8.60E-08	6.22E-09	1.58E-07
3229	564983	4221804	6.39E-07	7.81E-07	4.11E-08	1.46E-06	3.39E-07	8.56E-07	4.11E-08	1.24E-06	8.39E-08	1.53E-07	1.35E-08	2.50E-07	6.50E-08	8.49E-08	6.14E-09	1.56E-07
3230	564999.3	4221797	6.23E-07	7.61E-07	4.01E-08	1.42E-06	3.30E-07	8.34E-07	4.01E-08	1.20E-06	8.18E-08	1.49E-07	1.31E-08	2.44E-07	6.33E-08	8.28E-08	5.99E-09	1.52E-07
3231	565023.6	4221786	5.99E-07	7.32E-07	3.86E-08	1.37E-06	3.18E-07	8.03E-07	3.86E-08	1.16E-06	7.87E-08	1.43E-07	1.26E-08	2.34E-07	6.09E-08	7.96E-08	5.76E-09	1.46E-07
3232	565031.8	4221782	5.92E-07	7.23E-07	3.81E-08	1.35E-06	3.14E-07	7.92E-07	3.81E-08	1.14E-06	7.77E-08	1.41E-07	1.25E-08	2.31E-07	6.01E-08	7.86E-08	5.68E-09	1.44E-07
3233	564724.9	4222311	1.49E-06	1.81E-06	9.56E-08	3.40E-06	7.88E-07	1.99E-06	9.56E-08	2.87E-06	1.95E-07	3.55E-07	3.13E-08	5.81E-07	1.51E-07	1.97E-07	1.43E-08	3.63E-07
3234	564726	4222320	1.48E-06	1.81E-06	9.52E-08	3.38E-06	7.85E-07	1.98E-06	9.52E-08	2.86E-06	1.94E-07	3.53E-07	3.12E-08	5.79E-07	1.50E-07	1.97E-07	1.42E-08	3.61E-07
3235	564727.1	4222329	1.47E-06	1.8E-06	9.48E-08	3.37E-06	7.81E-07	1.97E-06	9.48E-08	2.85E-06	1.93E-07	3.51E-07	3.10E-08	5.76E-07	1.50E-07	1.96E-07	1.41E-08	3.59E-07
3236	564728.2	4222337	1.46E-06	1.79E-06	9.42E-08	3.35E-06	7.76E-07	1.96E-06	9.42E-08	2.83E-06	1.92E-07	3.49E-07	3.08E-08	5.72E-07	1.49E-07	1.94E-07	1.41E-08	3.57E-07
3237	564729.2	4222346	1.45E-06	1.78E-06	9.36E-08	3.32E-06	7.71E-07	1.95E-06	9.36E-08	2.81E-06	1.91E-07	3.47E-07	3.06E-08	5.69E-07	1.48E-07	1.93E-07	1.40E-08	3.55E-07
3238	564730.3	4222355	1.44E-06	1.76E-06	9.29E-08	3.30E-06	7.65E-07	1.93E-06	9.29E-08	2.79E-06	1.90E-07	3.44E-07	3.04E-08	5.64E-07	1.47E-07	1.92E-07	1.39E-08	3.52E-07
3239	564731.4	4222364	1.43E-06	1.75E-06	9.21E-08	3.27E-06	7.59E-07	1.92E-06	9.21E-08	2.77E-06	1.88E-07	3.41E-07	3.01E-08	5.60E-07	1.45E-07	1.90E-07	1.38E-08	3.49E-07
3240	564706.6	4222296	1.44E-06	1.75E-06	9.25E-08	3.28E-06	7.62E-07	1.92E-06	9.25E-08	2.78E-06	1.89E-07	3.43E-07	3.03E-08	5.62E-07	1.46E-07	1.91E-07	1.38E-08	3.51E-07
3241	564711.8	4222279	1.47E-06	1.79E-06	9.44E-08	3.35E-06	7.78E-07	1.96E-06	9.44E-08	2.84E-06	1.93E-07	3.50E-07	3.09E-08	5.74E-07	1.49E-07	1.95E-07	1.41E-08	3.58E-07
3242	564717.1	4222262	1.49E-06	1.82E-06	9.61E-08	3.41E-06	7.92E-07	2.00E-06	9.61E-08	2.89E-06	1.96E-07	3.56E-07	3.14E-08	5.84E-07	1.52E-07	1.98E-07	1.43E-08	3.64E-07
3243	564722.4	4222245	1.51E-06	1.85E-06	9.75E-08	3.46E-06	8.03E-07	2.03E-06	9.75E-08	2.93E-06	1.99E-07	3.61E-07	3.19E-08	5.92E-07	1.54E-07	2.01E-07	1.45E-08	3.70E-07
3244	564727.7	4222228	1.53E-06	1.87E-06	9.84E-08	3.50E-06	8.11E-07	2.05E-06	9.84E-08	2.96E-06	2.01E-07	3.65E-07	3.22E-08	5.98E-07	1.55E-07	2.03E-07	1.47E-08	3.73E-07
3245	564732.9	4222211	1.54E-06	1.88E-06	9.90E-08	3.52E-06	8.16E-07	2.06E-06	9.90E-08	2.97E-06	2.02E-07	3.67E-07	3.24E-08	6.01E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
3246	564738.2	4222194	1.54E-06	1.88E-06	9.92E-08	3.52E-06	8.17E-07	2.06E-06	9.92E-08	2.98E-06	2.02E-07	3.68E-07	3.25E-08	6.02E-07	1.57E-07	2.05E-07	1.48E-08	3.76E-07
3247	564743.5	4222177	1.54E-06	1.88E-06	9.89E-08	3.51E-06	8.15E-07	2.06E-06	9.89E-08	2.97E-06	2.02E-07	3.67E-07	3.24E-08	6.01E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
3248	564748.8	4222160	1.53E-06	1.86E-06	9.82E-08	3.49E-06	8.09E-07	2.04E-06	9.82E-08	2.95E-06	2.00E-07	3.64E-07	3.21E-08	5.96E-07	1.55E-07	2.03E-07	1.47E-08	3.72E-07
3249	564754	4222143	1.51E-06	1.84E-06	9.71E-08	3.45E-06	7.99E-07	2.02E-06	9.71E-08	2.92E-06	1.98E-07	3.60E-07	3.18E-08	5.90E-07	1.53E-07	2.00E-07	1.45E-08	3.68E-07
3250	564759.3	4222126	1.48E-06	1.81E-06	9.55E-08	3.39E-06	7.87E-07	1.99E-06	9.55E-08	2.87E-06	1.95E-07	3.54E-07	3.13E-08	5.80E-07	1.51E-07	1.97E-07	1.43E-08	3.62E-07
3251	564769.8	4222092	1.42E-06	1.73E-06	9.12E-08	3.24E-06	7.52E-07	1.90E-06	9.12E-08	2.74E-06	1.86E-07	3.38E-07	2.99E-08	5.54E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
3252	564785.7	4222041	1.28E-06	1.57E-06	8.26E-08	2.93E-06	6.81E-07	1.72E-06	8.26E-08	2.48E-06	1.69E-07	3.06E-07	2.70E-08	5.02E-07	1.30E-07	1.71E-07	1.23E-08	3.13E-07
3253	564790.9	4222024	1.23E-06	1.51E-06	7.94E-08	2.82E-06	6.54E-07	1.65E-06	7.94E-08	2.38E-06	1.62E-07	2.94E-07	2.60E-08	4.82E-07	1.25E-07	1.64E-07	1.18E-08	3.01E-07
3254	564796.2	4222007	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.27E-07	1.58E-06	7.61E-08	2.28E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.14E-08	2.88E-07
3255	564801.5	4221990	1.13E-06	1.38E-06	7.27E-08	2.58E-06	5.99E-07	1.51E-06	7.27E-08	2.18E-06	1.48E-07	2.70E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
3256	564806.7	4221973	1.08E-06	1.32E-06	6.94E-08	2.46E-06	5.72E-07	1.44E-06	6.94E-08	2.08E-06	1.42E-07	2.57E-07	2.27E-08	4.21E-07	1.10E-07	1.43E-07	1.04E-08	2.63E-07
3257	564812	4221956	1.03E-06	1.25E-06	6.61E-08	2.35E-06	5.44E-07	1.37E-06	6.61E-08	1.98E-06	1.35E-07	2.45E-07	2.16E-08	4.01E-07	1.04E-07	1.36E-07	9.86E-09	2.51E-07
3258	564817.3	4221939	9.76E-07	1.19E-06	6.28E-08	2.23E-06	5.18E-07	1.31E-06	6.28E-08	1.89E-06	1.28E-07	2.33E-07	2.06E-08	3.82E-07	9.92E-08	1.30E-07	9.38E-09	2.38E-07
3259	564822.6	4221922	9.27E-07	1.13E-06	5.97E-08	2.12E-06	4.92E-07	1.24E-06	5.97E-08	1.79E-06	1.22E-07	2.21E-07	1.95E-08	3.63E-07	9.42E-08	1.23E-07	8.91E-09	2.26E-07
3260	564827.8	4221905	8.8E-07	1.07E-06	5.66E-08	2.01E-06	4.66E-07	1.18E-06	5.66E-08	1.70E-06	1.16E-07	2.10E-07	1.85E-08	3.44E-07	8.94E-08	1.17E-07	8.45E-09	2.15E-07
3261	564833.1	4221888	8.34E-07	1.02E-06	5.37E-08	1.91E-06	4.42E-07	1.12E-06	5.37E-08	1.61E-06	1.09E-07	1.99E-07	1.76E-08	3.26E-07	8.47E-08	1.11E-07	8.01E-09	2.03E-07
3262	564838.4	4221871	7.9E-07	9.65E-07	5.09E-08	1.81E-06	4.19E-07	1.06E-06	5.09E-08	1.53E-06	1.04E-07	1.89E-07	1.66E-08	3.09E-07	8.03E-08	1.05E-07	7.59E-09	1.93E-07
3263	564843.7	4221854	7.49E-07	9.14E-07	4.82E-08	1.71E-06	3.97E-07	1.00E-06	4.82E-08	1.45E-06	9.83E-08	1.79E-07	1.58E-08	2.93E-07	7.61E-08	9.95E-08	7.19E-09	1.83E-07
3264	564902.9	4221820	6.75E-07	8.25E-07	4.35E-08	1.54E-06	3.58E-07	9.04E-07	4.35E-08	1.31E-06	8.87E-08	1.61E-07	1.42E-08	2.64E-07	6.86E-08	8.97E-08	6.49E-09	1.65E-07
3265	564911	4221817	6.68E-07	8.15E-07	4.30E-08	1.53E-06	3.54E-07	8.94E-07	4.30E-08	1.29E-06	8.77E-08	1.59E-07	1.41E-08	2.61E-07	6.78E-08	8.87E-08	6.41E-09	1.63E-07
3266	564927.2	4221809	6.52E-07	7.96E-07	4.19E-08	1.49E-06	3.46E-07	8.73E-07	4.19E-08	1.26E-06	8.56E-08	1.55E-07	1.37E-08	2.55E-07	6.62E-08	8.66E-08	6.26E-09	1.59E-07
3267	564935.3	4221806	6.44E-07	7.86E-07	4.14E-08	1.47E-06	3.41E-07	8.62E-07	4.14E-08	1.24E-06	8.46E-08	1.54E-07	1.36E-08	2.52E-07	6.54E-08	8.55E-08	6.19E-09	1.57E-07
3268	564951.5	4221798	6.28E-07	7.67E-07	4.04E-08	1.44E-06	3.33E-07	8.41E-07	4.04E-08	1.21E-06	8.25E-08	1.50E-07	1.32E-08	2.46E-07	6.38E-08	8.34E-08	6.03E-09	1.53E-07
3269	564967.7	4221791	6.13E-07	7.48E-07	3.94E-08	1.40E-06	3.25E-07	8.20E-07	3.94E-08	1.18E-06	8.04E-08	1.46E-07	1.29E-08	2.39E-07	6.23E-08	8.14E-08	5.89E-09	1.50E-07
3270	564983.9	4221784	5.97E-07	7.3E-07	3.84E-08	1.37E-06	3.17E-07	8.00E-07	3.84E-08	1.15E-06	7.84E-08	1.43E-07	1.26E-08	2.34E-07	6.07E-08	7.93E-08	5.74E-09	1.46E-07
3271	565008.2	4221773	5.75E-07	7.03E-07	3.70E-08	1.31E-06	3.05E-07	7.70E-07	3.70E-08	1.11E-06	7.56E-08	1.37E-07	1.21E-08	2.25E-07	5.85E-08	7.64E-08	5.53E-09	1.40E-07
3272	565016.3	4221769	5.68E-07	6.94E-07	3.66E-08	1.30E-06	3.01E-07	7.61E-07	3.66E-08	1.10E-06	7.46E-08	1.36E-07	1.20E-08	2.22E-07	5.77E-08	7.55E-08	5.46E-09	1.39E-07
3273	564706.1	4222322	1.41E-06	1.72E-06	9.07E-08	3.22E-06	7.47E-07	1.89E-06	9.07E-08	2.72E-06	1.85E-07	3.36E-07	2.97E-08	5.51E-07	1.43E-07	1.87E-07	1.35E-08	3.44E-07
3274	564707.2	4222331	1.4E-06	1.71E-06	9.02E-08	3.20E-06	7.43E-07	1.88E-06	9.02E-08	2.71E-06	1.84E-07	3.34E-07	2.95E-08	5.48E-07	1.42E-07	1.86E-07	1.35E-08	3.42E-07
3275	564708.3	4222340	1.39E-06	1.7E-06	8.97E-08	3.18E-06	7.39E-07	1.87E-06	8.97E-08	2.69E-06	1.83E-07	3.32E-07	2.93E-08	5.45E-07	1.42E-07	1.85E-07	1.34E-08	3.40E-07
3276	564709.4	4222349	1.38E-06	1.69E-06	8.91E-08	3.16E-06	7.34E-07	1.85E-06	8.91E-08	2.68E-06	1.82E-07	3.30E-07	2.91E-08	5.41E-07	1.41E-07	1.84E-07	1.33E-08	3.38E-07
3277	564710.5	4222358	1.37E-06	1.68E-06	8.84E-08	3.14E-06	7.28E-07	1.84E-06	8.84E-08	2.66E-06	1.80E-07	3.28E-07	2.89E-08	5.37E-07	1.40E-07	1.82E-07	1.32E-08	3.35E-07
3278	564686.8	4222298	1.37E-06	1.67E-06	8.82E-08	3.13E-06	7.27E-07	1.84E-06	8.82E-08	2.65E-06	1.80E-07	3.27E-07	2.89E-08	5.36E-07	1.39E-07	1.82E-07	1.32E-08	3.35E-07
3279	564692.1	4222281	1.4E-06	1.71E-06	9.01E-08	3.20E-06	7.42E-07	1.88E-06	9.01E-08	2.71E-06	1.84E-07	3.34E-07	2.95E-08	5.48E-07	1.42E-07	1.86E-07	1.35E-08	3.42E-07
3280	564697.5	4222263	1.43E-06	1.74E-06	9.18E-08	3.26E-06	7.56E-07	1.91E-06	9.18E-08	2.76E-06	1.87E-07	3.40E-07	3.00E-08	5.58E-07	1.45E-07	1.89E-07	1.37E-08	3.48E-07
3281	564702.8	4222246	1.45E-06	1.77E-06	9.32E-08	3.31E-06	7.67E-07	1.94E-06	9.32E-08	2.80E-06	1.90E-07	3.45E-07	3.05E-08	5.66E-07	1.47E-07	1.92E-07	1.39E-08	3.53E-07
3282	564708.2	4222229	1.46E-06	1.79E-06	9.42E-08	3.34E-06	7.76E-07	1.96E-06	9.42E-08	2.83E-06	1.92E-07	3.49E-07	3.08E-08	5.72E-07	1.49E-07	1.94E-07	1.41E-08	3.57E-07
3283	564713.5	4222212	1.47E-06	1.8E-06	9.48E-08	3.37E-06	7.81E-07	1.97E-06	9.48E-08	2.85E-06	1.94E-07	3.52E-07	3.10E-08	5.76E-07	1.50E-07	1.96E-07	1.42E-08	3.60E-07
3284	564718.9	4222195	1.48E-06	1.8E-06	9.51E-08	3.38E-06	7.83E-07	1.98E-06	9.51E-08	2.86E-06	1.94E-07	3.53E-07	3.11E-08	5.78E-07	1.50E-07	1.96E-07	1.42E-08	3.61E-07
3285	564724.2	4222177	1.48E-06	1.8E-06	9.50E-08	3

3298	564807.2	4221910	8.84E-07	1.08E-06	5.69E-08	2.02E-06	4.69E-07	1.18E-06	5.69E-08	1.71E-06	1.16E-07	2.11E-07	1.86E-08	3.46E-07	8.98E-08	1.17E-07	8.49E-09	2.16E-07
3299	564809.9	4221902	8.61E-07	1.05E-06	5.54E-08	1.97E-06	4.56E-07	1.15E-06	5.54E-08	1.66E-06	1.13E-07	2.05E-07	1.81E-08	3.37E-07	8.75E-08	1.14E-07	8.27E-09	2.10E-07
3300	564815.2	4221884	8.16E-07	9.97E-07	5.26E-08	1.87E-06	4.33E-07	1.09E-06	5.26E-08	1.58E-06	1.07E-07	1.95E-07	1.72E-08	3.19E-07	8.30E-08	1.08E-07	7.84E-09	1.99E-07
3301	564820.6	4221867	7.74E-07	9.46E-07	4.98E-08	1.77E-06	4.11E-07	1.04E-06	4.98E-08	1.50E-06	1.02E-07	1.85E-07	1.63E-08	3.03E-07	7.87E-08	1.03E-07	7.44E-09	1.89E-07
3302	564826	4221850	7.34E-07	8.97E-07	4.73E-08	1.68E-06	3.89E-07	9.83E-07	4.73E-08	1.42E-06	9.64E-08	1.75E-07	1.55E-08	2.87E-07	7.46E-08	9.75E-08	7.05E-09	1.79E-07
3303	564856	4221822	6.75E-07	8.24E-07	4.34E-08	1.54E-06	3.58E-07	9.04E-07	4.34E-08	1.30E-06	8.86E-08	1.61E-07	1.42E-08	2.64E-07	6.86E-08	8.97E-08	6.48E-09	1.65E-07
3304	564872.4	4221814	6.6E-07	8.06E-07	4.25E-08	1.51E-06	3.50E-07	8.84E-07	4.25E-08	1.28E-06	8.67E-08	1.58E-07	1.39E-08	2.58E-07	6.71E-08	8.77E-08	6.34E-09	1.61E-07
3305	564888.8	4221807	6.45E-07	7.88E-07	4.15E-08	1.48E-06	3.42E-07	8.64E-07	4.15E-08	1.25E-06	8.48E-08	1.54E-07	1.36E-08	2.52E-07	6.56E-08	8.57E-08	6.20E-09	1.58E-07
3306	564905.3	4221799	6.3E-07	7.7E-07	4.06E-08	1.44E-06	3.34E-07	8.44E-07	4.06E-08	1.22E-06	8.28E-08	1.50E-07	1.33E-08	2.46E-07	6.41E-08	8.37E-08	6.06E-09	1.54E-07
3307	564913.5	4221796	6.23E-07	7.61E-07	4.01E-08	1.42E-06	3.30E-07	8.34E-07	4.01E-08	1.20E-06	8.18E-08	1.49E-07	1.31E-08	2.44E-07	6.33E-08	8.28E-08	5.99E-09	1.52E-07
3308	564929.9	4221788	6.08E-07	7.43E-07	3.91E-08	1.39E-06	3.22E-07	8.14E-07	3.91E-08	1.18E-06	7.98E-08	1.45E-07	1.28E-08	2.38E-07	6.18E-08	8.08E-08	5.84E-09	1.48E-07
3309	564946.4	4221781	5.93E-07	7.24E-07	3.82E-08	1.36E-06	3.15E-07	7.94E-07	3.82E-08	1.15E-06	7.79E-08	1.42E-07	1.25E-08	2.32E-07	6.03E-08	7.88E-08	5.70E-09	1.45E-07
3310	564962.8	4221773	5.79E-07	7.07E-07	3.72E-08	1.32E-06	3.07E-07	7.75E-07	3.72E-08	1.12E-06	7.60E-08	1.38E-07	1.22E-08	2.26E-07	5.88E-08	7.69E-08	5.56E-09	1.41E-07
3311	564971	4221770	5.71E-07	6.98E-07	3.68E-08	1.31E-06	3.03E-07	7.65E-07	3.68E-08	1.10E-06	7.50E-08	1.36E-07	1.20E-08	2.23E-07	5.81E-08	7.59E-08	5.49E-09	1.39E-07
3312	565003.9	4221755	5.44E-07	6.64E-07	3.50E-08	1.24E-06	2.88E-07	7.28E-07	3.50E-08	1.05E-06	7.14E-08	1.30E-07	1.15E-08	2.13E-07	5.53E-08	7.22E-08	5.22E-09	1.33E-07
3313	564685.2	4222315	1.35E-06	1.65E-06	8.68E-08	3.08E-06	7.15E-07	1.81E-06	8.68E-08	2.61E-06	1.77E-07	3.22E-07	2.84E-08	5.27E-07	1.37E-07	1.79E-07	1.30E-08	3.29E-07
3314	564688.4	4222342	1.33E-06	1.62E-06	8.55E-08	3.03E-06	7.04E-07	1.78E-06	8.55E-08	2.57E-06	1.74E-07	3.17E-07	2.80E-08	5.19E-07	1.35E-07	1.76E-07	1.28E-08	3.24E-07
3315	564690.6	4222360	1.31E-06	1.6E-06	8.42E-08	2.99E-06	6.94E-07	1.75E-06	8.42E-08	2.53E-06	1.72E-07	3.12E-07	2.76E-08	5.12E-07	1.33E-07	1.74E-07	1.26E-08	3.19E-07
3316	565244.7	4222311	1.61E-05	1.97E-05	1.04E-06	3.69E-05	8.56E-06	2.16E-05	1.04E-06	3.12E-05	2.12E-06	3.85E-06	3.40E-07	6.31E-06	1.64E-06	2.15E-06	1.55E-07	3.94E-06
3317	565245.8	4222321	1.61E-05	1.96E-05	1.03E-06	3.67E-05	8.51E-06	2.15E-05	1.03E-06	3.10E-05	2.11E-06	3.83E-06	3.38E-07	6.28E-06	1.63E-06	2.13E-06	1.54E-07	3.92E-06
3318	565247	4222330	1.58E-05	1.93E-05	1.02E-06	3.61E-05	8.37E-06	2.11E-05	1.02E-06	3.05E-05	2.07E-06	3.77E-06	3.32E-07	6.17E-06	1.60E-06	2.10E-06	1.52E-07	3.85E-06
3319	565248.2	4222339	1.54E-05	1.87E-05	9.88E-07	3.51E-05	8.14E-06	2.06E-05	9.88E-07	2.97E-05	2.02E-06	3.66E-06	3.23E-07	6.00E-06	1.56E-06	2.04E-06	1.47E-07	3.75E-06
3320	565249.3	4222348	1.48E-05	1.8E-05	9.51E-07	3.38E-05	7.83E-06	1.98E-05	9.51E-07	2.86E-05	1.94E-06	3.52E-06	3.11E-07	5.78E-06	1.50E-06	1.96E-06	1.42E-07	3.61E-06
3321	565250.5	4222358	1.41E-05	1.72E-05	9.07E-07	3.22E-05	7.47E-06	1.89E-05	9.07E-07	2.72E-05	1.85E-06	3.36E-06	2.97E-07	5.51E-06	1.43E-06	1.87E-06	1.35E-07	3.44E-06
3322	565251.7	4222367	1.34E-05	1.63E-05	8.59E-07	3.05E-05	7.08E-06	1.79E-05	8.59E-07	2.58E-05	1.75E-06	3.19E-06	2.81E-07	5.22E-06	1.36E-06	1.77E-06	1.28E-07	3.26E-06
3323	565255.2	4222394	1.13E-05	1.38E-05	7.27E-07	2.58E-05	5.99E-06	1.51E-05	7.27E-07	2.18E-05	1.48E-06	2.69E-06	2.38E-07	4.41E-06	1.15E-06	1.50E-06	1.08E-07	2.76E-06
3324	565234.9	4222313	1.45E-05	1.77E-05	9.31E-07	3.31E-05	7.67E-06	1.94E-05	9.31E-07	2.80E-05	1.90E-06	3.45E-06	3.05E-07	5.65E-06	1.47E-06	1.92E-06	1.39E-07	3.53E-06
3325	565236.1	4222322	1.44E-05	1.76E-05	9.25E-07	3.29E-05	7.62E-06	1.92E-05	9.25E-07	2.78E-05	1.89E-06	3.43E-06	3.03E-07	5.62E-06	1.46E-06	1.91E-06	1.38E-07	3.51E-06
3326	565237.2	4222331	1.41E-05	1.73E-05	9.11E-07	3.23E-05	7.50E-06	1.89E-05	9.11E-07	2.74E-05	1.86E-06	3.38E-06	2.98E-07	5.53E-06	1.44E-06	1.88E-06	1.36E-07	3.45E-06
3327	565238.4	4222340	1.38E-05	1.68E-05	8.87E-07	3.15E-05	7.31E-06	1.85E-05	8.87E-07	2.67E-05	1.81E-06	3.29E-06	2.90E-07	5.39E-06	1.40E-06	1.83E-06	1.32E-07	3.37E-06
3328	565239.6	4222350	1.33E-05	1.63E-05	8.57E-07	3.04E-05	7.06E-06	1.78E-05	8.57E-07	2.58E-05	1.75E-06	3.18E-06	2.81E-07	5.21E-06	1.35E-06	1.77E-06	1.28E-07	3.25E-06
3329	565240.7	4222359	1.28E-05	1.56E-05	8.22E-07	2.92E-05	6.77E-06	1.71E-05	8.22E-07	2.47E-05	1.68E-06	3.05E-06	2.69E-07	4.99E-06	1.30E-06	1.70E-06	1.23E-07	3.12E-06
3330	565241.9	4222368	1.22E-05	1.49E-05	7.84E-07	2.78E-05	6.46E-06	1.63E-05	7.84E-07	2.35E-05	1.60E-06	2.91E-06	2.56E-07	4.76E-06	1.24E-06	1.62E-06	1.17E-07	2.97E-06
3331	565245.4	4222396	1.04E-05	1.28E-05	6.72E-07	2.39E-05	5.54E-06	1.40E-05	6.72E-07	2.02E-05	1.37E-06	2.49E-06	2.20E-07	4.08E-06	1.06E-06	1.39E-06	1.00E-07	2.55E-06
3332	565225.1	4222314	1.31E-05	1.6E-05	8.41E-07	2.99E-05	6.93E-06	1.75E-05	8.41E-07	2.53E-05	1.72E-06	3.12E-06	2.75E-07	5.11E-06	1.33E-06	1.74E-06	1.26E-07	3.19E-06
3333	565226.3	4222323	1.3E-05	1.59E-05	8.36E-07	2.97E-05	6.89E-06	1.74E-05	8.36E-07	2.51E-05	1.71E-06	3.10E-06	2.74E-07	5.08E-06	1.32E-06	1.73E-06	1.25E-07	3.17E-06
3334	565227.5	4222332	1.28E-05	1.56E-05	8.24E-07	2.93E-05	6.78E-06	1.71E-05	8.24E-07	2.47E-05	1.68E-06	3.05E-06	2.70E-07	5.00E-06	1.30E-06	1.70E-06	1.23E-07	3.12E-06
3335	565228.6	4222342	1.25E-05	1.53E-05	8.04E-07	2.86E-05	6.63E-06	1.67E-05	8.04E-07	2.42E-05	1.64E-06	2.98E-06	2.63E-07	4.89E-06	1.27E-06	1.66E-06	1.20E-07	3.05E-06
3336	565229.8	4222351	1.21E-05	1.48E-05	7.80E-07	2.77E-05	6.42E-06	1.62E-05	7.80E-07	2.34E-05	1.59E-06	2.89E-06	2.55E-07	4.74E-06	1.23E-06	1.61E-06	1.16E-07	2.96E-06
3337	565231	4222360	1.17E-05	1.42E-05	7.51E-07	2.67E-05	6.18E-06	1.56E-05	7.51E-07	2.25E-05	1.53E-06	2.78E-06	2.46E-07	4.56E-06	1.19E-06	1.55E-06	1.12E-07	2.85E-06
3338	565232.1	4222369	1.12E-05	1.36E-05	7.19E-07	2.55E-05	5.92E-06	1.50E-05	7.19E-07	2.16E-05	1.47E-06	2.67E-06	2.35E-07	4.37E-06	1.14E-06	1.48E-06	1.07E-07	2.73E-06
3339	565235.7	4222397	9.7E-06	1.18E-05	6.24E-07	2.22E-05	5.14E-06	1.30E-05	6.24E-07	1.87E-05	1.27E-06	2.31E-06	2.04E-07	3.79E-06	9.85E-07	1.29E-06	9.32E-08	2.37E-06
3340	565215.4	4222315	1.19E-05	1.45E-05	7.66E-07	2.72E-05	6.31E-06	1.59E-05	7.66E-07	2.30E-05	1.56E-06	2.84E-06	2.51E-07	4.65E-06	1.21E-06	1.58E-06	1.14E-07	2.90E-06
3341	565216.5	4222324	1.18E-05	1.44E-05	7.61E-07	2.70E-05	6.27E-06	1.58E-05	7.61E-07	2.29E-05	1.55E-06	2.82E-06	2.49E-07	4.63E-06	1.20E-06	1.57E-06	1.14E-07	2.89E-06
3342	565217.7	4222334	1.17E-05	1.42E-05	7.51E-07	2.67E-05	6.18E-06	1.56E-05	7.51E-07	2.26E-05	1.53E-06	2.78E-06	2.46E-07	4.56E-06	1.19E-06	1.55E-06	1.12E-07	2.85E-06
3343	565218.9	4222343	1.14E-05	1.39E-05	7.35E-07	2.61E-05	6.05E-06	1.53E-05	7.35E-07	2.21E-05	1.50E-06	2.72E-06	2.40E-07	4.46E-06	1.16E-06	1.52E-06	1.10E-07	2.79E-06
3344	565220	4222352	1.11E-05	1.35E-05	7.14E-07	2.53E-05	5.88E-06	1.48E-05	7.14E-07	2.14E-05	1.46E-06	2.65E-06	2.34E-07	4.34E-06	1.13E-06	1.47E-06	1.07E-07	2.71E-06
3345	565221.2	4222361	1.07E-05	1.31E-05	6.90E-07	2.45E-05	5.68E-06	1.43E-05	6.90E-07	2.07E-05	1.41E-06	2.56E-06	2.26E-07	4.19E-06	1.09E-06	1.42E-06	1.03E-07	2.62E-06
3346	565225.9	4222398	9.02E-06	1.1E-05	5.81E-07	2.06E-05	4.78E-06	1.21E-05	5.81E-07	1.74E-05	1.18E-06	2.15E-06	1.90E-07	3.53E-06	9.17E-07	1.20E-06	8.67E-08	2.20E-06
3347	565204.4	4222307	1.09E-05	1.33E-05	7.00E-07	2.49E-05	5.77E-06	1.46E-05	7.00E-07	2.10E-05	1.43E-06	2.60E-06	2.29E-07	4.26E-06	1.11E-06	1.45E-06	1.05E-07	2.66E-06
3348	565205.6	4222316	1.09E-05	1.33E-05	7.02E-07	2.49E-05	5.78E-06	1.46E-05	7.02E-07	2.11E-05	1.43E-06	2.60E-06	2.30E-07	4.26E-06	1.11E-06	1.45E-06	1.05E-07	2.66E-06
3349	565206.8	4222326	1.08E-05	1.32E-05	6.98E-07	2.48E-05	5.75E-06	1.45E-05	6.98E-07	2.10E-05	1.42E-06	2.59E-06	2.28E-07	4.24E-06	1.10E-06	1.44E-06	1.04E-07	2.65E-06
3350	565207.9	4222335	1.07E-05	1.31E-05	6.89E-07	2.45E-05	5.67E-06	1.43E-05	6.89E-07	2.07E-05	1.40E-06	2.55E-06	2.25E-07	4.18E-06	1.09E-06	1.42E-06	1.03E-07	2.61E-06
3351	565209.1	4222344	1.05E-05	1.28E-05	6.75E-07	2.40E-05	5.56E-06	1.40E-05	6.75E-07	2.03E-05	1.38E-06	2.50E-06	2.21E-07	4.10E-06	1.07E-06	1.39E-06	1.01E-07	2.56E-06
3352	565210.3	4222353	1.02E-05	1.25E-05	6.57E-07	2.33E-05	5.41E-06	1.37E-05	6.57E-07	1.97E-05	1.34E-06	2.44E-06	2.15E-07	3.99E-06	1.04E-06	1.36E-06	9.81E-08	2.49E-06
3353	565211.5	4222363	9.89E-06	1.21E-05	6.37E-07	2.26E-05	5.24E-06	1.32E-05	6.37E-07	1.91E-05	1.30E-06	2.36E-06	2.08E-07	3.87E-06	1.01E-06	1.31E-06	9.50E-08	2.41E-06
3354	565216.1	4222399	8.41E-06	1.03E-05	5.41E-07	1.92E-05	4.46E-06	1.13E-05	5.41E-07	1.63E-05	1.10E-06	2.01E-06	1.77E-07	3.29E-06	8.55E-07	1.12E-06	8.08E-08	2.05E-06
3355	565195.8	4222318	1E-05	1.23E-05	6.47E-07	2.30E-05	5.33E-06	1.35E-05	6.47E-07	1.94E-05	1.32E-06	2.40E-06	2.12E-07	3.93E-06	1.02E-06	1.33E-06	9.65E-08	2.45E-06
3356	565197	4222327	9.99E-06	1.22E-05	6.43E-07	2.28E-05	5.30E-06	1.34E-05	6.43E-07	1.93E-05	1.31E-06	2.38E-06	2.10E-07	3.91E-06	1.02E-06	1.33E-06	9.60E-08	2.44E-06
3357	565198.2	4222336	9.86E-06	1.2E-05	6.35E-07	2.25E-05	5.23E-06	1.32E-05	6.35E-07	1.91E-05	1.30E-06	2.35E-06	2.08E-07	3.86E-06	1.00E-06	1.31E-06	9.48E-08	2.41E-06
3358	565199.4	4222345	9.68E-06	1.18E-05	6.23E-07	2.21E-05	5.13E-06	1.30E-05	6.23E-07	1.87E-05	1.27E-06	2.31E-06	2.04E-07	3.78E-06	9.84E-07	1.29E-06	9.30E-08	2.36E-06
3359	565200.5	4222355	9.44E-06	1.15E-05	6.08E-07	2.16E-05	5.01E-06	1.26E-05	6.08E-07	1.83E-05	1.24E-06	2.25E-06	1.99E-07	3.69E-06	9.60E-07	1.25E-06	9.07E-08	2.30E-06
3360	565201.7	4222364	9.17E-06	1.12E-05	5.90E-07	2.10E-05	4.86E-06	1.23E-05	5.90E-07	1.77E-05	1.20E-06	2.19E-06	1.93E-07	3.58E-06	9.32E-07	1.22E-06	8.81E-08	2.24E-06
3361	565206.4	4222401	7.86E-06	9.6E-06	5.06E-07	1.80E-05	4.17E-06	1.05E-05	5.06E-07	1.52E-05	1.03E-06	1.88E-06	1.66E-07	3.07E-06	7.99E-07	1.04E-06	7.55E-08	1.92E-06
3362	565186.1	4222319	9.3E-06	1.14E-05	5.99E-07	2.13E-05	4.93E-06	1.25E-05	5.99E-07	1.80E-05	1.22E-06	2.22E-06	1.96E-07	3.64E-06	9.45E-07	1.24E-06	8.94E-08	2.27E-06
3363	565187.3	4222328	9.25E-06	1.13E-05	5.95E-07	2.11E-05	4.90E-06	1.24E-05	5.95E-07	1.79E-05	1.21E-06	2.21E-06	1.95E-07	3.61E-06	9.40E-07	1.23E-06	8.88E-08	2.26E-06
3364	565188.4	4222337	9.13E-06	1.12E-05	5.88E-07	2.09E-05	4.84E-06	1.22E-05	5.88E-07	1.77E-05	1.20E-06	2.18E-06	1.92E-07	3.57E-06	9.28E-07	1.21E-06	8.78E-08	2.23E-06
3365	565189.6	4222347	8.97E-06	1.1E-05	5.78E-07	2.05E-05	4.76E-06	1.20E-05	5.78E-07	1.73E-05	1.18E-06	2.14E-06	1.89E-07	3.51E-06	9.12E-07	1.19E-06	8.62E-08	2.19E-06
3366	565190.8	4222356	8.77E-06	1.07E-05	5.64E-07	2.00E-05	4.65E-06	1.17E-05	5.64E-07	1.70E-05	1.15E-06	2.09E-06	1.85E-07	3.43E-06	8.91E-07	1.16E-06	8.42E-08	2.14E-06
3367	565191.9	4222365	8.53E-06	1.04E-05	5.49E-07	1.95E-05	4.52E-06	1.14E-05	5.49E-07	1.65E-05	1.12E-06	2.03E-06	1.80E-07	3.33E-06	8.67E-07	1.13E-06	8.19E-08	2.08E-06
3368	565196.6	4222402	7.37E-06	9E-06	4.74E-07	1.68E-05	3.91E-06	9.86E-06	4.74E-07	1.42E-05	9.67E-07	1.76E-06	1.55E-07	2.88E-06	7.49E-07	9.78E-07	7.08E-08	1.80E-06
3369	565176.3	4222320	8.64E-06	1.06E-05	5.56E-07	1.98E-05	4.58E-06	1.16E-05	5.56E-07	1.67E-05	1.14E-06	2.06E-06	1.82E-07	3.38E-06	8.78E-07	1.15E-06	8.31E-08	2.11E-06
3370	565177.5	4222329	8.59E-06	1.05E-05	5.53E-07	1.96E-05	4.56E-06	1.15E-05	5.53E-07	1.66E-05	1.13E-06	2.05E-06	1.81E-07	3.36E-06	8.73E-07	1.14E-06	8.26E-08	2.10E-06
3371	565178.7	4222339	8.49E-06	1.04E-05	5.47E-07	1.94E-05	4.50E-06	1.14E-05	5.47E-07	1.64E-05	1.12E-06	2.03E-06	1.79E-07	3.32E-06	8.63E-07	1.13E-06	8.16E-08	2.07E-06
3372	565179.8	4222348	8.35E-06	1.02E-05	5.37E-07	1.91E-05	4.43E-06	1.12E-05	5.37E-07	1.61E-05	1.10E-06	1.99E-06	1.76E-07	3.26E-06	8.49E-07	1.11E-06	8.02E-08	2.04E-06
3373	565181	4222357	8.17E-06	9.98E-06	5.26E-07	1.87E-05	4.33E-06	1.09E-05	5.26E-07	1.58E-05	1.07E-06	1.95E-06	1.72E-07	3.19E-06	8.30E-07	1.09E-06	7.85E-08	1.99E-06
3374	565182.2	4222366	7.96E-06	9.72E-06	5.12E-07	1.82E-05	4.22E-06	1.07E-05	5.12E-07	1.54E-05	1.05E-06	1.90E-06	1.68E-07	3.11E-06	8.09E-07	1.06E-06	7.65E-08	1.94E-06
3375	565186.8	4222403	6.91E-06	8.44E-06	4.45E-07	1.58E-05	3.67E-06	9.26E-06	4.45E-07	1.34E-05	9.08E-07	1.65E-06	1.46E-07	2.70E-06	7.03E-07	9.18E-07	6.64E-08	1.69E-06
3376	565177.1	4222404	6.5E-06	7.94E-06	4.19E-07	1.49E-05	3.45E-06	8.71E-06	4.19E-07	1.26E-05	8.54E-07	1.55E-06	1.37E-07	2.54E-06	6.61E-07	8.64E-07	6.25E-08	1.59E-06
3377	565156.8	4222323	7.54E-06	9.21E-06	4.86E-07	1.72E-05	4.00E-06	1.01E-05	4.86E-07	1.46E-05	9.91E-07	1.80E-06	1.59E-07	2.95E-06	7.67E-07	1.00E-06	7.25E-08	1.84E-06
3378	565158	4222332	7.5E-06	9.16E-06	4.82E-07	1.71E-05	3.97E-06	1.00E-05	4.82E-07	1.45E-05	9.84E-07	1.79E-06	1.58E-07	2.93E-06	7.62E-07	9.96E-07	7.20E-08	1.83E-06
3379	565167.3	4222406	6.13E-06	7.49E-06	3.94E-07	1.40E-05	3.25E-06	8.21E-06	3.94E-07	1.18E-05	8.05E-07	1.46E-06	1.29E-07	2.40E-06	6.23E-07	8.14E-07	5.89E-08	1.50E-06
3380	565147	4222324	7.08E-06	8.64E-06	4.56E-07	1.62E-05	3.75E-06	9.48E-06	4.56E-07	1.37E-05	9.29E-07	1.69E-06	1.49E-07	2.77E-06	7.19E-07	9.40E-07	6.80E-08	1.73E-06
3381	565148.2	4222333	7.03E-06	8.59E-06	4.53E-07	1.61E-05	3.73E-06	9.42E-06	4.53E-07	1.36E-05	9.24E-07	1.68E-06	1.48E-07	2.75E-06	7.15E-07	9.34E-07	6.76E-08	1.72E-06
3382	565149.4	4222342	6.96E-06	8.5E-06	4.48E-07	1.59E-05	3.69E-06	9.31E-06	4.48E-07	1.34E-05	9.14E-07	1.66E-06	1.46E-07	2.72E-06	7.07E-07	9.24E-07	6.68E-08	1.70E-06
3383	565150.6	4222352	6.85E-06	8.37E-06	4.41E-07	1.57E-05	3.63E-06	9.17E-06	4.41E-07	1.32E-05	9.00E-07	1.63E-06	1.44E-07	2.68E-06	6.96E-07	9.10E-07	6.58E-08	1.67E-06
3384	565151.7	4222361	6.72E-06	8.21E-06	4.33E-07	1.54E-05	3.56E-06	9.00E-06	4.33E-07	1.30E-05	8.83E-07	1.60E-06	1.42E-07	2.63E-06	6.83E-07	8.93E-07	6.46E-08	1.64E-06
3385	565152.9	4222370	6.57E-06	8.02E-06	4.23E-07	1.50E-05	3.48E-06	8.79E-06	4.23E-07	1.27E-05	8.62E-07	1.57E-06	1.38E-07	2.57E-06	6.67E-07	8.72E-07	6.31E-08	1.60E-06
3386	565157.6	4222407	5.79E-06	7.07E-06	3.72E-07	1.32E-05	3.07E-06	7.75E-06	3.72E-07	1.12E-05	7.60E-07	1.38E-06	1.22E-07	2.26E-06	5.88E-07	7.69E-07	5.56E-08	1.41E-06
3387	565137.3	4222325	6.66E-06	8.13E-06	4.28E-07	1.52E-05	3.53E-06	8.91E-06	4.28E-07	1.29E-05	8.74E-07	1.59E-06	1.40E-07	2.60E-06	6.77E-07	8.84E-07	6.40E-08	1.62E-06
3388	565138.5	4222334	6.61E-06	8.08E-06	4.26E-07	1.51E-05	3.51E-06	8.86E-06	4.26E-07	1.28E-05	8.69E-07	1.58E-06	1.39E-07	2.59E-06	6.72E-07	8.79E-07	6.35E-08	1.61E-06
3389	565139.6	4222344	6.54E-06	7.99E-06	4.21E-07	1.50E-05	3.47E-06	8.76E-06	4.21E-07	1.26E-05	8.59E-07	1.56E-06	1.38E-07	2.56E-06	6.65E-07	8.69E-07	6.29E-08	1.60E-06
3390	565140.8	4222353	6.45E-06	7.87E-06	4.15E-07	1.47E-05	3.42E-06	8.63E-06	4.15E-07	1.25E-05	8.47E-07	1.54E-06	1.36E-07	2.52E-06	6.55E-07	8.56E-07	6.19E-08	1.57E-06
3391	565142	4222362	6.33E-06	7.73E-06	4.07E-07	1.45E-05	3.35E-06	8.47E-06	4.07E-07	1.22E-05	8.31E-07	1.51E-06	1.33E-07	2.47E-06	6.43E-07	8.40E-07	6.08E-08	1.54E-06
3392	565143.1	4222371	6.19E-06	7.56E-06	3.98E-07	1.41E-05	3.28E-06	8.28E-06	3.98E-07	1.20E-05	8.12E-07	1.48E-06	1.30E-07	2.42E-06	6.29E-07	8.22E-07	5.94E-08	1.51E-06
3393	565146.6	4222399	5.67E-06	6.92E-06	3.65E-07	1.30E-05	3.01E-06	7.59E-06	3.65E-07	1.10E-05	7.44E-07	1.35E-06	1.19E-07	2.22E-06	5.76E-07	7.53E-07	5.45E-08	1.38E-06
3394	565147.8	4222408	5.47E-06	6.68E-06	3.52E-07	1.25E-05	2.90E-06	7.33E-06	3.52E-07	1.06E-05	7.19E-07	1.31E-06	1.15E-07	2.14E-06	5.56E-07	7.27E-07	5.26E-08	1.34E-06
3395	565127.5	4222326	6.28E-06	7.67E-06	4.04E-07	1.43E-05

3408	565123.6	4222374	5.52E-06	6.74E-06	3.55E-07	1.26E-05	2.93E-06	7.39E-06	3.55E-07	1.07E-05	7.25E-07	1.32E-06	1.16E-07	2.16E-06	5.61E-07	7.34E-07	5.31E-08	1.35E-06
3409	565127.1	4222401	5.08E-06	6.21E-06	3.27E-07	1.16E-05	2.70E-06	6.81E-06	3.27E-07	9.83E-06	6.68E-07	1.21E-06	1.07E-07	1.99E-06	5.17E-07	6.75E-07	4.88E-08	1.24E-06
3410	565128.3	4222411	4.92E-06	6E-06	3.16E-07	1.12E-05	2.61E-06	6.58E-06	3.16E-07	9.51E-06	6.46E-07	1.17E-06	1.04E-07	1.92E-06	5.00E-07	6.53E-07	4.72E-08	1.20E-06
3411	565108	4222329	5.61E-06	6.85E-06	3.61E-07	1.28E-05	2.98E-06	7.51E-06	3.61E-07	1.09E-05	7.37E-07	1.34E-06	1.18E-07	2.19E-06	5.70E-07	7.46E-07	5.39E-08	1.37E-06
3412	565109.2	4222338	5.57E-06	6.81E-06	3.59E-07	1.27E-05	2.95E-06	7.46E-06	3.59E-07	1.08E-05	7.32E-07	1.33E-06	1.17E-07	2.18E-06	5.66E-07	7.40E-07	5.35E-08	1.36E-06
3413	565110.3	4222347	5.51E-06	6.73E-06	3.55E-07	1.26E-05	2.92E-06	7.38E-06	3.55E-07	1.07E-05	7.24E-07	1.32E-06	1.16E-07	2.16E-06	5.60E-07	7.32E-07	5.30E-08	1.35E-06
3414	565111.5	4222356	5.43E-06	6.64E-06	3.50E-07	1.24E-05	2.88E-06	7.28E-06	3.50E-07	1.05E-05	7.14E-07	1.30E-06	1.14E-07	2.12E-06	5.52E-07	7.22E-07	5.22E-08	1.33E-06
3415	565112.7	4222366	5.34E-06	6.52E-06	3.44E-07	1.22E-05	2.83E-06	7.15E-06	3.44E-07	1.03E-05	7.01E-07	1.27E-06	1.12E-07	2.09E-06	5.43E-07	7.09E-07	5.13E-08	1.30E-06
3416	565113.8	4222375	5.23E-06	6.39E-06	3.37E-07	1.20E-05	2.77E-06	7.00E-06	3.37E-07	1.01E-05	6.87E-07	1.25E-06	1.10E-07	2.05E-06	5.32E-07	6.95E-07	5.03E-08	1.28E-06
3417	565098.2	4222330	5.32E-06	6.5E-06	3.43E-07	1.22E-05	2.82E-06	7.12E-06	3.43E-07	1.03E-05	6.99E-07	1.27E-06	1.12E-07	2.08E-06	5.41E-07	7.07E-07	5.11E-08	1.30E-06
3418	565099.4	4222339	5.28E-06	6.45E-06	3.40E-07	1.21E-05	2.80E-06	7.07E-06	3.40E-07	1.02E-05	6.94E-07	1.26E-06	1.11E-07	2.07E-06	5.37E-07	7.02E-07	5.08E-08	1.29E-06
3419	565100.6	4222348	5.22E-06	6.38E-06	3.36E-07	1.19E-05	2.77E-06	7.00E-06	3.36E-07	1.01E-05	6.86E-07	1.25E-06	1.10E-07	2.04E-06	5.31E-07	6.94E-07	5.02E-08	1.28E-06
3420	565101.7	4222358	5.15E-06	6.29E-06	3.32E-07	1.18E-05	2.73E-06	6.90E-06	3.32E-07	9.96E-06	6.77E-07	1.23E-06	1.09E-07	2.01E-06	5.24E-07	6.84E-07	4.95E-08	1.26E-06
3421	565102.9	4222367	5.06E-06	6.19E-06	3.26E-07	1.16E-05	2.69E-06	6.78E-06	3.26E-07	9.79E-06	6.65E-07	1.21E-06	1.07E-07	1.98E-06	5.15E-07	6.73E-07	4.87E-08	1.24E-06
3422	565104.1	4222376	4.96E-06	6.06E-06	3.19E-07	1.13E-05	2.63E-06	6.64E-06	3.19E-07	9.60E-06	6.52E-07	1.18E-06	1.05E-07	1.94E-06	5.04E-07	6.59E-07	4.77E-08	1.21E-06
3423	565088.5	4222331	5.05E-06	6.17E-06	3.25E-07	1.16E-05	2.68E-06	6.77E-06	3.25E-07	9.77E-06	6.64E-07	1.21E-06	1.06E-07	1.98E-06	5.14E-07	6.71E-07	4.86E-08	1.23E-06
3424	565089.6	4222340	5.01E-06	6.12E-06	3.23E-07	1.15E-05	2.66E-06	6.71E-06	3.23E-07	9.70E-06	6.59E-07	1.20E-06	1.06E-07	1.96E-06	5.10E-07	6.66E-07	4.82E-08	1.22E-06
3425	565090.8	4222350	4.96E-06	6.06E-06	3.19E-07	1.13E-05	2.63E-06	6.64E-06	3.19E-07	9.59E-06	6.51E-07	1.18E-06	1.04E-07	1.94E-06	5.04E-07	6.59E-07	4.76E-08	1.21E-06
3426	565092	4222359	4.89E-06	5.97E-06	3.15E-07	1.12E-05	2.59E-06	6.55E-06	3.15E-07	9.45E-06	6.42E-07	1.17E-06	1.03E-07	1.91E-06	4.97E-07	6.49E-07	4.70E-08	1.19E-06
3427	565093.2	4222368	4.81E-06	5.87E-06	3.09E-07	1.10E-05	2.55E-06	6.43E-06	3.09E-07	9.29E-06	6.31E-07	1.15E-06	1.01E-07	1.88E-06	4.88E-07	6.38E-07	4.62E-08	1.17E-06
3428	565094.3	4222377	4.71E-06	5.75E-06	3.03E-07	1.08E-05	2.50E-06	6.31E-06	3.03E-07	9.11E-06	6.19E-07	1.12E-06	9.92E-08	1.84E-06	4.79E-07	6.26E-07	4.53E-08	1.15E-06
3429	565097.8	4222405	4.36E-06	5.33E-06	2.81E-07	9.98E-06	2.31E-06	5.84E-06	2.81E-07	8.44E-06	5.73E-07	1.04E-06	9.19E-08	1.71E-06	4.44E-07	5.80E-07	4.19E-08	1.07E-06
3430	565099	4222414	4.23E-06	5.17E-06	2.72E-07	9.67E-06	2.24E-06	5.66E-06	2.72E-07	8.18E-06	5.56E-07	1.01E-06	8.91E-08	1.65E-06	4.30E-07	5.62E-07	4.07E-08	1.03E-06
3431	565077.6	4222323	4.83E-06	5.89E-06	3.11E-07	1.10E-05	2.56E-06	6.46E-06	3.11E-07	9.33E-06	6.34E-07	1.15E-06	1.02E-07	1.89E-06	4.90E-07	6.41E-07	4.64E-08	1.18E-06
3432	565078.7	4222332	4.81E-06	5.87E-06	3.09E-07	1.10E-05	2.55E-06	6.44E-06	3.09E-07	9.29E-06	6.31E-07	1.15E-06	1.01E-07	1.88E-06	4.88E-07	6.39E-07	4.62E-08	1.17E-06
3433	565079.9	4222342	4.77E-06	5.82E-06	3.07E-07	1.09E-05	2.53E-06	6.38E-06	3.07E-07	9.22E-06	6.26E-07	1.14E-06	1.00E-07	1.86E-06	4.85E-07	6.33E-07	4.58E-08	1.16E-06
3434	565081.1	4222351	4.71E-06	5.76E-06	3.03E-07	1.08E-05	2.50E-06	6.31E-06	3.03E-07	9.11E-06	6.19E-07	1.12E-06	9.93E-08	1.84E-06	4.79E-07	6.26E-07	4.53E-08	1.15E-06
3435	565082.2	4222360	4.65E-06	5.67E-06	2.99E-07	1.06E-05	2.46E-06	6.22E-06	2.99E-07	8.98E-06	6.10E-07	1.11E-06	9.78E-08	1.82E-06	4.72E-07	6.17E-07	4.46E-08	1.13E-06
3436	565083.4	4222369	4.57E-06	5.58E-06	2.94E-07	1.04E-05	2.42E-06	6.12E-06	2.94E-07	8.83E-06	6.00E-07	1.09E-06	9.62E-08	1.79E-06	4.64E-07	6.07E-07	4.39E-08	1.11E-06
3437	565084.6	4222379	4.48E-06	5.47E-06	2.88E-07	1.02E-05	2.37E-06	6.00E-06	2.88E-07	8.66E-06	5.88E-07	1.07E-06	9.43E-08	1.75E-06	4.55E-07	5.95E-07	4.30E-08	1.09E-06
3438	565088.1	4222406	4.16E-06	5.08E-06	2.68E-07	9.50E-06	2.20E-06	5.56E-06	2.68E-07	8.04E-06	5.46E-07	9.92E-07	8.75E-08	1.62E-06	4.22E-07	5.52E-07	3.99E-08	1.01E-06
3439	565089.2	4222416	4.03E-06	4.92E-06	2.60E-07	9.22E-06	2.14E-06	5.40E-06	2.60E-07	7.80E-06	5.30E-07	9.62E-07	8.49E-08	1.58E-06	4.10E-07	5.36E-07	3.87E-08	9.84E-07
3440	565069	4222334	4.58E-06	5.59E-06	2.95E-07	1.05E-05	2.43E-06	6.13E-06	2.95E-07	8.85E-06	6.01E-07	1.09E-06	9.64E-08	1.79E-06	4.65E-07	6.08E-07	4.40E-08	1.12E-06
3441	565070.1	4222343	4.54E-06	5.54E-06	2.92E-07	1.04E-05	2.41E-06	6.08E-06	2.92E-07	8.78E-06	5.96E-07	1.08E-06	9.56E-08	1.77E-06	4.61E-07	6.03E-07	4.36E-08	1.11E-06
3442	565071.3	4222352	4.49E-06	5.48E-06	2.89E-07	1.03E-05	2.38E-06	6.01E-06	2.89E-07	8.67E-06	5.89E-07	1.07E-06	9.45E-08	1.75E-06	4.56E-07	5.96E-07	4.31E-08	1.09E-06
3443	565072.5	4222361	4.42E-06	5.4E-06	2.85E-07	1.01E-05	2.34E-06	5.92E-06	2.85E-07	8.55E-06	5.81E-07	1.05E-06	9.31E-08	1.73E-06	4.49E-07	5.87E-07	4.25E-08	1.08E-06
3444	565073.6	4222371	4.35E-06	5.31E-06	2.80E-07	9.94E-06	2.30E-06	5.82E-06	2.80E-07	8.40E-06	5.71E-07	1.04E-06	9.15E-08	1.70E-06	4.42E-07	5.77E-07	4.18E-08	1.06E-06
3445	565074.8	4222380	4.26E-06	5.21E-06	2.74E-07	9.75E-06	2.26E-06	5.71E-06	2.74E-07	8.24E-06	5.60E-07	1.02E-06	8.98E-08	1.67E-06	4.33E-07	5.66E-07	4.10E-08	1.04E-06
3446	565078.3	4222408	3.96E-06	4.84E-06	2.55E-07	9.06E-06	2.10E-06	5.31E-06	2.55E-07	7.66E-06	5.20E-07	9.45E-07	8.35E-08	1.55E-06	4.03E-07	5.26E-07	3.81E-08	9.67E-07
3447	565079.5	4222417	3.85E-06	4.7E-06	2.48E-07	8.79E-06	2.04E-06	5.15E-06	2.48E-07	7.44E-06	5.05E-07	9.18E-07	8.10E-08	1.50E-06	3.91E-07	5.11E-07	3.70E-08	9.39E-07
3448	565059.2	4222335	4.36E-06	5.33E-06	2.81E-07	9.97E-06	2.31E-06	5.84E-06	2.81E-07	8.43E-06	5.73E-07	1.04E-06	9.19E-08	1.71E-06	4.43E-07	5.80E-07	4.19E-08	1.06E-06
3449	565060.4	4222344	4.33E-06	5.28E-06	2.78E-07	9.89E-06	2.29E-06	5.79E-06	2.78E-07	8.36E-06	5.68E-07	1.03E-06	9.11E-08	1.69E-06	4.40E-07	5.75E-07	4.16E-08	1.06E-06
3450	565061.5	4222353	4.28E-06	5.22E-06	2.75E-07	9.77E-06	2.27E-06	5.72E-06	2.75E-07	8.27E-06	5.62E-07	1.02E-06	9.01E-08	1.67E-06	4.35E-07	5.68E-07	4.11E-08	1.04E-06
3451	565062.7	4222363	4.22E-06	5.15E-06	2.71E-07	9.64E-06	2.23E-06	5.64E-06	2.71E-07	8.15E-06	5.54E-07	1.01E-06	8.88E-08	1.65E-06	4.28E-07	5.60E-07	4.05E-08	1.03E-06
3452	565063.9	4222372	4.15E-06	5.06E-06	2.67E-07	9.48E-06	2.20E-06	5.55E-06	2.67E-07	8.02E-06	5.44E-07	9.89E-07	8.73E-08	1.62E-06	4.21E-07	5.51E-07	3.98E-08	1.01E-06
3453	565065	4222381	4.07E-06	4.97E-06	2.62E-07	9.30E-06	2.16E-06	5.45E-06	2.62E-07	7.86E-06	5.34E-07	9.71E-07	8.57E-08	1.59E-06	4.13E-07	5.40E-07	3.91E-08	9.93E-07
3454	565069.7	4222418	3.68E-06	4.49E-06	2.37E-07	8.40E-06	1.95E-06	4.92E-06	2.37E-07	7.11E-06	4.83E-07	8.77E-07	7.74E-08	1.44E-06	3.74E-07	4.88E-07	3.53E-08	8.97E-07
3455	565049.4	4222336	4.16E-06	5.08E-06	2.68E-07	9.52E-06	2.21E-06	5.57E-06	2.68E-07	8.05E-06	5.47E-07	9.93E-07	8.77E-08	1.63E-06	4.23E-07	5.53E-07	4.00E-08	1.02E-06
3456	565050.6	4222345	4.13E-06	5.04E-06	2.66E-07	9.43E-06	2.19E-06	5.53E-06	2.66E-07	7.98E-06	5.42E-07	9.85E-07	8.69E-08	1.61E-06	4.19E-07	5.48E-07	3.97E-08	1.01E-06
3457	565051.8	4222355	4.08E-06	4.98E-06	2.63E-07	9.33E-06	2.16E-06	5.46E-06	2.63E-07	7.89E-06	5.36E-07	9.74E-07	8.59E-08	1.60E-06	4.15E-07	5.42E-07	3.92E-08	9.96E-07
3458	565052.9	4222364	4.02E-06	4.91E-06	2.59E-07	9.20E-06	2.13E-06	5.39E-06	2.59E-07	7.78E-06	5.28E-07	9.60E-07	8.48E-08	1.57E-06	4.09E-07	5.35E-07	3.87E-08	9.82E-07
3459	565054.1	4222373	3.96E-06	4.84E-06	2.55E-07	9.05E-06	2.10E-06	5.30E-06	2.55E-07	7.65E-06	5.20E-07	9.45E-07	8.34E-08	1.55E-06	4.02E-07	5.26E-07	3.80E-08	9.66E-07
3460	565055.3	4222382	3.89E-06	4.75E-06	2.50E-07	8.88E-06	2.06E-06	5.20E-06	2.50E-07	7.51E-06	5.10E-07	9.27E-07	8.18E-08	1.52E-06	3.95E-07	5.16E-07	3.73E-08	9.48E-07
3461	565060	4222419	3.52E-06	4.3E-06	2.27E-07	8.04E-06	1.87E-06	4.71E-06	2.27E-07	6.80E-06	4.62E-07	8.40E-07	7.41E-08	1.38E-06	3.58E-07	4.68E-07	3.38E-08	8.59E-07
3462	565039.7	4222337	3.98E-06	4.86E-06	2.56E-07	9.09E-06	2.11E-06	5.33E-06	2.56E-07	7.69E-06	5.22E-07	9.49E-07	8.38E-08	1.56E-06	4.04E-07	5.29E-07	3.82E-08	9.71E-07
3463	565040.8	4222347	3.94E-06	4.82E-06	2.54E-07	9.01E-06	2.09E-06	5.28E-06	2.54E-07	7.62E-06	5.18E-07	9.41E-07	8.31E-08	1.54E-06	4.01E-07	5.24E-07	3.79E-08	9.63E-07
3464	565042	4222356	3.9E-06	4.76E-06	2.51E-07	8.91E-06	2.07E-06	5.22E-06	2.51E-07	7.54E-06	5.12E-07	9.30E-07	8.21E-08	1.52E-06	3.96E-07	5.18E-07	3.75E-08	9.52E-07
3465	565043.2	4222365	3.85E-06	4.7E-06	2.48E-07	8.79E-06	2.04E-06	5.15E-06	2.48E-07	7.44E-06	5.05E-07	9.18E-07	8.10E-08	1.50E-06	3.91E-07	5.11E-07	3.70E-08	9.39E-07
3466	565044.4	4222374	3.79E-06	4.62E-06	2.44E-07	8.65E-06	2.01E-06	5.07E-06	2.44E-07	7.32E-06	4.97E-07	9.03E-07	7.97E-08	1.48E-06	3.85E-07	5.03E-07	3.64E-08	9.24E-07
3467	565045.5	4222384	3.72E-06	4.54E-06	2.39E-07	8.49E-06	1.97E-06	4.98E-06	2.39E-07	7.18E-06	4.88E-07	8.87E-07	7.83E-08	1.45E-06	3.78E-07	4.94E-07	3.57E-08	9.07E-07
3468	565046.7	4222393	3.64E-06	4.44E-06	2.34E-07	8.32E-06	1.93E-06	4.87E-06	2.34E-07	7.04E-06	4.78E-07	8.68E-07	7.66E-08	1.42E-06	3.70E-07	4.83E-07	3.50E-08	8.88E-07
3469	565050.2	4222420	3.37E-06	4.12E-06	2.17E-07	7.71E-06	1.79E-06	4.52E-06	2.17E-07	6.52E-06	4.43E-07	8.05E-07	7.10E-08	1.32E-06	3.43E-07	4.48E-07	3.24E-08	8.23E-07
3470	565029.9	4222339	3.81E-06	4.65E-06	2.45E-07	8.70E-06	2.02E-06	5.10E-06	2.45E-07	7.36E-06	5.00E-07	9.09E-07	8.02E-08	1.49E-06	3.87E-07	5.06E-07	3.66E-08	9.29E-07
3471	565031.1	4222348	3.77E-06	4.61E-06	2.43E-07	8.63E-06	2.00E-06	5.05E-06	2.43E-07	7.30E-06	4.96E-07	9.00E-07	7.95E-08	1.48E-06	3.84E-07	5.01E-07	3.63E-08	9.21E-07
3472	565032.3	4222357	3.73E-06	4.56E-06	2.40E-07	8.53E-06	1.98E-06	5.00E-06	2.40E-07	7.21E-06	4.90E-07	8.90E-07	7.86E-08	1.46E-06	3.79E-07	4.96E-07	3.59E-08	9.11E-07
3473	565033.4	4222366	3.68E-06	4.5E-06	2.37E-07	8.41E-06	1.95E-06	4.93E-06	2.37E-07	7.12E-06	4.83E-07	8.78E-07	7.75E-08	1.44E-06	3.74E-07	4.89E-07	3.54E-08	8.98E-07
3474	565034.6	4222376	3.62E-06	4.42E-06	2.33E-07	8.28E-06	1.92E-06	4.85E-06	2.33E-07	7.00E-06	4.76E-07	8.64E-07	7.63E-08	1.42E-06	3.68E-07	4.81E-07	3.48E-08	8.84E-07
3475	565035.8	4222385	3.56E-06	4.34E-06	2.29E-07	8.13E-06	1.89E-06	4.76E-06	2.29E-07	6.87E-06	4.67E-07	8.48E-07	7.49E-08	1.39E-06	3.61E-07	4.72E-07	3.42E-08	8.68E-07
3476	565036.9	4222394	3.48E-06	4.25E-06	2.24E-07	7.96E-06	1.85E-06	4.66E-06	2.24E-07	6.73E-06	4.57E-07	8.31E-07	7.34E-08	1.36E-06	3.54E-07	4.63E-07	3.35E-08	8.50E-07
3477	565020.2	4222340	3.65E-06	4.46E-06	2.35E-07	8.34E-06	1.93E-06	4.89E-06	2.35E-07	7.05E-06	4.79E-07	8.71E-07	7.68E-08	1.43E-06	3.71E-07	4.85E-07	3.51E-08	8.91E-07
3478	565021.3	4222349	3.62E-06	4.42E-06	2.33E-07	8.26E-06	1.92E-06	4.84E-06	2.33E-07	6.99E-06	4.75E-07	8.63E-07	7.61E-08	1.41E-06	3.67E-07	4.80E-07	3.47E-08	8.82E-07
3479	565022.5	4222358	3.57E-06	4.37E-06	2.30E-07	8.17E-06	1.90E-06	4.79E-06	2.30E-07	6.91E-06	4.69E-07	8.53E-07	7.53E-08	1.40E-06	3.63E-07	4.75E-07	3.43E-08	8.72E-07
3480	565023.7	4222368	3.53E-06	4.31E-06	2.27E-07	8.06E-06	1.87E-06	4.72E-06	2.27E-07	6.82E-06	4.63E-07	8.41E-07	7.43E-08	1.38E-06	3.58E-07	4.68E-07	3.39E-08	8.61E-07
3481	565024.8	4222377	3.47E-06	4.24E-06	2.23E-07	7.93E-06	1.84E-06	4.64E-06	2.23E-07	6.71E-06	4.56E-07	8.28E-07	7.31E-08	1.36E-06	3.53E-07	4.61E-07	3.33E-08	8.47E-07
3482	565026	4222386	3.41E-06	4.16E-06	2.19E-07	7.78E-06	1.81E-06	4.56E-06	2.19E-07	6.58E-06	4.47E-07	8.13E-07	7.17E-08	1.33E-06	3.46E-07	4.52E-07	3.27E-08	8.31E-07
3483	565027.2	4222395	3.34E-06	4.07E-06	2.15E-07	7.63E-06	1.77E-06	4.47E-06	2.15E-07	6.45E-06	4.38E-07	7.96E-07	7.03E-08	1.30E-06	3.39E-07	4.43E-07	3.21E-08	8.14E-07
3484	565010.4	4222341	3.5E-06	4.27E-06	2.25E-07	8.00E-06	1.86E-06	4.69E-06	2.25E-07	6.77E-06	4.60E-07	8.35E-07	7.37E-08	1.37E-06	3.56E-07	4.65E-07	3.36E-08	8.54E-07
3485	565011.6	4222350	3.47E-06	4.23E-06	2.23E-07	7.92E-06	1.84E-06	4.64E-06	2.23E-07	6.70E-06	4.55E-07	8.27E-07	7.30E-08	1.36E-06	3.52E-07	4.61E-07	3.33E-08	8.46E-07
3486	565012.7	4222360	3.43E-06	4.19E-06	2.21E-07	7.83E-06	1.82E-06	4.59E-06	2.21E-07	6.63E-06	4.50E-07	8.18E-07	7.22E-08	1.34E-06	3.48E-07	4.55E-07	3.29E-08	8.37E-07
3487	565013.9	4222369	3.38E-06	4.13E-06	2.18E-07	7.73E-06	1.79E-06	4.53E-06	2.18E-07	6.54E-06	4.44E-07	8.07E-07	7.12E-08	1.32E-06	3.44E-07	4.49E-07	3.25E-08	8.25E-07
3488	565015.1	4222378	3.33E-06	4.06E-06	2.14E-07	7.60E-06	1.76E-06	4.45E-06	2.14E-07	6.43E-06	4.37E-07	7.93E-07	7.00E-08	1.30E-06	3.38E-07	4.42E-07	3.20E-08	8.12E-07
3489	565016.2	4222387	3.26E-06	3.99E-06	2.10E-07	7.46E-06	1.73E-06	4.37E-06	2.10E-07	6.31E-06	4.29E-07	7.79E-07	6.88E-08	1.28E-06	3.32E-07	4.34E-07	3.14E-08	7.97E-07
3490	565017.4	4222396	3.2E-06	3.91E-06	2.06E-07	7.31E-06	1.70E-06	4.28E-06	2.06E-07	6.18E-06	4.20E-07	7.63E-07	6.74E-08	1.25E-06	3.25E-07	4.25E-07	3.07E-08	7.81E-07
3491	565018.6	4222406	3.13E-06	3.82E-06	2.01E-07	7.15E-06	1.66E-06	4.19E-06	2.01E-07	6.05E-06	4.11E-07	7.47E-07	6.59E-08	1.22E-06	3.18E-07	4.16E-07	3.01E-08	7.64E-07
3492	565000.6	4222342	3.36E-06	4.1E-06	2.16E-07	7.68E-06	1.78E-06	4.50E-06	2.16E-07	6.49E-06	4.41E-07	8.01E-07	7.07E-08	1.31E-06	3.41E-07	4.46E-07	3.23E-08	8.20E-07
3493	565001.8	4222352	3.33E-06	4.06E-06	2.14E-07	7.60E-06	1.76E-06	4.45E-06	2.14E-07	6.43E-06	4.37E-07	7.94E-07	7.01E-08	1.30E-06	3.38E-07	4.42E-07	3.20E-08	8.12E-07
3494	565003	4222361	3.29E-06	4.02E-06	2.12E-07	7.52E-06	1.74E-06	4.40E-06	2.12E-07	6.36E-06	4.32E-07	7.84E-07	6.92E-08	1.29E-06	3.34E-07	4.37E-07	3.16E-08	8.02E-07
3495	565004.1	4222370	3.24E-06	3.96E-06	2.09E-07	7.41E-06	1.72E-06	4.34E-06	2.09E-07	6.27E-06	4.26E-07	7.74E-07	6.83E-08	1.27E-06	3.30E-07	4.31E-07	3.12E-08	7.91E-07
3496	565005.3	4222379	3.19E-06	3.9E-06	2.05E-07	7.29E-06	1.69E-06	4.27E-06	2.05E-07	6.17E-06	4.19E-07	7.61E-07	6.72E-08	1.25E-06	3.24E-07	4.24E-07	3.07E-08	7.79E-07
3497	565006.5	4222389	3.13E-06	3.83E-06	2.02E-07	7.16E-06	1.66E-06	4.20E-06	2.02E-07	6.06E-06	4.12E-07	7.48E-07	6.60E-08	1.23E-06	3.18E-07	4.16E-07	3.01E-08	7.65E-07
3498	565007.6	4222398	3.07E-06	3.75E-06	1.98E-07	7.02E-06	1.63E-06	4.11E-06	1.98E-07	5.94E-06	4.03E-07	7.33E-07	6.47E-08	1.20E-06	3.12E-07	4.08E-07	2.95E-08	7.50E-07
3499	565008.8	4222407	3.01E-06	3.67E-06	1.93E-07	6.87E-06	1.59E-06	4.02E-06	1.93E-07	5.81E-06	3.95E-07	7.17E-07	6.33E-08	1.18E-06	3.05E-07	3.99E-07	2.89E-08	7.34E-07
3500	564990.9	4222344	3.23E-06	3.94E-06	2.08E-07	7.38E-06	1.71E-06	4.32E-06	2.08E-07	6.24E-06	4.24E-07	7.70E-07	6.80E-08	1.26E-06	3.28E-07	4.29E-07	3.10E-08	7.88E-07
3501	564992	4222353	3.19E-06	3.9E-06	2.06E-07	7.30E-06	1.69E-06	4.28E-06	2.06E-07	6.18E-06	4.20E-07	7.62E-07	6.73E-08	1.25E-06	3.25E-07	4.24E-07	3.07E-08	7.80E-07
3502	564993.2	4222362	3.16E-06	3.86E-06	2.03E-07	7.21E-06	1.67E-06	4.23E-06	2.03E-07	6.10E-06	4.15E-07	7.53E-07	6.65E-08	1.23E-06	3.21E-07	4.19E-07	3.03E-08	7.70E-07
3503	564994.4	4222371	3.11E-06	3.8E-06	2.00E-07	7.12E-06	1.65E-06	4.17E-06	2.00E-07	6.02E-06	4.09E-07	7.43E-07	6.56E-08	1.22E-06	3.16E-07	4.14E-07	2.99E-08	7.60E-07
3504	564995.6	4222381	3.06E-06	3.74E-06	1.97E-07	7.00E-06	1.62E-06	4.10E-06	1.97E-07	5.93E-06	4.02E-07	7.31E-07	6.45E-08	1.20E-06	3.11E-07	4.07E-07	2.94E-08	7.48E-07
3505	564996.7	4222390	3.01E-06	3.68E-06	1.94E-07	6.88

3518	564958.2	4222404	2.53E-06	3.09E-06	1.63E-07	5.79E-06	1.34E-06	3.39E-06	1.63E-07	4.89E-06	3.32E-07	6.04E-07	5.33E-08	9.90E-07	2.57E-07	3.36E-07	2.43E-08	6.18E-07
3519	564959.4	4222413	2.48E-06	3.03E-06	1.60E-07	5.67E-06	1.32E-06	3.32E-06	1.60E-07	4.80E-06	3.26E-07	5.92E-07	5.23E-08	9.70E-07	2.52E-07	3.30E-07	2.38E-08	6.06E-07
3520	564960.5	4222422	2.43E-06	2.97E-06	1.56E-07	5.55E-06	1.29E-06	3.25E-06	1.56E-07	4.70E-06	3.19E-07	5.80E-07	5.12E-08	9.50E-07	2.47E-07	3.23E-07	2.33E-08	5.93E-07
3521	564961.7	4222432	2.38E-06	2.9E-06	1.53E-07	5.43E-06	1.26E-06	3.18E-06	1.53E-07	4.59E-06	3.12E-07	5.67E-07	5.00E-08	9.29E-07	2.41E-07	3.16E-07	2.28E-08	5.80E-07
3522	564934.9	4222379	2.48E-06	3.02E-06	1.59E-07	5.66E-06	1.31E-06	3.31E-06	1.59E-07	4.79E-06	3.25E-07	5.91E-07	5.21E-08	9.68E-07	2.52E-07	3.29E-07	2.38E-08	6.04E-07
3523	564936	4222388	2.44E-06	2.98E-06	1.57E-07	5.57E-06	1.29E-06	3.27E-06	1.57E-07	4.72E-06	3.20E-07	5.82E-07	5.14E-08	9.53E-07	2.48E-07	3.24E-07	2.34E-08	5.95E-07
3524	564937.2	4222397	2.4E-06	2.93E-06	1.54E-07	5.48E-06	1.27E-06	3.21E-06	1.54E-07	4.64E-06	3.15E-07	5.72E-07	5.05E-08	9.38E-07	2.44E-07	3.19E-07	2.31E-08	5.86E-07
3525	564938.4	4222407	2.36E-06	2.88E-06	1.52E-07	5.39E-06	1.25E-06	3.16E-06	1.52E-07	4.56E-06	3.10E-07	5.62E-07	4.96E-08	9.22E-07	2.40E-07	3.13E-07	2.26E-08	5.75E-07
3526	564939.5	4222416	2.31E-06	2.82E-06	1.49E-07	5.29E-06	1.23E-06	3.10E-06	1.49E-07	4.47E-06	3.04E-07	5.52E-07	4.87E-08	9.04E-07	2.35E-07	3.07E-07	2.22E-08	5.64E-07
3527	564940.7	4222425	2.27E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.03E-06	1.46E-07	4.38E-06	2.98E-07	5.41E-07	4.77E-08	8.86E-07	2.30E-07	3.01E-07	2.18E-08	5.53E-07
3528	564941.9	4222434	2.22E-06	2.71E-06	1.43E-07	5.07E-06	1.18E-06	2.97E-06	1.43E-07	4.29E-06	2.91E-07	5.29E-07	4.67E-08	8.67E-07	2.25E-07	2.95E-07	2.13E-08	5.41E-07
3529	564911.5	4222354	2.39E-06	2.92E-06	1.54E-07	5.47E-06	1.27E-06	3.21E-06	1.54E-07	4.63E-06	3.14E-07	5.71E-07	5.04E-08	9.36E-07	2.43E-07	3.18E-07	2.30E-08	5.84E-07
3530	564912.7	4222363	2.37E-06	2.89E-06	1.52E-07	5.41E-06	1.26E-06	3.17E-06	1.52E-07	4.58E-06	3.11E-07	5.65E-07	4.99E-08	9.26E-07	2.41E-07	3.15E-07	2.28E-08	5.78E-07
3531	564913.8	4222372	2.34E-06	2.86E-06	1.51E-07	5.35E-06	1.24E-06	3.13E-06	1.51E-07	4.52E-06	3.07E-07	5.58E-07	4.93E-08	9.15E-07	2.38E-07	3.11E-07	2.25E-08	5.71E-07
3532	564915	4222381	2.31E-06	2.82E-06	1.49E-07	5.28E-06	1.22E-06	3.09E-06	1.49E-07	4.47E-06	3.03E-07	5.51E-07	4.86E-08	9.03E-07	2.35E-07	3.07E-07	2.22E-08	5.64E-07
3533	564916.2	4222391	2.28E-06	2.78E-06	1.46E-07	5.20E-06	1.21E-06	3.05E-06	1.46E-07	4.40E-06	2.99E-07	5.43E-07	4.79E-08	8.90E-07	2.31E-07	3.02E-07	2.19E-08	5.56E-07
3534	564917.4	4222400	2.24E-06	2.74E-06	1.44E-07	5.12E-06	1.19E-06	3.00E-06	1.44E-07	4.33E-06	2.94E-07	5.34E-07	4.72E-08	8.76E-07	2.28E-07	2.98E-07	2.15E-08	5.47E-07
3535	564918.5	4222409	2.2E-06	2.69E-06	1.42E-07	5.03E-06	1.17E-06	2.95E-06	1.42E-07	4.26E-06	2.89E-07	5.25E-07	4.64E-08	8.61E-07	2.24E-07	2.93E-07	2.12E-08	5.38E-07
3536	564919.7	4222418	2.16E-06	2.64E-06	1.39E-07	4.94E-06	1.15E-06	2.89E-06	1.39E-07	4.18E-06	2.84E-07	5.16E-07	4.55E-08	8.45E-07	2.20E-07	2.87E-07	2.08E-08	5.28E-07
3537	564920.9	4222427	2.12E-06	2.59E-06	1.36E-07	4.85E-06	1.12E-06	2.84E-06	1.36E-07	4.10E-06	2.78E-07	5.06E-07	4.46E-08	8.29E-07	2.15E-07	2.82E-07	2.04E-08	5.17E-07
3538	564922	4222437	2.08E-06	2.54E-06	1.34E-07	4.75E-06	1.10E-06	2.78E-06	1.34E-07	4.02E-06	2.73E-07	4.95E-07	4.37E-08	8.12E-07	2.11E-07	2.76E-07	2.00E-08	5.07E-07
3539	564891.7	4222356	2.24E-06	2.73E-06	1.44E-07	5.12E-06	1.19E-06	3.00E-06	1.44E-07	4.33E-06	2.94E-07	5.34E-07	4.71E-08	8.75E-07	2.27E-07	2.97E-07	2.15E-08	5.46E-07
3540	564892.8	4222365	2.21E-06	2.71E-06	1.43E-07	5.06E-06	1.17E-06	2.97E-06	1.43E-07	4.28E-06	2.91E-07	5.28E-07	4.66E-08	8.66E-07	2.25E-07	2.94E-07	2.13E-08	5.41E-07
3541	564894	4222375	2.19E-06	2.67E-06	1.41E-07	5.00E-06	1.16E-06	2.93E-06	1.41E-07	4.23E-06	2.87E-07	5.22E-07	4.61E-08	8.56E-07	2.22E-07	2.91E-07	2.10E-08	5.34E-07
3542	564895.2	4222384	2.16E-06	2.64E-06	1.39E-07	4.94E-06	1.15E-06	2.89E-06	1.39E-07	4.18E-06	2.84E-07	5.15E-07	4.55E-08	8.45E-07	2.20E-07	2.87E-07	2.08E-08	5.27E-07
3543	564896.3	4222393	2.13E-06	2.6E-06	1.37E-07	4.87E-06	1.13E-06	2.85E-06	1.37E-07	4.12E-06	2.80E-07	5.08E-07	4.49E-08	8.33E-07	2.16E-07	2.83E-07	2.05E-08	5.20E-07
3544	564897.5	4222402	2.1E-06	2.56E-06	1.35E-07	4.79E-06	1.11E-06	2.81E-06	1.35E-07	4.06E-06	2.75E-07	5.00E-07	4.42E-08	8.20E-07	2.13E-07	2.79E-07	2.02E-08	5.12E-07
3545	564898.7	4222412	2.06E-06	2.52E-06	1.33E-07	4.72E-06	1.09E-06	2.76E-06	1.33E-07	3.99E-06	2.71E-07	4.92E-07	4.35E-08	8.07E-07	2.10E-07	2.74E-07	1.98E-08	5.04E-07
3546	564899.9	4222421	2.03E-06	2.48E-06	1.31E-07	4.64E-06	1.08E-06	2.72E-06	1.31E-07	3.92E-06	2.66E-07	4.84E-07	4.27E-08	7.93E-07	2.06E-07	2.69E-07	1.95E-08	4.95E-07
3547	564901	4222430	1.99E-06	2.43E-06	1.28E-07	4.55E-06	1.06E-06	2.66E-06	1.28E-07	3.85E-06	2.61E-07	4.75E-07	4.19E-08	7.78E-07	2.02E-07	2.64E-07	1.91E-08	4.86E-07
3548	564902.2	4222439	1.95E-06	2.38E-06	1.26E-07	4.46E-06	1.03E-06	2.61E-06	1.26E-07	3.77E-06	2.56E-07	4.65E-07	4.11E-08	7.63E-07	1.98E-07	2.59E-07	1.87E-08	4.76E-07
3549	564873	4222368	2.08E-06	2.54E-06	1.34E-07	4.75E-06	1.10E-06	2.78E-06	1.34E-07	4.01E-06	2.73E-07	4.95E-07	4.37E-08	8.12E-07	2.11E-07	2.76E-07	2.00E-08	5.07E-07
3550	564874.2	4222377	2.05E-06	2.51E-06	1.32E-07	4.69E-06	1.09E-06	2.75E-06	1.32E-07	3.97E-06	2.70E-07	4.90E-07	4.32E-08	8.02E-07	2.09E-07	2.73E-07	1.97E-08	5.01E-07
3551	564875.3	4222386	2.03E-06	2.47E-06	1.30E-07	4.63E-06	1.07E-06	2.71E-06	1.30E-07	3.92E-06	2.66E-07	4.83E-07	4.27E-08	7.92E-07	2.06E-07	2.69E-07	1.95E-08	4.94E-07
3552	564876.5	4222396	2E-06	2.44E-06	1.29E-07	4.57E-06	1.06E-06	2.67E-06	1.29E-07	3.86E-06	2.62E-07	4.77E-07	4.21E-08	7.81E-07	2.03E-07	2.65E-07	1.92E-08	4.88E-07
3553	564877.7	4222405	1.97E-06	2.4E-06	1.27E-07	4.50E-06	1.04E-06	2.63E-06	1.27E-07	3.80E-06	2.58E-07	4.70E-07	4.14E-08	7.69E-07	2.00E-07	2.61E-07	1.89E-08	4.80E-07
3554	564878.8	4222414	1.94E-06	2.37E-06	1.25E-07	4.43E-06	1.03E-06	2.59E-06	1.25E-07	3.74E-06	2.54E-07	4.62E-07	4.08E-08	7.57E-07	1.97E-07	2.57E-07	1.86E-08	4.73E-07
3555	564880	4222423	1.9E-06	2.33E-06	1.23E-07	4.35E-06	1.01E-06	2.55E-06	1.23E-07	3.68E-06	2.50E-07	4.54E-07	4.01E-08	7.44E-07	1.93E-07	2.53E-07	1.83E-08	4.65E-07
3556	564881.2	4222433	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.91E-07	2.50E-06	1.20E-07	3.62E-06	2.46E-07	4.46E-07	3.94E-08	7.31E-07	1.90E-07	2.48E-07	1.80E-08	4.56E-07
3557	564882.3	4222442	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.73E-07	2.46E-06	1.18E-07	3.55E-06	2.41E-07	4.38E-07	3.86E-08	7.17E-07	1.86E-07	2.44E-07	1.76E-08	4.48E-07
3558	564852	4222361	1.97E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.81E-06	2.59E-07	4.70E-07	4.15E-08	7.71E-07	2.00E-07	2.62E-07	1.89E-08	4.81E-07
3559	564855.5	4222389	1.9E-06	2.33E-06	1.23E-07	4.35E-06	1.01E-06	2.55E-06	1.23E-07	3.68E-06	2.50E-07	4.54E-07	4.01E-08	7.44E-07	1.93E-07	2.53E-07	1.83E-08	4.65E-07
3560	564856.7	4222398	1.88E-06	2.29E-06	1.21E-07	4.29E-06	9.96E-07	2.51E-06	1.21E-07	3.63E-06	2.47E-07	4.48E-07	3.96E-08	7.34E-07	1.91E-07	2.49E-07	1.80E-08	4.58E-07
3561	564857.8	4222407	1.85E-06	2.26E-06	1.19E-07	4.23E-06	9.81E-07	2.48E-06	1.19E-07	3.58E-06	2.43E-07	4.41E-07	3.90E-08	7.23E-07	1.88E-07	2.46E-07	1.78E-08	4.52E-07
3562	564859	4222417	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
3563	564860.2	4222426	1.79E-06	2.19E-06	1.15E-07	4.09E-06	9.49E-07	2.40E-06	1.15E-07	3.46E-06	2.35E-07	4.27E-07	3.77E-08	7.00E-07	1.82E-07	2.38E-07	1.72E-08	4.37E-07
3564	564861.3	4222435	1.76E-06	2.15E-06	1.13E-07	4.02E-06	9.33E-07	2.36E-06	1.13E-07	3.40E-06	2.31E-07	4.20E-07	3.71E-08	6.88E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
3565	564862.5	4222444	1.73E-06	2.11E-06	1.11E-07	3.95E-06	9.17E-07	2.32E-06	1.11E-07	3.34E-06	2.27E-07	4.13E-07	3.64E-08	6.76E-07	1.76E-07	2.30E-07	1.66E-08	4.22E-07
3566	564831	4222355	1.87E-06	2.29E-06	1.21E-07	4.29E-06	9.94E-07	2.51E-06	1.21E-07	3.62E-06	2.46E-07	4.47E-07	3.95E-08	7.33E-07	1.91E-07	2.49E-07	1.80E-08	4.58E-07
3567	564832.1	4222364	1.86E-06	2.27E-06	1.20E-07	4.24E-06	9.85E-07	2.49E-06	1.20E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.26E-07	1.89E-07	2.47E-07	1.78E-08	4.53E-07
3568	564833.3	4222373	1.84E-06	2.24E-06	1.18E-07	4.20E-06	9.74E-07	2.46E-06	1.18E-07	3.55E-06	2.41E-07	4.38E-07	3.87E-08	7.18E-07	1.87E-07	2.44E-07	1.77E-08	4.48E-07
3569	564836.8	4222401	1.77E-06	2.16E-06	1.14E-07	4.04E-06	9.38E-07	2.37E-06	1.14E-07	3.42E-06	2.32E-07	4.22E-07	3.73E-08	6.92E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
3570	564838	4222410	1.74E-06	2.13E-06	1.12E-07	3.99E-06	9.25E-07	2.34E-06	1.12E-07	3.37E-06	2.29E-07	4.16E-07	3.67E-08	6.82E-07	1.77E-07	2.32E-07	1.68E-08	4.26E-07
3571	564839.2	4222419	1.72E-06	2.1E-06	1.11E-07	3.93E-06	9.11E-07	2.30E-06	1.11E-07	3.32E-06	2.26E-07	4.10E-07	3.62E-08	6.72E-07	1.75E-07	2.28E-07	1.65E-08	4.19E-07
3572	564840.3	4222428	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.26E-06	1.09E-07	3.27E-06	2.22E-07	4.03E-07	3.56E-08	6.61E-07	1.72E-07	2.25E-07	1.62E-08	4.13E-07
3573	564841.5	4222438	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.82E-07	2.23E-06	1.07E-07	3.22E-06	2.18E-07	3.97E-07	3.50E-08	6.50E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
3574	564842.7	4222447	1.63E-06	2E-06	1.05E-07	3.73E-06	8.66E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.44E-08	6.39E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
3575	564812.3	4222366	1.75E-06	2.14E-06	1.13E-07	4.00E-06	9.29E-07	2.35E-06	1.13E-07	3.39E-06	2.30E-07	4.18E-07	3.69E-08	6.85E-07	1.78E-07	2.33E-07	1.68E-08	4.28E-07
3576	564813.5	4222375	1.73E-06	2.12E-06	1.12E-07	3.96E-06	9.19E-07	2.32E-06	1.12E-07	3.35E-06	2.28E-07	4.14E-07	3.65E-08	6.78E-07	1.76E-07	2.30E-07	1.67E-08	4.23E-07
3577	564814.6	4222385	1.71E-06	2.09E-06	1.10E-07	3.92E-06	9.09E-07	2.29E-06	1.10E-07	3.31E-06	2.25E-07	4.09E-07	3.61E-08	6.70E-07	1.74E-07	2.28E-07	1.65E-08	4.18E-07
3578	564815.8	4222394	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.56E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
3579	564820.5	4222431	1.6E-06	1.95E-06	1.03E-07	3.65E-06	8.48E-07	2.14E-06	1.03E-07	3.09E-06	2.10E-07	3.81E-07	3.37E-08	6.25E-07	1.62E-07	2.12E-07	1.54E-08	3.90E-07
3580	564821.7	4222440	1.57E-06	1.92E-06	1.01E-07	3.59E-06	8.34E-07	2.11E-06	1.01E-07	3.04E-06	2.07E-07	3.75E-07	3.31E-08	6.15E-07	1.60E-07	2.09E-07	1.51E-08	3.84E-07
3581	564822.8	4222449	1.55E-06	1.89E-06	9.95E-08	3.53E-06	8.20E-07	2.07E-06	9.95E-08	2.99E-06	2.03E-07	3.69E-07	3.26E-08	6.04E-07	1.57E-07	2.05E-07	1.49E-08	3.77E-07
3582	564792.5	4222369	1.66E-06	2.02E-06	1.07E-07	3.79E-06	8.78E-07	2.22E-06	1.07E-07	3.20E-06	2.18E-07	3.95E-07	3.49E-08	6.48E-07	1.68E-07	2.20E-07	1.59E-08	4.04E-07
3583	564793.6	4222378	1.64E-06	2E-06	1.06E-07	3.75E-06	8.69E-07	2.19E-06	1.06E-07	3.17E-06	2.15E-07	3.91E-07	3.45E-08	6.41E-07	1.67E-07	2.18E-07	1.57E-08	4.00E-07
3584	564794.8	4222387	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.59E-07	2.17E-06	1.04E-07	3.13E-06	2.13E-07	3.87E-07	3.41E-08	6.34E-07	1.65E-07	2.15E-07	1.56E-08	3.96E-07
3585	564796	4222396	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.49E-07	2.14E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.37E-08	6.26E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
3586	564797.1	4222406	1.58E-06	1.93E-06	1.02E-07	3.61E-06	8.38E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.77E-07	3.33E-08	6.18E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
3587	564798.3	4222415	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.27E-07	2.09E-06	1.00E-07	3.01E-06	2.05E-07	3.72E-07	3.28E-08	6.10E-07	1.58E-07	2.07E-07	1.50E-08	3.81E-07
3588	564799.5	4222424	1.54E-06	1.88E-06	9.89E-08	3.51E-06	8.15E-07	2.06E-06	9.89E-08	2.97E-06	2.02E-07	3.67E-07	3.24E-08	6.01E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
3589	564800.6	4222433	1.51E-06	1.85E-06	9.74E-08	3.46E-06	8.03E-07	2.03E-06	9.74E-08	2.93E-06	1.99E-07	3.61E-07	3.19E-08	5.92E-07	1.54E-07	2.01E-07	1.45E-08	3.69E-07
3590	564772.6	4222371	1.57E-06	1.92E-06	1.01E-07	3.59E-06	8.32E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.74E-07	3.30E-08	6.13E-07	1.59E-07	2.08E-07	1.51E-08	3.83E-07
3591	564773.8	4222381	1.55E-06	1.9E-06	1.00E-07	3.55E-06	8.23E-07	2.08E-06	1.00E-07	3.00E-06	2.04E-07	3.70E-07	3.27E-08	6.07E-07	1.58E-07	2.06E-07	1.49E-08	3.79E-07
3592	564775	4222390	1.54E-06	1.88E-06	9.89E-08	3.51E-06	8.14E-07	2.06E-06	9.89E-08	2.97E-06	2.02E-07	3.66E-07	3.24E-08	6.01E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
3593	564776.1	4222399	1.52E-06	1.85E-06	9.77E-08	3.47E-06	8.05E-07	2.03E-06	9.77E-08	2.93E-06	1.99E-07	3.62E-07	3.20E-08	5.93E-07	1.54E-07	2.02E-07	1.46E-08	3.70E-07
3594	564777.3	4222408	1.5E-06	1.83E-06	9.64E-08	3.42E-06	7.94E-07	2.01E-06	9.64E-08	2.90E-06	1.97E-07	3.57E-07	3.16E-08	5.86E-07	1.52E-07	1.99E-07	1.44E-08	3.66E-07
3595	564778.5	4222417	1.48E-06	1.81E-06	9.51E-08	3.38E-06	7.84E-07	1.98E-06	9.51E-08	2.86E-06	1.94E-07	3.53E-07	3.11E-08	5.78E-07	1.50E-07	1.96E-07	1.42E-08	3.61E-07
3596	564779.6	4222427	1.46E-06	1.78E-06	9.38E-08	3.33E-06	7.72E-07	1.95E-06	9.38E-08	2.82E-06	1.91E-07	3.48E-07	3.07E-08	5.70E-07	1.48E-07	1.94E-07	1.40E-08	3.56E-07
3597	564780.8	4222436	1.44E-06	1.75E-06	9.24E-08	3.28E-06	7.61E-07	1.92E-06	9.24E-08	2.78E-06	1.89E-07	3.43E-07	3.02E-08	5.61E-07	1.46E-07	1.91E-07	1.38E-08	3.50E-07
3598	564782	4222445	1.41E-06	1.73E-06	9.10E-08	3.23E-06	7.49E-07	1.89E-06	9.10E-08	2.73E-06	1.86E-07	3.37E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
3599	564783.1	4222454	1.39E-06	1.7E-06	8.95E-08	3.18E-06	7.37E-07	1.86E-06	8.95E-08	2.69E-06	1.83E-07	3.32E-07	2.93E-08	5.44E-07	1.41E-07	1.85E-07	1.34E-08	3.39E-07
3600	564752.8	4222374	1.49E-06	1.82E-06	9.58E-08	3.40E-06	7.89E-07	1.99E-06	9.58E-08	2.88E-06	1.95E-07	3.55E-07	3.13E-08	5.82E-07	1.51E-07	1.98E-07	1.43E-08	3.63E-07
3601	564753.9	4222383	1.47E-06	1.8E-06	9.48E-08	3.37E-06	7.81E-07	1.97E-06	9.48E-08	2.85E-06	1.93E-07	3.51E-07	3.10E-08	5.76E-07	1.50E-07	1.96E-07	1.42E-08	3.60E-07
3602	564755.1	4222392	1.46E-06	1.78E-06	9.38E-08	3.33E-06	7.73E-07	1.95E-06	9.38E-08	2.82E-06	1.91E-07	3.48E-07	3.07E-08	5.70E-07	1.48E-07	1.94E-07	1.40E-08	3.56E-07
3603	564756.3	4222401	1.44E-06	1.76E-06	9.27E-08	3.29E-06	7.64E-07	1.93E-06	9.27E-08	2.78E-06	1.89E-07	3.44E-07	3.03E-08	5.63E-07	1.46E-07	1.91E-07	1.38E-08	3.52E-07
3604	564757.5	4222411	1.42E-06	1.74E-06	9.15E-08	3.25E-06	7.54E-07	1.90E-06	9.15E-08	2.75E-06	1.87E-07	3.39E-07	2.99E-08	5.56E-07	1.45E-07	1.89E-07	1.37E-08	3.47E-07
3605	564758.6	4222420	1.4E-06	1.71E-06	9.03E-08	3.21E-06	7.44E-07	1.88E-06	9.03E-08	2.71E-06	1.84E-07	3.35E-07	2.95E-08	5.48E-07	1.43E-07	1.86E-07	1.35E-08	3.42E-07
3606	564759.8	4222429	1.38E-06	1.69E-06	8.90E-08	3.16E-06	7.33E-07	1.85E-06	8.90E-08	2.67E-06	1.82E-07	3.30E-07	2.91E-08	5.41E-07	1.41E-07	1.84E-07	1.33E-08	3.38E-07
3607	564761	4222438	1.36E-06	1.67E-06	8.78E-08	3.12E-06	7.23E-07	1.83E-06	8.78E-08	2.64E-06	1.79E-07	3.25E-07	2.87E-08	5.33E-07	1.39E-07	1.81E-07	1.31E-08	3.33E-07
3608	564762.1	4222448	1.34E-06	1.64E-06	8.64E-08	3.07E-06	7.12E-07	1.80E-06	8.64E-08	2.60E-06	1.76E-07	3.20E-07	2.83E-08	5.25E-07	1.36E-07	1.78E-07	1.29E-08	3.28E-07
3609	564763.3	4222457	1.32E-06	1.61E-06	8.51E-08	3.02E-06	7.01E-07	1.77E-06	8.51E-08	2.56E-06	1.74E-07	3.15E-07	2.78E-08	5.17E-07	1.34E-07	1.76E-07	1.27E-08	3.23E-07
3610	564732.9	4222376	1.41E-06	1.73E-06	9.10E-08	3.23E-06	7.50E-07	1.89E-06	9.10E-08	2.73E-06	1.86E-07	3.37E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
3611	564736.4	4222404	1.37E-06	1.67E-06	8.81E-08	3.13E-06	7.26E-07	1.83E-06	8.81E-08	2.65E-06	1.80E-07	3.26E-07	2.88E-08	5.35E-07	1.39E-07	1.82E-07	1.31E-08	3.34E-07
3612	564737.6	4222413	1.35E-06	1.65E-06	8.70E-08	3.09E-06	7.17E-07	1.81E-06	8.70E-08	2.61E-06	1.77E-07	3.22E-07	2.85E-08	5.28E-07	1.37E-07	1.80E-07	1.30E-08	3.30E-07
3613	564738.8	4222422	1.33E-06	1.63E-06	8.59E-08	3.05E-06	7.07E-07	1.79E-06	8.59E-08	2.58E-06	1.75E-07	3.18E-07	2.81E-08	5.21E-07	1.36E-07	1.77E-07	1.28E-08	3.26E-07
3614	564740	4222432	1.32E-06	1.61E-06	8.47E-08	3.01E-06	6.98E-07	1.76E-06	8.47E-08	2.54E-06	1.73E-07	3.14E-07	2.77E-08	5.14E-07	1.34E-07	1.75E-07	1.26E-08	3.21E-07
3615	564741.1	4222441	1.3E-06	1.58E-06	8.35E-08	2.97E-06	6.88E-07	1

3628	564703.8	4222464	1.15E-06	1.4E-06	7.37E-08	2.62E-06	6.07E-07	1.53E-06	7.37E-08	2.21E-06	1.50E-07	2.73E-07	2.41E-08	4.48E-07	1.16E-07	1.52E-07	1.10E-08	2.80E-07
3629	565258.1	4222418	9.95E-06	1.22E-05	6.40E-07	2.27E-05	5.27E-06	1.33E-05	6.40E-07	1.92E-05	1.31E-06	2.37E-06	2.10E-07	3.89E-06	1.01E-06	1.32E-06	9.56E-08	2.43E-06
3630	565251.7	4222407	1.02E-05	1.24E-05	6.55E-07	2.33E-05	5.39E-06	1.36E-05	6.55E-07	1.97E-05	1.34E-06	2.43E-06	2.14E-07	3.98E-06	1.03E-06	1.35E-06	9.78E-08	2.48E-06
3631	565258.2	4222437	8.84E-06	1.08E-05	5.69E-07	2.02E-05	4.69E-06	1.18E-05	5.69E-07	1.71E-05	1.16E-06	2.11E-06	1.86E-07	3.46E-06	8.98E-07	1.17E-06	8.49E-08	2.16E-06
3632	565251.8	4222425	9.06E-06	1.11E-05	5.83E-07	2.07E-05	4.80E-06	1.21E-05	5.83E-07	1.75E-05	1.19E-06	2.16E-06	1.91E-07	3.54E-06	9.21E-07	1.20E-06	8.71E-08	2.21E-06
3633	565245.3	4222414	9.31E-06	1.14E-05	5.99E-07	2.13E-05	4.94E-06	1.25E-05	5.99E-07	1.80E-05	1.22E-06	2.22E-06	1.96E-07	3.64E-06	9.46E-07	1.24E-06	8.95E-08	2.27E-06
3634	565252.1	4222444	7.99E-06	9.76E-06	5.15E-07	1.83E-05	4.24E-06	1.07E-05	5.15E-07	1.55E-05	1.05E-06	1.91E-06	1.68E-07	3.13E-06	8.12E-07	1.06E-06	7.68E-08	1.95E-06
3635	565245.6	4222433	8.27E-06	1.01E-05	5.32E-07	1.89E-05	4.38E-06	1.11E-05	5.32E-07	1.60E-05	1.09E-06	1.97E-06	1.74E-07	3.23E-06	8.40E-07	1.10E-06	7.94E-08	2.02E-06
3636	565239	4222421	8.53E-06	1.04E-05	5.49E-07	1.95E-05	4.52E-06	1.14E-05	5.49E-07	1.65E-05	1.12E-06	2.03E-06	1.80E-07	3.33E-06	8.66E-07	1.13E-06	8.19E-08	2.08E-06
3637	565232.4	4222410	8.78E-06	1.07E-05	5.65E-07	2.01E-05	4.65E-06	1.18E-05	5.65E-07	1.70E-05	1.15E-06	2.09E-06	1.85E-07	3.43E-06	8.92E-07	1.17E-06	8.44E-08	2.14E-06
3638	565255.8	4222460	7.27E-06	8.87E-06	4.68E-07	1.66E-05	3.85E-06	9.73E-06	4.68E-07	1.40E-05	9.54E-07	1.73E-06	1.53E-07	2.84E-06	7.38E-07	9.65E-07	6.98E-08	1.77E-06
3639	565246	4222452	7.22E-06	8.82E-06	4.65E-07	1.65E-05	3.83E-06	9.67E-06	4.65E-07	1.40E-05	9.49E-07	1.72E-06	1.52E-07	2.82E-06	7.34E-07	9.60E-07	6.94E-08	1.76E-06
3640	565239.4	4222440	7.53E-06	9.2E-06	4.85E-07	1.72E-05	3.99E-06	1.01E-05	4.85E-07	1.46E-05	9.89E-07	1.80E-06	1.59E-07	2.94E-06	7.65E-07	1.00E-06	7.23E-08	1.84E-06
3641	565232.7	4222429	7.8E-06	9.53E-06	5.02E-07	1.78E-05	4.14E-06	1.04E-05	5.02E-07	1.51E-05	1.03E-06	1.86E-06	1.64E-07	3.05E-06	7.93E-07	1.04E-06	7.50E-08	1.91E-06
3642	565226.1	4222417	8.06E-06	9.85E-06	5.19E-07	1.84E-05	4.28E-06	1.08E-05	5.19E-07	1.56E-05	1.06E-06	1.92E-06	1.70E-07	3.15E-06	8.20E-07	1.07E-06	7.75E-08	1.97E-06
3643	565256.3	4222469	6.67E-06	8.14E-06	4.29E-07	1.52E-05	3.54E-06	8.93E-06	4.29E-07	1.29E-05	8.76E-07	1.59E-06	1.40E-07	2.61E-06	6.78E-07	8.86E-07	6.41E-08	1.63E-06
3644	565239.9	4222460	6.52E-06	7.96E-06	4.20E-07	1.49E-05	3.46E-06	8.73E-06	4.20E-07	1.26E-05	8.56E-07	1.56E-06	1.37E-07	2.55E-06	6.62E-07	8.66E-07	6.26E-08	1.59E-06
3645	565233.2	4222448	6.85E-06	8.37E-06	4.41E-07	1.57E-05	3.63E-06	9.17E-06	4.41E-07	1.32E-05	9.00E-07	1.63E-06	1.44E-07	2.68E-06	6.96E-07	9.10E-07	6.58E-08	1.67E-06
3646	565226.5	4222436	7.14E-06	8.72E-06	4.60E-07	1.63E-05	3.79E-06	9.56E-06	4.60E-07	1.38E-05	9.38E-07	1.70E-06	1.50E-07	2.79E-06	7.26E-07	9.49E-07	6.86E-08	1.74E-06
3647	565219.8	4222424	7.41E-06	9.05E-06	4.77E-07	1.69E-05	3.93E-06	9.92E-06	4.77E-07	1.43E-05	9.73E-07	1.77E-06	1.56E-07	2.90E-06	7.53E-07	9.84E-07	7.12E-08	1.81E-06
3648	565213.1	4222412	7.65E-06	9.35E-06	4.93E-07	1.75E-05	4.06E-06	1.02E-05	4.93E-07	1.48E-05	1.00E-06	1.83E-06	1.61E-07	2.99E-06	7.78E-07	1.02E-06	7.35E-08	1.87E-06
3649	565257	4222479	6.07E-06	7.42E-06	3.91E-07	1.39E-05	3.22E-06	8.13E-06	3.91E-07	1.17E-05	7.97E-07	1.45E-06	1.28E-07	2.37E-06	6.17E-07	8.07E-07	5.83E-08	1.48E-06
3650	565243.8	4222475	5.81E-06	7.1E-06	3.74E-07	1.33E-05	3.08E-06	7.78E-06	3.74E-07	1.12E-05	7.63E-07	1.39E-06	1.22E-07	2.27E-06	5.91E-07	7.72E-07	5.58E-08	1.42E-06
3651	565233.8	4222467	5.88E-06	7.18E-06	3.79E-07	1.34E-05	3.12E-06	7.88E-06	3.79E-07	1.14E-05	7.73E-07	1.40E-06	1.24E-07	2.30E-06	5.98E-07	7.81E-07	5.65E-08	1.44E-06
3652	565227	4222456	6.23E-06	7.61E-06	4.01E-07	1.42E-05	3.30E-06	8.34E-06	4.01E-07	1.20E-05	8.18E-07	1.49E-06	1.31E-07	2.44E-06	6.33E-07	8.27E-07	5.98E-08	1.52E-06
3653	565220.3	4222444	6.53E-06	7.98E-06	4.21E-07	1.49E-05	3.46E-06	8.75E-06	4.21E-07	1.26E-05	8.58E-07	1.56E-06	1.38E-07	2.55E-06	6.64E-07	8.68E-07	6.28E-08	1.60E-06
3654	565213.5	4222432	6.81E-06	8.32E-06	4.38E-07	1.56E-05	3.61E-06	9.12E-06	4.38E-07	1.32E-05	8.94E-07	1.63E-06	1.43E-07	2.66E-06	6.92E-07	9.05E-07	6.54E-08	1.66E-06
3655	565206.7	4222420	7.06E-06	8.62E-06	4.54E-07	1.61E-05	3.74E-06	9.45E-06	4.54E-07	1.36E-05	9.27E-07	1.68E-06	1.49E-07	2.76E-06	7.17E-07	9.38E-07	6.78E-08	1.72E-06
3656	565257.7	4222489	5.49E-06	6.71E-06	3.53E-07	1.25E-05	2.91E-06	7.35E-06	3.53E-07	1.06E-05	7.21E-07	1.31E-06	1.16E-07	2.15E-06	5.58E-07	7.29E-07	5.28E-08	1.34E-06
3657	565244.4	4222485	5.31E-06	6.48E-06	3.41E-07	1.21E-05	2.81E-06	7.10E-06	3.41E-07	1.03E-05	6.97E-07	1.27E-06	1.12E-07	2.07E-06	5.39E-07	7.05E-07	5.10E-08	1.29E-06
3658	565227.7	4222475	5.32E-06	6.5E-06	3.42E-07	1.22E-05	2.82E-06	7.12E-06	3.42E-07	1.03E-05	6.99E-07	1.27E-06	1.12E-07	2.08E-06	5.41E-07	7.07E-07	5.11E-08	1.30E-06
3659	565220.9	4222463	5.67E-06	6.92E-06	3.65E-07	1.30E-05	3.00E-06	7.59E-06	3.65E-07	1.10E-05	7.44E-07	1.35E-06	1.19E-07	2.22E-06	5.76E-07	7.53E-07	5.44E-08	1.38E-06
3660	565214.1	4222451	5.98E-06	7.3E-06	3.85E-07	1.37E-05	3.17E-06	8.01E-06	3.85E-07	1.16E-05	7.85E-07	1.43E-06	1.26E-07	2.34E-06	6.08E-07	7.94E-07	5.75E-08	1.46E-06
3661	565200.5	4222427	6.51E-06	7.95E-06	4.19E-07	1.49E-05	3.45E-06	8.72E-06	4.19E-07	1.26E-05	8.55E-07	1.55E-06	1.37E-07	2.55E-06	6.62E-07	8.65E-07	6.26E-08	1.59E-06
3662	565193.7	4222415	6.73E-06	8.22E-06	4.33E-07	1.54E-05	3.57E-06	9.01E-06	4.33E-07	1.30E-05	8.84E-07	1.61E-06	1.42E-07	2.63E-06	6.84E-07	8.94E-07	6.47E-08	1.64E-06
3663	565258.4	4222498	4.94E-06	6.03E-06	3.18E-07	1.13E-05	2.62E-06	6.62E-06	3.18E-07	9.55E-06	6.49E-07	1.18E-06	1.04E-07	1.93E-06	5.02E-07	6.56E-07	4.75E-08	1.21E-06
3664	565245.1	4222495	4.82E-06	5.89E-06	3.10E-07	1.10E-05	2.56E-06	6.46E-06	3.10E-07	9.33E-06	6.33E-07	1.15E-06	1.02E-07	1.89E-06	4.90E-07	6.41E-07	4.63E-08	1.18E-06
3665	565214.8	4222471	5.16E-06	6.31E-06	3.32E-07	1.18E-05	2.74E-06	6.91E-06	3.32E-07	9.98E-06	6.78E-07	1.23E-06	1.09E-07	2.02E-06	5.25E-07	6.86E-07	4.96E-08	1.26E-06
3666	565207.9	4222459	5.48E-06	6.69E-06	3.52E-07	1.25E-05	2.90E-06	7.33E-06	3.52E-07	1.06E-05	7.19E-07	1.31E-06	1.15E-07	2.14E-06	5.57E-07	7.27E-07	5.26E-08	1.34E-06
3667	565187.4	4222422	6.23E-06	7.61E-06	4.01E-07	1.42E-05	3.31E-06	8.35E-06	4.01E-07	1.21E-05	8.19E-07	1.49E-06	1.31E-07	2.44E-06	6.34E-07	8.28E-07	5.99E-08	1.52E-06
3668	565259.2	4222508	4.42E-06	5.4E-06	2.85E-07	1.01E-05	2.35E-06	5.92E-06	2.85E-07	8.56E-06	5.81E-07	1.06E-06	9.32E-08	1.73E-06	4.50E-07	5.88E-07	4.25E-08	1.08E-06
3669	565245.8	4222504	4.37E-06	5.33E-06	2.81E-07	9.98E-06	2.31E-06	5.85E-06	2.81E-07	8.44E-06	5.73E-07	1.04E-06	9.20E-08	1.71E-06	4.44E-07	5.80E-07	4.20E-08	1.07E-06
3670	565208.6	4222478	4.71E-06	5.76E-06	3.03E-07	1.08E-05	2.50E-06	6.31E-06	3.03E-07	9.11E-06	6.19E-07	1.12E-06	9.93E-08	1.84E-06	4.79E-07	6.26E-07	4.53E-08	1.15E-06
3671	565201.7	4222466	5.02E-06	6.13E-06	3.23E-07	1.15E-05	2.66E-06	6.72E-06	3.23E-07	9.70E-06	6.59E-07	1.20E-06	1.06E-07	1.96E-06	5.10E-07	6.67E-07	4.82E-08	1.22E-06
3672	565181.1	4222430	5.78E-06	7.06E-06	3.72E-07	1.32E-05	3.06E-06	7.73E-06	3.72E-07	1.12E-05	7.59E-07	1.38E-06	1.22E-07	2.26E-06	5.87E-07	7.67E-07	5.55E-08	1.41E-06
3673	565174.2	4222418	5.97E-06	7.29E-06	3.84E-07	1.36E-05	3.17E-06	7.99E-06	3.84E-07	1.15E-05	7.84E-07	1.42E-06	1.26E-07	2.33E-06	6.07E-07	7.93E-07	5.74E-08	1.46E-06
3674	565260.1	4222518	3.95E-06	4.83E-06	2.54E-07	9.03E-06	2.09E-06	5.29E-06	2.54E-07	7.64E-06	5.19E-07	9.43E-07	8.32E-08	1.54E-06	4.02E-07	5.25E-07	3.80E-08	9.64E-07
3675	565246.6	4222514	3.94E-06	4.81E-06	2.54E-07	9.00E-06	2.09E-06	5.27E-06	2.54E-07	7.62E-06	5.17E-07	9.40E-07	8.30E-08	1.54E-06	4.00E-07	5.23E-07	3.78E-08	9.61E-07
3676	565233.1	4222510	3.91E-06	4.77E-06	2.52E-07	8.93E-06	2.07E-06	5.23E-06	2.52E-07	7.56E-06	5.13E-07	9.33E-07	8.23E-08	1.53E-06	3.97E-07	5.19E-07	3.76E-08	9.54E-07
3677	565219.6	4222506	3.86E-06	4.72E-06	2.49E-07	8.83E-06	2.05E-06	5.17E-06	2.49E-07	7.47E-06	5.07E-07	9.21E-07	8.13E-08	1.51E-06	3.92E-07	5.13E-07	3.71E-08	9.42E-07
3678	565209.4	4222498	3.99E-06	4.88E-06	2.57E-07	9.13E-06	2.12E-06	5.35E-06	2.57E-07	7.72E-06	5.24E-07	9.53E-07	8.41E-08	1.56E-06	4.06E-07	5.31E-07	3.84E-08	9.75E-07
3679	565195.6	4222474	4.61E-06	5.62E-06	2.96E-07	1.05E-05	2.44E-06	6.17E-06	2.96E-07	8.90E-06	6.05E-07	1.10E-06	9.70E-08	1.80E-06	4.68E-07	6.12E-07	4.42E-08	1.12E-06
3680	565181.8	4222450	5.13E-06	6.27E-06	3.30E-07	1.17E-05	2.72E-06	6.87E-06	3.30E-07	9.92E-06	6.74E-07	1.22E-06	1.08E-07	2.01E-06	5.21E-07	6.81E-07	4.93E-08	1.25E-06
3681	565174.9	4222437	5.36E-06	6.54E-06	3.45E-07	1.22E-05	2.84E-06	7.17E-06	3.45E-07	1.04E-05	7.03E-07	1.28E-06	1.13E-07	2.09E-06	5.44E-07	7.11E-07	5.15E-08	1.31E-06
3682	565167.9	4222425	5.55E-06	6.78E-06	3.57E-07	1.27E-05	2.94E-06	7.43E-06	3.57E-07	1.07E-05	7.29E-07	1.32E-06	1.17E-07	2.17E-06	5.64E-07	7.38E-07	5.33E-08	1.36E-06
3683	565274.5	4222531	3.48E-06	4.25E-06	2.24E-07	7.96E-06	1.85E-06	4.66E-06	2.24E-07	6.73E-06	4.57E-07	8.31E-07	7.34E-08	1.36E-06	3.54E-07	4.63E-07	3.35E-08	8.50E-07
3684	565261	4222527	3.53E-06	4.31E-06	2.27E-07	8.06E-06	1.87E-06	4.72E-06	2.27E-07	6.82E-06	4.63E-07	8.41E-07	7.43E-08	1.38E-06	3.58E-07	4.68E-07	3.39E-08	8.61E-07
3685	565247.4	4222524	3.55E-06	4.33E-06	2.28E-07	8.10E-06	1.88E-06	4.75E-06	2.28E-07	6.85E-06	4.66E-07	8.46E-07	7.47E-08	1.39E-06	3.60E-07	4.71E-07	3.41E-08	8.65E-07
3686	565233.9	4222520	3.55E-06	4.33E-06	2.28E-07	8.11E-06	1.88E-06	4.75E-06	2.28E-07	6.86E-06	4.66E-07	8.46E-07	7.47E-08	1.39E-06	3.61E-07	4.71E-07	3.41E-08	8.66E-07
3687	565220.3	4222516	3.53E-06	4.31E-06	2.27E-07	8.07E-06	1.87E-06	4.73E-06	2.27E-07	6.83E-06	4.64E-07	8.42E-07	7.43E-08	1.38E-06	3.59E-07	4.69E-07	3.39E-08	8.62E-07
3688	565203.3	4222506	3.65E-06	4.45E-06	2.35E-07	8.33E-06	1.93E-06	4.88E-06	2.35E-07	7.05E-06	4.79E-07	8.70E-07	7.68E-08	1.43E-06	3.71E-07	4.84E-07	3.50E-08	8.90E-07
3689	565182.5	4222469	4.49E-06	5.49E-06	2.89E-07	1.03E-05	2.38E-06	6.02E-06	2.89E-07	8.69E-06	5.90E-07	1.07E-06	9.47E-08	1.76E-06	4.57E-07	5.97E-07	4.32E-08	1.10E-06
3690	565175.6	4222457	4.74E-06	5.79E-06	3.05E-07	1.08E-05	2.51E-06	6.35E-06	3.05E-07	9.17E-06	6.23E-07	1.13E-06	9.99E-08	1.85E-06	4.82E-07	6.30E-07	4.56E-08	1.16E-06
3691	565168.6	4222445	4.97E-06	6.07E-06	3.20E-07	1.14E-05	2.63E-06	6.65E-06	3.20E-07	9.60E-06	6.52E-07	1.19E-06	1.05E-07	1.94E-06	5.05E-07	6.60E-07	4.77E-08	1.21E-06
3692	565161.7	4222433	5.16E-06	6.31E-06	3.32E-07	1.18E-05	2.74E-06	6.92E-06	3.32E-07	9.99E-06	6.78E-07	1.23E-06	1.09E-07	2.02E-06	5.25E-07	6.86E-07	4.96E-08	1.26E-06
3693	565154.7	4222420	5.33E-06	6.51E-06	3.43E-07	1.22E-05	2.83E-06	7.14E-06	3.43E-07	1.03E-05	7.01E-07	1.27E-06	1.12E-07	2.09E-06	5.42E-07	7.09E-07	5.12E-08	1.30E-06
3694	565275.5	4222541	3.08E-06	3.77E-06	1.99E-07	7.05E-06	1.64E-06	4.13E-06	1.99E-07	5.96E-06	4.05E-07	7.36E-07	6.50E-08	1.21E-06	3.13E-07	4.10E-07	2.96E-08	7.53E-07
3695	565261.9	4222537	3.15E-06	3.84E-06	2.02E-07	7.19E-06	1.67E-06	4.21E-06	2.02E-07	6.08E-06	4.13E-07	7.51E-07	6.63E-08	1.23E-06	3.20E-07	4.18E-07	3.02E-08	7.68E-07
3696	565248.3	4222533	3.19E-06	3.89E-06	2.05E-07	7.29E-06	1.69E-06	4.27E-06	2.05E-07	6.16E-06	4.19E-07	7.61E-07	6.71E-08	1.25E-06	3.24E-07	4.23E-07	3.06E-08	7.78E-07
3697	565234.7	4222529	3.21E-06	3.93E-06	2.07E-07	7.35E-06	1.70E-06	4.30E-06	2.07E-07	6.22E-06	4.22E-07	7.67E-07	6.77E-08	1.26E-06	3.27E-07	4.27E-07	3.09E-08	7.85E-07
3698	565221.1	4222526	3.22E-06	3.94E-06	2.07E-07	7.36E-06	1.71E-06	4.31E-06	2.07E-07	6.23E-06	4.23E-07	7.69E-07	6.79E-08	1.26E-06	3.27E-07	4.28E-07	3.10E-08	7.86E-07
3699	565207.5	4222522	3.21E-06	3.92E-06	2.07E-07	7.33E-06	1.70E-06	4.30E-06	2.07E-07	6.20E-06	4.21E-07	7.66E-07	6.76E-08	1.25E-06	3.26E-07	4.26E-07	3.08E-08	7.83E-07
3700	565183.3	4222489	3.89E-06	4.75E-06	2.50E-07	8.89E-06	2.06E-06	5.21E-06	2.50E-07	7.52E-06	5.11E-07	9.28E-07	8.19E-08	1.52E-06	3.95E-07	5.17E-07	3.74E-08	9.49E-07
3701	565176.4	4222477	4.14E-06	5.06E-06	2.67E-07	9.47E-06	2.20E-06	5.55E-06	2.67E-07	8.01E-06	5.44E-07	9.89E-07	8.73E-08	1.62E-06	4.21E-07	5.51E-07	3.98E-08	1.01E-06
3702	565169.4	4222465	4.39E-06	5.36E-06	2.82E-07	1.00E-05	2.33E-06	5.87E-06	2.82E-07	8.48E-06	5.76E-07	1.05E-06	9.24E-08	1.72E-06	4.46E-07	5.83E-07	4.21E-08	1.07E-06
3703	565162.4	4222452	4.61E-06	5.63E-06	2.97E-07	1.05E-05	2.44E-06	6.17E-06	2.97E-07	8.91E-06	6.05E-07	1.10E-06	9.71E-08	1.80E-06	4.68E-07	6.12E-07	4.43E-08	1.13E-06
3704	565155.5	4222440	4.81E-06	5.87E-06	3.09E-07	1.10E-05	2.55E-06	6.43E-06	3.09E-07	9.29E-06	6.31E-07	1.15E-06	1.01E-07	1.88E-06	4.88E-07	6.38E-07	4.62E-08	1.17E-06
3705	565148.5	4222428	4.98E-06	6.08E-06	3.20E-07	1.14E-05	2.64E-06	6.67E-06	3.20E-07	9.63E-06	6.54E-07	1.19E-06	1.05E-07	1.95E-06	5.06E-07	6.61E-07	4.78E-08	1.22E-06
3706	565276.4	4222551	2.74E-06	3.34E-06	1.76E-07	6.26E-06	1.45E-06	3.66E-06	1.76E-07	5.29E-06	3.59E-07	6.53E-07	5.76E-08	1.07E-06	2.78E-07	3.64E-07	2.63E-08	6.68E-07
3707	565262.8	4222547	2.81E-06	3.43E-06	1.81E-07	6.42E-06	1.49E-06	3.76E-06	1.81E-07	5.43E-06	3.69E-07	6.70E-07	5.92E-08	1.10E-06	2.86E-07	3.73E-07	2.70E-08	6.86E-07
3708	565249.2	4222543	2.87E-06	3.5E-06	1.84E-07	6.55E-06	1.52E-06	3.84E-06	1.84E-07	5.54E-06	3.76E-07	6.84E-07	6.04E-08	1.12E-06	2.91E-07	3.81E-07	2.75E-08	6.99E-07
3709	565235.5	4222539	2.91E-06	3.55E-06	1.87E-07	6.65E-06	1.54E-06	3.90E-06	1.87E-07	5.63E-06	3.82E-07	6.94E-07	6.13E-08	1.14E-06	2.96E-07	3.87E-07	2.80E-08	7.10E-07
3710	565221.9	4222535	2.94E-06	3.59E-06	1.89E-07	6.71E-06	1.56E-06	3.93E-06	1.89E-07	5.68E-06	3.86E-07	7.00E-07	6.18E-08	1.15E-06	2.98E-07	3.90E-07	2.82E-08	7.17E-07
3711	565208.3	4222531	2.94E-06	3.59E-06	1.89E-07	6.73E-06	1.56E-06	3.94E-06	1.89E-07	5.69E-06	3.86E-07	7.02E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.18E-07
3712	565177.2	4222497	3.58E-06	4.38E-06	2.31E-07	8.19E-06	1.90E-06	4.80E-06	2.31E-07	6.93E-06	4.71E-07	8.55E-07	7.55E-08	1.40E-06	3.64E-07	4.76E-07	3.44E-08	8.74E-07
3713	565170.2	4222484	3.83E-06	4.67E-06	2.46E-07	8.74E-06	2.03E-06	5.12E-06	2.46E-07	7.40E-06	5.02E-07	9.13E-07	8.06E-08	1.50E-06	3.89E-07	5.08E-07	3.68E-08	9.34E-07
3714	565163.2	4222472	4.06E-06	4.96E-06	2.61E-07	9.28E-06	2.15E-06	5.44E-06	2.61E-07	7.85E-06	5.33E-07	9.69E-07	8.55E-08	1.59E-06	4.13E-07	5.39E-07	3.90E-08	9.91E-07
3715	565156.2	4222460	4.28E-06	5.22E-06	2.75E-07	9.78E-06	2.27E-06	5.73E-06	2.75E-07	8.27E-06	5.62E-07	1.02E-06	9.01E-08	1.67E-06	4.35E-07	5.68E-07	4.11E-08	1.04E-06
3716	565149.2	4222448	4.47E-06	5.46E-06	2.88E-07	1.02E-05	2.37E-06	5.99E-06	2.88E-07	8.65E-06	5.87E-07	1.07E-06	9.42E-08	1.75E-06	4.55E-07	5.94E-07	4.30E-08	1.09E-06
3717	565142.3	4222435	4.65E-06	5.68E-06	2.99E-07	1.06E-05	2.46E-06	6.22E-06	2.99E-07	8.99E-06	6.10E-07	1.11E-06	9.79E-08	1.82E-06	4.72E-07	6.17E-07	4.47E-08	1.13E-06
3718	565135.3	4222423	4.8E-06	5.86E-06	3.09E-07	1.10E-05	2.54E-06	6.42E-06	3.09E-07	9.28E-06	6.30E-07	1.14E-06	1.01E-07	1.88E-06	4.88E-07	6.37E-07	4.61E-08	1.17E-06
3719	565277.4	4222560	2.44E-06	2.97E-06	1.57E-07	5.57E-06	1.29E-06	3.26E-06	1.57E-07	4.71E-06	3.20E-07	5.81E-07	5.13E-08	9.52E-07	2.47E-07	3.24E-07	2.34E-08	5.94E-07
3720	565263.8	4222557	2.51E-06	3.07E-06	1.62E-07	5.75E-06	1.33E-06	3.37E-06	1.62E-07	4.86E-06	3.30E-07	6.00E-07	5.29E-08	9.83E-07	2.55E-07	3.34E-07	2.42E-08	6.14E-07
3721	565250.1	4222553	2.58E-06	3.15E-06	1.66E-07	5.89E-06	1.37E-06	3.45E-06	1.66E-07	4.98E-06	3.39E-07	6.15E-07	5.43E-08	1.01E-06	2.62E-07	3.42E-07	2.48E-08	6.29E-07
3722	565222.8	4222545	2.67E-06	3.27E-06	1.72E-07	6.11E-06	1.42E-06	3.58E-06	1.72E-07	5.17E-06	3.51E-07	6.38E-07	5.63E-08	1.05E-06	2.72E-07	3.55E-07	2.57E-08	6.53E-07
3723	565209.1	4222541	2.69E-06	3.29E-06	1.73E-07	6.16E-06	1.43E-06	3.61E-06	1.73E-07	5.21E-06	3.54E-07	6.43E-07	5.67E-08	1.05E-06	2.74E-07	3.58E-07	2.59E-08	6.58E-07
3724	565178.1	4222517	3.07E-06	3.75E-06	1.98E-07	7.01E-06	1.63E-06	4.11E-06	1.98E-07	5.93E-06	4.03E-07	7.32E-07	6.46E-08	1.20E-06	3.12E-07	4.08E-07	2.95E-08	7.49E-07
3725	565171.1	4222504	3.31E-06	4.04E-06

3738	565165.7	4222514	3.04E-06	3.71E-06	1.95E-07	6.94E-06	1.61E-06	4.07E-06	1.95E-07	5.87E-06	3.99E-07	7.25E-07	6.40E-08	1.19E-06	3.09E-07	4.03E-07	2.92E-08	7.41E-07
3739	565159	4222502	3.25E-06	3.96E-06	2.09E-07	7.42E-06	1.72E-06	4.35E-06	2.09E-07	6.28E-06	4.26E-07	7.74E-07	6.84E-08	1.27E-06	3.30E-07	4.31E-07	3.12E-08	7.92E-07
3740	565152.3	4222490	3.45E-06	4.21E-06	2.22E-07	7.88E-06	1.83E-06	4.62E-06	2.22E-07	6.67E-06	4.53E-07	8.23E-07	7.27E-08	1.35E-06	3.51E-07	4.58E-07	3.31E-08	8.42E-07
3741	565145.6	4222478	3.65E-06	4.45E-06	2.35E-07	8.33E-06	1.93E-06	4.88E-06	2.35E-07	7.05E-06	4.79E-07	8.70E-07	7.68E-08	1.43E-06	3.70E-07	4.84E-07	3.50E-08	8.90E-07
3742	565138.9	4222466	3.83E-06	4.68E-06	2.46E-07	8.75E-06	2.03E-06	5.13E-06	2.46E-07	7.40E-06	5.03E-07	9.13E-07	8.06E-08	1.50E-06	3.89E-07	5.09E-07	3.68E-08	9.34E-07
3743	565132.2	4222454	3.99E-06	4.88E-06	2.57E-07	9.13E-06	2.12E-06	5.35E-06	2.57E-07	7.72E-06	5.25E-07	9.53E-07	8.41E-08	1.56E-06	4.06E-07	5.31E-07	3.84E-08	9.75E-07
3744	565125.5	4222443	4.15E-06	5.07E-06	2.67E-07	9.49E-06	2.20E-06	5.56E-06	2.67E-07	8.03E-06	5.45E-07	9.90E-07	8.74E-08	1.62E-06	4.22E-07	5.51E-07	3.99E-08	1.01E-06
3745	565268.4	4222577	2.02E-06	2.46E-06	1.30E-07	4.61E-06	1.07E-06	2.70E-06	1.30E-07	3.90E-06	2.65E-07	4.81E-07	4.24E-08	7.88E-07	2.05E-07	2.68E-07	1.94E-08	4.92E-07
3746	565255.3	4222573	2.08E-06	2.54E-06	1.34E-07	4.76E-06	1.10E-06	2.79E-06	1.34E-07	4.03E-06	2.73E-07	4.97E-07	4.39E-08	8.14E-07	2.12E-07	2.77E-07	2.00E-08	5.08E-07
3747	565173.1	4222545	2.42E-06	2.95E-06	1.56E-07	5.52E-06	1.28E-06	3.24E-06	1.56E-07	4.67E-06	3.17E-07	5.77E-07	5.09E-08	9.45E-07	2.46E-07	3.21E-07	2.32E-08	5.90E-07
3748	565166.3	4222533	2.62E-06	3.2E-06	1.68E-07	5.98E-06	1.39E-06	3.50E-06	1.68E-07	5.06E-06	3.44E-07	6.24E-07	5.51E-08	1.02E-06	2.66E-07	3.48E-07	2.51E-08	6.39E-07
3749	565159.6	4222521	2.82E-06	3.44E-06	1.81E-07	6.44E-06	1.49E-06	3.77E-06	1.81E-07	5.45E-06	3.70E-07	6.72E-07	5.93E-08	1.10E-06	2.86E-07	3.74E-07	2.71E-08	6.88E-07
3750	565152.9	4222509	3.01E-06	3.68E-06	1.94E-07	6.89E-06	1.60E-06	4.03E-06	1.94E-07	5.83E-06	3.96E-07	7.19E-07	6.35E-08	1.18E-06	3.06E-07	4.00E-07	2.90E-08	7.36E-07
3751	565146.1	4222497	3.21E-06	3.92E-06	2.06E-07	7.33E-06	1.70E-06	4.29E-06	2.06E-07	6.20E-06	4.21E-07	7.65E-07	6.76E-08	1.25E-06	3.26E-07	4.26E-07	3.08E-08	7.83E-07
3752	565139.4	4222486	3.4E-06	4.15E-06	2.19E-07	7.76E-06	1.80E-06	4.55E-06	2.19E-07	6.57E-06	4.46E-07	8.10E-07	7.15E-08	1.33E-06	3.45E-07	4.51E-07	3.26E-08	8.29E-07
3753	565132.7	4222474	3.57E-06	4.36E-06	2.30E-07	8.17E-06	1.89E-06	4.78E-06	2.30E-07	6.91E-06	4.69E-07	8.52E-07	7.52E-08	1.40E-06	3.63E-07	4.75E-07	3.43E-08	8.72E-07
3754	565125.9	4222462	3.74E-06	4.56E-06	2.41E-07	8.54E-06	1.98E-06	5.00E-06	2.41E-07	7.22E-06	4.91E-07	8.92E-07	7.87E-08	1.46E-06	3.80E-07	4.96E-07	3.59E-08	9.12E-07
3755	565105.7	4222426	4.14E-06	5.06E-06	2.67E-07	9.47E-06	2.20E-06	5.55E-06	2.67E-07	8.01E-06	5.44E-07	9.88E-07	8.72E-08	1.62E-06	4.21E-07	5.50E-07	3.98E-08	1.01E-06
3756	565269.3	4222587	1.82E-06	2.23E-06	1.17E-07	4.16E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
3757	565256.1	4222583	1.89E-06	2.3E-06	1.21E-07	4.31E-06	1.00E-06	2.53E-06	1.21E-07	3.65E-06	2.48E-07	4.50E-07	3.97E-08	7.37E-07	1.92E-07	2.51E-07	1.81E-08	4.60E-07
3758	565242.9	4222579	1.94E-06	2.38E-06	1.25E-07	4.45E-06	1.03E-06	2.60E-06	1.25E-07	3.76E-06	2.55E-07	4.64E-07	4.10E-08	7.60E-07	1.98E-07	2.58E-07	1.87E-08	4.75E-07
3759	565229.7	4222575	2E-06	2.44E-06	1.29E-07	4.57E-06	1.06E-06	2.67E-06	1.29E-07	3.86E-06	2.62E-07	4.77E-07	4.21E-08	7.81E-07	2.03E-07	2.65E-07	1.92E-08	4.88E-07
3760	565216.5	4222572	2.05E-06	2.5E-06	1.32E-07	4.67E-06	1.08E-06	2.74E-06	1.32E-07	3.95E-06	2.69E-07	4.88E-07	4.31E-08	8.00E-07	2.08E-07	2.72E-07	1.97E-08	4.99E-07
3761	565167	4222553	2.25E-06	2.74E-06	1.45E-07	5.13E-06	1.19E-06	3.01E-06	1.45E-07	4.34E-06	2.95E-07	5.36E-07	4.73E-08	8.78E-07	2.28E-07	2.98E-07	2.16E-08	5.48E-07
3762	565160.2	4222541	2.43E-06	2.97E-06	1.57E-07	5.56E-06	1.29E-06	3.26E-06	1.57E-07	4.70E-06	3.19E-07	5.80E-07	5.12E-08	9.51E-07	2.47E-07	3.23E-07	2.34E-08	5.94E-07
3763	565153.5	4222529	2.62E-06	3.2E-06	1.69E-07	5.99E-06	1.39E-06	3.51E-06	1.69E-07	5.06E-06	3.44E-07	6.25E-07	5.52E-08	1.02E-06	2.66E-07	3.48E-07	2.52E-08	6.39E-07
3764	565146.7	4222517	2.8E-06	3.42E-06	1.80E-07	6.40E-06	1.49E-06	3.75E-06	1.80E-07	5.42E-06	3.68E-07	6.68E-07	5.90E-08	1.10E-06	2.85E-07	3.72E-07	2.69E-08	6.84E-07
3765	565139.9	4222505	2.99E-06	3.65E-06	1.92E-07	6.83E-06	1.58E-06	4.00E-06	1.92E-07	5.77E-06	3.92E-07	7.12E-07	6.29E-08	1.17E-06	3.03E-07	3.97E-07	2.87E-08	7.29E-07
3766	565133.2	4222493	3.17E-06	3.87E-06	2.04E-07	7.24E-06	1.68E-06	4.24E-06	2.04E-07	6.12E-06	4.16E-07	7.56E-07	6.67E-08	1.24E-06	3.22E-07	4.21E-07	3.04E-08	7.73E-07
3767	565126.4	4222481	3.34E-06	4.08E-06	2.15E-07	7.63E-06	1.77E-06	4.47E-06	2.15E-07	6.46E-06	4.39E-07	7.97E-07	7.03E-08	1.31E-06	3.39E-07	4.44E-07	3.21E-08	8.15E-07
3768	565106.1	4222445	3.78E-06	4.62E-06	2.43E-07	8.64E-06	2.00E-06	5.06E-06	2.43E-07	7.31E-06	4.97E-07	9.02E-07	7.96E-08	1.48E-06	3.84E-07	5.02E-07	3.63E-08	9.23E-07
3769	565099.4	4222433	3.9E-06	4.76E-06	2.51E-07	8.91E-06	2.07E-06	5.22E-06	2.51E-07	7.54E-06	5.12E-07	9.30E-07	8.21E-08	1.52E-06	3.96E-07	5.18E-07	3.75E-08	9.52E-07
3770	565270.2	4222596	1.65E-06	2.02E-06	1.06E-07	3.78E-06	8.77E-07	2.21E-06	1.06E-07	3.20E-06	2.17E-07	3.95E-07	3.48E-08	6.47E-07	1.68E-07	2.20E-07	1.59E-08	4.04E-07
3771	565256.9	4222593	1.71E-06	2.09E-06	1.10E-07	3.92E-06	9.08E-07	2.29E-06	1.10E-07	3.31E-06	2.25E-07	4.09E-07	3.61E-08	6.70E-07	1.74E-07	2.28E-07	1.65E-08	4.18E-07
3772	565243.7	4222589	1.77E-06	2.16E-06	1.14E-07	4.05E-06	9.39E-07	2.37E-06	1.14E-07	3.42E-06	2.32E-07	4.22E-07	3.73E-08	6.92E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
3773	565230.5	4222585	1.82E-06	2.23E-06	1.17E-07	4.17E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.13E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
3774	565217.2	4222581	1.87E-06	2.28E-06	1.20E-07	4.28E-06	9.92E-07	2.50E-06	1.20E-07	3.62E-06	2.46E-07	4.46E-07	3.94E-08	7.31E-07	1.90E-07	2.49E-07	1.80E-08	4.57E-07
3775	565204	4222578	1.91E-06	2.34E-06	1.23E-07	4.38E-06	1.01E-06	2.56E-06	1.23E-07	3.70E-06	2.51E-07	4.57E-07	4.03E-08	7.48E-07	1.95E-07	2.54E-07	1.84E-08	4.67E-07
3776	565190.8	4222574	1.95E-06	2.38E-06	1.26E-07	4.46E-06	1.03E-06	2.61E-06	1.26E-07	3.77E-06	2.56E-07	4.66E-07	4.11E-08	7.63E-07	1.98E-07	2.59E-07	1.87E-08	4.76E-07
3777	565177.5	4222570	1.98E-06	2.42E-06	1.28E-07	4.53E-06	1.05E-06	2.65E-06	1.28E-07	3.83E-06	2.60E-07	4.73E-07	4.17E-08	7.75E-07	2.01E-07	2.63E-07	1.90E-08	4.84E-07
3778	565154.1	4222548	2.26E-06	2.77E-06	1.46E-07	5.18E-06	1.20E-06	3.03E-06	1.46E-07	4.38E-06	2.97E-07	5.40E-07	4.77E-08	8.85E-07	2.30E-07	3.01E-07	2.18E-08	5.53E-07
3779	565147.3	4222536	2.44E-06	2.98E-06	1.57E-07	5.58E-06	1.29E-06	3.27E-06	1.57E-07	4.72E-06	3.20E-07	5.82E-07	5.14E-08	9.54E-07	2.48E-07	3.24E-07	2.34E-08	5.95E-07
3780	565140.5	4222524	2.61E-06	3.19E-06	1.68E-07	5.97E-06	1.39E-06	3.50E-06	1.68E-07	5.05E-06	3.43E-07	6.23E-07	5.50E-08	1.02E-06	2.65E-07	3.47E-07	2.51E-08	6.38E-07
3781	565133.8	4222512	2.78E-06	3.4E-06	1.79E-07	6.36E-06	1.48E-06	3.73E-06	1.79E-07	5.38E-06	3.65E-07	6.64E-07	5.86E-08	1.09E-06	2.83E-07	3.70E-07	2.67E-08	6.79E-07
3782	565127	4222501	2.96E-06	3.61E-06	1.90E-07	6.76E-06	1.57E-06	3.96E-06	1.90E-07	5.72E-06	3.88E-07	7.06E-07	6.23E-08	1.16E-06	3.01E-07	3.93E-07	2.84E-08	7.22E-07
3783	565106.6	4222465	3.42E-06	4.18E-06	2.20E-07	7.82E-06	1.81E-06	4.58E-06	2.20E-07	6.62E-06	4.50E-07	8.17E-07	7.21E-08	1.34E-06	3.48E-07	4.55E-07	3.29E-08	8.35E-07
3784	565099.8	4222453	3.55E-06	4.34E-06	2.29E-07	8.12E-06	1.88E-06	4.76E-06	2.29E-07	6.87E-06	4.67E-07	8.48E-07	7.49E-08	1.39E-06	3.61E-07	4.72E-07	3.41E-08	8.68E-07
3785	565093.1	4222441	3.67E-06	4.48E-06	2.36E-07	8.39E-06	1.95E-06	4.92E-06	2.36E-07	7.10E-06	4.82E-07	8.76E-07	7.73E-08	1.44E-06	3.73E-07	4.88E-07	3.53E-08	8.96E-07
3786	565086.3	4222429	3.77E-06	4.6E-06	2.43E-07	8.62E-06	2.00E-06	5.05E-06	2.43E-07	7.29E-06	4.95E-07	9.00E-07	7.94E-08	1.47E-06	3.83E-07	5.01E-07	3.62E-08	9.20E-07
3787	565271.1	4222606	1.51E-06	1.84E-06	9.71E-08	3.45E-06	8.00E-07	2.02E-06	9.71E-08	2.92E-06	1.98E-07	3.60E-07	3.18E-08	5.90E-07	1.53E-07	2.00E-07	1.45E-08	3.68E-07
3788	565257.8	4222602	1.56E-06	1.91E-06	1.01E-07	3.57E-06	8.28E-07	2.09E-06	1.01E-07	3.02E-06	2.05E-07	3.73E-07	3.29E-08	6.11E-07	1.59E-07	2.08E-07	1.50E-08	3.81E-07
3789	565244.5	4222598	1.62E-06	1.97E-06	1.04E-07	3.69E-06	8.57E-07	2.16E-06	1.04E-07	3.12E-06	2.12E-07	3.86E-07	3.40E-08	6.32E-07	1.64E-07	2.15E-07	1.55E-08	3.94E-07
3790	565231.3	4222595	1.67E-06	2.04E-06	1.07E-07	3.81E-06	8.84E-07	2.23E-06	1.07E-07	3.22E-06	2.19E-07	3.98E-07	3.51E-08	6.52E-07	1.69E-07	2.21E-07	1.60E-08	4.07E-07
3791	565218	4222591	1.71E-06	2.09E-06	1.10E-07	3.92E-06	9.09E-07	2.30E-06	1.10E-07	3.31E-06	2.25E-07	4.09E-07	3.61E-08	6.70E-07	1.74E-07	2.28E-07	1.65E-08	4.18E-07
3792	565204.7	4222587	1.76E-06	2.15E-06	1.13E-07	4.02E-06	9.33E-07	2.36E-06	1.13E-07	3.40E-06	2.31E-07	4.20E-07	3.71E-08	6.88E-07	1.79E-07	2.34E-07	1.69E-08	4.29E-07
3793	565191.4	4222583	1.8E-06	2.2E-06	1.16E-07	4.11E-06	9.54E-07	2.41E-06	1.16E-07	3.48E-06	2.36E-07	4.29E-07	3.79E-08	7.03E-07	1.83E-07	2.39E-07	1.73E-08	4.39E-07
3794	565178.1	4222580	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.71E-07	2.45E-06	1.18E-07	3.54E-06	2.41E-07	4.37E-07	3.86E-08	7.16E-07	1.86E-07	2.43E-07	1.76E-08	4.47E-07
3795	565164.9	4222576	1.86E-06	2.27E-06	1.20E-07	4.25E-06	9.86E-07	2.49E-06	1.20E-07	3.60E-06	2.44E-07	4.44E-07	3.92E-08	7.27E-07	1.89E-07	2.47E-07	1.79E-08	4.54E-07
3796	565154.8	4222568	1.95E-06	2.38E-06	1.25E-07	4.46E-06	1.03E-06	2.61E-06	1.25E-07	3.77E-06	2.56E-07	4.65E-07	4.11E-08	7.62E-07	1.98E-07	2.59E-07	1.87E-08	4.76E-07
3797	565148	4222556	2.11E-06	2.58E-06	1.36E-07	4.83E-06	1.12E-06	2.83E-06	1.36E-07	4.08E-06	2.77E-07	5.04E-07	4.45E-08	8.26E-07	2.15E-07	2.81E-07	2.03E-08	5.16E-07
3798	565141.2	4222544	2.28E-06	2.78E-06	1.47E-07	5.21E-06	1.21E-06	3.05E-06	1.47E-07	4.40E-06	2.99E-07	5.44E-07	4.80E-08	8.91E-07	2.32E-07	3.03E-07	2.19E-08	5.56E-07
3799	565134.4	4222532	2.44E-06	2.98E-06	1.57E-07	5.58E-06	1.29E-06	3.27E-06	1.57E-07	4.72E-06	3.21E-07	5.82E-07	5.14E-08	9.54E-07	2.48E-07	3.24E-07	2.35E-08	5.96E-07
3800	565127.6	4222520	2.6E-06	3.18E-06	1.68E-07	5.95E-06	1.38E-06	3.49E-06	1.68E-07	5.03E-06	3.42E-07	6.21E-07	5.48E-08	1.02E-06	2.65E-07	3.46E-07	2.50E-08	6.35E-07
3801	565107.2	4222484	3.08E-06	3.76E-06	1.98E-07	7.03E-06	1.63E-06	4.12E-06	1.98E-07	5.95E-06	4.04E-07	7.34E-07	6.48E-08	1.20E-06	3.13E-07	4.09E-07	2.96E-08	7.51E-07
3802	565100.4	4222472	3.22E-06	3.93E-06	2.07E-07	7.35E-06	1.71E-06	4.31E-06	2.07E-07	6.22E-06	4.22E-07	7.67E-07	6.77E-08	1.26E-06	3.27E-07	4.27E-07	3.09E-08	7.85E-07
3803	565093.5	4222460	3.34E-06	4.08E-06	2.15E-07	7.64E-06	1.77E-06	4.48E-06	2.15E-07	6.47E-06	4.39E-07	7.98E-07	7.04E-08	1.31E-06	3.40E-07	4.44E-07	3.21E-08	8.16E-07
3804	565086.7	4222448	3.46E-06	4.23E-06	2.23E-07	7.91E-06	1.83E-06	4.63E-06	2.23E-07	6.69E-06	4.54E-07	8.26E-07	7.29E-08	1.35E-06	3.52E-07	4.60E-07	3.32E-08	8.45E-07
3805	565079.9	4222436	3.56E-06	4.35E-06	2.29E-07	8.14E-06	1.89E-06	4.77E-06	2.29E-07	6.88E-06	4.68E-07	8.49E-07	7.50E-08	1.39E-06	3.62E-07	4.73E-07	3.42E-08	8.69E-07
3806	565272	4222616	1.38E-06	1.69E-06	8.89E-08	3.16E-06	7.32E-07	1.85E-06	8.89E-08	2.67E-06	1.81E-07	3.29E-07	2.91E-08	5.40E-07	1.40E-07	1.83E-07	1.33E-08	3.37E-07
3807	565258.7	4222612	1.43E-06	1.75E-06	9.21E-08	3.27E-06	7.58E-07	1.91E-06	9.21E-08	2.77E-06	1.88E-07	3.41E-07	3.01E-08	5.59E-07	1.45E-07	1.90E-07	1.37E-08	3.49E-07
3808	565245.4	4222608	1.48E-06	1.81E-06	9.52E-08	3.38E-06	7.85E-07	1.98E-06	9.52E-08	2.86E-06	1.94E-07	3.53E-07	3.12E-08	5.79E-07	1.50E-07	1.97E-07	1.42E-08	3.61E-07
3809	565232.1	4222604	1.53E-06	1.87E-06	9.83E-08	3.49E-06	8.10E-07	2.05E-06	9.83E-08	2.95E-06	2.01E-07	3.64E-07	3.22E-08	5.97E-07	1.55E-07	2.03E-07	1.47E-08	3.73E-07
3810	565218.8	4222601	1.57E-06	1.92E-06	1.01E-07	3.60E-06	8.35E-07	2.11E-06	1.01E-07	3.04E-06	2.07E-07	3.76E-07	3.31E-08	6.15E-07	1.60E-07	2.09E-07	1.51E-08	3.84E-07
3811	565205.4	4222597	1.62E-06	1.98E-06	1.04E-07	3.70E-06	8.58E-07	2.17E-06	1.04E-07	3.13E-06	2.13E-07	3.86E-07	3.41E-08	6.33E-07	1.65E-07	2.15E-07	1.56E-08	3.95E-07
3812	565192.1	4222593	1.66E-06	2.03E-06	1.07E-07	3.79E-06	8.79E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.49E-08	6.49E-07	1.69E-07	2.20E-07	1.59E-08	4.05E-07
3813	565178.8	4222589	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.98E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.57E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
3814	565165.5	4222586	1.72E-06	2.1E-06	1.11E-07	3.94E-06	9.14E-07	2.31E-06	1.11E-07	3.33E-06	2.26E-07	4.11E-07	3.63E-08	6.74E-07	1.75E-07	2.29E-07	1.66E-08	4.21E-07
3815	565148.7	4222576	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.66E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.35E-07	3.84E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.45E-07
3816	565135.1	4222552	2.13E-06	2.6E-06	1.37E-07	4.87E-06	1.13E-06	2.85E-06	1.37E-07	4.12E-06	2.80E-07	5.08E-07	4.49E-08	8.33E-07	2.16E-07	2.83E-07	2.05E-08	5.20E-07
3817	565128.2	4222540	2.28E-06	2.79E-06	1.47E-07	5.22E-06	1.21E-06	3.06E-06	1.47E-07	4.42E-06	3.00E-07	5.45E-07	4.81E-08	8.93E-07	2.32E-07	3.03E-07	2.19E-08	5.58E-07
3818	565107.8	4222504	2.74E-06	3.35E-06	1.77E-07	6.27E-06	1.46E-06	3.68E-06	1.77E-07	5.31E-06	3.60E-07	6.55E-07	5.78E-08	1.07E-06	2.79E-07	3.65E-07	2.64E-08	6.70E-07
3819	565100.9	4222491	2.89E-06	3.53E-06	1.86E-07	6.60E-06	1.53E-06	3.87E-06	1.86E-07	5.59E-06	3.79E-07	6.89E-07	6.08E-08	1.13E-06	2.94E-07	3.84E-07	2.78E-08	7.05E-07
3820	565094.1	4222479	3.02E-06	3.69E-06	1.95E-07	6.91E-06	1.60E-06	4.05E-06	1.95E-07	5.85E-06	3.97E-07	7.22E-07	6.37E-08	1.18E-06	3.07E-07	4.02E-07	2.91E-08	7.38E-07
3821	565087.3	4222467	3.15E-06	3.85E-06	2.03E-07	7.20E-06	1.67E-06	4.22E-06	2.03E-07	6.09E-06	4.14E-07	7.52E-07	6.63E-08	1.23E-06	3.20E-07	4.18E-07	3.03E-08	7.69E-07
3822	565080.4	4222455	3.26E-06	3.99E-06	2.10E-07	7.46E-06	1.73E-06	4.37E-06	2.10E-07	6.31E-06	4.29E-07	7.79E-07	6.87E-08	1.28E-06	3.32E-07	4.34E-07	3.14E-08	7.97E-07
3823	565073.6	4222443	3.36E-06	4.11E-06	2.17E-07	7.69E-06	1.78E-06	4.50E-06	2.17E-07	6.50E-06	4.42E-07	8.03E-07	7.09E-08	1.32E-06	3.42E-07	4.47E-07	3.23E-08	8.21E-07
3824	565066.8	4222431	3.45E-06	4.21E-06	2.22E-07	7.89E-06	1.83E-06	4.62E-06	2.22E-07	6.67E-06	4.53E-07	8.23E-07	7.27E-08	1.35E-06	3.51E-07	4.58E-07	3.31E-08	8.42E-07
3825	565286.4	4222629	1.23E-06	1.5E-06	7.90E-08	2.80E-06	6.50E-07	1.64E-06	7.90E-08	2.37E-06	1.61E-07	2.93E-07	2.58E-08	4.80E-07	1.25E-07	1.63E-07	1.18E-08	2.99E-07
3826	565273	4222625	1.27E-06	1.55E-06	8.17E-08	2.90E-06	6.73E-07	1.70E-06	8.17E-08	2.45E-06	1.67E-07	3.03E-07	2.67E-08	4.96E-07	1.29E-07	1.69E-07	1.22E-08	3.10E-07
3827	565259.6	4222622	1.31E-06	1.6E-06	8.46E-08	3.00E-06	6.97E-07	1.76E-06	8.46E-08	2.54E-06	1.73E-07	3.13E-07	2.77E-08	5.14E-07	1.34E-07	1.75E-07	1.26E-08	3.21E-07
3828	565246.3	4222618	1.36E-06	1.66E-06	8.75E-08	3.11E-06	7.21E-07	1.82E-06	8.75E-08	2.63E-06	1.79E-07	3.24E-07	2.86E-08	5.32E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
3829	565232.9	4222614	1.4E-06	1.72E-06	9.04E-08	3.21E-06	7.45E-07	1.88E-06	9.04E-08	2.72E-06	1.85E-07	3.35E-07	2.96E-08	5.49E-07	1.43E-07	1.87E-07	1.35E-08	3.43E-07
3830	565219.6	4222610	1.45E-06	1.77E-06	9.33E-08	3.31E-06	7.68E-07	1.94E-06	9.33E-08	2.80E-06	1.90E-07	3.46E-07	3.05E-08	5.66E-07	1.47E-07	1.92E-07	1.39E-08	3.54E-07
3831	565206.2	4222607	1.49E-06	1.82E-06	9.60E-08	3.41E-06	7.91E-07	2.00E-06	9.60E-08	2.88E-06	1.96E-07	3.56E-07	3.14E-08	5.83E-07	1.52E-07	1.98E-07	1.43E-08	3.64E-07
3832	565192.8	4222603	1.53E-06	1.87E-06	9.86E-08	3.50E-06	8.12E-07	2.05E-06	9.86E-08	2.96E-06	2.01E-07	3.65E-07	3.23E-08	5.99E-07	1.56E-07	2.03E-07	1.47E-08	3.74E-07
3833	565179.5	4222599	1.57E-06	1.91E-06	1.01E-07	3.58E-06	8.31E-07	2.10E-06	1.01E-07	3.03E-06	2.06E-07	3.74E-07	3.30E-08	6.12E-07	1.59E-07	2.08E-07	1.51E-08	3.82E-07
3834	565166.1	4222595	1.6E-06	1.95E-06	1.03E-07	3.65E-06	8.47E-07	2.14E-06	1.03E-07	3.09E-06	2.10E-07	3.81E-07	3.36E-08	6.25E-07	1.62E-07	2.12E-07	1.53E-08	3.90E-07
3835	565152.8	4222591	1.63E-06	1.99E-06	1.05E-07

3848	565247.2	4222628	1.25E-06	1.53E-06	8.07E-08	2.86E-06	6.64E-07	1.68E-06	8.07E-08	2.42E-06	1.65E-07	2.99E-07	2.64E-08	4.90E-07	1.27E-07	1.66E-07	1.20E-08	3.06E-07
3849	565233.8	4222624	1.3E-06	1.58E-06	8.34E-08	2.96E-06	6.87E-07	1.73E-06	8.34E-08	2.51E-06	1.70E-07	3.09E-07	2.73E-08	5.07E-07	1.32E-07	1.72E-07	1.24E-08	3.16E-07
3850	565220.4	4222620	1.34E-06	1.63E-06	8.61E-08	3.06E-06	7.09E-07	1.79E-06	8.61E-08	2.59E-06	1.76E-07	3.19E-07	2.82E-08	5.23E-07	1.36E-07	1.78E-07	1.28E-08	3.26E-07
3851	565207	4222616	1.38E-06	1.68E-06	8.87E-08	3.15E-06	7.30E-07	1.84E-06	8.87E-08	2.66E-06	1.81E-07	3.29E-07	2.90E-08	5.39E-07	1.40E-07	1.83E-07	1.32E-08	3.36E-07
3852	565193.6	4222612	1.42E-06	1.73E-06	9.12E-08	3.24E-06	7.51E-07	1.90E-06	9.12E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.54E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
3853	565180.2	4222609	1.45E-06	1.77E-06	9.34E-08	3.32E-06	7.69E-07	1.94E-06	9.34E-08	2.81E-06	1.91E-07	3.46E-07	3.06E-08	5.67E-07	1.47E-07	1.93E-07	1.39E-08	3.54E-07
3854	565166.8	4222605	1.48E-06	1.81E-06	9.54E-08	3.39E-06	7.86E-07	1.98E-06	9.54E-08	2.86E-06	1.95E-07	3.54E-07	3.12E-08	5.79E-07	1.51E-07	1.97E-07	1.42E-08	3.62E-07
3855	565153.4	4222601	1.51E-06	1.85E-06	9.74E-08	3.46E-06	8.02E-07	2.03E-06	9.74E-08	2.92E-06	1.99E-07	3.61E-07	3.19E-08	5.91E-07	1.54E-07	2.01E-07	1.45E-08	3.69E-07
3856	565136.6	4222591	1.6E-06	1.96E-06	1.03E-07	3.66E-06	8.50E-07	2.15E-06	1.03E-07	3.10E-06	2.10E-07	3.82E-07	3.38E-08	6.27E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
3857	565129.7	4222579	1.73E-06	2.11E-06	1.11E-07	3.96E-06	9.18E-07	2.32E-06	1.11E-07	3.35E-06	2.27E-07	4.13E-07	3.65E-08	6.77E-07	1.76E-07	2.30E-07	1.66E-08	4.23E-07
3858	565102.2	4222531	2.28E-06	2.79E-06	1.47E-07	5.22E-06	1.21E-06	3.06E-06	1.47E-07	4.42E-06	3.00E-07	5.45E-07	4.81E-08	8.93E-07	2.32E-07	3.03E-07	2.19E-08	5.58E-07
3859	565095.4	4222519	2.42E-06	2.96E-06	1.56E-07	5.53E-06	1.28E-06	3.24E-06	1.56E-07	4.68E-06	3.18E-07	5.78E-07	5.10E-08	9.47E-07	2.46E-07	3.22E-07	2.33E-08	5.91E-07
3860	565088.5	4222506	2.55E-06	3.12E-06	1.64E-07	5.84E-06	1.35E-06	3.42E-06	1.64E-07	4.94E-06	3.35E-07	6.09E-07	5.38E-08	9.98E-07	2.59E-07	3.39E-07	2.45E-08	6.23E-07
3861	565081.6	4222494	2.68E-06	3.27E-06	1.73E-07	6.13E-06	1.42E-06	3.59E-06	1.73E-07	5.18E-06	3.52E-07	6.39E-07	5.64E-08	1.05E-06	2.72E-07	3.56E-07	2.58E-08	6.54E-07
3862	565074.8	4222482	2.8E-06	3.42E-06	1.80E-07	6.40E-06	1.48E-06	3.75E-06	1.80E-07	5.41E-06	3.68E-07	6.68E-07	5.90E-08	1.09E-06	2.85E-07	3.72E-07	2.69E-08	6.84E-07
3863	565067.9	4222470	2.91E-06	3.56E-06	1.87E-07	6.65E-06	1.54E-06	3.90E-06	1.87E-07	5.63E-06	3.82E-07	6.95E-07	6.13E-08	1.14E-06	2.96E-07	3.87E-07	2.80E-08	7.11E-07
3864	565061	4222458	3.01E-06	3.68E-06	1.94E-07	6.88E-06	1.60E-06	4.03E-06	1.94E-07	5.82E-06	3.95E-07	7.18E-07	6.34E-08	1.18E-06	3.06E-07	4.00E-07	2.89E-08	7.35E-07
3865	565054.2	4222446	3.1E-06	3.78E-06	1.99E-07	7.08E-06	1.64E-06	4.15E-06	1.99E-07	5.99E-06	4.07E-07	7.39E-07	6.53E-08	1.21E-06	3.15E-07	4.12E-07	2.98E-08	7.56E-07
3866	565047.3	4222434	3.17E-06	3.88E-06	2.04E-07	7.25E-06	1.68E-06	4.25E-06	2.04E-07	6.14E-06	4.17E-07	7.57E-07	6.68E-08	1.24E-06	3.23E-07	4.22E-07	3.05E-08	7.75E-07
3867	565288.4	4222649	1.05E-06	1.29E-06	6.78E-08	2.41E-06	5.58E-07	1.41E-06	6.78E-08	2.04E-06	1.38E-07	2.51E-07	2.22E-08	4.12E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
3868	565274.9	4222645	1.09E-06	1.33E-06	6.99E-08	2.48E-06	5.76E-07	1.45E-06	6.99E-08	2.10E-06	1.43E-07	2.59E-07	2.29E-08	4.25E-07	1.10E-07	1.44E-07	1.04E-08	2.65E-07
3869	565261.5	4222641	1.12E-06	1.37E-06	7.22E-08	2.56E-06	5.94E-07	1.50E-06	7.22E-08	2.17E-06	1.47E-07	2.67E-07	2.36E-08	4.38E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
3870	565234.6	4222633	1.2E-06	1.46E-06	7.71E-08	2.74E-06	6.35E-07	1.60E-06	7.71E-08	2.32E-06	1.57E-07	2.86E-07	2.52E-08	4.68E-07	1.22E-07	1.59E-07	1.15E-08	2.92E-07
3871	565221.2	4222630	1.24E-06	1.51E-06	7.96E-08	2.83E-06	6.56E-07	1.66E-06	7.96E-08	2.39E-06	1.62E-07	2.95E-07	2.61E-08	4.84E-07	1.26E-07	1.64E-07	1.19E-08	3.02E-07
3872	565207.8	4222626	1.27E-06	1.56E-06	8.21E-08	2.91E-06	6.76E-07	1.71E-06	8.21E-08	2.47E-06	1.67E-07	3.04E-07	2.69E-08	4.98E-07	1.30E-07	1.69E-07	1.22E-08	3.11E-07
3873	565194.4	4222622	1.31E-06	1.6E-06	8.44E-08	3.00E-06	6.95E-07	1.76E-06	8.44E-08	2.54E-06	1.72E-07	3.13E-07	2.76E-08	5.13E-07	1.33E-07	1.74E-07	1.26E-08	3.20E-07
3874	565180.9	4222618	1.35E-06	1.64E-06	8.67E-08	3.08E-06	7.14E-07	1.80E-06	8.67E-08	2.60E-06	1.77E-07	3.21E-07	2.84E-08	5.26E-07	1.37E-07	1.79E-07	1.29E-08	3.29E-07
3875	565167.5	4222615	1.38E-06	1.68E-06	8.87E-08	3.15E-06	7.31E-07	1.84E-06	8.87E-08	2.66E-06	1.81E-07	3.29E-07	2.90E-08	5.39E-07	1.40E-07	1.83E-07	1.32E-08	3.36E-07
3876	565154.1	4222611	1.41E-06	1.72E-06	9.07E-08	3.22E-06	7.47E-07	1.89E-06	9.07E-08	2.72E-06	1.85E-07	3.36E-07	2.97E-08	5.51E-07	1.43E-07	1.87E-07	1.35E-08	3.44E-07
3877	565140.6	4222607	1.44E-06	1.76E-06	9.25E-08	3.29E-06	7.62E-07	1.92E-06	9.25E-08	2.78E-06	1.89E-07	3.43E-07	3.03E-08	5.62E-07	1.46E-07	1.91E-07	1.38E-08	3.51E-07
3878	565130.5	4222599	1.51E-06	1.84E-06	9.71E-08	3.45E-06	8.00E-07	2.02E-06	9.71E-08	2.92E-06	1.98E-07	3.60E-07	3.18E-08	5.90E-07	1.53E-07	2.00E-07	1.45E-08	3.68E-07
3879	565123.6	4222587	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.64E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.89E-07	3.43E-08	6.37E-07	1.66E-07	2.16E-07	1.57E-08	3.98E-07
3880	565116.7	4222575	1.75E-06	2.14E-06	1.13E-07	4.01E-06	9.30E-07	2.35E-06	1.13E-07	3.39E-06	2.30E-07	4.19E-07	3.69E-08	6.86E-07	1.78E-07	2.33E-07	1.69E-08	4.28E-07
3881	565102.9	4222550	2.01E-06	2.46E-06	1.30E-07	4.60E-06	1.07E-06	2.70E-06	1.30E-07	3.89E-06	2.65E-07	4.81E-07	4.24E-08	7.88E-07	2.05E-07	2.68E-07	1.94E-08	4.92E-07
3882	565096.1	4222538	2.15E-06	2.62E-06	1.38E-07	4.91E-06	1.14E-06	2.87E-06	1.38E-07	4.15E-06	2.82E-07	5.12E-07	4.52E-08	8.39E-07	2.18E-07	2.85E-07	2.06E-08	5.24E-07
3883	565089.2	4222526	2.28E-06	2.78E-06	1.47E-07	5.20E-06	1.21E-06	3.05E-06	1.47E-07	4.40E-06	2.99E-07	5.43E-07	4.79E-08	8.90E-07	2.31E-07	3.02E-07	2.19E-08	5.56E-07
3884	565082.3	4222514	2.4E-06	2.93E-06	1.55E-07	5.49E-06	1.27E-06	3.22E-06	1.55E-07	4.64E-06	3.15E-07	5.73E-07	5.06E-08	9.39E-07	2.44E-07	3.19E-07	2.31E-08	5.86E-07
3885	565075.4	4222502	2.52E-06	3.08E-06	1.63E-07	5.77E-06	1.34E-06	3.38E-06	1.63E-07	4.88E-06	3.32E-07	6.02E-07	5.32E-08	9.87E-07	2.57E-07	3.35E-07	2.43E-08	6.16E-07
3886	565068.5	4222490	2.64E-06	3.23E-06	1.70E-07	6.04E-06	1.40E-06	3.54E-06	1.70E-07	5.11E-06	3.47E-07	6.31E-07	5.57E-08	1.03E-06	2.69E-07	3.51E-07	2.54E-08	6.45E-07
3887	565061.7	4222478	2.75E-06	3.36E-06	1.77E-07	6.29E-06	1.46E-06	3.68E-06	1.77E-07	5.32E-06	3.61E-07	6.57E-07	5.80E-08	1.08E-06	2.80E-07	3.66E-07	2.64E-08	6.72E-07
3888	565054.8	4222465	2.85E-06	3.48E-06	1.83E-07	6.51E-06	1.51E-06	3.82E-06	1.83E-07	5.51E-06	3.74E-07	6.80E-07	6.00E-08	1.11E-06	2.90E-07	3.79E-07	2.74E-08	6.96E-07
3889	565047.9	4222453	2.94E-06	3.59E-06	1.89E-07	6.72E-06	1.56E-06	3.93E-06	1.89E-07	5.68E-06	3.86E-07	7.01E-07	6.19E-08	1.15E-06	2.99E-07	3.90E-07	2.82E-08	7.17E-07
3890	565041	4222441	3.01E-06	3.68E-06	1.94E-07	6.89E-06	1.60E-06	4.04E-06	1.94E-07	5.83E-06	3.96E-07	7.19E-07	6.35E-08	1.18E-06	3.06E-07	4.00E-07	2.90E-08	7.36E-07
3891	565289.4	4222658	9.81E-07	1.2E-06	6.31E-08	2.24E-06	5.20E-07	1.31E-06	6.31E-08	1.90E-06	1.29E-07	2.34E-07	2.07E-08	3.83E-07	9.97E-08	1.30E-07	9.42E-09	2.39E-07
3892	565275.9	4222655	1.01E-06	1.23E-06	6.50E-08	2.31E-06	5.35E-07	1.35E-06	6.50E-08	1.95E-06	1.33E-07	2.41E-07	2.13E-08	3.95E-07	1.03E-07	1.34E-07	9.70E-09	2.46E-07
3893	565262.4	4222651	1.04E-06	1.27E-06	6.70E-08	2.38E-06	5.52E-07	1.39E-06	6.70E-08	2.01E-06	1.37E-07	2.48E-07	2.19E-08	4.07E-07	1.06E-07	1.38E-07	1.00E-08	2.54E-07
3894	565235.5	4222643	1.11E-06	1.36E-06	7.15E-08	2.54E-06	5.89E-07	1.49E-06	7.15E-08	2.15E-06	1.46E-07	2.65E-07	2.34E-08	4.34E-07	1.13E-07	1.48E-07	1.07E-08	2.71E-07
3895	565222.1	4222639	1.15E-06	1.4E-06	7.38E-08	2.62E-06	6.08E-07	1.54E-06	7.38E-08	2.22E-06	1.51E-07	2.74E-07	2.42E-08	4.49E-07	1.17E-07	1.52E-07	1.10E-08	2.80E-07
3896	565208.6	4222636	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.27E-07	1.58E-06	7.61E-08	2.29E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.14E-08	2.89E-07
3897	565195.1	4222632	1.22E-06	1.49E-06	7.83E-08	2.78E-06	6.45E-07	1.63E-06	7.83E-08	2.35E-06	1.60E-07	2.90E-07	2.56E-08	4.76E-07	1.24E-07	1.62E-07	1.17E-08	2.97E-07
3898	565181.7	4222628	1.25E-06	1.53E-06	8.05E-08	2.86E-06	6.63E-07	1.67E-06	8.05E-08	2.42E-06	1.64E-07	2.98E-07	2.63E-08	4.89E-07	1.27E-07	1.66E-07	1.20E-08	3.05E-07
3899	565168.2	4222624	1.28E-06	1.57E-06	8.26E-08	2.93E-06	6.80E-07	1.72E-06	8.26E-08	2.48E-06	1.68E-07	3.06E-07	2.70E-08	5.02E-07	1.30E-07	1.70E-07	1.23E-08	3.13E-07
3900	565154.8	4222620	1.31E-06	1.6E-06	8.45E-08	3.00E-06	6.96E-07	1.76E-06	8.45E-08	2.54E-06	1.72E-07	3.13E-07	2.77E-08	5.13E-07	1.33E-07	1.74E-07	1.26E-08	3.20E-07
3901	565141.3	4222617	1.34E-06	1.64E-06	8.64E-08	3.07E-06	7.11E-07	1.80E-06	8.64E-08	2.59E-06	1.76E-07	3.20E-07	2.83E-08	5.25E-07	1.36E-07	1.78E-07	1.29E-08	3.27E-07
3902	565124.4	4222607	1.42E-06	1.74E-06	9.16E-08	3.25E-06	7.54E-07	1.90E-06	9.16E-08	2.75E-06	1.87E-07	3.39E-07	3.00E-08	5.56E-07	1.45E-07	1.89E-07	1.37E-08	3.47E-07
3903	565117.5	4222595	1.54E-06	1.88E-06	9.88E-08	3.51E-06	8.14E-07	2.06E-06	9.88E-08	2.97E-06	2.02E-07	3.66E-07	3.23E-08	6.00E-07	1.56E-07	2.04E-07	1.48E-08	3.75E-07
3904	565110.6	4222582	1.65E-06	2.02E-06	1.06E-07	3.78E-06	8.76E-07	2.21E-06	1.06E-07	3.20E-06	2.17E-07	3.94E-07	3.48E-08	6.46E-07	1.68E-07	2.20E-07	1.59E-08	4.03E-07
3905	565103.7	4222570	1.77E-06	2.17E-06	1.14E-07	4.05E-06	9.40E-07	2.37E-06	1.14E-07	3.43E-06	2.33E-07	4.23E-07	3.73E-08	6.93E-07	1.80E-07	2.36E-07	1.70E-08	4.33E-07
3906	565089.9	4222546	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.65E-07	4.82E-07	4.26E-08	7.90E-07	2.05E-07	2.68E-07	1.94E-08	4.93E-07
3907	565083	4222534	2.14E-06	2.62E-06	1.38E-07	4.90E-06	1.14E-06	2.87E-06	1.38E-07	4.15E-06	2.82E-07	5.11E-07	4.52E-08	8.38E-07	2.18E-07	2.85E-07	2.06E-08	5.23E-07
3908	565076.1	4222522	2.26E-06	2.76E-06	1.46E-07	5.17E-06	1.20E-06	3.03E-06	1.46E-07	4.38E-06	2.97E-07	5.40E-07	4.77E-08	8.85E-07	2.30E-07	3.01E-07	2.17E-08	5.53E-07
3909	565069.2	4222509	2.38E-06	2.91E-06	1.53E-07	5.44E-06	1.26E-06	3.19E-06	1.53E-07	4.60E-06	3.13E-07	5.68E-07	5.02E-08	9.31E-07	2.42E-07	3.16E-07	2.29E-08	5.81E-07
3910	565062.3	4222497	2.5E-06	3.05E-06	1.61E-07	5.70E-06	1.32E-06	3.34E-06	1.61E-07	4.83E-06	3.28E-07	5.95E-07	5.26E-08	9.76E-07	2.54E-07	3.32E-07	2.40E-08	6.09E-07
3911	565055.4	4222485	2.6E-06	3.18E-06	1.68E-07	5.95E-06	1.38E-06	3.49E-06	1.68E-07	5.03E-06	3.42E-07	6.21E-07	5.48E-08	1.02E-06	2.65E-07	3.46E-07	2.50E-08	6.35E-07
3912	565048.5	4222473	2.7E-06	3.3E-06	1.74E-07	6.17E-06	1.43E-06	3.61E-06	1.74E-07	5.22E-06	3.55E-07	6.44E-07	5.69E-08	1.06E-06	2.74E-07	3.59E-07	2.59E-08	6.59E-07
3913	565041.6	4222461	2.79E-06	3.4E-06	1.79E-07	6.37E-06	1.48E-06	3.73E-06	1.79E-07	5.39E-06	3.66E-07	6.65E-07	5.87E-08	1.09E-06	2.83E-07	3.70E-07	2.68E-08	6.80E-07
3914	565034.7	4222448	2.86E-06	3.5E-06	1.84E-07	6.54E-06	1.52E-06	3.83E-06	1.84E-07	5.53E-06	3.76E-07	6.83E-07	6.03E-08	1.12E-06	2.91E-07	3.80E-07	2.75E-08	6.99E-07
3915	565027.8	4222436	2.93E-06	3.57E-06	1.88E-07	6.69E-06	1.55E-06	3.92E-06	1.88E-07	5.66E-06	3.84E-07	6.98E-07	6.16E-08	1.14E-06	2.97E-07	3.89E-07	2.81E-08	7.14E-07
3916	565290.4	4222668	9.17E-07	1.12E-06	5.90E-08	2.10E-06	4.86E-07	1.23E-06	5.90E-08	1.77E-06	1.20E-07	2.19E-07	1.93E-08	3.58E-07	9.32E-08	1.22E-07	8.81E-09	2.24E-07
3917	565276.9	4222664	9.42E-07	1.15E-06	6.07E-08	2.15E-06	5.00E-07	1.26E-06	6.07E-08	1.82E-06	1.24E-07	2.25E-07	1.98E-08	3.68E-07	9.58E-08	1.25E-07	9.05E-09	2.30E-07
3918	565263.4	4222661	9.7E-07	1.18E-06	6.24E-08	2.22E-06	5.14E-07	1.30E-06	6.24E-08	1.88E-06	1.27E-07	2.31E-07	2.04E-08	3.79E-07	9.86E-08	1.29E-07	9.32E-09	2.37E-07
3919	565249.9	4222657	1E-06	1.22E-06	6.44E-08	2.29E-06	5.30E-07	1.34E-06	6.44E-08	1.93E-06	1.31E-07	2.39E-07	2.11E-08	3.91E-07	1.02E-07	1.33E-07	9.61E-09	2.44E-07
3920	565222.9	4222649	1.07E-06	1.3E-06	6.86E-08	2.44E-06	5.65E-07	1.43E-06	6.86E-08	2.06E-06	1.40E-07	2.54E-07	2.25E-08	4.17E-07	1.08E-07	1.42E-07	1.02E-08	2.60E-07
3921	565209.5	4222645	1.1E-06	1.34E-06	7.07E-08	2.51E-06	5.83E-07	1.47E-06	7.07E-08	2.12E-06	1.44E-07	2.62E-07	2.31E-08	4.30E-07	1.12E-07	1.46E-07	1.06E-08	2.68E-07
3922	565196	4222641	1.13E-06	1.38E-06	7.28E-08	2.59E-06	6.00E-07	1.51E-06	7.28E-08	2.19E-06	1.49E-07	2.70E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
3923	565182.5	4222638	1.16E-06	1.42E-06	7.49E-08	2.66E-06	6.17E-07	1.56E-06	7.49E-08	2.25E-06	1.53E-07	2.78E-07	2.45E-08	4.55E-07	1.18E-07	1.55E-07	1.12E-08	2.84E-07
3924	565169	4222634	1.2E-06	1.46E-06	7.70E-08	2.73E-06	6.34E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.92E-07
3925	565155.5	4222630	1.23E-06	1.5E-06	7.89E-08	2.80E-06	6.50E-07	1.64E-06	7.89E-08	2.37E-06	1.61E-07	2.92E-07	2.58E-08	4.79E-07	1.25E-07	1.63E-07	1.18E-08	2.99E-07
3926	565142	4222626	1.25E-06	1.53E-06	8.07E-08	2.86E-06	6.64E-07	1.68E-06	8.07E-08	2.42E-06	1.65E-07	2.99E-07	2.64E-08	4.90E-07	1.27E-07	1.66E-07	1.20E-08	3.06E-07
3927	565128.5	4222622	1.28E-06	1.56E-06	8.24E-08	2.92E-06	6.78E-07	1.71E-06	8.24E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	5.00E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
3928	565118.3	4222614	1.34E-06	1.64E-06	8.65E-08	3.07E-06	7.12E-07	1.80E-06	8.65E-08	2.60E-06	1.76E-07	3.20E-07	2.83E-08	5.25E-07	1.37E-07	1.78E-07	1.29E-08	3.28E-07
3929	565111.4	4222602	1.45E-06	1.77E-06	9.33E-08	3.31E-06	7.69E-07	1.94E-06	9.33E-08	2.80E-06	1.90E-07	3.46E-07	3.05E-08	5.67E-07	1.47E-07	1.93E-07	1.39E-08	3.54E-07
3930	565104.5	4222590	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.27E-07	2.09E-06	1.00E-07	3.02E-06	2.05E-07	3.72E-07	3.28E-08	6.10E-07	1.58E-07	2.07E-07	1.50E-08	3.81E-07
3931	565097.6	4222578	1.67E-06	2.04E-06	1.08E-07	3.82E-06	8.87E-07	2.24E-06	1.08E-07	3.23E-06	2.20E-07	3.99E-07	3.52E-08	6.54E-07	1.70E-07	2.22E-07	1.61E-08	4.08E-07
3932	565083.8	4222553	1.91E-06	2.33E-06	1.23E-07	4.36E-06	1.01E-06	2.55E-06	1.23E-07	3.69E-06	2.50E-07	4.55E-07	4.02E-08	7.45E-07	1.94E-07	2.53E-07	1.83E-08	4.65E-07
3933	565076.8	4222541	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.66E-07	4.82E-07	4.26E-08	7.91E-07	2.05E-07	2.69E-07	1.94E-08	4.94E-07
3934	565069.9	4222529	2.14E-06	2.61E-06	1.38E-07	4.88E-06	1.13E-06	2.86E-06	1.38E-07	4.13E-06	2.81E-07	5.10E-07	4.50E-08	8.35E-07	2.17E-07	2.84E-07	2.05E-08	5.22E-07
3935	565063	4222517	2.25E-06	2.75E-06	1.45E-07	5.14E-06	1.19E-06	3.01E-06	1.45E-07	4.35E-06	2.95E-07	5.36E-07	4.73E-08	8.79E-07	2.28E-07	2.99E-07	2.16E-08	5.49E-07
3936	565056.1	4222505	2.36E-06	2.88E-06	1.52E-07	5.39E-06	1.25E-06	3.16E-06	1.52E-07	4.56E-06	3.10E-07	5.63E-07	4.97E-08	9.22E-07	2.40E-07	3.13E-07	2.27E-08	5.76E-07
3937	565049.2	4222492	2.46E-06	3.01E-06	1.59E-07	5.63E-06	1.31E-06	3.30E-06	1.59E-07	4.76E-06	3.23E-07	5.88E-07	5.19E-08	9.63E-07	2.50E-07	3.27E-07	2.37E-08	6.01E-07
3938	565042.3	4222480	2.56E-06	3.12E-06	1.65E-07	5.85E-06	1.36E-06	3.43E-06	1.65E-07	4.95E-06	3.36E-07	6.10E-07	5.39E-08	1.00E-06	2.60E-07	3.40E-07	2.46E-08	6.24E-07
3939	565291.4	4222678	8.6E-07	1.05E-06	5.53E-08	1.96E-06	4.56E-07	1.15E-06	5.53E-08	1.66E-06	1.13E-07	2.05E-07	1.81E-08	3.36E-07	8.74E-08	1.14E-07	8.26E-09	2.10E-07
3940	565277.9	4222674	8.82E-07	1.08E-06	5.68E-08	2.02E-06	4.68E-07	1.18E-06	5.68E-08	1.71E-06	1.16E-07	2.10E-07	1.86E-08	3.45E-07	8.96E-08	1.17E-07	8.48E-09	2.15E-07
3941	565264.4	4222670	9.07E-07	1.11E-06	5.84E-08	2.07E-06	4.81E-07	1.21E-06	5.84E-08	1.75E-06	1.19E-07	2.16E-07	1.91E-08	3.55E-07	9.21E-08	1.20E-07	8.71E-09	2.21E-07
3942	565250.9	4222666	9.34E-07	1.14E-06	6.01E-08	2.13E-06	4.95E-07	1.25E-06	6.01E-08	1.80E-06	1.23E-07	2.23E-07	1.97E-08	3.65E-07	9.49E-08	1.24E-07	8.97E-09	2.28E-07
3943	565142.7	4222636	1.17E-06	1.43E-06	7.54E-08	2.68E-06	6.21E-07	1.57E-06	7.54E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.58E-07	1.19E-07	1.56E-07	1.13E-08	2.86E-07
3944	565129.2	4222632	1.2E-06	1.46E-06	7.71E-08	2.74E-06	6.35E-07	1.60E-06	7.71E-08	2.32E-06	1.57E-07	2.86E-07	2.52E-08	4.68E-07	1.22E-07	1.59E-07	1.15E-08	2.92E-07
3945	565112.2	4222622	1.27E-06	1.55E-06	8.18E-08

3958	565225.6	4222679	8.67E-07	1.06E-06	5.58E-08	1.98E-06	4.60E-07	1.16E-06	5.58E-08	1.68E-06	1.14E-07	2.07E-07	1.83E-08	3.39E-07	8.81E-08	1.15E-07	8.33E-09	2.12E-07
3959	565212	4222675	8.93E-07	1.09E-06	5.74E-08	2.04E-06	4.73E-07	1.20E-06	5.74E-08	1.73E-06	1.17E-07	2.13E-07	1.88E-08	3.49E-07	9.07E-08	1.19E-07	8.58E-09	2.18E-07
3960	565198.4	4222671	9.18E-07	1.12E-06	5.91E-08	2.10E-06	4.87E-07	1.23E-06	5.91E-08	1.78E-06	1.21E-07	2.19E-07	1.93E-08	3.59E-07	9.33E-08	1.22E-07	8.82E-09	2.24E-07
3961	565184.8	4222667	9.45E-07	1.15E-06	6.08E-08	2.16E-06	5.01E-07	1.27E-06	6.08E-08	1.83E-06	1.24E-07	2.25E-07	1.99E-08	3.69E-07	9.60E-08	1.26E-07	9.08E-09	2.31E-07
3962	565171.3	4222663	9.72E-07	1.19E-06	6.26E-08	2.22E-06	5.15E-07	1.30E-06	6.26E-08	1.88E-06	1.28E-07	2.32E-07	2.05E-08	3.80E-07	9.88E-08	1.29E-07	9.34E-09	2.37E-07
3963	565157.7	4222659	9.99E-07	1.22E-06	6.43E-08	2.28E-06	5.30E-07	1.34E-06	6.43E-08	1.93E-06	1.31E-07	2.38E-07	2.10E-08	3.91E-07	1.02E-07	1.33E-07	9.60E-09	2.44E-07
3964	565144.1	4222655	1.03E-06	1.25E-06	6.60E-08	2.34E-06	5.44E-07	1.37E-06	6.60E-08	1.98E-06	1.35E-07	2.45E-07	2.16E-08	4.01E-07	1.04E-07	1.36E-07	9.86E-09	2.50E-07
3965	565130.5	4222652	1.05E-06	1.28E-06	6.77E-08	2.40E-06	5.57E-07	1.41E-06	6.77E-08	2.03E-06	1.38E-07	2.51E-07	2.21E-08	4.11E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
3966	565099.9	4222638	1.14E-06	1.39E-06	7.34E-08	2.61E-06	6.04E-07	1.53E-06	7.34E-08	2.20E-06	1.50E-07	2.72E-07	2.40E-08	4.46E-07	1.16E-07	1.51E-07	1.10E-08	2.78E-07
3967	565092.9	4222626	1.23E-06	1.5E-06	7.90E-08	2.81E-06	6.51E-07	1.64E-06	7.90E-08	2.37E-06	1.61E-07	2.93E-07	2.58E-08	4.80E-07	1.25E-07	1.63E-07	1.18E-08	3.00E-07
3968	565086	4222613	1.32E-06	1.61E-06	8.49E-08	3.01E-06	6.99E-07	1.77E-06	8.49E-08	2.55E-06	1.73E-07	3.15E-07	2.78E-08	5.16E-07	1.34E-07	1.75E-07	1.27E-08	3.22E-07
3969	565079	4222601	1.41E-06	1.73E-06	9.10E-08	3.23E-06	7.49E-07	1.89E-06	9.10E-08	2.73E-06	1.86E-07	3.37E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
3970	565072	4222589	1.51E-06	1.85E-06	9.73E-08	3.46E-06	8.02E-07	2.02E-06	9.73E-08	2.92E-06	1.99E-07	3.61E-07	3.18E-08	5.91E-07	1.54E-07	2.01E-07	1.45E-08	3.69E-07
3971	565065.1	4222576	1.61E-06	1.97E-06	1.04E-07	3.68E-06	8.55E-07	2.16E-06	1.04E-07	3.12E-06	2.12E-07	3.85E-07	3.39E-08	6.30E-07	1.64E-07	2.14E-07	1.55E-08	3.93E-07
3972	565051.2	4222552	1.81E-06	2.21E-06	1.16E-07	4.13E-06	9.58E-07	2.42E-06	1.16E-07	3.50E-06	2.37E-07	4.31E-07	3.81E-08	7.07E-07	1.84E-07	2.40E-07	1.74E-08	4.41E-07
3973	565030.3	4222515	2.09E-06	2.55E-06	1.35E-07	4.78E-06	1.11E-06	2.80E-06	1.35E-07	4.04E-06	2.75E-07	4.99E-07	4.41E-08	8.18E-07	2.13E-07	2.78E-07	2.01E-08	5.11E-07
3974	565023.3	4222503	2.18E-06	2.66E-06	1.40E-07	4.98E-06	1.16E-06	2.92E-06	1.40E-07	4.21E-06	2.86E-07	5.20E-07	4.59E-08	8.52E-07	2.22E-07	2.90E-07	2.09E-08	5.32E-07
3975	565016.4	4222491	2.26E-06	2.76E-06	1.46E-07	5.17E-06	1.20E-06	3.03E-06	1.46E-07	4.37E-06	2.97E-07	5.40E-07	4.76E-08	8.84E-07	2.30E-07	3.00E-07	2.17E-08	5.52E-07
3976	565009.4	4222478	2.34E-06	2.85E-06	1.50E-07	5.34E-06	1.24E-06	3.13E-06	1.50E-07	4.52E-06	3.07E-07	5.57E-07	4.92E-08	9.13E-07	2.37E-07	3.10E-07	2.24E-08	5.70E-07
3977	565002.4	4222466	2.4E-06	2.94E-06	1.55E-07	5.49E-06	1.27E-06	3.22E-06	1.55E-07	4.65E-06	3.16E-07	5.74E-07	5.06E-08	9.40E-07	2.44E-07	3.19E-07	2.31E-08	5.87E-07
3978	565295.5	4222718	6.8E-07	8.3E-07	4.37E-08	1.55E-06	3.60E-07	9.10E-07	4.37E-08	1.31E-06	8.92E-08	1.62E-07	1.43E-08	2.66E-07	6.91E-08	9.03E-08	6.53E-09	1.66E-07
3979	565281.9	4222714	6.93E-07	8.47E-07	4.46E-08	1.58E-06	3.67E-07	9.28E-07	4.46E-08	1.34E-06	9.10E-08	1.65E-07	1.46E-08	2.71E-07	7.04E-08	9.21E-08	6.66E-09	1.69E-07
3980	565268.3	4222710	7.09E-07	8.66E-07	4.56E-08	1.62E-06	3.76E-07	9.49E-07	4.56E-08	1.37E-06	9.31E-08	1.69E-07	1.49E-08	2.77E-07	7.20E-08	9.42E-08	6.81E-09	1.73E-07
3981	565241	4222702	7.45E-07	9.1E-07	4.79E-08	1.70E-06	3.95E-07	9.97E-07	4.79E-08	1.44E-06	9.78E-08	1.78E-07	1.57E-08	2.91E-07	7.57E-08	9.89E-08	7.16E-09	1.82E-07
3982	565227.4	4222698	7.65E-07	9.34E-07	4.92E-08	1.75E-06	4.06E-07	1.02E-06	4.92E-08	1.48E-06	1.00E-07	1.83E-07	1.61E-08	2.99E-07	7.77E-08	1.02E-07	7.35E-09	1.87E-07
3983	565213.7	4222694	7.86E-07	9.6E-07	5.06E-08	1.80E-06	4.17E-07	1.05E-06	5.06E-08	1.52E-06	1.03E-07	1.88E-07	1.66E-08	3.07E-07	7.99E-08	1.04E-07	7.55E-09	1.92E-07
3984	565200.1	4222691	8.08E-07	9.87E-07	5.20E-08	1.85E-06	4.29E-07	1.08E-06	5.20E-08	1.56E-06	1.06E-07	1.93E-07	1.70E-08	3.16E-07	8.22E-08	1.07E-07	7.77E-09	1.97E-07
3985	565186.5	4222687	8.31E-07	1.02E-06	5.35E-08	1.90E-06	4.41E-07	1.11E-06	5.35E-08	1.61E-06	1.09E-07	1.98E-07	1.75E-08	3.25E-07	8.45E-08	1.10E-07	7.99E-09	2.03E-07
3986	565172.8	4222683	8.55E-07	1.04E-06	5.50E-08	1.95E-06	4.53E-07	1.14E-06	5.50E-08	1.65E-06	1.12E-07	2.04E-07	1.80E-08	3.34E-07	8.69E-08	1.14E-07	8.21E-09	2.09E-07
3987	565159.2	4222679	8.78E-07	1.07E-06	5.65E-08	2.01E-06	4.66E-07	1.18E-06	5.65E-08	1.70E-06	1.15E-07	2.10E-07	1.85E-08	3.43E-07	8.93E-08	1.17E-07	8.44E-09	2.14E-07
3988	565145.6	4222675	9.02E-07	1.1E-06	5.81E-08	2.06E-06	4.78E-07	1.21E-06	5.81E-08	1.74E-06	1.19E-07	2.15E-07	1.90E-08	3.53E-07	9.17E-08	1.20E-07	8.67E-09	2.20E-07
3989	565131.9	4222671	9.26E-07	1.13E-06	5.96E-08	2.12E-06	4.91E-07	1.24E-06	5.96E-08	1.79E-06	1.22E-07	2.21E-07	1.95E-08	3.62E-07	9.41E-08	1.23E-07	8.90E-09	2.26E-07
3990	565118.3	4222667	9.48E-07	1.16E-06	6.10E-08	2.17E-06	5.03E-07	1.27E-06	6.10E-08	1.83E-06	1.25E-07	2.26E-07	2.00E-08	3.71E-07	9.64E-08	1.26E-07	9.11E-09	2.31E-07
3991	565104.6	4222664	9.7E-07	1.18E-06	6.24E-08	2.22E-06	5.14E-07	1.30E-06	6.24E-08	1.88E-06	1.27E-07	2.31E-07	2.04E-08	3.79E-07	9.86E-08	1.29E-07	9.32E-09	2.37E-07
3992	565087.5	4222654	1.03E-06	1.25E-06	6.61E-08	2.35E-06	5.45E-07	1.38E-06	6.61E-08	1.99E-06	1.35E-07	2.45E-07	2.16E-08	4.02E-07	1.04E-07	1.36E-07	9.87E-09	2.51E-07
3993	565073.5	4222629	1.19E-06	1.45E-06	7.63E-08	2.71E-06	6.29E-07	1.59E-06	7.63E-08	2.29E-06	1.56E-07	2.83E-07	2.50E-08	4.64E-07	1.21E-07	1.58E-07	1.14E-08	2.89E-07
3994	565066.6	4222617	1.27E-06	1.55E-06	8.18E-08	2.90E-06	6.74E-07	1.70E-06	8.18E-08	2.46E-06	1.67E-07	3.03E-07	2.68E-08	4.97E-07	1.29E-07	1.69E-07	1.22E-08	3.10E-07
3995	565059.6	4222604	1.36E-06	1.66E-06	8.74E-08	3.10E-06	7.20E-07	1.82E-06	8.74E-08	2.63E-06	1.78E-07	3.24E-07	2.86E-08	5.31E-07	1.38E-07	1.80E-07	1.30E-08	3.31E-07
3996	565052.6	4222592	1.45E-06	1.77E-06	9.32E-08	3.31E-06	7.67E-07	1.94E-06	9.32E-08	2.80E-06	1.90E-07	3.45E-07	3.05E-08	5.66E-07	1.47E-07	1.92E-07	1.39E-08	3.53E-07
3997	565031.6	4222555	1.72E-06	2.09E-06	1.10E-07	3.92E-06	9.09E-07	2.30E-06	1.10E-07	3.32E-06	2.25E-07	4.09E-07	3.61E-08	6.71E-07	1.74E-07	2.28E-07	1.65E-08	4.19E-07
3998	565024.6	4222543	1.8E-06	2.2E-06	1.16E-07	4.12E-06	9.56E-07	2.41E-06	1.16E-07	3.49E-06	2.37E-07	4.30E-07	3.80E-08	7.05E-07	1.83E-07	2.40E-07	1.73E-08	4.40E-07
3999	565017.6	4222530	1.89E-06	2.31E-06	1.21E-07	4.31E-06	1.00E-06	2.53E-06	1.21E-07	3.65E-06	2.48E-07	4.50E-07	3.98E-08	7.38E-07	1.92E-07	2.51E-07	1.81E-08	4.61E-07
4000	565010.6	4222518	1.97E-06	2.4E-06	1.27E-07	4.50E-06	1.04E-06	2.63E-06	1.27E-07	3.80E-06	2.58E-07	4.69E-07	4.14E-08	7.69E-07	2.00E-07	2.61E-07	1.89E-08	4.80E-07
4001	565003.6	4222506	2.04E-06	2.5E-06	1.32E-07	4.67E-06	1.08E-06	2.74E-06	1.32E-07	3.95E-06	2.69E-07	4.88E-07	4.31E-08	7.99E-07	2.08E-07	2.72E-07	1.96E-08	4.99E-07
4002	564996.7	4222493	2.12E-06	2.59E-06	1.36E-07	4.84E-06	1.12E-06	2.83E-06	1.36E-07	4.09E-06	2.78E-07	5.05E-07	4.46E-08	8.28E-07	2.15E-07	2.81E-07	2.03E-08	5.17E-07
4003	564989.7	4222481	2.18E-06	2.67E-06	1.41E-07	4.99E-06	1.16E-06	2.92E-06	1.41E-07	4.22E-06	2.87E-07	5.21E-07	4.60E-08	8.54E-07	2.22E-07	2.90E-07	2.10E-08	5.33E-07
4004	564968.7	4222444	2.34E-06	2.86E-06	1.51E-07	5.35E-06	1.24E-06	3.13E-06	1.51E-07	4.53E-06	3.07E-07	5.58E-07	4.93E-08	9.15E-07	2.38E-07	3.11E-07	2.25E-08	5.71E-07
4005	565298.8	4222738	6.12E-07	7.47E-07	3.94E-08	1.40E-06	3.24E-07	8.19E-07	3.94E-08	1.18E-06	8.03E-08	1.46E-07	1.29E-08	2.39E-07	6.21E-08	8.12E-08	5.88E-09	1.49E-07
4006	565285.5	4222734	6.22E-07	7.59E-07	4.00E-08	1.42E-06	3.30E-07	8.32E-07	4.00E-08	1.20E-06	8.16E-08	1.48E-07	1.31E-08	2.43E-07	6.32E-08	8.26E-08	5.97E-09	1.52E-07
4007	565272.2	4222730	6.34E-07	7.74E-07	4.08E-08	1.45E-06	3.36E-07	8.48E-07	4.08E-08	1.23E-06	8.32E-08	1.51E-07	1.33E-08	2.48E-07	6.44E-08	8.42E-08	6.09E-09	1.55E-07
4008	565245.5	4222723	6.62E-07	8.08E-07	4.26E-08	1.51E-06	3.51E-07	8.86E-07	4.26E-08	1.28E-06	8.69E-08	1.58E-07	1.39E-08	2.59E-07	6.73E-08	8.79E-08	6.36E-09	1.62E-07
4009	565232.1	4222719	6.78E-07	8.28E-07	4.36E-08	1.55E-06	3.59E-07	9.07E-07	4.36E-08	1.31E-06	8.90E-08	1.62E-07	1.43E-08	2.65E-07	6.89E-08	9.00E-08	6.51E-09	1.65E-07
4010	565218.8	4222715	6.95E-07	8.48E-07	4.47E-08	1.59E-06	3.68E-07	9.30E-07	4.47E-08	1.34E-06	9.12E-08	1.66E-07	1.46E-08	2.72E-07	7.06E-08	9.23E-08	6.67E-09	1.70E-07
4011	565205.4	4222711	7.12E-07	8.7E-07	4.59E-08	1.63E-06	3.78E-07	9.54E-07	4.59E-08	1.38E-06	9.35E-08	1.70E-07	1.50E-08	2.79E-07	7.24E-08	9.46E-08	6.84E-09	1.74E-07
4012	565192.1	4222708	7.31E-07	8.93E-07	4.71E-08	1.67E-06	3.88E-07	9.79E-07	4.71E-08	1.41E-06	9.60E-08	1.74E-07	1.54E-08	2.86E-07	7.43E-08	9.71E-08	7.02E-09	1.78E-07
4013	565178.7	4222704	7.5E-07	9.17E-07	4.83E-08	1.72E-06	3.98E-07	1.00E-06	4.83E-08	1.45E-06	9.86E-08	1.79E-07	1.58E-08	2.93E-07	7.63E-08	9.97E-08	7.21E-09	1.83E-07
4014	565165.4	4222700	7.7E-07	9.41E-07	4.96E-08	1.76E-06	4.08E-07	1.03E-06	4.96E-08	1.49E-06	1.01E-07	1.84E-07	1.62E-08	3.01E-07	7.83E-08	1.02E-07	7.40E-09	1.88E-07
4015	565152.1	4222696	7.91E-07	9.66E-07	5.09E-08	1.81E-06	4.19E-07	1.06E-06	5.09E-08	1.53E-06	1.04E-07	1.89E-07	1.67E-08	3.09E-07	8.04E-08	1.05E-07	7.60E-09	1.93E-07
4016	565138.7	4222692	8.11E-07	9.9E-07	5.22E-08	1.85E-06	4.30E-07	1.09E-06	5.22E-08	1.57E-06	1.07E-07	1.93E-07	1.71E-08	3.17E-07	8.24E-08	1.08E-07	7.79E-09	1.98E-07
4017	565125.4	4222689	8.31E-07	1.02E-06	5.35E-08	1.90E-06	4.41E-07	1.11E-06	5.35E-08	1.61E-06	1.09E-07	1.98E-07	1.75E-08	3.25E-07	8.45E-08	1.10E-07	7.99E-09	2.03E-07
4018	565112	4222685	8.51E-07	1.04E-06	5.48E-08	1.95E-06	4.51E-07	1.14E-06	5.48E-08	1.65E-06	1.12E-07	2.03E-07	1.79E-08	3.33E-07	8.65E-08	1.13E-07	8.18E-09	2.08E-07
4019	565098.7	4222681	8.7E-07	1.06E-06	5.60E-08	1.99E-06	4.61E-07	1.17E-06	5.60E-08	1.68E-06	1.14E-07	2.08E-07	1.83E-08	3.40E-07	8.84E-08	1.16E-07	8.36E-09	2.12E-07
4020	565085.3	4222677	8.89E-07	1.09E-06	5.72E-08	2.03E-06	4.71E-07	1.19E-06	5.72E-08	1.72E-06	1.17E-07	2.12E-07	1.87E-08	3.47E-07	9.03E-08	1.18E-07	8.54E-09	2.17E-07
4021	565075.2	4222669	9.3E-07	1.14E-06	5.98E-08	2.12E-06	4.93E-07	1.24E-06	5.98E-08	1.80E-06	1.22E-07	2.22E-07	1.96E-08	3.63E-07	9.45E-08	1.23E-07	8.93E-09	2.27E-07
4022	565068.4	4222657	9.96E-07	1.22E-06	6.41E-08	2.28E-06	5.28E-07	1.33E-06	6.41E-08	1.93E-06	1.31E-07	2.38E-07	2.10E-08	3.90E-07	1.01E-07	1.32E-07	9.57E-09	2.43E-07
4023	565054.7	4222633	1.14E-06	1.39E-06	7.34E-08	2.61E-06	6.05E-07	1.53E-06	7.34E-08	2.20E-06	1.50E-07	2.72E-07	2.40E-08	4.46E-07	1.16E-07	1.51E-07	1.10E-08	2.78E-07
4024	565027.4	4222585	1.45E-06	1.77E-06	9.35E-08	3.32E-06	7.70E-07	1.95E-06	9.35E-08	2.81E-06	1.91E-07	3.47E-07	3.06E-08	5.68E-07	1.48E-07	1.93E-07	1.40E-08	3.55E-07
4025	565020.5	4222573	1.53E-06	1.87E-06	9.86E-08	3.50E-06	8.12E-07	2.05E-06	9.86E-08	2.96E-06	2.01E-07	3.65E-07	3.23E-08	5.99E-07	1.56E-07	2.04E-07	1.47E-08	3.74E-07
4026	565013.7	4222561	1.61E-06	1.97E-06	1.04E-07	3.68E-06	8.54E-07	2.16E-06	1.04E-07	3.11E-06	2.12E-07	3.84E-07	3.39E-08	6.30E-07	1.64E-07	2.14E-07	1.55E-08	3.93E-07
4027	565006.8	4222549	1.69E-06	2.06E-06	1.09E-07	3.86E-06	8.95E-07	2.26E-06	1.09E-07	3.26E-06	2.22E-07	4.03E-07	3.56E-08	6.60E-07	1.72E-07	2.24E-07	1.62E-08	4.12E-07
4028	565000	4222537	1.76E-06	2.15E-06	1.13E-07	4.03E-06	9.34E-07	2.36E-06	1.13E-07	3.41E-06	2.31E-07	4.21E-07	3.71E-08	6.89E-07	1.79E-07	2.34E-07	1.69E-08	4.30E-07
4029	564993.2	4222525	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.72E-07	2.45E-06	1.18E-07	3.54E-06	2.41E-07	4.37E-07	3.86E-08	7.17E-07	1.86E-07	2.44E-07	1.76E-08	4.47E-07
4030	564986.3	4222513	1.9E-06	2.32E-06	1.22E-07	4.34E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.50E-07	4.53E-07	4.00E-08	7.43E-07	1.93E-07	2.52E-07	1.83E-08	4.64E-07
4031	564979.5	4222501	1.97E-06	2.4E-06	1.27E-07	4.49E-06	1.04E-06	2.63E-06	1.27E-07	3.80E-06	2.58E-07	4.69E-07	4.14E-08	7.68E-07	2.00E-07	2.61E-07	1.89E-08	4.80E-07
4032	564972.7	4222488	2.03E-06	2.47E-06	1.30E-07	4.63E-06	1.07E-06	2.71E-06	1.30E-07	3.92E-06	2.66E-07	4.83E-07	4.26E-08	7.92E-07	2.06E-07	2.69E-07	1.95E-08	4.94E-07
4033	564952.1	4222452	2.17E-06	2.65E-06	1.40E-07	4.96E-06	1.15E-06	2.91E-06	1.40E-07	4.20E-06	2.85E-07	5.18E-07	4.57E-08	8.48E-07	2.20E-07	2.88E-07	2.08E-08	5.30E-07
4034	565300.9	4222758	5.55E-07	6.78E-07	3.57E-08	1.27E-06	2.94E-07	7.44E-07	3.57E-08	1.07E-06	7.29E-08	1.32E-07	1.17E-08	2.17E-07	5.64E-08	7.38E-08	5.34E-09	1.36E-07
4035	565287.5	4222754	5.63E-07	6.88E-07	3.63E-08	1.29E-06	2.99E-07	7.54E-07	3.63E-08	1.09E-06	7.40E-08	1.34E-07	1.19E-08	2.20E-07	5.73E-08	7.48E-08	5.41E-09	1.38E-07
4036	565274.1	4222750	5.73E-07	7E-07	3.69E-08	1.31E-06	3.04E-07	7.67E-07	3.69E-08	1.11E-06	7.53E-08	1.37E-07	1.21E-08	2.24E-07	5.82E-08	7.61E-08	5.51E-09	1.40E-07
4037	565247.3	4222742	5.96E-07	7.28E-07	3.84E-08	1.36E-06	3.16E-07	7.98E-07	3.84E-08	1.15E-06	7.83E-08	1.42E-07	1.26E-08	2.33E-07	6.06E-08	7.92E-08	5.73E-09	1.45E-07
4038	565233.9	4222739	6.09E-07	7.44E-07	3.92E-08	1.39E-06	3.23E-07	8.15E-07	3.92E-08	1.18E-06	8.00E-08	1.45E-07	1.28E-08	2.38E-07	6.19E-08	8.09E-08	5.85E-09	1.49E-07
4039	565220.5	4222735	6.23E-07	7.61E-07	4.01E-08	1.42E-06	3.30E-07	8.34E-07	4.01E-08	1.20E-06	8.18E-08	1.49E-07	1.31E-08	2.44E-07	6.33E-08	8.28E-08	5.99E-09	1.52E-07
4040	565207.1	4222731	6.38E-07	7.79E-07	4.10E-08	1.46E-06	3.38E-07	8.54E-07	4.10E-08	1.23E-06	8.37E-08	1.52E-07	1.34E-08	2.49E-07	6.48E-08	8.47E-08	6.13E-09	1.56E-07
4041	565193.7	4222727	6.53E-07	7.98E-07	4.20E-08	1.49E-06	3.46E-07	8.75E-07	4.20E-08	1.26E-06	8.58E-08	1.56E-07	1.38E-08	2.55E-07	6.64E-08	8.68E-08	6.28E-09	1.59E-07
4042	565180.3	4222723	6.7E-07	8.18E-07	4.31E-08	1.53E-06	3.55E-07	8.97E-07	4.31E-08	1.29E-06	8.79E-08	1.60E-07	1.41E-08	2.62E-07	6.80E-08	8.90E-08	6.43E-09	1.63E-07
4043	565166.9	4222720	6.87E-07	8.39E-07	4.42E-08	1.57E-06	3.64E-07	9.19E-07	4.42E-08	1.33E-06	9.02E-08	1.64E-07	1.45E-08	2.68E-07	6.98E-08	9.12E-08	6.60E-09	1.68E-07
4044	565153.5	4222716	7.04E-07	8.6E-07	4.53E-08	1.61E-06	3.73E-07	9.43E-07	4.53E-08	1.36E-06	9.25E-08	1.68E-07	1.48E-08	2.75E-07	7.15E-08	9.35E-08	6.76E-09	1.72E-07
4045	565140	4222712	7.22E-07	8.82E-07	4.65E-08	1.65E-06	3.83E-07	9.66E-07	4.65E-08	1.40E-06	9.48E-08	1.72E-07	1.52E-08	2.82E-07	7.34E-08	9.59E-08	6.94E-09	1.76E-07
4046	565126.6	4222708	7.4E-07	9.04E-07	4.76E-08	1.69E-06	3.92E-07	9.90E-07	4.76E-08	1.43E-06	9.72E-08	1.77E-07	1.56E-08	2.89E-07	7.52E-08	9.83E-08	7.11E-09	1.81E-07
4047	565113.2	4222704	7.58E-07	9.25E-07	4.88E-08	1.73E-06	4.02E-07	1.01E-06	4.88E-08	1.47E-06	9.95E-08	1.81E-07	1.60E-08	2.96E-07	7.70E-08	1.01E-07	7.28E-09	1.85E-07
4048	565099.8	4222701	7.75E-07	9.47E-07	4.99E-08	1.77E-06	4.11E-07	1.04E-06	4.99E-08	1.50E-06	1.02E-07	1.85E-07	1.63E-08	3.03E-07	7.88E-08	1.03E-07	7.45E-09	1.89E-07
4049	565086.4	4222697	7.93E-07	9.68E-07	5.10E-08	1.81E-06	4.20E-07	1.06E-06	5.10E-08	1.53E-06	1.04E-07	1.89E-07	1.67E-08	3.10E-07	8.06E-08	1.05E-07	7.62E-09	1.94E-07
4050	565073	4222693	8.1E-07	9.89E-07	5.21E-08	1.85E-06	4.29E-07	1.08E-06	5.21E-08	1.57E-06	1.06E-07	1.93E-07	1.71E-08	3.17E-07	8.23E-08	1.08E-07	7.78E-09	1.98E-07
4051	565062.9	4222685	8.46E-07	1.03E-06	5.45E-08	1.93E-06	4.49E-07	1.13E-06	5.45E-08	1.64E-06	1.11E-07	2.02E-07	1.78E-08	3.31E-07	8.60E-08	1.12E-07	8.13E-09	2.07E-07
4052	565056	4222673	9.05E-07	1.11E-06	5.83E-08	2.07E-06	4.80E-07	1.21E-06	5.83E-08	1.75E-06	1.19E-07	2.16E-07	1.91E-08	3.54E-07	9.20E-08	1.20E-07	8.70E-09	2.21E-07
4053	565049.1	4222661	9.68E-07	1.18E-06	6.23E-08	2.21E-06	5.13E-07	1.30E-06	6.23E-08	1.87E-06	1.27E-07	2.31E-07	2.04E-08	3.78E-07	9.84E-08	1.29E-07	9.30E-09	2.36E-07
4054	565028.5	4222625	1.17E-06	1.43E-06	7.55E-08	2.68E-06	6.22E-07	1.57E-06	7.55E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.58E-07	1.19E-07	1.56E-07	1.13E-08	2.86E-07
4055	565021.7	4222612	1.24E-06	1.52E-06	8.01E-08	2.84

4068	565289.5	4222774	5.14E-07	6.28E-07	3.31E-08	1.17E-06	2.72E-07	6.88E-07	3.31E-08	9.94E-07	6.75E-08	1.23E-07	1.08E-08	2.01E-07	5.22E-08	6.83E-08	4.94E-09	1.25E-07
4069	565276.1	4222770	5.22E-07	6.37E-07	3.36E-08	1.19E-06	2.77E-07	6.99E-07	3.36E-08	1.01E-06	6.85E-08	1.24E-07	1.10E-08	2.04E-07	5.30E-08	6.93E-08	5.01E-09	1.27E-07
4070	565087.6	4222716	7.1E-07	8.67E-07	4.57E-08	1.62E-06	3.76E-07	9.51E-07	4.57E-08	1.37E-06	9.32E-08	1.69E-07	1.50E-08	2.78E-07	7.22E-08	9.43E-08	6.82E-09	1.73E-07
4071	565074.2	4222713	7.26E-07	8.86E-07	4.67E-08	1.66E-06	3.85E-07	9.72E-07	4.67E-08	1.40E-06	9.53E-08	1.73E-07	1.53E-08	2.84E-07	7.38E-08	9.64E-08	6.97E-09	1.77E-07
4072	565060.7	4222709	7.41E-07	9.05E-07	4.77E-08	1.69E-06	3.93E-07	9.92E-07	4.77E-08	1.43E-06	9.73E-08	1.77E-07	1.56E-08	2.90E-07	7.53E-08	9.85E-08	7.12E-09	1.81E-07
4073	565050.5	4222701	7.74E-07	9.45E-07	4.98E-08	1.77E-06	4.10E-07	1.04E-06	4.98E-08	1.50E-06	1.02E-07	1.85E-07	1.63E-08	3.03E-07	7.86E-08	1.03E-07	7.43E-09	1.89E-07
4074	565029.8	4222664	9.41E-07	1.15E-06	6.06E-08	2.15E-06	4.99E-07	1.26E-06	6.06E-08	1.82E-06	1.24E-07	2.25E-07	1.98E-08	3.68E-07	9.56E-08	1.25E-07	9.04E-09	2.30E-07
4075	565022.9	4222652	1E-06	1.22E-06	6.45E-08	2.29E-06	5.31E-07	1.34E-06	6.45E-08	1.94E-06	1.32E-07	2.39E-07	2.11E-08	3.92E-07	1.02E-07	1.33E-07	9.63E-09	2.45E-07
4076	565009.1	4222628	1.13E-06	1.38E-06	7.28E-08	2.58E-06	6.00E-07	1.51E-06	7.28E-08	2.19E-06	1.49E-07	2.70E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
4077	565002.2	4222616	1.2E-06	1.46E-06	7.70E-08	2.74E-06	6.35E-07	1.60E-06	7.70E-08	2.31E-06	1.57E-07	2.86E-07	2.52E-08	4.68E-07	1.22E-07	1.59E-07	1.15E-08	2.92E-07
4078	564995.3	4222603	1.26E-06	1.54E-06	8.13E-08	2.89E-06	6.70E-07	1.69E-06	8.13E-08	2.44E-06	1.66E-07	3.01E-07	2.66E-08	4.94E-07	1.28E-07	1.68E-07	1.21E-08	3.08E-07
4079	564988.4	4222591	1.33E-06	1.62E-06	8.56E-08	3.04E-06	7.05E-07	1.78E-06	8.56E-08	2.57E-06	1.75E-07	3.17E-07	2.80E-08	5.20E-07	1.35E-07	1.77E-07	1.28E-08	3.24E-07
4080	564981.5	4222579	1.39E-06	1.7E-06	8.98E-08	3.19E-06	7.39E-07	1.87E-06	8.98E-08	2.70E-06	1.83E-07	3.33E-07	2.94E-08	5.45E-07	1.42E-07	1.85E-07	1.34E-08	3.40E-07
4081	564974.6	4222567	1.46E-06	1.78E-06	9.39E-08	3.34E-06	7.74E-07	1.95E-06	9.39E-08	2.82E-06	1.92E-07	3.48E-07	3.07E-08	5.70E-07	1.48E-07	1.94E-07	1.40E-08	3.56E-07
4082	564967.7	4222555	1.52E-06	1.86E-06	9.80E-08	3.48E-06	8.07E-07	2.04E-06	9.80E-08	2.94E-06	2.00E-07	3.63E-07	3.21E-08	5.95E-07	1.55E-07	2.02E-07	1.46E-08	3.72E-07
4083	564960.8	4222543	1.58E-06	1.93E-06	1.02E-07	3.62E-06	8.39E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.78E-07	3.33E-08	6.19E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
4084	564953.9	4222530	1.64E-06	2.01E-06	1.06E-07	3.75E-06	8.70E-07	2.20E-06	1.06E-07	3.17E-06	2.16E-07	3.92E-07	3.46E-08	6.42E-07	1.67E-07	2.18E-07	1.58E-08	4.01E-07
4085	564947	4222518	1.7E-06	2.07E-06	1.09E-07	3.88E-06	9.00E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.05E-07	3.57E-08	6.63E-07	1.72E-07	2.25E-07	1.63E-08	4.14E-07
4086	564940.1	4222506	1.75E-06	2.14E-06	1.13E-07	4.00E-06	9.27E-07	2.34E-06	1.13E-07	3.38E-06	2.30E-07	4.17E-07	3.68E-08	6.83E-07	1.78E-07	2.32E-07	1.68E-08	4.27E-07
4087	564919.4	4222470	1.88E-06	2.29E-06	1.21E-07	4.29E-06	9.95E-07	2.51E-06	1.21E-07	3.63E-06	2.46E-07	4.48E-07	3.95E-08	7.34E-07	1.91E-07	2.49E-07	1.80E-08	4.58E-07
4088	564912.5	4222457	1.91E-06	2.33E-06	1.23E-07	4.36E-06	1.01E-06	2.56E-06	1.23E-07	3.69E-06	2.51E-07	4.56E-07	4.02E-08	7.46E-07	1.94E-07	2.54E-07	1.83E-08	4.66E-07
4089	565305.1	4222797	4.66E-07	5.69E-07	3.00E-08	1.07E-06	2.47E-07	6.24E-07	3.00E-08	9.01E-07	6.12E-08	1.11E-07	9.82E-09	1.82E-07	4.74E-08	6.19E-08	4.48E-09	1.14E-07
4090	565291.6	4222793	4.72E-07	5.76E-07	3.03E-08	1.08E-06	2.50E-07	6.31E-07	3.03E-08	9.12E-07	6.19E-08	1.12E-07	9.93E-09	1.84E-07	4.79E-08	6.26E-08	4.53E-09	1.15E-07
4091	565278.1	4222790	4.78E-07	5.84E-07	3.08E-08	1.09E-06	2.53E-07	6.40E-07	3.08E-08	9.24E-07	6.28E-08	1.14E-07	1.01E-08	1.87E-07	4.86E-08	6.35E-08	4.59E-09	1.17E-07
4092	565251.1	4222782	4.94E-07	6.03E-07	3.18E-08	1.13E-06	2.62E-07	6.61E-07	3.18E-08	9.54E-07	6.48E-08	1.18E-07	1.04E-08	1.93E-07	5.02E-08	6.56E-08	4.74E-09	1.20E-07
4093	565237.5	4222778	5.03E-07	6.14E-07	3.23E-08	1.15E-06	2.66E-07	6.73E-07	3.23E-08	9.72E-07	6.60E-08	1.20E-07	1.06E-08	1.96E-07	5.11E-08	6.68E-08	4.83E-09	1.23E-07
4094	565224	4222774	5.12E-07	6.26E-07	3.30E-08	1.17E-06	2.72E-07	6.86E-07	3.30E-08	9.90E-07	6.73E-08	1.22E-07	1.08E-08	2.00E-07	5.20E-08	6.80E-08	4.92E-09	1.25E-07
4095	565210.5	4222770	5.22E-07	6.38E-07	3.36E-08	1.19E-06	2.77E-07	6.99E-07	3.36E-08	1.01E-06	6.86E-08	1.25E-07	1.10E-08	2.04E-07	5.31E-08	6.94E-08	5.02E-09	1.28E-07
4096	565197	4222767	5.33E-07	6.51E-07	3.43E-08	1.22E-06	2.83E-07	7.14E-07	3.43E-08	1.03E-06	7.00E-08	1.27E-07	1.12E-08	2.08E-07	5.42E-08	7.08E-08	5.12E-09	1.30E-07
4097	565183.5	4222763	5.45E-07	6.65E-07	3.51E-08	1.25E-06	2.89E-07	7.29E-07	3.51E-08	1.05E-06	7.15E-08	1.30E-07	1.15E-08	2.13E-07	5.54E-08	7.24E-08	5.23E-09	1.33E-07
4098	565170	4222759	5.57E-07	6.8E-07	3.58E-08	1.27E-06	2.95E-07	7.45E-07	3.58E-08	1.08E-06	7.31E-08	1.33E-07	1.17E-08	2.18E-07	5.66E-08	7.40E-08	5.35E-09	1.36E-07
4099	565156.5	4222755	5.69E-07	6.95E-07	3.66E-08	1.30E-06	3.02E-07	7.62E-07	3.66E-08	1.10E-06	7.48E-08	1.36E-07	1.20E-08	2.23E-07	5.79E-08	7.56E-08	5.47E-09	1.39E-07
4100	565143	4222751	5.83E-07	7.11E-07	3.75E-08	1.33E-06	3.09E-07	7.80E-07	3.75E-08	1.13E-06	7.65E-08	1.39E-07	1.23E-08	2.28E-07	5.92E-08	7.74E-08	5.60E-09	1.42E-07
4101	565129.5	4222747	5.96E-07	7.28E-07	3.84E-08	1.36E-06	3.16E-07	7.98E-07	3.84E-08	1.15E-06	7.83E-08	1.42E-07	1.26E-08	2.33E-07	6.06E-08	7.92E-08	5.73E-09	1.45E-07
4102	565115.9	4222744	6.1E-07	7.45E-07	3.93E-08	1.39E-06	3.23E-07	8.17E-07	3.93E-08	1.18E-06	8.01E-08	1.46E-07	1.28E-08	2.39E-07	6.20E-08	8.10E-08	5.86E-09	1.49E-07
4103	565102.4	4222740	6.24E-07	7.62E-07	4.02E-08	1.43E-06	3.31E-07	8.36E-07	4.02E-08	1.21E-06	8.20E-08	1.49E-07	1.31E-08	2.44E-07	6.34E-08	8.29E-08	6.00E-09	1.52E-07
4104	565088.9	4222736	6.38E-07	7.8E-07	4.11E-08	1.46E-06	3.39E-07	8.55E-07	4.11E-08	1.23E-06	8.39E-08	1.52E-07	1.34E-08	2.50E-07	6.49E-08	8.48E-08	6.13E-09	1.56E-07
4105	565075.4	4222732	6.53E-07	7.97E-07	4.20E-08	1.49E-06	3.46E-07	8.74E-07	4.20E-08	1.26E-06	8.57E-08	1.56E-07	1.37E-08	2.55E-07	6.63E-08	8.67E-08	6.27E-09	1.59E-07
4106	565061.9	4222728	6.67E-07	8.15E-07	4.29E-08	1.52E-06	3.54E-07	8.93E-07	4.29E-08	1.29E-06	8.76E-08	1.59E-07	1.40E-08	2.61E-07	6.78E-08	8.86E-08	6.41E-09	1.63E-07
4107	565031.2	4222704	7.57E-07	9.25E-07	4.88E-08	1.73E-06	4.02E-07	1.01E-06	4.88E-08	1.46E-06	9.95E-08	1.81E-07	1.60E-08	2.96E-07	7.70E-08	1.01E-07	7.28E-09	1.85E-07
4108	565024.3	4222692	8.07E-07	9.86E-07	5.20E-08	1.85E-06	4.28E-07	1.08E-06	5.20E-08	1.56E-06	1.06E-07	1.93E-07	1.70E-08	3.16E-07	8.20E-08	1.07E-07	7.76E-09	1.97E-07
4109	565017.4	4222680	8.6E-07	1.05E-06	5.54E-08	1.97E-06	4.56E-07	1.15E-06	5.54E-08	1.66E-06	1.13E-07	2.05E-07	1.81E-08	3.36E-07	8.74E-08	1.14E-07	8.26E-09	2.10E-07
4110	565010.5	4222668	9.15E-07	1.12E-06	5.89E-08	2.09E-06	4.85E-07	1.23E-06	5.89E-08	1.77E-06	1.20E-07	2.18E-07	1.93E-08	3.58E-07	9.30E-08	1.22E-07	8.79E-09	2.23E-07
4111	565003.5	4222655	9.72E-07	1.19E-06	6.26E-08	2.22E-06	5.16E-07	1.30E-06	6.26E-08	1.88E-06	1.28E-07	2.32E-07	2.05E-08	3.80E-07	9.88E-08	1.29E-07	9.34E-09	2.37E-07
4112	564989.7	4222631	1.09E-06	1.33E-06	7.03E-08	2.49E-06	5.79E-07	1.46E-06	7.03E-08	2.11E-06	1.43E-07	2.60E-07	2.30E-08	4.27E-07	1.11E-07	1.45E-07	1.05E-08	2.66E-07
4113	564982.8	4222619	1.15E-06	1.41E-06	7.42E-08	2.63E-06	6.11E-07	1.54E-06	7.42E-08	2.23E-06	1.51E-07	2.75E-07	2.43E-08	4.51E-07	1.17E-07	1.53E-07	1.11E-08	2.81E-07
4114	564975.8	4222607	1.21E-06	1.48E-06	7.81E-08	2.77E-06	6.43E-07	1.62E-06	7.81E-08	2.35E-06	1.59E-07	2.90E-07	2.56E-08	4.75E-07	1.23E-07	1.61E-07	1.17E-08	2.96E-07
4115	564968.9	4222594	1.27E-06	1.56E-06	8.20E-08	2.91E-06	6.75E-07	1.71E-06	8.20E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.98E-07	1.29E-07	1.69E-07	1.22E-08	3.11E-07
4116	564962	4222582	1.33E-06	1.63E-06	8.58E-08	3.05E-06	7.07E-07	1.78E-06	8.58E-08	2.58E-06	1.75E-07	3.18E-07	2.81E-08	5.21E-07	1.35E-07	1.77E-07	1.28E-08	3.25E-07
4117	564955.1	4222570	1.39E-06	1.7E-06	8.96E-08	3.18E-06	7.38E-07	1.86E-06	8.96E-08	2.69E-06	1.83E-07	3.32E-07	2.93E-08	5.44E-07	1.41E-07	1.85E-07	1.34E-08	3.40E-07
4118	564948.1	4222558	1.45E-06	1.77E-06	9.33E-08	3.31E-06	7.68E-07	1.94E-06	9.33E-08	2.80E-06	1.90E-07	3.46E-07	3.05E-08	5.67E-07	1.47E-07	1.92E-07	1.39E-08	3.54E-07
4119	564941.2	4222546	1.5E-06	1.84E-06	9.68E-08	3.44E-06	7.97E-07	2.01E-06	9.68E-08	2.91E-06	1.98E-07	3.59E-07	3.17E-08	5.88E-07	1.53E-07	2.00E-07	1.44E-08	3.67E-07
4120	564934.3	4222533	1.56E-06	1.9E-06	1.00E-07	3.56E-06	8.25E-07	2.08E-06	1.00E-07	3.01E-06	2.04E-07	3.71E-07	3.28E-08	6.09E-07	1.58E-07	2.07E-07	1.50E-08	3.80E-07
4121	564927.4	4222521	1.61E-06	1.96E-06	1.03E-07	3.67E-06	8.52E-07	2.15E-06	1.03E-07	3.11E-06	2.11E-07	3.83E-07	3.38E-08	6.28E-07	1.63E-07	2.13E-07	1.54E-08	3.92E-07
4122	564920.4	4222509	1.65E-06	2.02E-06	1.06E-07	3.78E-06	8.76E-07	2.21E-06	1.06E-07	3.20E-06	2.17E-07	3.94E-07	3.48E-08	6.46E-07	1.68E-07	2.20E-07	1.59E-08	4.03E-07
4123	564906.6	4222484	1.73E-06	2.12E-06	1.12E-07	3.96E-06	9.19E-07	2.32E-06	1.12E-07	3.35E-06	2.28E-07	4.14E-07	3.65E-08	6.78E-07	1.76E-07	2.30E-07	1.67E-08	4.23E-07
4124	564899.7	4222472	1.77E-06	2.16E-06	1.14E-07	4.04E-06	9.37E-07	2.37E-06	1.14E-07	3.42E-06	2.32E-07	4.22E-07	3.72E-08	6.91E-07	1.80E-07	2.35E-07	1.70E-08	4.31E-07
4125	564892.7	4222460	1.8E-06	2.2E-06	1.16E-07	4.11E-06	9.53E-07	2.41E-06	1.16E-07	3.47E-06	2.36E-07	4.29E-07	3.79E-08	7.03E-07	1.83E-07	2.39E-07	1.73E-08	4.39E-07
4126	565307.2	4222817	4.3E-07	5.25E-07	2.77E-08	9.83E-07	2.28E-07	5.76E-07	2.77E-08	8.32E-07	5.65E-08	1.03E-07	9.06E-09	1.68E-07	4.37E-08	5.71E-08	4.13E-09	1.05E-07
4127	565293.7	4222813	4.35E-07	5.31E-07	2.80E-08	9.94E-07	2.31E-07	5.82E-07	2.80E-08	8.41E-07	5.71E-08	1.04E-07	9.16E-09	1.70E-07	4.42E-08	5.78E-08	4.18E-09	1.06E-07
4128	565280.1	4222809	4.4E-07	5.38E-07	2.83E-08	1.01E-06	2.33E-07	5.89E-07	2.83E-08	8.51E-07	5.78E-08	1.05E-07	9.27E-09	1.72E-07	4.47E-08	5.85E-08	4.23E-09	1.07E-07
4129	565253	4222802	4.53E-07	5.54E-07	2.92E-08	1.04E-06	2.40E-07	6.07E-07	2.92E-08	8.76E-07	5.95E-08	1.08E-07	9.55E-09	1.77E-07	4.61E-08	6.02E-08	4.36E-09	1.11E-07
4130	565239.4	4222798	4.61E-07	5.63E-07	2.97E-08	1.05E-06	2.44E-07	6.17E-07	2.97E-08	8.91E-07	6.05E-08	1.10E-07	9.70E-09	1.80E-07	4.68E-08	6.12E-08	4.43E-09	1.12E-07
4131	565225.9	4222794	4.69E-07	5.73E-07	3.02E-08	1.07E-06	2.49E-07	6.28E-07	3.02E-08	9.06E-07	6.16E-08	1.12E-07	9.87E-09	1.83E-07	4.76E-08	6.23E-08	4.50E-09	1.14E-07
4132	565212.3	4222790	4.77E-07	5.83E-07	3.07E-08	1.09E-06	2.53E-07	6.39E-07	3.07E-08	9.23E-07	6.27E-08	1.14E-07	1.01E-08	1.87E-07	4.85E-08	6.34E-08	4.59E-09	1.17E-07
4133	565198.8	4222786	4.86E-07	5.94E-07	3.13E-08	1.11E-06	2.58E-07	6.51E-07	3.13E-08	9.41E-07	6.39E-08	1.16E-07	1.02E-08	1.90E-07	4.94E-08	6.46E-08	4.67E-09	1.19E-07
4134	565185.2	4222782	4.96E-07	6.06E-07	3.19E-08	1.13E-06	2.63E-07	6.64E-07	3.19E-08	9.59E-07	6.52E-08	1.18E-07	1.04E-08	1.94E-07	5.04E-08	6.59E-08	4.77E-09	1.21E-07
4135	565171.6	4222779	5.06E-07	6.18E-07	3.26E-08	1.16E-06	2.68E-07	6.78E-07	3.26E-08	9.79E-07	6.65E-08	1.21E-07	1.07E-08	1.98E-07	5.15E-08	6.73E-08	4.86E-09	1.24E-07
4136	565158.1	4222775	5.17E-07	6.31E-07	3.33E-08	1.18E-06	2.74E-07	6.92E-07	3.33E-08	1.00E-06	6.79E-08	1.23E-07	1.09E-08	2.02E-07	5.25E-08	6.87E-08	4.97E-09	1.26E-07
4137	565144.5	4222771	5.28E-07	6.45E-07	3.40E-08	1.21E-06	2.80E-07	7.07E-07	3.40E-08	1.02E-06	6.94E-08	1.26E-07	1.11E-08	2.07E-07	5.37E-08	7.02E-08	5.07E-09	1.29E-07
4138	565131	4222767	5.4E-07	6.59E-07	3.47E-08	1.23E-06	2.86E-07	7.23E-07	3.47E-08	1.04E-06	7.09E-08	1.29E-07	1.14E-08	2.11E-07	5.49E-08	7.17E-08	5.19E-09	1.32E-07
4139	565117.4	4222763	5.52E-07	6.74E-07	3.55E-08	1.26E-06	2.93E-07	7.39E-07	3.55E-08	1.07E-06	7.25E-08	1.32E-07	1.16E-08	2.16E-07	5.61E-08	7.33E-08	5.30E-09	1.35E-07
4140	565103.8	4222759	5.64E-07	6.89E-07	3.63E-08	1.29E-06	2.99E-07	7.55E-07	3.63E-08	1.09E-06	7.41E-08	1.35E-07	1.19E-08	2.21E-07	5.73E-08	7.50E-08	5.42E-09	1.38E-07
4141	565090.3	4222756	5.77E-07	7.05E-07	3.71E-08	1.32E-06	3.06E-07	7.72E-07	3.71E-08	1.12E-06	7.58E-08	1.38E-07	1.22E-08	2.26E-07	5.86E-08	7.66E-08	5.54E-09	1.41E-07
4142	565076.7	4222752	5.9E-07	7.2E-07	3.80E-08	1.35E-06	3.13E-07	7.90E-07	3.80E-08	1.14E-06	7.74E-08	1.41E-07	1.24E-08	2.31E-07	5.99E-08	7.83E-08	5.67E-09	1.44E-07
4143	565063.2	4222748	6.03E-07	7.36E-07	3.88E-08	1.38E-06	3.20E-07	8.07E-07	3.88E-08	1.17E-06	7.91E-08	1.44E-07	1.27E-08	2.36E-07	6.12E-08	8.01E-08	5.79E-09	1.47E-07
4144	565049.6	4222744	6.15E-07	7.52E-07	3.96E-08	1.41E-06	3.26E-07	8.24E-07	3.96E-08	1.19E-06	8.08E-08	1.47E-07	1.30E-08	2.41E-07	6.25E-08	8.18E-08	5.91E-09	1.50E-07
4145	565025.8	4222732	6.55E-07	8E-07	4.21E-08	1.50E-06	3.47E-07	8.76E-07	4.21E-08	1.27E-06	8.60E-08	1.56E-07	1.38E-08	2.56E-07	6.65E-08	8.70E-08	6.29E-09	1.60E-07
4146	565018.9	4222720	6.97E-07	8.51E-07	4.48E-08	1.59E-06	3.69E-07	9.33E-07	4.48E-08	1.35E-06	9.15E-08	1.66E-07	1.47E-08	2.72E-07	7.08E-08	9.26E-08	6.69E-09	1.70E-07
4147	565011.9	4222708	7.41E-07	9.06E-07	4.77E-08	1.69E-06	3.93E-07	9.93E-07	4.77E-08	1.43E-06	9.74E-08	1.77E-07	1.56E-08	2.90E-07	7.54E-08	9.85E-08	7.12E-09	1.81E-07
4148	565005	4222695	7.89E-07	9.63E-07	5.08E-08	1.80E-06	4.18E-07	1.06E-06	5.08E-08	1.53E-06	1.04E-07	1.88E-07	1.66E-08	3.08E-07	8.02E-08	1.05E-07	7.58E-09	1.93E-07
4149	564998	4222683	8.38E-07	1.02E-06	5.40E-08	1.92E-06	4.45E-07	1.12E-06	5.40E-08	1.62E-06	1.10E-07	2.00E-07	1.77E-08	3.28E-07	8.52E-08	1.11E-07	8.06E-09	2.05E-07
4150	564991.1	4222671	8.9E-07	1.09E-06	5.73E-08	2.03E-06	4.72E-07	1.19E-06	5.73E-08	1.72E-06	1.17E-07	2.12E-07	1.87E-08	3.48E-07	9.05E-08	1.18E-07	8.55E-09	2.17E-07
4151	564984.1	4222659	9.44E-07	1.15E-06	6.07E-08	2.16E-06	5.00E-07	1.26E-06	6.07E-08	1.82E-06	1.24E-07	2.25E-07	1.99E-08	3.69E-07	9.59E-08	1.25E-07	9.07E-09	2.30E-07
4152	564970.2	4222634	1.05E-06	1.29E-06	6.78E-08	2.41E-06	5.59E-07	1.41E-06	6.78E-08	2.04E-06	1.38E-07	2.51E-07	2.22E-08	4.12E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
4153	564963.3	4222622	1.11E-06	1.36E-06	7.15E-08	2.54E-06	5.89E-07	1.49E-06	7.15E-08	2.15E-06	1.46E-07	2.65E-07	2.34E-08	4.34E-07	1.13E-07	1.47E-07	1.07E-08	2.71E-07
4154	564956.3	4222610	1.17E-06	1.42E-06	7.51E-08	2.67E-06	6.18E-07	1.56E-06	7.51E-08	2.26E-06	1.53E-07	2.78E-07	2.46E-08	4.56E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
4155	564949.4	4222597	1.22E-06	1.49E-06	7.86E-08	2.79E-06	6.48E-07	1.64E-06	7.86E-08	2.36E-06	1.60E-07	2.92E-07	2.57E-08	4.78E-07	1.24E-07	1.62E-07	1.17E-08	2.98E-07
4156	564942.4	4222585	1.28E-06	1.56E-06	8.22E-08	2.92E-06	6.77E-07	1.71E-06	8.22E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	4.99E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
4157	564935.5	4222573	1.33E-06	1.62E-06	8.56E-08	3.04E-06	7.05E-07	1.78E-06	8.56E-08	2.57E-06	1.75E-07	3.17E-07	2.80E-08	5.20E-07	1.35E-07	1.77E-07	1.28E-08	3.25E-07
4158	564928.5	4222561	1.38E-06	1.69E-06	8.89E-08	3.16E-06	7.33E-07	1.85E-06	8.89E-08	2.67E-06	1.81E-07	3.30E-07	2.91E-08	5.40E-07	1.40E-07	1.84E-07	1.33E-08	3.37E-07
4159	564921.6	4222548	1.43E-06	1.75E-06	9.21E-08	3.27E-06	7.59E-07	1.92E-06	9.21E-08	2.77E-06	1.88E-07	3.41E-07	3.01E-08	5.59E-07	1.45E-07	1.90E-07	1.37E-08	3.49E-07
4160	564914.6	4222536	1.48E-06	1.81E-06	9.51E-08	3.38E-06	7.84E-07	1.98E-06	9.51E-08	2.86E-06	1.94E-07	3.53E-07	3.11E-08	5.78E-07	1.50E-07	1.96E-07	1.42E-08	3.61E-07
4161	564907.7	4222524	1.52E-06	1.86E-06	9.80E-08	3.48E-06	8.07E-07	2.04E-06	9.80E-08	2.94E-06	2.00E-07	3.63E-07	3.21E-08	5.95E-07	1.55E-07	2.02E-07	1.46E-08	3.72E-07
4162	564886.8	4222487	1.64E-06	2E-06	1.05E-07	3.74E-06	8.69E-07	2.19E-06	1.05E-07	3.17E-06	2.15E-07	3.91E-07	3.45E-08	6.41E-07	1.66E-07	2.18E-07	1.57E-08	4.00E-07
4163	564879.9	4222475	1.67E-06	2.04E-06	1.07E-07	3.81E-06	8.85E-07	2.23E-06	1.07E-07	3.23E-06	2.19E-07	3.98E-07	3.52E-08	6.53E-07	1.70E-07	2.22E-07	1.60E-08	4.07E-07
4164	564872.9	4222463	1.7E-06	2.07E-06	1.09E-07	3.88E-06	9.00E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.05E-07	3.57E-08	6.63E-07	1.72E-07	2.25E-07	1.63E-08	4.14E-07
4165	565309.3	4222837	3.99E-07	4.87E-07	2.57E-08	9.11E-07

4178	565118.9	4222783	5.02E-07	6.13E-07	3.23E-08	1.15E-06	2.66E-07	6.72E-07	3.23E-08	9.71E-07	6.59E-08	1.20E-07	1.06E-08	1.96E-07	5.10E-08	6.67E-08	4.82E-09	1.23E-07
4179	565105.3	4222779	5.13E-07	6.26E-07	3.30E-08	1.17E-06	2.72E-07	6.86E-07	3.30E-08	9.91E-07	6.73E-08	1.22E-07	1.08E-08	2.00E-07	5.21E-08	6.81E-08	4.93E-09	1.25E-07
4180	565091.7	4222775	5.24E-07	6.4E-07	3.37E-08	1.20E-06	2.78E-07	7.01E-07	3.37E-08	1.01E-06	6.88E-08	1.25E-07	1.10E-08	2.05E-07	5.32E-08	6.96E-08	5.03E-09	1.28E-07
4181	565078.1	4222771	5.35E-07	6.54E-07	3.44E-08	1.22E-06	2.84E-07	7.16E-07	3.44E-08	1.03E-06	7.03E-08	1.28E-07	1.13E-08	2.09E-07	5.44E-08	7.11E-08	5.14E-09	1.31E-07
4182	565064.5	4222768	5.47E-07	6.68E-07	3.52E-08	1.25E-06	2.90E-07	7.32E-07	3.52E-08	1.06E-06	7.18E-08	1.30E-07	1.15E-08	2.14E-07	5.56E-08	7.26E-08	5.25E-09	1.33E-07
4183	565050.9	4222764	5.58E-07	6.82E-07	3.59E-08	1.28E-06	2.96E-07	7.47E-07	3.59E-08	1.08E-06	7.33E-08	1.33E-07	1.18E-08	2.18E-07	5.67E-08	7.42E-08	5.36E-09	1.36E-07
4184	565023.7	4222756	5.82E-07	7.1E-07	3.74E-08	1.33E-06	3.08E-07	7.79E-07	3.74E-08	1.12E-06	7.64E-08	1.39E-07	1.22E-08	2.27E-07	5.91E-08	7.73E-08	5.59E-09	1.42E-07
4185	565013.5	4222748	6.05E-07	7.39E-07	3.90E-08	1.38E-06	3.21E-07	8.10E-07	3.90E-08	1.17E-06	7.95E-08	1.44E-07	1.27E-08	2.37E-07	6.15E-08	8.04E-08	5.82E-09	1.48E-07
4186	565006.5	4222736	6.43E-07	7.86E-07	4.14E-08	1.47E-06	3.41E-07	8.61E-07	4.14E-08	1.24E-06	8.45E-08	1.53E-07	1.35E-08	2.51E-07	6.54E-08	8.54E-08	6.18E-09	1.57E-07
4187	564999.5	4222723	6.83E-07	8.35E-07	4.40E-08	1.56E-06	3.62E-07	9.15E-07	4.40E-08	1.32E-06	8.98E-08	1.63E-07	1.44E-08	2.67E-07	6.95E-08	9.08E-08	6.57E-09	1.67E-07
4188	564992.5	4222711	7.26E-07	8.87E-07	4.67E-08	1.66E-06	3.85E-07	9.72E-07	4.67E-08	1.40E-06	9.54E-08	1.73E-07	1.53E-08	2.84E-07	7.38E-08	9.65E-08	6.98E-09	1.77E-07
4189	564985.6	4222699	7.71E-07	9.41E-07	4.96E-08	1.76E-06	4.09E-07	1.03E-06	4.96E-08	1.49E-06	1.01E-07	1.84E-07	1.62E-08	3.01E-07	7.83E-08	1.02E-07	7.41E-09	1.88E-07
4190	564978.6	4222686	8.18E-07	9.99E-07	5.26E-08	1.87E-06	4.34E-07	1.09E-06	5.26E-08	1.58E-06	1.07E-07	1.95E-07	1.72E-08	3.20E-07	8.31E-08	1.09E-07	7.86E-09	2.00E-07
4191	564971.6	4222674	8.66E-07	1.06E-06	5.58E-08	1.98E-06	4.59E-07	1.16E-06	5.58E-08	1.67E-06	1.14E-07	2.07E-07	1.82E-08	3.39E-07	8.80E-08	1.15E-07	8.32E-09	2.11E-07
4192	564964.7	4222662	9.16E-07	1.12E-06	5.90E-08	2.09E-06	4.86E-07	1.23E-06	5.90E-08	1.77E-06	1.20E-07	2.19E-07	1.93E-08	3.58E-07	9.31E-08	1.22E-07	8.80E-09	2.24E-07
4193	564950.7	4222637	1.02E-06	1.24E-06	6.56E-08	2.33E-06	5.40E-07	1.36E-06	6.56E-08	1.97E-06	1.34E-07	2.43E-07	2.15E-08	3.98E-07	1.04E-07	1.35E-07	9.79E-09	2.49E-07
4194	564943.7	4222625	1.07E-06	1.31E-06	6.89E-08	2.45E-06	5.68E-07	1.43E-06	6.89E-08	2.07E-06	1.41E-07	2.55E-07	2.25E-08	4.19E-07	1.09E-07	1.42E-07	1.03E-08	2.61E-07
4195	564936.8	4222613	1.12E-06	1.37E-06	7.22E-08	2.56E-06	5.95E-07	1.50E-06	7.22E-08	2.17E-06	1.47E-07	2.68E-07	2.36E-08	4.39E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
4196	564929.8	4222600	1.17E-06	1.43E-06	7.55E-08	2.68E-06	6.22E-07	1.57E-06	7.55E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.59E-07	1.19E-07	1.56E-07	1.13E-08	2.86E-07
4197	564922.8	4222588	1.22E-06	1.49E-06	7.87E-08	2.80E-06	6.49E-07	1.64E-06	7.87E-08	2.37E-06	1.61E-07	2.92E-07	2.58E-08	4.78E-07	1.24E-07	1.63E-07	1.18E-08	2.99E-07
4198	564915.9	4222576	1.27E-06	1.55E-06	8.19E-08	2.91E-06	6.75E-07	1.70E-06	8.19E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.97E-07	1.29E-07	1.69E-07	1.22E-08	3.11E-07
4199	564908.9	4222564	1.32E-06	1.61E-06	8.49E-08	3.01E-06	6.99E-07	1.77E-06	8.49E-08	2.55E-06	1.73E-07	3.15E-07	2.78E-08	5.16E-07	1.34E-07	1.75E-07	1.27E-08	3.22E-07
4200	564901.9	4222551	1.36E-06	1.66E-06	8.77E-08	3.12E-06	7.23E-07	1.83E-06	8.77E-08	2.64E-06	1.79E-07	3.25E-07	2.87E-08	5.33E-07	1.39E-07	1.81E-07	1.31E-08	3.33E-07
4201	564867.1	4222490	1.55E-06	1.89E-06	9.98E-08	3.54E-06	8.22E-07	2.08E-06	9.98E-08	3.00E-06	2.04E-07	3.70E-07	3.26E-08	6.06E-07	1.58E-07	2.06E-07	1.49E-08	3.78E-07
4202	564860.1	4222477	1.58E-06	1.93E-06	1.02E-07	3.61E-06	8.37E-07	2.11E-06	1.02E-07	3.05E-06	2.07E-07	3.77E-07	3.32E-08	6.17E-07	1.60E-07	2.10E-07	1.52E-08	3.85E-07
4203	564853.1	4222465	1.6E-06	1.96E-06	1.03E-07	3.67E-06	8.50E-07	2.15E-06	1.03E-07	3.10E-06	2.11E-07	3.83E-07	3.38E-08	6.27E-07	1.63E-07	2.13E-07	1.54E-08	3.91E-07
4204	565311.5	4222857	3.71E-07	4.53E-07	2.39E-08	8.47E-07	1.97E-07	4.96E-07	2.39E-08	7.17E-07	4.87E-08	8.84E-08	7.81E-09	1.45E-07	3.77E-08	4.92E-08	3.56E-09	9.05E-08
4205	565297.8	4222853	3.74E-07	4.57E-07	2.41E-08	8.55E-07	1.98E-07	5.01E-07	2.41E-08	7.23E-07	4.91E-08	8.92E-08	7.87E-09	1.46E-07	3.80E-08	4.97E-08	3.59E-09	9.13E-08
4206	565284.2	4222849	3.78E-07	4.61E-07	2.43E-08	8.63E-07	2.00E-07	5.06E-07	2.43E-08	7.30E-07	4.96E-08	9.01E-08	7.95E-09	1.48E-07	3.84E-08	5.02E-08	3.63E-09	9.22E-08
4207	565256.9	4222841	3.87E-07	4.73E-07	2.49E-08	8.85E-07	2.05E-07	5.18E-07	2.49E-08	7.49E-07	5.08E-08	9.24E-08	8.15E-09	1.51E-07	3.93E-08	5.14E-08	3.72E-09	9.45E-08
4208	565079.6	4222791	4.88E-07	5.96E-07	3.14E-08	1.11E-06	2.59E-07	6.53E-07	3.14E-08	9.43E-07	6.41E-08	1.16E-07	1.03E-08	1.91E-07	4.96E-08	6.48E-08	4.69E-09	1.19E-07
4209	565066	4222787	4.98E-07	6.08E-07	3.21E-08	1.14E-06	2.64E-07	6.67E-07	3.21E-08	9.63E-07	6.54E-08	1.19E-07	1.05E-08	1.95E-07	5.06E-08	6.62E-08	4.78E-09	1.22E-07
4210	565052.3	4222783	5.08E-07	6.21E-07	3.27E-08	1.16E-06	2.70E-07	6.81E-07	3.27E-08	9.83E-07	6.68E-08	1.21E-07	1.07E-08	1.99E-07	5.17E-08	6.75E-08	4.88E-09	1.24E-07
4211	565025.1	4222776	5.29E-07	6.47E-07	3.41E-08	1.21E-06	2.81E-07	7.09E-07	3.41E-08	1.02E-06	6.95E-08	1.26E-07	1.12E-08	2.07E-07	5.38E-08	7.03E-08	5.09E-09	1.29E-07
4212	565011.4	4222772	5.4E-07	6.6E-07	3.48E-08	1.23E-06	2.86E-07	7.23E-07	3.48E-08	1.04E-06	7.09E-08	1.29E-07	1.14E-08	2.11E-07	5.49E-08	7.17E-08	5.19E-09	1.32E-07
4213	565001.1	4222764	5.62E-07	6.86E-07	3.61E-08	1.28E-06	2.98E-07	7.52E-07	3.61E-08	1.09E-06	7.37E-08	1.34E-07	1.18E-08	2.20E-07	5.71E-08	7.46E-08	5.40E-09	1.37E-07
4214	564994.1	4222751	5.96E-07	7.28E-07	3.83E-08	1.36E-06	3.16E-07	7.98E-07	3.83E-08	1.15E-06	7.82E-08	1.42E-07	1.25E-08	2.33E-07	6.05E-08	7.91E-08	5.72E-09	1.45E-07
4215	564987.1	4222739	6.32E-07	7.72E-07	4.07E-08	1.44E-06	3.35E-07	8.46E-07	4.07E-08	1.22E-06	8.30E-08	1.51E-07	1.33E-08	2.47E-07	6.42E-08	8.40E-08	6.07E-09	1.54E-07
4216	564980.1	4222727	6.7E-07	8.19E-07	4.32E-08	1.53E-06	3.55E-07	8.98E-07	4.32E-08	1.30E-06	8.81E-08	1.60E-07	1.41E-08	2.62E-07	6.81E-08	8.91E-08	6.44E-09	1.64E-07
4217	564973.1	4222714	7.11E-07	8.68E-07	4.58E-08	1.63E-06	3.77E-07	9.52E-07	4.58E-08	1.37E-06	9.34E-08	1.70E-07	1.50E-08	2.78E-07	7.23E-08	9.45E-08	6.83E-09	1.74E-07
4218	564966.1	4222702	7.53E-07	9.2E-07	4.85E-08	1.72E-06	3.99E-07	1.01E-06	4.85E-08	1.46E-06	9.89E-08	1.80E-07	1.59E-08	2.95E-07	7.66E-08	1.00E-07	7.24E-09	1.84E-07
4219	564959.2	4222690	7.98E-07	9.74E-07	5.13E-08	1.82E-06	4.23E-07	1.07E-06	5.13E-08	1.54E-06	1.05E-07	1.90E-07	1.68E-08	3.12E-07	8.10E-08	1.06E-07	7.66E-09	1.95E-07
4220	564952.2	4222677	8.43E-07	1.03E-06	5.43E-08	1.93E-06	4.47E-07	1.13E-06	5.43E-08	1.63E-06	1.11E-07	2.01E-07	1.78E-08	3.30E-07	8.57E-08	1.12E-07	8.10E-09	2.06E-07
4221	564945.2	4222665	8.9E-07	1.09E-06	5.73E-08	2.03E-06	4.72E-07	1.19E-06	5.73E-08	1.72E-06	1.17E-07	2.12E-07	1.87E-08	3.48E-07	9.04E-08	1.18E-07	8.55E-09	2.17E-07
4222	564938.2	4222653	9.37E-07	1.14E-06	6.03E-08	2.14E-06	4.97E-07	1.25E-06	6.03E-08	1.81E-06	1.23E-07	2.24E-07	1.97E-08	3.66E-07	9.52E-08	1.24E-07	9.00E-09	2.29E-07
4223	564924.2	4222628	1.03E-06	1.26E-06	6.65E-08	2.36E-06	5.47E-07	1.38E-06	6.65E-08	2.00E-06	1.36E-07	2.46E-07	2.17E-08	4.04E-07	1.05E-07	1.37E-07	9.92E-09	2.52E-07
4224	564917.2	4222616	1.08E-06	1.32E-06	6.95E-08	2.47E-06	5.73E-07	1.45E-06	6.95E-08	2.09E-06	1.42E-07	2.58E-07	2.27E-08	4.22E-07	1.10E-07	1.44E-07	1.04E-08	2.64E-07
4225	564910.2	4222603	1.13E-06	1.38E-06	7.25E-08	2.58E-06	5.98E-07	1.51E-06	7.25E-08	2.18E-06	1.48E-07	2.69E-07	2.37E-08	4.41E-07	1.15E-07	1.50E-07	1.08E-08	2.75E-07
4226	564903.2	4222591	1.17E-06	1.43E-06	7.55E-08	2.68E-06	6.22E-07	1.57E-06	7.55E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.59E-07	1.19E-07	1.56E-07	1.13E-08	2.86E-07
4227	564896.2	4222579	1.22E-06	1.49E-06	7.84E-08	2.78E-06	6.46E-07	1.63E-06	7.84E-08	2.35E-06	1.60E-07	2.91E-07	2.56E-08	4.76E-07	1.24E-07	1.62E-07	1.17E-08	2.97E-07
4228	564875.3	4222542	1.34E-06	1.64E-06	8.62E-08	3.06E-06	7.10E-07	1.79E-06	8.62E-08	2.59E-06	1.76E-07	3.19E-07	2.82E-08	5.23E-07	1.36E-07	1.78E-07	1.29E-08	3.27E-07
4229	564868.3	4222529	1.38E-06	1.68E-06	8.85E-08	3.14E-06	7.29E-07	1.84E-06	8.85E-08	2.66E-06	1.81E-07	3.28E-07	2.90E-08	5.38E-07	1.40E-07	1.83E-07	1.32E-08	3.36E-07
4230	564847.3	4222492	1.47E-06	1.79E-06	9.46E-08	3.36E-06	7.79E-07	1.97E-06	9.46E-08	2.84E-06	1.93E-07	3.51E-07	3.09E-08	5.75E-07	1.49E-07	1.95E-07	1.41E-08	3.59E-07
4231	564840.3	4222480	1.5E-06	1.83E-06	9.62E-08	3.42E-06	7.93E-07	2.00E-06	9.62E-08	2.89E-06	1.96E-07	3.57E-07	3.15E-08	5.85E-07	1.52E-07	1.99E-07	1.44E-08	3.65E-07
4232	564833.3	4222468	1.52E-06	1.85E-06	9.77E-08	3.47E-06	8.05E-07	2.03E-06	9.77E-08	2.93E-06	1.99E-07	3.62E-07	3.20E-08	5.93E-07	1.54E-07	2.02E-07	1.46E-08	3.70E-07
4233	565313.6	4222876	3.46E-07	4.23E-07	2.23E-08	7.91E-07	1.83E-07	4.63E-07	2.23E-08	6.69E-07	4.54E-08	8.25E-08	7.29E-09	1.35E-07	3.52E-08	4.60E-08	3.32E-09	8.44E-08
4234	565300	4222873	3.49E-07	4.26E-07	2.24E-08	7.97E-07	1.85E-07	4.67E-07	2.24E-08	6.74E-07	4.58E-08	8.32E-08	7.34E-09	1.36E-07	3.54E-08	4.63E-08	3.35E-09	8.51E-08
4235	565286.3	4222869	3.52E-07	4.3E-07	2.26E-08	8.04E-07	1.87E-07	4.71E-07	2.26E-08	6.80E-07	4.62E-08	8.39E-08	7.41E-09	1.38E-07	3.58E-08	4.67E-08	3.38E-09	8.59E-08
4236	565258.9	4222861	3.6E-07	4.4E-07	2.32E-08	8.23E-07	1.91E-07	4.82E-07	2.32E-08	6.96E-07	4.73E-08	8.59E-08	7.58E-09	1.41E-07	3.66E-08	4.78E-08	3.46E-09	8.78E-08
4237	565245.3	4222857	3.65E-07	4.45E-07	2.35E-08	8.33E-07	1.93E-07	4.88E-07	2.35E-08	7.05E-07	4.79E-08	8.70E-08	7.68E-09	1.43E-07	3.71E-08	4.84E-08	3.50E-09	8.90E-08
4238	565231.6	4222853	3.7E-07	4.52E-07	2.38E-08	8.45E-07	1.96E-07	4.95E-07	2.38E-08	7.15E-07	4.86E-08	8.82E-08	7.79E-09	1.45E-07	3.76E-08	4.91E-08	3.55E-09	9.02E-08
4239	565217.9	4222849	3.75E-07	4.58E-07	2.41E-08	8.58E-07	1.99E-07	5.02E-07	2.41E-08	7.25E-07	4.93E-08	8.95E-08	7.90E-09	1.47E-07	3.81E-08	4.98E-08	3.60E-09	9.16E-08
4240	565190.5	4222842	3.87E-07	4.72E-07	2.49E-08	8.84E-07	2.05E-07	5.18E-07	2.49E-08	7.48E-07	5.08E-08	9.23E-08	8.15E-09	1.51E-07	3.93E-08	5.14E-08	3.72E-09	9.44E-08
4241	565176.9	4222838	3.93E-07	4.8E-07	2.53E-08	8.99E-07	2.08E-07	5.26E-07	2.53E-08	7.60E-07	5.16E-08	9.38E-08	8.28E-09	1.54E-07	4.00E-08	5.22E-08	3.78E-09	9.60E-08
4242	565163.2	4222834	4E-07	4.88E-07	2.57E-08	9.14E-07	2.12E-07	5.35E-07	2.57E-08	7.73E-07	5.25E-08	9.54E-08	8.42E-09	1.56E-07	4.06E-08	5.31E-08	3.84E-09	9.76E-08
4243	565149.5	4222830	4.07E-07	4.97E-07	2.62E-08	9.30E-07	2.16E-07	5.45E-07	2.62E-08	7.87E-07	5.34E-08	9.71E-08	8.57E-09	1.59E-07	4.14E-08	5.41E-08	3.91E-09	9.93E-08
4244	565122.2	4222822	4.22E-07	5.15E-07	2.72E-08	9.64E-07	2.24E-07	5.65E-07	2.72E-08	8.16E-07	5.54E-08	1.01E-07	8.88E-09	1.65E-07	4.29E-08	5.60E-08	4.05E-09	1.03E-07
4245	565108.5	4222818	4.3E-07	5.25E-07	2.77E-08	9.82E-07	2.28E-07	5.75E-07	2.77E-08	8.31E-07	5.64E-08	1.03E-07	9.05E-09	1.68E-07	4.37E-08	5.71E-08	4.13E-09	1.05E-07
4246	565094.8	4222815	4.38E-07	5.35E-07	2.82E-08	1.00E-06	2.32E-07	5.87E-07	2.82E-08	8.47E-07	5.75E-08	1.05E-07	9.23E-09	1.71E-07	4.45E-08	5.82E-08	4.21E-09	1.07E-07
4247	565081.1	4222811	4.47E-07	5.46E-07	2.88E-08	1.02E-06	2.37E-07	5.98E-07	2.88E-08	8.64E-07	5.87E-08	1.07E-07	9.41E-09	1.75E-07	4.54E-08	5.93E-08	4.29E-09	1.09E-07
4248	565067.5	4222807	4.56E-07	5.56E-07	2.93E-08	1.04E-06	2.42E-07	6.10E-07	2.93E-08	8.81E-07	5.98E-08	1.09E-07	9.60E-09	1.78E-07	4.63E-08	6.05E-08	4.38E-09	1.11E-07
4249	565026.4	4222795	4.84E-07	5.91E-07	3.11E-08	1.11E-06	2.56E-07	6.48E-07	3.11E-08	9.35E-07	6.35E-08	1.15E-07	1.02E-08	1.89E-07	4.92E-08	6.43E-08	4.65E-09	1.18E-07
4250	565012.8	4222791	4.93E-07	6.03E-07	3.18E-08	1.13E-06	2.62E-07	6.61E-07	3.18E-08	9.54E-07	6.48E-08	1.18E-07	1.04E-08	1.93E-07	5.01E-08	6.55E-08	4.74E-09	1.20E-07
4251	564999.1	4222788	5.03E-07	6.14E-07	3.24E-08	1.15E-06	2.67E-07	6.73E-07	3.24E-08	9.73E-07	6.61E-08	1.20E-07	1.06E-08	1.97E-07	5.11E-08	6.68E-08	4.83E-09	1.23E-07
4252	564988.7	4222779	5.22E-07	6.38E-07	3.36E-08	1.19E-06	2.77E-07	7.00E-07	3.36E-08	1.01E-06	6.86E-08	1.25E-07	1.10E-08	2.04E-07	5.31E-08	6.94E-08	5.02E-09	1.28E-07
4253	564981.7	4222767	5.53E-07	6.76E-07	3.56E-08	1.26E-06	2.93E-07	7.41E-07	3.56E-08	1.07E-06	7.27E-08	1.32E-07	1.17E-08	2.16E-07	5.62E-08	7.35E-08	5.32E-09	1.35E-07
4254	564974.7	4222755	5.86E-07	7.16E-07	3.77E-08	1.34E-06	3.11E-07	7.85E-07	3.77E-08	1.13E-06	7.70E-08	1.40E-07	1.23E-08	2.29E-07	5.96E-08	7.79E-08	5.63E-09	1.43E-07
4255	564967.7	4222742	6.21E-07	7.58E-07	4.00E-08	1.42E-06	3.29E-07	8.31E-07	4.00E-08	1.20E-06	8.16E-08	1.48E-07	1.31E-08	2.43E-07	6.31E-08	8.25E-08	5.97E-09	1.52E-07
4256	564960.7	4222730	6.58E-07	8.03E-07	4.23E-08	1.50E-06	3.49E-07	8.81E-07	4.23E-08	1.27E-06	8.64E-08	1.57E-07	1.39E-08	2.57E-07	6.68E-08	8.74E-08	6.32E-09	1.61E-07
4257	564953.7	4222718	6.96E-07	8.5E-07	4.48E-08	1.59E-06	3.69E-07	9.32E-07	4.48E-08	1.35E-06	9.14E-08	1.66E-07	1.47E-08	2.72E-07	7.08E-08	9.25E-08	6.69E-09	1.70E-07
4258	564946.7	4222705	7.36E-07	8.99E-07	4.74E-08	1.68E-06	3.90E-07	9.86E-07	4.74E-08	1.42E-06	9.67E-08	1.76E-07	1.55E-08	2.88E-07	7.48E-08	9.78E-08	7.08E-09	1.80E-07
4259	564939.7	4222693	7.78E-07	9.5E-07	5.01E-08	1.78E-06	4.12E-07	1.04E-06	5.01E-08	1.50E-06	1.02E-07	1.86E-07	1.64E-08	3.04E-07	7.91E-08	1.03E-07	7.47E-09	1.90E-07
4260	564932.7	4222681	8.21E-07	1E-06	5.28E-08	1.88E-06	4.35E-07	1.10E-06	5.28E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.21E-07	8.34E-08	1.09E-07	7.88E-09	2.00E-07
4261	564925.7	4222668	8.64E-07	1.06E-06	5.56E-08	1.98E-06	4.58E-07	1.16E-06	5.56E-08	1.67E-06	1.13E-07	2.06E-07	1.82E-08	3.38E-07	8.78E-08	1.15E-07	8.30E-09	2.11E-07
4262	564918.6	4222656	9.08E-07	1.11E-06	5.85E-08	2.08E-06	4.82E-07	1.22E-06	5.85E-08	1.76E-06	1.19E-07	2.17E-07	1.91E-08	3.55E-07	9.23E-08	1.21E-07	8.73E-09	2.22E-07
4263	564904.6	4222631	9.97E-07	1.22E-06	6.42E-08	2.28E-06	5.28E-07	1.33E-06	6.42E-08	1.93E-06	1.31E-07	2.38E-07	2.10E-08	3.90E-07	1.01E-07	1.32E-07	9.58E-09	2.43E-07
4264	564897.6	4222619	1.04E-06	1.27E-06	6.70E-08	2.38E-06	5.52E-07	1.39E-06	6.70E-08	2.01E-06	1.37E-07	2.48E-07	2.19E-08	4.07E-07	1.06E-07	1.38E-07	1.00E-08	2.54E-07
4265	564890.6	4222606	1.08E-06	1.32E-06	6.97E-08	2.48E-06	5.75E-07	1.45E-06	6.97E-08	2.10E-06	1.42E-07	2.59E-07	2.28E-08	4.24E-07	1.10E-07	1.44E-07	1.04E-08	2.64E-07
4266	564883.6	4222594	1.13E-06	1.37E-06	7.25E-08	2.57E-06	5.97E-07	1.51E-06	7.25E-08	2.18E-06	1.48E-07	2.69E-07	2.37E-08	4.40E-07	1.14E-07	1.50E-07	1.08E-08	2.75E-07
4267	564876.6	4222582	1.17E-06	1.42E-06	7.51E-08	2.67E-06	6.18E-07	1.56E-06	7.51E-08	2.26E-06	1.53E-07	2.78E-07	2.46E-08	4.56E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
4268	564869.6	4222569	1.21E-06	1.47E-06	7.76E-08	2.75E-06	6.39E-07	1.61E-06	7.76E-08	2.33E-06	1.58E-07	2.88E-07	2.54E-08	4.71E-07	1.22E-07	1.60E-07	1.16E-08	2.94E-07
4269	564862.6	4222557	1.24E-06	1.52E-06	7.99E-08	2.84E-06	6.59E-07	1.66E-06	7.99E-08	2.40E-06	1.63E-07	2.96E-07	2.62E-08	4.86E-07	1.26E-07	1.65E-07	1.19E-08	3.03E-07
4270	564855.6	4222545	1.28E-06	1.56E-06	8.22E-08	2.92E-06	6.77E-07	1.71E-06	8.22E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	4.99E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
4271	564848.5	4222532	1.31E-06	1.6E-06	8.43E-08	2.99E-06	6.95E-07	1.75E-06	8.43E-08	2.53E-06	1.72E-07	3.13E-07	2.76E-08	5.12E-07	1.33E-07	1.74E-07	1.26E-08	3.20E-07
4272	564827.5	4222495	1.4E-06	1.7E-06	8.98E-08	3.19E-06	7.40E-07	1.87E-06	8.98E-08	2.70E-06	1.83E-07	3.33E-07	2.94E-08	5.45E-07	1.42E-07	1.85E-07	1.34E-08	3.41E-07
4273	564820.5	4222483	1.42E-06	1.73E-06	9.13E-08	3.24E-06	7.52E-07	1.90E-06	9.13E-08	2.74E-06	1.86E-07	3.38E-07	2.99E-08	5.55E-07	1.44E-07	1.88E-07	1.36E-08	3.46E-07
4274	564813.5	4222470	1.44E-06	1.76E-06	9.26E-08	3.29E-06	7.63E-07	1.93E-06	9.26E-08	2.78E-06	1.89E-07	3.43E-07	3.03E-08	5.63E-07	1.46E-07	1.91E-07	1.38E-08	3.51E-07
4275	565316.6	4222897	3.24E-07	3.95E-07

4288	565101.1	4222836	4.01E-07	4.9E-07	2.58E-08	9.17E-07	2.13E-07	5.37E-07	2.58E-08	7.75E-07	5.27E-08	9.57E-08	8.45E-09	1.57E-07	4.08E-08	5.33E-08	3.85E-09	9.79E-08
4289	565087.7	4222832	4.08E-07	4.99E-07	2.63E-08	9.33E-07	2.17E-07	5.47E-07	2.63E-08	7.90E-07	5.36E-08	9.74E-08	8.60E-09	1.60E-07	4.15E-08	5.42E-08	3.92E-09	9.97E-08
4290	565074.2	4222828	4.16E-07	5.08E-07	2.68E-08	9.51E-07	2.21E-07	5.57E-07	2.68E-08	8.04E-07	5.46E-08	9.92E-08	8.76E-09	1.63E-07	4.23E-08	5.53E-08	4.00E-09	1.02E-07
4291	565060.7	4222824	4.24E-07	5.17E-07	2.73E-08	9.68E-07	2.25E-07	5.67E-07	2.73E-08	8.19E-07	5.56E-08	1.01E-07	8.92E-09	1.66E-07	4.31E-08	5.63E-08	4.07E-09	1.03E-07
4292	565020.3	4222813	4.49E-07	5.48E-07	2.89E-08	1.03E-06	2.38E-07	6.01E-07	2.89E-08	8.67E-07	5.89E-08	1.07E-07	9.45E-09	1.75E-07	4.56E-08	5.96E-08	4.31E-09	1.09E-07
4293	565006.8	4222809	4.57E-07	5.58E-07	2.94E-08	1.04E-06	2.42E-07	6.12E-07	2.94E-08	8.84E-07	6.00E-08	1.09E-07	9.63E-09	1.79E-07	4.65E-08	6.07E-08	4.39E-09	1.12E-07
4294	564993.4	4222805	4.66E-07	5.69E-07	3.00E-08	1.06E-06	2.47E-07	6.24E-07	3.00E-08	9.01E-07	6.12E-08	1.11E-07	9.81E-09	1.82E-07	4.73E-08	6.19E-08	4.48E-09	1.14E-07
4295	564976.4	4222795	4.87E-07	5.95E-07	3.14E-08	1.11E-06	2.58E-07	6.53E-07	3.14E-08	9.42E-07	6.40E-08	1.16E-07	1.03E-08	1.91E-07	4.95E-08	6.47E-08	4.68E-09	1.19E-07
4296	564969.5	4222783	5.15E-07	6.29E-07	3.31E-08	1.18E-06	2.73E-07	6.89E-07	3.31E-08	9.95E-07	6.76E-08	1.23E-07	1.08E-08	2.01E-07	5.23E-08	6.84E-08	4.95E-09	1.26E-07
4297	564962.6	4222771	5.44E-07	6.64E-07	3.50E-08	1.24E-06	2.88E-07	7.28E-07	3.50E-08	1.05E-06	7.14E-08	1.30E-07	1.15E-08	2.13E-07	5.53E-08	7.23E-08	5.23E-09	1.33E-07
4298	564955.7	4222759	5.75E-07	7.02E-07	3.70E-08	1.31E-06	3.05E-07	7.70E-07	3.70E-08	1.11E-06	7.55E-08	1.37E-07	1.21E-08	2.25E-07	5.84E-08	7.64E-08	5.52E-09	1.40E-07
4299	564948.8	4222747	6.08E-07	7.42E-07	3.91E-08	1.39E-06	3.22E-07	8.13E-07	3.91E-08	1.17E-06	7.98E-08	1.45E-07	1.28E-08	2.38E-07	6.17E-08	8.07E-08	5.84E-09	1.48E-07
4300	564941.9	4222734	6.42E-07	7.84E-07	4.13E-08	1.47E-06	3.40E-07	8.59E-07	4.13E-08	1.24E-06	8.43E-08	1.53E-07	1.35E-08	2.51E-07	6.52E-08	8.53E-08	6.17E-09	1.57E-07
4301	564935	4222722	6.78E-07	8.28E-07	4.36E-08	1.55E-06	3.59E-07	9.07E-07	4.36E-08	1.31E-06	8.90E-08	1.62E-07	1.43E-08	2.65E-07	6.89E-08	9.00E-08	6.51E-09	1.65E-07
4302	564928.1	4222710	7.15E-07	8.73E-07	4.60E-08	1.63E-06	3.79E-07	9.57E-07	4.60E-08	1.38E-06	9.39E-08	1.71E-07	1.51E-08	2.79E-07	7.26E-08	9.50E-08	6.87E-09	1.74E-07
4303	564921.2	4222698	7.53E-07	9.2E-07	4.85E-08	1.72E-06	3.99E-07	1.01E-06	4.85E-08	1.46E-06	9.89E-08	1.80E-07	1.59E-08	2.94E-07	7.65E-08	1.00E-07	7.24E-09	1.84E-07
4304	564914.3	4222686	7.92E-07	9.68E-07	5.10E-08	1.81E-06	4.20E-07	1.06E-06	5.10E-08	1.53E-06	1.04E-07	1.89E-07	1.67E-08	3.10E-07	8.05E-08	1.05E-07	7.61E-09	1.93E-07
4305	564907.4	4222673	8.32E-07	1.02E-06	5.36E-08	1.90E-06	4.41E-07	1.11E-06	5.36E-08	1.61E-06	1.09E-07	1.99E-07	1.75E-08	3.25E-07	8.46E-08	1.11E-07	8.00E-09	2.03E-07
4306	564900.5	4222661	8.72E-07	1.07E-06	5.62E-08	1.99E-06	4.63E-07	1.17E-06	5.62E-08	1.69E-06	1.15E-07	2.08E-07	1.84E-08	3.41E-07	8.87E-08	1.16E-07	8.38E-09	2.13E-07
4307	564886.7	4222637	9.53E-07	1.16E-06	6.13E-08	2.18E-06	5.05E-07	1.28E-06	6.13E-08	1.84E-06	1.25E-07	2.27E-07	2.01E-08	3.73E-07	9.69E-08	1.27E-07	9.16E-09	2.33E-07
4308	564879.8	4222625	9.93E-07	1.21E-06	6.39E-08	2.27E-06	5.26E-07	1.33E-06	6.39E-08	1.92E-06	1.30E-07	2.37E-07	2.09E-08	3.88E-07	1.01E-07	1.32E-07	9.54E-09	2.42E-07
4309	564872.9	4222613	1.03E-06	1.26E-06	6.64E-08	2.36E-06	5.47E-07	1.38E-06	6.64E-08	2.00E-06	1.36E-07	2.46E-07	2.17E-08	4.03E-07	1.05E-07	1.37E-07	9.92E-09	2.52E-07
4310	564866	4222600	1.07E-06	1.31E-06	6.89E-08	2.45E-06	5.67E-07	1.43E-06	6.89E-08	2.07E-06	1.41E-07	2.55E-07	2.25E-08	4.18E-07	1.09E-07	1.42E-07	1.03E-08	2.61E-07
4311	564859.1	4222588	1.11E-06	1.35E-06	7.13E-08	2.53E-06	5.87E-07	1.48E-06	7.13E-08	2.14E-06	1.45E-07	2.64E-07	2.33E-08	4.33E-07	1.13E-07	1.47E-07	1.06E-08	2.70E-07
4312	564852.2	4222576	1.14E-06	1.4E-06	7.36E-08	2.61E-06	6.06E-07	1.53E-06	7.36E-08	2.21E-06	1.50E-07	2.73E-07	2.41E-08	4.47E-07	1.16E-07	1.52E-07	1.10E-08	2.79E-07
4313	564845.3	4222564	1.18E-06	1.44E-06	7.57E-08	2.69E-06	6.24E-07	1.57E-06	7.57E-08	2.27E-06	1.54E-07	2.81E-07	2.48E-08	4.60E-07	1.20E-07	1.56E-07	1.13E-08	2.87E-07
4314	564838.4	4222552	1.21E-06	1.48E-06	7.78E-08	2.76E-06	6.40E-07	1.62E-06	7.78E-08	2.34E-06	1.59E-07	2.88E-07	2.54E-08	4.72E-07	1.23E-07	1.60E-07	1.16E-08	2.95E-07
4315	564831.5	4222540	1.24E-06	1.51E-06	7.97E-08	2.83E-06	6.56E-07	1.66E-06	7.97E-08	2.39E-06	1.63E-07	2.95E-07	2.61E-08	4.84E-07	1.26E-07	1.64E-07	1.19E-08	3.02E-07
4316	564824.6	4222527	1.27E-06	1.55E-06	8.15E-08	2.89E-06	6.71E-07	1.70E-06	8.15E-08	2.45E-06	1.66E-07	3.02E-07	2.67E-08	4.95E-07	1.29E-07	1.68E-07	1.22E-08	3.09E-07
4317	564796.9	4222479	1.36E-06	1.66E-06	8.74E-08	3.10E-06	7.20E-07	1.82E-06	8.74E-08	2.63E-06	1.78E-07	3.24E-07	2.86E-08	5.31E-07	1.38E-07	1.80E-07	1.30E-08	3.32E-07
4318	564790	4222466	1.38E-06	1.68E-06	8.85E-08	3.14E-06	7.29E-07	1.84E-06	8.85E-08	2.66E-06	1.81E-07	3.28E-07	2.90E-08	5.38E-07	1.40E-07	1.83E-07	1.32E-08	3.36E-07
4319	565318.8	4222916	3.04E-07	3.71E-07	1.96E-08	6.95E-07	1.61E-07	4.07E-07	1.96E-08	5.88E-07	3.99E-08	7.25E-08	6.40E-09	1.19E-07	3.09E-08	4.04E-08	2.92E-09	7.42E-08
4320	565305.3	4222913	3.06E-07	3.73E-07	1.97E-08	6.99E-07	1.62E-07	4.09E-07	1.97E-08	5.91E-07	4.01E-08	7.29E-08	6.44E-09	1.20E-07	3.11E-08	4.06E-08	2.94E-09	7.46E-08
4321	565291.8	4222909	3.08E-07	3.76E-07	1.98E-08	7.04E-07	1.63E-07	4.12E-07	1.98E-08	5.95E-07	4.04E-08	7.35E-08	6.48E-09	1.20E-07	3.13E-08	4.09E-08	2.96E-09	7.51E-08
4322	565264.7	4222901	3.14E-07	3.83E-07	2.02E-08	7.17E-07	1.66E-07	4.20E-07	2.02E-08	6.06E-07	4.12E-08	7.48E-08	6.60E-09	1.23E-07	3.19E-08	4.17E-08	3.01E-09	7.65E-08
4323	565251.2	4222897	3.17E-07	3.87E-07	2.04E-08	7.25E-07	1.68E-07	4.24E-07	2.04E-08	6.13E-07	4.16E-08	7.56E-08	6.68E-09	1.24E-07	3.22E-08	4.21E-08	3.05E-09	7.74E-08
4324	565237.7	4222893	3.21E-07	3.92E-07	2.06E-08	7.33E-07	1.70E-07	4.29E-07	2.06E-08	6.20E-07	4.21E-08	7.65E-08	6.76E-09	1.25E-07	3.26E-08	4.26E-08	3.08E-09	7.83E-08
4325	565224.2	4222890	3.25E-07	3.97E-07	2.09E-08	7.42E-07	1.72E-07	4.35E-07	2.09E-08	6.28E-07	4.27E-08	7.75E-08	6.84E-09	1.27E-07	3.30E-08	4.32E-08	3.12E-09	7.93E-08
4326	565210.7	4222886	3.29E-07	4.02E-07	2.12E-08	7.52E-07	1.75E-07	4.41E-07	2.12E-08	6.36E-07	4.32E-08	7.85E-08	6.93E-09	1.29E-07	3.35E-08	4.37E-08	3.16E-09	8.03E-08
4327	565183.7	4222878	3.38E-07	4.13E-07	2.18E-08	7.74E-07	1.79E-07	4.53E-07	2.18E-08	6.54E-07	4.45E-08	8.08E-08	7.13E-09	1.32E-07	3.44E-08	4.50E-08	3.25E-09	8.26E-08
4328	565170.2	4222874	3.43E-07	4.19E-07	2.21E-08	7.85E-07	1.82E-07	4.60E-07	2.21E-08	6.64E-07	4.51E-08	8.19E-08	7.23E-09	1.34E-07	3.49E-08	4.56E-08	3.30E-09	8.38E-08
4329	565156.7	4222871	3.48E-07	4.26E-07	2.24E-08	7.96E-07	1.85E-07	4.67E-07	2.24E-08	6.74E-07	4.58E-08	8.31E-08	7.34E-09	1.36E-07	3.54E-08	4.63E-08	3.35E-09	8.50E-08
4330	565143.2	4222867	3.54E-07	4.32E-07	2.28E-08	8.09E-07	1.88E-07	4.74E-07	2.28E-08	6.84E-07	4.65E-08	8.44E-08	7.45E-09	1.38E-07	3.60E-08	4.70E-08	3.40E-09	8.64E-08
4331	565116.1	4222859	3.65E-07	4.46E-07	2.35E-08	8.35E-07	1.94E-07	4.89E-07	2.35E-08	7.06E-07	4.80E-08	8.71E-08	7.69E-09	1.43E-07	3.71E-08	4.85E-08	3.51E-09	8.91E-08
4332	565102.6	4222855	3.71E-07	4.53E-07	2.39E-08	8.49E-07	1.97E-07	4.97E-07	2.39E-08	7.18E-07	4.88E-08	8.86E-08	7.82E-09	1.45E-07	3.77E-08	4.93E-08	3.57E-09	9.06E-08
4333	565089.1	4222851	3.78E-07	4.61E-07	2.43E-08	8.63E-07	2.00E-07	5.06E-07	2.43E-08	7.30E-07	4.96E-08	9.01E-08	7.95E-09	1.48E-07	3.84E-08	5.02E-08	3.63E-09	9.22E-08
4334	565075.6	4222848	3.84E-07	4.69E-07	2.47E-08	8.78E-07	2.04E-07	5.15E-07	2.47E-08	7.43E-07	5.05E-08	9.17E-08	8.09E-09	1.50E-07	3.91E-08	5.11E-08	3.69E-09	9.38E-08
4335	565062.1	4222844	3.91E-07	4.78E-07	2.52E-08	8.94E-07	2.07E-07	5.24E-07	2.52E-08	7.56E-07	5.14E-08	9.33E-08	8.24E-09	1.53E-07	3.97E-08	5.20E-08	3.76E-09	9.55E-08
4336	565048.6	4222840	3.98E-07	4.86E-07	2.56E-08	9.10E-07	2.11E-07	5.33E-07	2.56E-08	7.70E-07	5.23E-08	9.50E-08	8.38E-09	1.56E-07	4.05E-08	5.29E-08	3.82E-09	9.72E-08
4337	565021.6	4222832	4.13E-07	5.04E-07	2.66E-08	9.44E-07	2.19E-07	5.53E-07	2.66E-08	7.98E-07	5.42E-08	9.85E-08	8.70E-09	1.61E-07	4.20E-08	5.48E-08	3.97E-09	1.01E-07
4338	565008.1	4222829	4.21E-07	5.14E-07	2.71E-08	9.61E-07	2.23E-07	5.63E-07	2.71E-08	8.13E-07	5.52E-08	1.00E-07	8.86E-09	1.64E-07	4.27E-08	5.59E-08	4.04E-09	1.03E-07
4339	564994.6	4222825	4.28E-07	5.23E-07	2.76E-08	9.79E-07	2.27E-07	5.74E-07	2.76E-08	8.28E-07	5.63E-08	1.02E-07	9.02E-09	1.68E-07	4.35E-08	5.69E-08	4.12E-09	1.05E-07
4340	564981.1	4222821	4.36E-07	5.33E-07	2.81E-08	9.97E-07	2.31E-07	5.84E-07	2.81E-08	8.44E-07	5.73E-08	1.04E-07	9.19E-09	1.71E-07	4.43E-08	5.80E-08	4.19E-09	1.06E-07
4341	564964.1	4222811	4.56E-07	5.57E-07	2.93E-08	1.04E-06	2.42E-07	6.10E-07	2.93E-08	8.82E-07	5.99E-08	1.09E-07	9.60E-09	1.78E-07	4.63E-08	6.06E-08	4.38E-09	1.11E-07
4342	564957.2	4222799	4.81E-07	5.87E-07	3.09E-08	1.10E-06	2.55E-07	6.44E-07	3.09E-08	9.30E-07	6.31E-08	1.15E-07	1.01E-08	1.88E-07	4.89E-08	6.39E-08	4.62E-09	1.17E-07
4343	564950.2	4222787	5.07E-07	6.2E-07	3.27E-08	1.16E-06	2.69E-07	6.79E-07	3.27E-08	9.81E-07	6.66E-08	1.21E-07	1.07E-08	1.98E-07	5.16E-08	6.74E-08	4.87E-09	1.24E-07
4344	564943.3	4222774	5.35E-07	6.54E-07	3.45E-08	1.22E-06	2.84E-07	7.17E-07	3.45E-08	1.04E-06	7.03E-08	1.28E-07	1.13E-08	2.09E-07	5.44E-08	7.11E-08	5.15E-09	1.31E-07
4345	564936.4	4222762	5.65E-07	6.9E-07	3.64E-08	1.29E-06	3.00E-07	7.57E-07	3.64E-08	1.09E-06	7.42E-08	1.35E-07	1.19E-08	2.21E-07	5.74E-08	7.51E-08	5.43E-09	1.38E-07
4346	564929.5	4222750	5.97E-07	7.29E-07	3.84E-08	1.36E-06	3.16E-07	7.99E-07	3.84E-08	1.15E-06	7.83E-08	1.42E-07	1.26E-08	2.33E-07	6.06E-08	7.93E-08	5.73E-09	1.46E-07
4347	564922.6	4222738	6.29E-07	7.69E-07	4.05E-08	1.44E-06	3.34E-07	8.43E-07	4.05E-08	1.22E-06	8.26E-08	1.50E-07	1.33E-08	2.46E-07	6.40E-08	8.36E-08	6.05E-09	1.54E-07
4348	564915.6	4222725	6.63E-07	8.1E-07	4.27E-08	1.52E-06	3.52E-07	8.88E-07	4.27E-08	1.28E-06	8.71E-08	1.58E-07	1.40E-08	2.59E-07	6.74E-08	8.81E-08	6.37E-09	1.62E-07
4349	564908.7	4222713	6.98E-07	8.53E-07	4.50E-08	1.60E-06	3.70E-07	9.35E-07	4.50E-08	1.35E-06	9.17E-08	1.67E-07	1.47E-08	2.73E-07	7.10E-08	9.28E-08	6.71E-09	1.70E-07
4350	564901.8	4222701	7.35E-07	8.97E-07	4.73E-08	1.68E-06	3.89E-07	9.83E-07	4.73E-08	1.42E-06	9.65E-08	1.75E-07	1.55E-08	2.87E-07	7.46E-08	9.76E-08	7.06E-09	1.79E-07
4351	564894.9	4222689	7.71E-07	9.42E-07	4.96E-08	1.76E-06	4.09E-07	1.03E-06	4.96E-08	1.49E-06	1.01E-07	1.84E-07	1.62E-08	3.02E-07	7.84E-08	1.02E-07	7.41E-09	1.88E-07
4352	564887.9	4222677	8.09E-07	9.88E-07	5.20E-08	1.85E-06	4.29E-07	1.08E-06	5.20E-08	1.56E-06	1.06E-07	1.93E-07	1.70E-08	3.16E-07	8.22E-08	1.07E-07	7.77E-09	1.97E-07
4353	564881	4222664	8.46E-07	1.03E-06	5.45E-08	1.93E-06	4.49E-07	1.13E-06	5.45E-08	1.64E-06	1.11E-07	2.02E-07	1.78E-08	3.31E-07	8.60E-08	1.12E-07	8.13E-09	2.07E-07
4354	564874.1	4222652	8.84E-07	1.08E-06	5.69E-08	2.02E-06	4.69E-07	1.18E-06	5.69E-08	1.71E-06	1.16E-07	2.11E-07	1.86E-08	3.46E-07	8.98E-08	1.17E-07	8.49E-09	2.16E-07
4355	564867.2	4222640	9.21E-07	1.12E-06	5.93E-08	2.11E-06	4.88E-07	1.23E-06	5.93E-08	1.78E-06	1.21E-07	2.20E-07	1.94E-08	3.60E-07	9.36E-08	1.22E-07	8.85E-09	2.25E-07
4356	564860.2	4222628	9.58E-07	1.17E-06	6.17E-08	2.19E-06	5.08E-07	1.28E-06	6.17E-08	1.85E-06	1.26E-07	2.29E-07	2.02E-08	3.75E-07	9.73E-08	1.27E-07	9.20E-09	2.34E-07
4357	564853.3	4222616	9.94E-07	1.21E-06	6.40E-08	2.27E-06	5.27E-07	1.33E-06	6.40E-08	1.92E-06	1.31E-07	2.37E-07	2.09E-08	3.89E-07	1.01E-07	1.32E-07	9.55E-09	2.43E-07
4358	564846.4	4222603	1.03E-06	1.26E-06	6.62E-08	2.35E-06	5.46E-07	1.38E-06	6.62E-08	1.99E-06	1.35E-07	2.46E-07	2.17E-08	4.02E-07	1.05E-07	1.37E-07	9.89E-09	2.51E-07
4359	564839.5	4222591	1.06E-06	1.3E-06	6.84E-08	2.43E-06	5.64E-07	1.42E-06	6.84E-08	2.06E-06	1.40E-07	2.54E-07	2.24E-08	4.16E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
4360	564832.5	4222579	1.1E-06	1.34E-06	7.05E-08	2.50E-06	5.81E-07	1.47E-06	7.05E-08	2.12E-06	1.44E-07	2.61E-07	2.31E-08	4.28E-07	1.11E-07	1.46E-07	1.05E-08	2.67E-07
4361	564825.6	4222567	1.13E-06	1.38E-06	7.25E-08	2.57E-06	5.97E-07	1.51E-06	7.25E-08	2.18E-06	1.48E-07	2.69E-07	2.37E-08	4.40E-07	1.14E-07	1.50E-07	1.08E-08	2.75E-07
4362	564818.7	4222555	1.16E-06	1.41E-06	7.44E-08	2.64E-06	6.13E-07	1.55E-06	7.44E-08	2.23E-06	1.52E-07	2.76E-07	2.43E-08	4.52E-07	1.17E-07	1.53E-07	1.11E-08	2.82E-07
4363	564811.8	4222542	1.18E-06	1.44E-06	7.61E-08	2.70E-06	6.27E-07	1.58E-06	7.61E-08	2.29E-06	1.55E-07	2.82E-07	2.49E-08	4.62E-07	1.20E-07	1.57E-07	1.14E-08	2.89E-07
4364	564784.1	4222493	1.27E-06	1.56E-06	8.20E-08	2.91E-06	6.76E-07	1.71E-06	8.20E-08	2.46E-06	1.67E-07	3.04E-07	2.68E-08	4.98E-07	1.29E-07	1.69E-07	1.22E-08	3.11E-07
4365	564777.1	4222481	1.29E-06	1.58E-06	8.32E-08	2.95E-06	6.85E-07	1.73E-06	8.32E-08	2.50E-06	1.70E-07	3.08E-07	2.72E-08	5.05E-07	1.31E-07	1.72E-07	1.24E-08	3.15E-07
4366	564770.2	4222469	1.31E-06	1.6E-06	8.42E-08	2.99E-06	6.93E-07	1.75E-06	8.42E-08	2.53E-06	1.72E-07	3.12E-07	2.75E-08	5.11E-07	1.33E-07	1.74E-07	1.26E-08	3.19E-07
4367	565320.9	4222936	2.86E-07	3.49E-07	1.84E-08	6.54E-07	1.52E-07	3.83E-07	1.84E-08	5.53E-07	3.76E-08	6.83E-08	6.02E-09	1.12E-07	2.91E-08	3.80E-08	2.75E-09	6.98E-08
4368	565307.4	4222932	2.88E-07	3.51E-07	1.85E-08	6.57E-07	1.52E-07	3.85E-07	1.85E-08	5.56E-07	3.78E-08	6.86E-08	6.06E-09	1.12E-07	2.92E-08	3.82E-08	2.76E-09	7.02E-08
4369	565293.8	4222929	2.89E-07	3.53E-07	1.86E-08	6.61E-07	1.53E-07	3.87E-07	1.86E-08	5.59E-07	3.80E-08	6.90E-08	6.09E-09	1.13E-07	2.94E-08	3.84E-08	2.78E-09	7.06E-08
4370	565266.7	4222921	2.94E-07	3.59E-07	1.89E-08	6.72E-07	1.56E-07	3.94E-07	1.89E-08	5.69E-07	3.86E-08	7.02E-08	6.20E-09	1.15E-07	2.99E-08	3.91E-08	2.83E-09	7.18E-08
4371	565253.2	4222917	2.97E-07	3.63E-07	1.91E-08	6.79E-07	1.58E-07	3.98E-07	1.91E-08	5.75E-07	3.90E-08	7.09E-08	6.26E-09	1.16E-07	3.02E-08	3.95E-08	2.86E-09	7.25E-08
4372	565239.7	4222913	3E-07	3.67E-07	1.93E-08	6.87E-07	1.59E-07	4.02E-07	1.93E-08	5.81E-07	3.95E-08	7.17E-08	6.33E-09	1.17E-07	3.05E-08	3.99E-08	2.89E-09	7.33E-08
4373	565226.1	4222909	3.04E-07	3.71E-07	1.96E-08	6.95E-07	1.61E-07	4.07E-07	1.96E-08	5.88E-07	3.99E-08	7.25E-08	6.40E-09	1.19E-07	3.09E-08	4.04E-08	2.92E-09	7.42E-08
4374	565212.6	4222906	3.08E-07	3.76E-07	1.98E-08	7.04E-07	1.63E-07	4.12E-07	1.98E-08	5.95E-07	4.04E-08	7.35E-08	6.48E-09	1.20E-07	3.13E-08	4.09E-08	2.96E-09	7.52E-08
4375	565185.5	4222898	3.16E-07	3.86E-07	2.04E-08	7.23E-07	1.68E-07	4.23E-07	2.04E-08	6.11E-07	4.15E-08	7.54E-08	6.66E-09	1.24E-07	3.21E-08	4.20E-08	3.04E-09	7.72E-08
4376	565171.9	4222894	3.21E-07	3.92E-07	2.06E-08	7.33E-07	1.70E-07	4.29E-07	2.06E-08	6.20E-07	4.21E-08	7.65E-08	6.75E-09	1.25E-07	3.26E-08	4.26E-08	3.08E-09	7.82E-08
4377	565158.4	4222890	3.25E-07	3.97E-07	2.09E-08	7.43E-07	1.72E-07	4.35E-07	2.09E-08	6.29E-07	4.27E-08	7.76E-08	6.85E-09	1.27E-07	3.30E-08	4.32E-08	3.12E-09	7.93E-08
4378	565144.8	4222886	3.3E-07	4.03E-07	2.12E-08	7.54E-07	1.75E-07	4.42E-07	2.12E-08	6.38E-07	4.33E-08	7.87E-08	6.95E-09	1.29E-07	3.35E-08	4.38E-08	3.17E-09	8.05E-08
4379	565117.7	4222879	3.4E-07	4.15E-07	2.19E-08	7.77E-07	1.80E-07	4.55E-07	2.19E-08	6.57E-07	4.46E-08	8.11E-08	7.16E-09	1.33E-07	3.45E-08	4.51E-08	3.27E-09	8.29E-08
4380	565104.2	4222875	3.45E-07	4.22E-07	2.22E-08	7.89E-07	1.83E-07	4.62E-07	2.22E-08	6.67E-07	4.53E-08	8.24E-08	7.27E-09	1.35E-07	3.51E-08	4.59E-08	3.32E-09	8.43E-08
4381	565090.7	4222871	3.51E-07	4.28E-07	2.26E-08	8.01E-07	1.86E-07	4.69E-07	2.26E-08	6.78E-07	4.60E-08	8.37E-08	7.38E-09	1.37E-07	3.56E-08	4.66E-08	3.37E-09	8.56E-08
4382	565077.1	4222867	3.56E-07	4.35E-07	2.29E-08	8.14E-07	1.89E-07	4.77E-07	2.29E-08	6.89E-07	4.68E-08	8.50E-08	7.50E-09	1.39E-07	3.62E-08	4.73E-08	3.42E-09	8.70E-08
4383	565063.6	4222863	3.62E-07	4.42E-07	2.33E-08	8.28E-07	1.92E-07	4.85E-07	2.33E-08	7.00E-07	4.76E-08	8.64E-08	7.63E-09	1.42E-07	3.68E-08	4.81E-08	3.48E-09	8.84E-08
4384	565050	4222860	3.68E-07	4.5E-07	2.37E-08	8.42E-07	1.95E-07	4.93E-07	2.37E-08	7.12E-07	4.84E-08	8.79E-08	7.76E-09	1.44E-07	3.74E-08	4.89E-08	3.54E-09	8.99E-08
4385	565022.9	4222852	3.81E-07	4.66E-07	2.

4398	564896.2	4222729	6.49E-07	7.93E-07	4.18E-08	1.48E-06	3.44E-07	8.69E-07	4.18E-08	1.26E-06	8.53E-08	1.55E-07	1.37E-08	2.54E-07	6.60E-08	8.63E-08	6.24E-09	1.58E-07
4399	564889.3	4222716	6.83E-07	8.34E-07	4.39E-08	1.56E-06	3.62E-07	9.14E-07	4.39E-08	1.32E-06	8.96E-08	1.63E-07	1.44E-08	2.67E-07	6.94E-08	9.07E-08	6.56E-09	1.67E-07
4400	564882.3	4222704	7.17E-07	8.75E-07	4.61E-08	1.64E-06	3.80E-07	9.59E-07	4.61E-08	1.39E-06	9.41E-08	1.71E-07	1.51E-08	2.80E-07	7.28E-08	9.52E-08	6.88E-09	1.75E-07
4401	564875.4	4222692	7.51E-07	9.17E-07	4.83E-08	1.72E-06	3.98E-07	1.01E-06	4.83E-08	1.45E-06	9.86E-08	1.79E-07	1.58E-08	2.94E-07	7.63E-08	9.98E-08	7.22E-09	1.83E-07
4402	564868.4	4222680	7.86E-07	9.6E-07	5.06E-08	1.80E-06	4.17E-07	1.05E-06	5.06E-08	1.52E-06	1.03E-07	1.88E-07	1.66E-08	3.07E-07	7.99E-08	1.04E-07	7.55E-09	1.92E-07
4403	564861.5	4222667	8.21E-07	1E-06	5.28E-08	1.88E-06	4.35E-07	1.10E-06	5.28E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.21E-07	8.34E-08	1.09E-07	7.89E-09	2.00E-07
4404	564854.5	4222655	8.56E-07	1.05E-06	5.51E-08	1.96E-06	4.54E-07	1.15E-06	5.51E-08	1.65E-06	1.12E-07	2.04E-07	1.80E-08	3.35E-07	8.70E-08	1.14E-07	8.22E-09	2.09E-07
4405	564840.7	4222631	9.25E-07	1.13E-06	5.95E-08	2.11E-06	4.90E-07	1.24E-06	5.95E-08	1.79E-06	1.21E-07	2.21E-07	1.95E-08	3.61E-07	9.40E-08	1.23E-07	8.88E-09	2.26E-07
4406	564833.7	4222619	9.58E-07	1.17E-06	6.17E-08	2.19E-06	5.08E-07	1.28E-06	6.17E-08	1.85E-06	1.26E-07	2.29E-07	2.02E-08	3.75E-07	9.73E-08	1.27E-07	9.20E-09	2.34E-07
4407	564826.8	4222606	9.9E-07	1.21E-06	6.37E-08	2.26E-06	5.25E-07	1.33E-06	6.37E-08	1.91E-06	1.30E-07	2.36E-07	2.09E-08	3.87E-07	1.01E-07	1.32E-07	9.51E-09	2.42E-07
4408	564819.8	4222594	1.02E-06	1.25E-06	6.57E-08	2.33E-06	5.42E-07	1.37E-06	6.57E-08	1.97E-06	1.34E-07	2.44E-07	2.15E-08	3.99E-07	1.04E-07	1.36E-07	9.81E-09	2.49E-07
4409	564812.9	4222582	1.05E-06	1.28E-06	6.77E-08	2.40E-06	5.57E-07	1.41E-06	6.77E-08	2.03E-06	1.38E-07	2.51E-07	2.21E-08	4.11E-07	1.07E-07	1.40E-07	1.01E-08	2.57E-07
4410	564799	4222557	1.11E-06	1.35E-06	7.12E-08	2.53E-06	5.86E-07	1.48E-06	7.12E-08	2.14E-06	1.45E-07	2.64E-07	2.33E-08	4.32E-07	1.12E-07	1.47E-07	1.06E-08	2.70E-07
4411	564792.1	4222545	1.13E-06	1.38E-06	7.28E-08	2.58E-06	6.00E-07	1.51E-06	7.28E-08	2.19E-06	1.49E-07	2.70E-07	2.38E-08	4.42E-07	1.15E-07	1.50E-07	1.09E-08	2.76E-07
4412	564785.1	4222533	1.15E-06	1.41E-06	7.43E-08	2.64E-06	6.12E-07	1.55E-06	7.43E-08	2.23E-06	1.52E-07	2.75E-07	2.43E-08	4.51E-07	1.17E-07	1.53E-07	1.11E-08	2.82E-07
4413	564778.2	4222521	1.18E-06	1.44E-06	7.57E-08	2.69E-06	6.24E-07	1.57E-06	7.57E-08	2.27E-06	1.54E-07	2.81E-07	2.48E-08	4.60E-07	1.20E-07	1.56E-07	1.13E-08	2.87E-07
4414	564757.3	4222484	1.23E-06	1.5E-06	7.92E-08	2.81E-06	6.53E-07	1.65E-06	7.92E-08	2.38E-06	1.62E-07	2.94E-07	2.59E-08	4.81E-07	1.25E-07	1.64E-07	1.18E-08	3.00E-07
4415	564750.4	4222472	1.25E-06	1.52E-06	8.02E-08	2.85E-06	6.60E-07	1.67E-06	8.02E-08	2.41E-06	1.64E-07	2.97E-07	2.62E-08	4.87E-07	1.27E-07	1.65E-07	1.20E-08	3.04E-07
4416	565323.1	4222956	2.7E-07	3.3E-07	1.74E-08	6.17E-07	1.43E-07	3.61E-07	1.74E-08	5.22E-07	3.54E-08	6.44E-08	5.68E-09	1.06E-07	2.74E-08	3.59E-08	2.59E-09	6.59E-08
4417	565309.5	4222952	2.71E-07	3.31E-07	1.75E-08	6.20E-07	1.44E-07	3.63E-07	1.75E-08	5.24E-07	3.56E-08	6.47E-08	5.71E-09	1.06E-07	2.76E-08	3.60E-08	2.61E-09	6.62E-08
4418	565295.9	4222948	2.73E-07	3.33E-07	1.76E-08	6.23E-07	1.45E-07	3.65E-07	1.76E-08	5.27E-07	3.58E-08	6.51E-08	5.74E-09	1.07E-07	2.77E-08	3.62E-08	2.62E-09	6.66E-08
4419	565268.8	4222941	2.77E-07	3.38E-07	1.78E-08	6.33E-07	1.47E-07	3.71E-07	1.78E-08	5.35E-07	3.63E-08	6.60E-08	5.83E-09	1.08E-07	2.81E-08	3.68E-08	2.66E-09	6.76E-08
4420	565255.2	4222937	2.79E-07	3.41E-07	1.80E-08	6.39E-07	1.48E-07	3.74E-07	1.80E-08	5.40E-07	3.67E-08	6.67E-08	5.88E-09	1.09E-07	2.84E-08	3.71E-08	2.68E-09	6.82E-08
4421	565241.6	4222933	2.82E-07	3.45E-07	1.82E-08	6.45E-07	1.50E-07	3.78E-07	1.82E-08	5.46E-07	3.71E-08	6.73E-08	5.94E-09	1.10E-07	2.87E-08	3.75E-08	2.71E-09	6.89E-08
4422	565228	4222929	2.85E-07	3.49E-07	1.84E-08	6.52E-07	1.51E-07	3.82E-07	1.84E-08	5.52E-07	3.75E-08	6.81E-08	6.01E-09	1.12E-07	2.90E-08	3.79E-08	2.74E-09	6.97E-08
4423	565214.4	4222925	2.89E-07	3.53E-07	1.86E-08	6.60E-07	1.53E-07	3.87E-07	1.86E-08	5.58E-07	3.79E-08	6.89E-08	6.08E-09	1.13E-07	2.93E-08	3.84E-08	2.77E-09	7.05E-08
4424	565187.3	4222918	2.96E-07	3.62E-07	1.91E-08	6.77E-07	1.57E-07	3.97E-07	1.91E-08	5.73E-07	3.89E-08	7.07E-08	6.24E-09	1.16E-07	3.01E-08	3.93E-08	2.85E-09	7.23E-08
4425	565173.7	4222914	3E-07	3.67E-07	1.93E-08	6.86E-07	1.59E-07	4.02E-07	1.93E-08	5.80E-07	3.94E-08	7.16E-08	6.32E-09	1.17E-07	3.05E-08	3.99E-08	2.88E-09	7.33E-08
4426	565160.1	4222910	3.04E-07	3.72E-07	1.96E-08	6.95E-07	1.61E-07	4.07E-07	1.96E-08	5.88E-07	4.00E-08	7.26E-08	6.41E-09	1.19E-07	3.09E-08	4.04E-08	2.92E-09	7.43E-08
4427	565146.6	4222906	3.08E-07	3.77E-07	1.99E-08	7.05E-07	1.64E-07	4.13E-07	1.99E-08	5.96E-07	4.05E-08	7.36E-08	6.50E-09	1.21E-07	3.13E-08	4.10E-08	2.96E-09	7.53E-08
4428	565133	4222902	3.13E-07	3.82E-07	2.01E-08	7.15E-07	1.66E-07	4.19E-07	2.01E-08	6.05E-07	4.11E-08	7.46E-08	6.59E-09	1.22E-07	3.18E-08	4.16E-08	3.01E-09	7.63E-08
4429	565119.4	4222898	3.17E-07	3.87E-07	2.04E-08	7.25E-07	1.68E-07	4.25E-07	2.04E-08	6.13E-07	4.17E-08	7.57E-08	6.68E-09	1.24E-07	3.22E-08	4.21E-08	3.05E-09	7.74E-08
4430	565105.8	4222895	3.22E-07	3.93E-07	2.07E-08	7.36E-07	1.71E-07	4.31E-07	2.07E-08	6.22E-07	4.23E-08	7.68E-08	6.78E-09	1.26E-07	3.27E-08	4.28E-08	3.09E-09	7.86E-08
4431	565092.2	4222891	3.27E-07	3.99E-07	2.10E-08	7.47E-07	1.73E-07	4.37E-07	2.10E-08	6.32E-07	4.29E-08	7.79E-08	6.88E-09	1.28E-07	3.32E-08	4.34E-08	3.14E-09	7.97E-08
4432	565078.7	4222887	3.32E-07	4.05E-07	2.13E-08	7.58E-07	1.76E-07	4.44E-07	2.13E-08	6.41E-07	4.36E-08	7.91E-08	6.98E-09	1.30E-07	3.37E-08	4.41E-08	3.19E-09	8.09E-08
4433	565065.1	4222883	3.37E-07	4.11E-07	2.17E-08	7.70E-07	1.79E-07	4.51E-07	2.17E-08	6.51E-07	4.42E-08	8.04E-08	7.09E-09	1.32E-07	3.42E-08	4.47E-08	3.24E-09	8.22E-08
4434	565051.5	4222879	3.42E-07	4.18E-07	2.20E-08	7.82E-07	1.81E-07	4.58E-07	2.20E-08	6.62E-07	4.49E-08	8.16E-08	7.21E-09	1.34E-07	3.48E-08	4.55E-08	3.29E-09	8.35E-08
4435	565024.3	4222872	3.54E-07	4.32E-07	2.28E-08	8.08E-07	1.87E-07	4.73E-07	2.28E-08	6.84E-07	4.64E-08	8.44E-08	7.45E-09	1.38E-07	3.59E-08	4.70E-08	3.40E-09	8.63E-08
4436	565010.8	4222868	3.6E-07	4.39E-07	2.31E-08	8.22E-07	1.91E-07	4.81E-07	2.31E-08	6.95E-07	4.72E-08	8.58E-08	7.57E-09	1.41E-07	3.65E-08	4.78E-08	3.45E-09	8.78E-08
4437	564997.2	4222864	3.66E-07	4.47E-07	2.35E-08	8.36E-07	1.94E-07	4.90E-07	2.35E-08	7.07E-07	4.80E-08	8.73E-08	7.70E-09	1.43E-07	3.72E-08	4.86E-08	3.51E-09	8.93E-08
4438	564983.6	4222860	3.72E-07	4.55E-07	2.40E-08	8.51E-07	1.97E-07	4.98E-07	2.40E-08	7.20E-07	4.89E-08	8.88E-08	7.84E-09	1.46E-07	3.78E-08	4.94E-08	3.58E-09	9.08E-08
4439	564970	4222856	3.79E-07	4.63E-07	2.44E-08	8.66E-07	2.01E-07	5.07E-07	2.44E-08	7.32E-07	4.97E-08	9.04E-08	7.98E-09	1.48E-07	3.85E-08	5.03E-08	3.64E-09	9.24E-08
4440	564956.4	4222852	3.85E-07	4.71E-07	2.48E-08	8.81E-07	2.04E-07	5.16E-07	2.48E-08	7.45E-07	5.06E-08	9.20E-08	8.12E-09	1.51E-07	3.92E-08	5.12E-08	3.70E-09	9.41E-08
4441	564939.4	4222842	4.02E-07	4.91E-07	2.59E-08	9.19E-07	2.13E-07	5.38E-07	2.59E-08	7.77E-07	5.28E-08	9.59E-08	8.46E-09	1.57E-07	4.08E-08	5.34E-08	3.86E-09	9.81E-08
4442	564932.4	4222830	4.23E-07	5.16E-07	2.72E-08	9.66E-07	2.24E-07	5.66E-07	2.72E-08	8.17E-07	5.55E-08	1.01E-07	8.90E-09	1.65E-07	4.29E-08	5.61E-08	4.06E-09	1.03E-07
4443	564925.5	4222818	4.45E-07	5.43E-07	2.86E-08	1.02E-06	2.36E-07	5.95E-07	2.86E-08	8.60E-07	5.84E-08	1.06E-07	9.36E-09	1.74E-07	4.52E-08	5.91E-08	4.27E-09	1.09E-07
4444	564918.5	4222806	4.68E-07	5.72E-07	3.01E-08	1.07E-06	2.48E-07	6.27E-07	3.01E-08	9.05E-07	6.15E-08	1.12E-07	9.86E-09	1.83E-07	4.76E-08	6.22E-08	4.50E-09	1.14E-07
4445	564911.5	4222793	4.93E-07	6.02E-07	3.17E-08	1.13E-06	2.61E-07	6.60E-07	3.17E-08	9.53E-07	6.47E-08	1.18E-07	1.04E-08	1.93E-07	5.01E-08	6.55E-08	4.74E-09	1.20E-07
4446	564904.6	4222781	5.19E-07	6.34E-07	3.34E-08	1.19E-06	2.75E-07	6.95E-07	3.34E-08	1.00E-06	6.82E-08	1.24E-07	1.09E-08	2.03E-07	5.28E-08	6.90E-08	4.99E-09	1.27E-07
4447	564897.6	4222769	5.47E-07	6.68E-07	3.52E-08	1.25E-06	2.90E-07	7.32E-07	3.52E-08	1.06E-06	7.18E-08	1.30E-07	1.15E-08	2.14E-07	5.56E-08	7.26E-08	5.25E-09	1.33E-07
4448	564890.7	4222756	5.75E-07	7.03E-07	3.70E-08	1.31E-06	3.05E-07	7.70E-07	3.70E-08	1.11E-06	7.55E-08	1.37E-07	1.21E-08	2.25E-07	5.85E-08	7.64E-08	5.53E-09	1.40E-07
4449	564883.7	4222744	6.05E-07	7.39E-07	3.89E-08	1.38E-06	3.21E-07	8.10E-07	3.89E-08	1.17E-06	7.94E-08	1.44E-07	1.27E-08	2.37E-07	6.15E-08	8.04E-08	5.81E-09	1.48E-07
4450	564876.7	4222732	6.36E-07	7.76E-07	4.09E-08	1.45E-06	3.37E-07	8.51E-07	4.09E-08	1.23E-06	8.35E-08	1.52E-07	1.34E-08	2.49E-07	6.46E-08	8.44E-08	6.11E-09	1.55E-07
4451	564869.8	4222720	6.67E-07	8.15E-07	4.29E-08	1.52E-06	3.54E-07	8.93E-07	4.29E-08	1.29E-06	8.76E-08	1.59E-07	1.40E-08	2.61E-07	6.78E-08	8.86E-08	6.41E-09	1.63E-07
4452	564862.8	4222707	6.99E-07	8.54E-07	4.50E-08	1.60E-06	3.71E-07	9.36E-07	4.50E-08	1.35E-06	9.18E-08	1.67E-07	1.47E-08	2.73E-07	7.10E-08	9.29E-08	6.72E-09	1.71E-07
4453	564855.9	4222695	7.32E-07	8.93E-07	4.71E-08	1.67E-06	3.88E-07	9.79E-07	4.71E-08	1.41E-06	9.61E-08	1.75E-07	1.54E-08	2.86E-07	7.43E-08	9.72E-08	7.03E-09	1.79E-07
4454	564848.9	4222683	7.64E-07	9.33E-07	4.92E-08	1.75E-06	4.05E-07	1.02E-06	4.92E-08	1.48E-06	1.00E-07	1.82E-07	1.61E-08	2.99E-07	7.77E-08	1.02E-07	7.34E-09	1.87E-07
4455	564841.9	4222671	7.97E-07	9.73E-07	5.13E-08	1.82E-06	4.23E-07	1.07E-06	5.13E-08	1.54E-06	1.05E-07	1.90E-07	1.68E-08	3.12E-07	8.10E-08	1.06E-07	7.66E-09	1.95E-07
4456	564835	4222658	8.29E-07	1.01E-06	5.34E-08	1.90E-06	4.40E-07	1.11E-06	5.34E-08	1.60E-06	1.09E-07	1.98E-07	1.75E-08	3.24E-07	8.43E-08	1.10E-07	7.97E-09	2.02E-07
4457	564821.1	4222634	8.93E-07	1.09E-06	5.75E-08	2.04E-06	4.73E-07	1.20E-06	5.75E-08	1.73E-06	1.17E-07	2.13E-07	1.88E-08	3.49E-07	9.08E-08	1.19E-07	8.58E-09	2.18E-07
4458	564800.2	4222597	9.82E-07	1.2E-06	6.32E-08	2.25E-06	5.21E-07	1.32E-06	6.32E-08	1.90E-06	1.29E-07	2.34E-07	2.07E-08	3.84E-07	9.98E-08	1.30E-07	9.44E-09	2.40E-07
4459	564793.2	4222585	1.01E-06	1.23E-06	6.50E-08	2.31E-06	5.35E-07	1.35E-06	6.50E-08	1.95E-06	1.33E-07	2.41E-07	2.13E-08	3.95E-07	1.03E-07	1.34E-07	9.70E-09	2.46E-07
4460	564786.3	4222572	1.04E-06	1.27E-06	6.67E-08	2.37E-06	5.49E-07	1.39E-06	6.67E-08	2.00E-06	1.36E-07	2.47E-07	2.18E-08	4.05E-07	1.05E-07	1.38E-07	9.95E-09	2.53E-07
4461	564779.3	4222560	1.06E-06	1.29E-06	6.82E-08	2.42E-06	5.62E-07	1.42E-06	6.82E-08	2.05E-06	1.39E-07	2.53E-07	2.23E-08	4.14E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
4462	564772.3	4222548	1.08E-06	1.32E-06	6.97E-08	2.47E-06	5.74E-07	1.45E-06	6.97E-08	2.09E-06	1.42E-07	2.58E-07	2.28E-08	4.23E-07	1.10E-07	1.44E-07	1.04E-08	2.64E-07
4463	564765.4	4222535	1.1E-06	1.35E-06	7.11E-08	2.52E-06	5.86E-07	1.48E-06	7.11E-08	2.14E-06	1.45E-07	2.64E-07	2.33E-08	4.32E-07	1.12E-07	1.47E-07	1.06E-08	2.70E-07
4464	564758.4	4222523	1.12E-06	1.37E-06	7.24E-08	2.57E-06	5.96E-07	1.51E-06	7.24E-08	2.17E-06	1.48E-07	2.68E-07	2.37E-08	4.40E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
4465	564737.5	4222486	1.17E-06	1.43E-06	7.56E-08	2.68E-06	6.23E-07	1.57E-06	7.56E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.59E-07	1.19E-07	1.56E-07	1.13E-08	2.87E-07
4466	565325.2	4222976	2.55E-07	3.12E-07	1.64E-08	5.83E-07	1.35E-07	3.42E-07	1.64E-08	4.94E-07	3.35E-08	6.09E-08	5.38E-09	9.98E-08	2.59E-08	3.39E-08	2.45E-09	6.23E-08
4467	565311.6	4222972	2.56E-07	3.13E-07	1.65E-08	5.86E-07	1.36E-07	3.43E-07	1.65E-08	4.95E-07	3.37E-08	6.11E-08	5.40E-09	1.00E-07	2.60E-08	3.40E-08	2.46E-09	6.25E-08
4468	565298	4222968	2.58E-07	3.15E-07	1.66E-08	5.89E-07	1.37E-07	3.45E-07	1.66E-08	4.98E-07	3.38E-08	6.14E-08	5.42E-09	1.01E-07	2.62E-08	3.42E-08	2.47E-09	6.29E-08
4469	565270.8	4222960	2.61E-07	3.19E-07	1.68E-08	5.97E-07	1.38E-07	3.49E-07	1.68E-08	5.05E-07	3.43E-08	6.23E-08	5.50E-09	1.02E-07	2.65E-08	3.47E-08	2.51E-09	6.37E-08
4470	565257.2	4222957	2.63E-07	3.22E-07	1.69E-08	6.02E-07	1.40E-07	3.52E-07	1.69E-08	5.09E-07	3.46E-08	6.28E-08	5.54E-09	1.03E-07	2.68E-08	3.50E-08	2.53E-09	6.43E-08
4471	565243.6	4222953	2.66E-07	3.25E-07	1.71E-08	6.07E-07	1.41E-07	3.56E-07	1.71E-08	5.14E-07	3.49E-08	6.34E-08	5.60E-09	1.04E-07	2.70E-08	3.53E-08	2.55E-09	6.49E-08
4472	565230	4222949	2.69E-07	3.28E-07	1.73E-08	6.14E-07	1.42E-07	3.60E-07	1.73E-08	5.19E-07	3.53E-08	6.41E-08	5.66E-09	1.05E-07	2.73E-08	3.57E-08	2.58E-09	6.55E-08
4473	565216.4	4222945	2.72E-07	3.32E-07	1.75E-08	6.21E-07	1.44E-07	3.64E-07	1.75E-08	5.25E-07	3.57E-08	6.48E-08	5.72E-09	1.06E-07	2.76E-08	3.61E-08	2.61E-09	6.63E-08
4474	565189.1	4222937	2.78E-07	3.4E-07	1.79E-08	6.36E-07	1.47E-07	3.72E-07	1.79E-08	5.38E-07	3.65E-08	6.64E-08	5.86E-09	1.09E-07	2.83E-08	3.70E-08	2.67E-09	6.79E-08
4475	565175.5	4222934	2.82E-07	3.44E-07	1.81E-08	6.44E-07	1.49E-07	3.77E-07	1.81E-08	5.45E-07	3.70E-08	6.72E-08	5.93E-09	1.10E-07	2.86E-08	3.74E-08	2.71E-09	6.88E-08
4476	565161.9	4222930	2.85E-07	3.49E-07	1.84E-08	6.52E-07	1.51E-07	3.82E-07	1.84E-08	5.52E-07	3.75E-08	6.81E-08	6.01E-09	1.12E-07	2.90E-08	3.79E-08	2.74E-09	6.97E-08
4477	565148.3	4222926	2.89E-07	3.53E-07	1.86E-08	6.61E-07	1.53E-07	3.87E-07	1.86E-08	5.59E-07	3.80E-08	6.90E-08	6.09E-09	1.13E-07	2.94E-08	3.84E-08	2.78E-09	7.06E-08
4478	565134.7	4222922	2.93E-07	3.58E-07	1.89E-08	6.70E-07	1.55E-07	3.92E-07	1.89E-08	5.67E-07	3.85E-08	6.99E-08	6.17E-09	1.15E-07	2.98E-08	3.89E-08	2.82E-09	7.15E-08
4479	565107.5	4222914	3.01E-07	3.68E-07	1.94E-08	6.88E-07	1.60E-07	4.03E-07	1.94E-08	5.82E-07	3.95E-08	7.19E-08	6.34E-09	1.18E-07	3.06E-08	4.00E-08	2.89E-09	7.35E-08
4480	565093.9	4222910	3.05E-07	3.73E-07	1.97E-08	6.98E-07	1.62E-07	4.09E-07	1.97E-08	5.90E-07	4.01E-08	7.29E-08	6.43E-09	1.19E-07	3.10E-08	4.06E-08	2.93E-09	7.45E-08
4481	565080.2	4222907	3.1E-07	3.78E-07	1.99E-08	7.08E-07	1.64E-07	4.15E-07	1.99E-08	5.99E-07	4.07E-08	7.39E-08	6.52E-09	1.21E-07	3.15E-08	4.11E-08	2.98E-09	7.56E-08
4482	565066.6	4222903	3.14E-07	3.84E-07	2.02E-08	7.18E-07	1.67E-07	4.21E-07	2.02E-08	6.08E-07	4.13E-08	7.50E-08	6.62E-09	1.23E-07	3.19E-08	4.17E-08	3.02E-09	7.67E-08
4483	565053	4222899	3.19E-07	3.9E-07	2.05E-08	7.29E-07	1.69E-07	4.27E-07	2.05E-08	6.17E-07	4.19E-08	7.61E-08	6.72E-09	1.25E-07	3.24E-08	4.24E-08	3.06E-09	7.78E-08
4484	565025.8	4222891	3.29E-07	4.02E-07	2.12E-08	7.52E-07	1.74E-07	4.40E-07	2.12E-08	6.36E-07	4.32E-08	7.85E-08	6.93E-09	1.29E-07	3.34E-08	4.37E-08	3.16E-09	8.03E-08
4485	565012.2	4222887	3.34E-07	4.08E-07	2.15E-08	7.64E-07	1.77E-07	4.47E-07	2.15E-08	6.46E-07	4.39E-08	7.97E-08	7.04E-09	1.31E-07	3.40E-08	4.44E-08	3.21E-09	8.16E-08
4486	564998.6	4222884	3.4E-07	4.15E-07	2.19E-08	7.76E-07	1.80E-07	4.55E-07	2.19E-08	6.57E-07	4.46E-08	8.10E-08	7.15E-09	1.33E-07	3.45E-08	4.51E-08	3.26E-09	8.29E-08
4487	564985	4222880	3.45E-07	4.22E-07	2.22E-08	7.89E-07	1.83E-07	4.62E-07	2.22E-08	6.68E-07	4.54E-08	8.24E-08	7.27E-09	1.35E-07	3.51E-08	4.59E-08	3.32E-09	8.43E-08
4488	564971.4	4222876	3.51E-07	4.29E-07	2.26E-08	8.03E-07	1.86E-07	4.70E-07	2.26E-08	6.79E-07	4.61E-08	8.38E-08	7.40E-09	1.37E-07	3.57E-08	4.67E-08	3.37E-09	8.57E-08
4489	564957.7	4222872	3.57E-07	4.36E-07	2.30E-08	8.17E-07	1.89E-07	4.78E-07	2.30E-08	6.91E-07	4.69E-08	8.52E-08	7.52E-09	1.40E-07	3.63E-08	4.75E-08	3.43E-09	8.72E-08
4490	564944.1	4222868	3.63E-07	4.44E-07	2.34E-08	8.30E-07	1.93E-07	4.86E-07	2.34E-08	7.02E-07	4.77E-08	8.67E-08	7.65E-09	1.42E-07	3.69E-08	4.83E-08	3.49E-09	8.87E-08
4491	564927	4222858	3.79E-07	4.62E-07	2.44E-08	8.65E-07	2.01E-07	5.07E-07	2.44E-08	7.32E-07	4.97E-08	9.03E-08	7.97E-09	1.48E-07	3.85E-08	5.03E-08	3.64E-09	9.24E-08
4492	564920.1	4222846	3.97E-07	4.85E-07	2.56E-08	9.08E-07	2.11E-07	5.32E-07	2.56E-08	7.68E-07	5.22E-08	9.48E-08	8.37E-09	1.55E-07	4.04E-08	5.28E-08	3.82E-09	9.70E-08
4493	564913.1	4222834	4.18E-07	5.1E-07	2.69E-08	9.55E-07	2.21E-07	5.59E-07	2.69E-08	8.08E-07	5.49E-08	9.96E-08	8.80E-09	1.63E-07	4.24E-08	5.55E-08	4.01E-09	1.02E-07
4494	564906.1	4222821	4.39E-07	5.36E-07	2.83E-08	1.00E-06	2.33E-07	5.88E-07	2.83E-08	8.49E-07	5.77E-08	1.05E-07	9.25E-09	1.72E-07	4.46E-08	5.83E-08	4.22E-09	1.07E-07
4495	564899.1	4222809	4.62E-07	5.64E-07	2.97E-08	1.06E-

4508	564801.5	4222637	8.63E-07	1.05E-06	5.55E-08	1.97E-06	4.58E-07	1.16E-06	5.55E-08	1.67E-06	1.13E-07	2.06E-07	1.82E-08	3.37E-07	8.77E-08	1.15E-07	8.29E-09	2.11E-07
4509	564794.5	4222624	8.91E-07	1.09E-06	5.74E-08	2.04E-06	4.73E-07	1.19E-06	5.74E-08	1.72E-06	1.17E-07	2.13E-07	1.88E-08	3.49E-07	9.06E-08	1.18E-07	8.57E-09	2.18E-07
4510	564787.5	4222612	9.19E-07	1.12E-06	5.91E-08	2.10E-06	4.87E-07	1.23E-06	5.91E-08	1.78E-06	1.21E-07	2.19E-07	1.94E-08	3.59E-07	9.34E-08	1.22E-07	8.83E-09	2.24E-07
4511	564780.5	4222600	9.45E-07	1.15E-06	6.08E-08	2.16E-06	5.01E-07	1.27E-06	6.08E-08	1.83E-06	1.24E-07	2.26E-07	1.99E-08	3.70E-07	9.61E-08	1.26E-07	9.08E-09	2.31E-07
4512	564773.5	4222587	9.71E-07	1.19E-06	6.25E-08	2.22E-06	5.15E-07	1.30E-06	6.25E-08	1.88E-06	1.27E-07	2.32E-07	2.04E-08	3.80E-07	9.86E-08	1.29E-07	9.33E-09	2.37E-07
4513	564766.6	4222575	9.95E-07	1.21E-06	6.40E-08	2.27E-06	5.27E-07	1.33E-06	6.40E-08	1.92E-06	1.31E-07	2.37E-07	2.09E-08	3.89E-07	1.01E-07	1.32E-07	9.56E-09	2.43E-07
4514	564759.6	4222563	1.02E-06	1.24E-06	6.55E-08	2.32E-06	5.39E-07	1.36E-06	6.55E-08	1.97E-06	1.34E-07	2.43E-07	2.14E-08	3.98E-07	1.03E-07	1.35E-07	9.77E-09	2.48E-07
4515	564752.6	4222550	1.04E-06	1.27E-06	6.68E-08	2.37E-06	5.51E-07	1.39E-06	6.68E-08	2.01E-06	1.36E-07	2.48E-07	2.19E-08	4.06E-07	1.06E-07	1.38E-07	9.98E-09	2.53E-07
4516	564745.6	4222538	1.06E-06	1.29E-06	6.81E-08	2.42E-06	5.61E-07	1.42E-06	6.81E-08	2.05E-06	1.39E-07	2.52E-07	2.23E-08	4.14E-07	1.08E-07	1.41E-07	1.02E-08	2.58E-07
4517	564738.7	4222526	1.08E-06	1.31E-06	6.93E-08	2.46E-06	5.70E-07	1.44E-06	6.93E-08	2.08E-06	1.41E-07	2.57E-07	2.27E-08	4.21E-07	1.09E-07	1.43E-07	1.03E-08	2.63E-07
4518	564717.7	4222489	1.12E-06	1.37E-06	7.22E-08	2.56E-06	5.95E-07	1.50E-06	7.22E-08	2.17E-06	1.47E-07	2.68E-07	2.36E-08	4.39E-07	1.14E-07	1.49E-07	1.08E-08	2.74E-07
4519	564710.8	4222477	1.13E-06	1.39E-06	7.30E-08	2.59E-06	6.01E-07	1.52E-06	7.30E-08	2.19E-06	1.49E-07	2.71E-07	2.39E-08	4.43E-07	1.15E-07	1.51E-07	1.09E-08	2.77E-07
4520	565318.1	4222992	2.43E-07	2.97E-07	1.57E-08	5.56E-07	1.29E-07	3.26E-07	1.57E-08	4.70E-07	3.20E-08	5.81E-08	5.12E-09	9.51E-08	2.47E-08	3.23E-08	2.34E-09	5.94E-08
4521	565214.4	4222859	3.62E-07	4.43E-07	2.33E-08	8.28E-07	1.92E-07	4.85E-07	2.33E-08	7.01E-07	4.76E-08	8.65E-08	7.63E-09	1.42E-07	3.68E-08	4.81E-08	3.48E-09	8.85E-08
4522	565191.5	4222956	2.63E-07	3.21E-07	1.69E-08	6.00E-07	1.39E-07	3.52E-07	1.69E-08	5.08E-07	3.45E-08	6.27E-08	5.53E-09	1.03E-07	2.67E-08	3.49E-08	2.52E-09	6.41E-08
4523	565186.9	4222976	2.48E-07	3.03E-07	1.60E-08	5.67E-07	1.32E-07	3.32E-07	1.60E-08	4.80E-07	3.26E-08	5.92E-08	5.22E-09	9.70E-08	2.52E-08	3.30E-08	2.38E-09	6.06E-08
4524	565119.1	4222869	3.52E-07	4.3E-07	2.27E-08	8.05E-07	1.87E-07	4.72E-07	2.27E-08	6.81E-07	4.62E-08	8.40E-08	7.42E-09	1.38E-07	3.58E-08	4.68E-08	3.38E-09	8.60E-08
4525	565111	4222887	3.3E-07	4.03E-07	2.13E-08	7.55E-07	1.75E-07	4.42E-07	2.13E-08	6.38E-07	4.34E-08	7.88E-08	6.95E-09	1.29E-07	3.36E-08	4.39E-08	3.17E-09	8.06E-08
4526	565102.9	4222905	3.1E-07	3.79E-07	2.00E-08	7.09E-07	1.65E-07	4.15E-07	2.00E-08	6.00E-07	4.08E-08	7.40E-08	6.54E-09	1.21E-07	3.15E-08	4.12E-08	2.98E-09	7.57E-08
4527	565091.9	4222922	2.94E-07	3.59E-07	1.89E-08	6.71E-07	1.56E-07	3.93E-07	1.89E-08	5.68E-07	3.86E-08	7.00E-08	6.18E-09	1.15E-07	2.98E-08	3.90E-08	2.82E-09	7.17E-08
4528	565083.9	4222941	2.77E-07	3.38E-07	1.78E-08	6.33E-07	1.47E-07	3.71E-07	1.78E-08	5.36E-07	3.64E-08	6.61E-08	5.84E-09	1.08E-07	2.82E-08	3.68E-08	2.66E-09	6.76E-08
4529	565182.2	4222656	1.02E-06	1.24E-06	6.54E-08	2.32E-06	5.39E-07	1.36E-06	6.54E-08	1.97E-06	1.34E-07	2.43E-07	2.14E-08	3.98E-07	1.03E-07	1.35E-07	9.77E-09	2.48E-07
4530	565170.8	4222673	9.12E-07	1.11E-06	5.87E-08	2.08E-06	4.83E-07	1.22E-06	5.87E-08	1.76E-06	1.20E-07	2.17E-07	1.92E-08	3.56E-07	9.26E-08	1.21E-07	8.76E-09	2.22E-07
4531	565159.4	4222689	8.23E-07	1.01E-06	5.30E-08	1.88E-06	4.37E-07	1.10E-06	5.30E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.22E-07	8.37E-08	1.09E-07	7.91E-09	2.01E-07
4532	565141.7	4222701	7.68E-07	9.38E-07	4.94E-08	1.76E-06	4.07E-07	1.03E-06	4.94E-08	1.48E-06	1.01E-07	1.83E-07	1.62E-08	3.00E-07	7.81E-08	1.02E-07	7.38E-09	1.87E-07
4533	565130.3	4222718	7E-07	8.55E-07	4.50E-08	1.60E-06	3.71E-07	9.37E-07	4.50E-08	1.35E-06	9.19E-08	1.67E-07	1.47E-08	2.74E-07	7.11E-08	9.30E-08	6.72E-09	1.71E-07
4534	565118.9	4222734	6.41E-07	7.83E-07	4.13E-08	1.46E-06	3.40E-07	8.58E-07	4.13E-08	1.24E-06	8.42E-08	1.53E-07	1.35E-08	2.51E-07	6.51E-08	8.51E-08	6.16E-09	1.56E-07
4535	565107.5	4222751	5.89E-07	7.2E-07	3.79E-08	1.35E-06	3.13E-07	7.89E-07	3.79E-08	1.14E-06	7.74E-08	1.41E-07	1.24E-08	2.30E-07	5.99E-08	7.83E-08	5.66E-09	1.44E-07
4536	565096.1	4222767	5.44E-07	6.65E-07	3.50E-08	1.24E-06	2.89E-07	7.29E-07	3.50E-08	1.05E-06	7.15E-08	1.30E-07	1.15E-08	2.13E-07	5.53E-08	7.23E-08	5.23E-09	1.33E-07
4537	565084.7	4222783	5.05E-07	6.16E-07	3.25E-08	1.15E-06	2.68E-07	6.76E-07	3.25E-08	9.76E-07	6.63E-08	1.20E-07	1.06E-08	1.97E-07	5.13E-08	6.70E-08	4.85E-09	1.23E-07
4538	565055.6	4222812	4.47E-07	5.45E-07	2.87E-08	1.02E-06	2.37E-07	5.98E-07	2.87E-08	8.63E-07	5.87E-08	1.07E-07	9.41E-09	1.75E-07	4.54E-08	5.93E-08	4.29E-09	1.09E-07
4539	565026.5	4222840	3.99E-07	4.87E-07	2.57E-08	9.12E-07	2.12E-07	5.34E-07	2.57E-08	7.71E-07	5.24E-08	9.52E-08	8.40E-09	1.56E-07	4.05E-08	5.30E-08	3.83E-09	9.74E-08
4540	565015.1	4222857	3.75E-07	4.57E-07	2.41E-08	8.56E-07	1.99E-07	5.01E-07	2.41E-08	7.24E-07	4.92E-08	8.94E-08	7.89E-09	1.46E-07	3.81E-08	4.98E-08	3.60E-09	9.14E-08
4541	565003.7	4222873	3.52E-07	4.3E-07	2.27E-08	8.06E-07	1.87E-07	4.72E-07	2.27E-08	6.81E-07	4.63E-08	8.41E-08	7.42E-09	1.38E-07	3.58E-08	4.68E-08	3.39E-09	8.60E-08
4542	564992.3	4222890	3.32E-07	4.06E-07	2.14E-08	7.60E-07	1.76E-07	4.45E-07	2.14E-08	6.43E-07	4.37E-08	7.93E-08	7.00E-09	1.30E-07	3.38E-08	4.42E-08	3.19E-09	8.11E-08
4543	565004.8	4222898	3.22E-07	3.93E-07	2.07E-08	7.35E-07	1.70E-07	4.31E-07	2.07E-08	6.22E-07	4.22E-08	7.67E-08	6.77E-09	1.26E-07	3.27E-08	4.27E-08	3.09E-09	7.85E-08
4544	565003.3	4222169	2.87E-06	3.5E-06	1.84E-07	6.55E-06	1.52E-06	3.84E-06	1.84E-07	5.54E-06	3.76E-07	6.84E-07	6.04E-08	1.12E-06	2.91E-07	3.81E-07	2.75E-08	7.00E-07
4545	564992	4222150	2.61E-06	3.19E-06	1.68E-07	5.97E-06	1.38E-06	3.50E-06	1.68E-07	5.05E-06	3.43E-07	6.23E-07	5.50E-08	1.02E-06	2.65E-07	3.47E-07	2.51E-08	6.38E-07
4546	564975.6	4222139	2.42E-06	2.95E-06	1.55E-07	5.52E-06	1.28E-06	3.23E-06	1.55E-07	4.67E-06	3.17E-07	5.76E-07	5.09E-08	9.44E-07	2.45E-07	3.21E-07	2.32E-08	5.90E-07
4547	564950.4	4222175	2.53E-06	3.09E-06	1.63E-07	5.78E-06	1.34E-06	3.38E-06	1.63E-07	4.89E-06	3.32E-07	6.03E-07	5.32E-08	9.88E-07	2.57E-07	3.36E-07	2.43E-08	6.17E-07
4548	564959.2	4222127	2.24E-06	2.74E-06	1.44E-07	5.12E-06	1.19E-06	3.00E-06	1.44E-07	4.33E-06	2.94E-07	5.34E-07	4.72E-08	8.76E-07	2.28E-07	2.98E-07	2.15E-08	5.47E-07
4549	564922.7	4222145	2.18E-06	2.66E-06	1.40E-07	4.98E-06	1.15E-06	2.92E-06	1.40E-07	4.21E-06	2.86E-07	5.20E-07	4.59E-08	8.51E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
4550	564840.8	4222087	1.58E-06	1.93E-06	1.02E-07	3.62E-06	8.39E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.78E-07	3.33E-08	6.19E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
4551	564835.8	4222094	1.6E-06	1.95E-06	1.03E-07	3.65E-06	8.48E-07	2.14E-06	1.03E-07	3.09E-06	2.10E-07	3.81E-07	3.37E-08	6.25E-07	1.62E-07	2.12E-07	1.54E-08	3.90E-07
4552	564963.8	4222230	2.93E-06	3.58E-06	1.89E-07	6.70E-06	1.56E-06	3.93E-06	1.89E-07	5.67E-06	3.85E-07	7.00E-07	6.18E-08	1.15E-06	2.98E-07	3.90E-07	2.82E-08	7.16E-07
4553	564969	4222222	2.94E-06	3.6E-06	1.90E-07	6.73E-06	1.56E-06	3.94E-06	1.90E-07	5.69E-06	3.87E-07	7.02E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.19E-07
4554	564979.3	4222204	2.94E-06	3.59E-06	1.89E-07	6.73E-06	1.56E-06	3.94E-06	1.89E-07	5.69E-06	3.87E-07	7.02E-07	6.20E-08	1.15E-06	2.99E-07	3.91E-07	2.83E-08	7.18E-07
4555	564942.2	4222228	2.73E-06	3.33E-06	1.76E-07	6.23E-06	1.45E-06	3.65E-06	1.76E-07	5.27E-06	3.58E-07	6.51E-07	5.74E-08	1.07E-06	2.77E-07	3.62E-07	2.62E-08	6.66E-07
4556	564949.9	4222215	2.74E-06	3.35E-06	1.76E-07	6.27E-06	1.45E-06	3.67E-06	1.76E-07	5.30E-06	3.60E-07	6.54E-07	5.77E-08	1.07E-06	2.79E-07	3.64E-07	2.63E-08	6.69E-07
4557	564955.1	4222206	2.74E-06	3.35E-06	1.77E-07	6.27E-06	1.45E-06	3.67E-06	1.77E-07	5.30E-06	3.60E-07	6.54E-07	5.78E-08	1.07E-06	2.79E-07	3.64E-07	2.64E-08	6.70E-07
4558	564932.2	4222205	2.56E-06	3.13E-06	1.65E-07	5.85E-06	1.36E-06	3.43E-06	1.65E-07	4.95E-06	3.36E-07	6.11E-07	5.39E-08	1.00E-06	2.60E-07	3.40E-07	2.46E-08	6.25E-07
4559	564938.7	4222195	2.56E-06	3.12E-06	1.65E-07	5.84E-06	1.36E-06	3.42E-06	1.65E-07	4.94E-06	3.36E-07	6.10E-07	5.38E-08	1.00E-06	2.60E-07	3.40E-07	2.46E-08	6.24E-07
4560	564914	4222236	2.52E-06	3.08E-06	1.62E-07	5.76E-06	1.34E-06	3.38E-06	1.62E-07	4.88E-06	3.31E-07	6.02E-07	5.31E-08	9.86E-07	2.56E-07	3.35E-07	2.42E-08	6.16E-07
4561	564917.6	4222191	2.39E-06	2.92E-06	1.54E-07	5.47E-06	1.27E-06	3.20E-06	1.54E-07	4.63E-06	3.14E-07	5.71E-07	5.04E-08	9.36E-07	2.43E-07	3.18E-07	2.30E-08	5.84E-07
4562	564923.9	4222180	2.38E-06	2.91E-06	1.53E-07	5.45E-06	1.26E-06	3.19E-06	1.53E-07	4.61E-06	3.13E-07	5.69E-07	5.02E-08	9.32E-07	2.42E-07	3.17E-07	2.29E-08	5.82E-07
4563	564929	4222172	2.37E-06	2.89E-06	1.53E-07	5.42E-06	1.26E-06	3.17E-06	1.53E-07	4.58E-06	3.11E-07	5.65E-07	4.99E-08	9.27E-07	2.41E-07	3.15E-07	2.28E-08	5.78E-07
4564	564898.5	4222184	2.25E-06	2.74E-06	1.45E-07	5.13E-06	1.19E-06	3.01E-06	1.45E-07	4.34E-06	2.95E-07	5.36E-07	4.73E-08	8.78E-07	2.28E-07	2.98E-07	2.16E-08	5.48E-07
4565	564906.2	4222171	2.23E-06	2.73E-06	1.44E-07	5.10E-06	1.18E-06	2.99E-06	1.44E-07	4.32E-06	2.93E-07	5.33E-07	4.70E-08	8.73E-07	2.27E-07	2.97E-07	2.15E-08	5.45E-07
4566	564884.6	4222168	2.1E-06	2.57E-06	1.35E-07	4.81E-06	1.12E-06	2.82E-06	1.35E-07	4.07E-06	2.76E-07	5.02E-07	4.43E-08	8.23E-07	2.14E-07	2.79E-07	2.02E-08	5.14E-07
4567	564892.3	4222155	2.09E-06	2.55E-06	1.34E-07	4.77E-06	1.11E-06	2.79E-06	1.34E-07	4.03E-06	2.74E-07	4.98E-07	4.39E-08	8.15E-07	2.12E-07	2.77E-07	2.00E-08	5.09E-07
4568	564897.5	4222147	2.07E-06	2.53E-06	1.33E-07	4.73E-06	1.10E-06	2.77E-06	1.33E-07	4.00E-06	2.72E-07	4.93E-07	4.36E-08	8.09E-07	2.10E-07	2.75E-07	1.99E-08	5.05E-07
4569	564850.1	4222187	1.99E-06	2.43E-06	1.28E-07	4.56E-06	1.06E-06	2.67E-06	1.28E-07	3.85E-06	2.62E-07	4.76E-07	4.20E-08	7.79E-07	2.03E-07	2.65E-07	1.92E-08	4.87E-07
4570	564869.4	4222155	1.97E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.82E-06	2.59E-07	4.71E-07	4.16E-08	7.72E-07	2.01E-07	2.62E-07	1.90E-08	4.82E-07
4571	564877.2	4222142	1.95E-06	2.38E-06	1.26E-07	4.46E-06	1.04E-06	2.61E-06	1.26E-07	3.78E-06	2.56E-07	4.66E-07	4.11E-08	7.63E-07	1.98E-07	2.59E-07	1.88E-08	4.77E-07
4572	564882.3	4222133	1.93E-06	2.36E-06	1.24E-07	4.42E-06	1.03E-06	2.59E-06	1.24E-07	3.74E-06	2.54E-07	4.61E-07	4.07E-08	7.56E-07	1.97E-07	2.57E-07	1.86E-08	4.72E-07
4573	564842.5	4222200	1.99E-06	2.43E-06	1.28E-07	4.55E-06	1.05E-06	2.66E-06	1.28E-07	3.84E-06	2.61E-07	4.74E-07	4.19E-08	7.77E-07	2.02E-07	2.64E-07	1.91E-08	4.85E-07
4574	564827	4222187	1.88E-06	2.3E-06	1.21E-07	4.30E-06	9.98E-07	2.52E-06	1.21E-07	3.64E-06	2.47E-07	4.49E-07	3.97E-08	7.36E-07	1.91E-07	2.50E-07	1.81E-08	4.60E-07
4575	564836.1	4222172	1.88E-06	2.3E-06	1.21E-07	4.31E-06	9.99E-07	2.52E-06	1.21E-07	3.64E-06	2.47E-07	4.49E-07	3.97E-08	7.36E-07	1.91E-07	2.50E-07	1.81E-08	4.60E-07
4576	564854.3	4222141	1.86E-06	2.27E-06	1.19E-07	4.24E-06	9.84E-07	2.48E-06	1.19E-07	3.59E-06	2.44E-07	4.43E-07	3.91E-08	7.25E-07	1.89E-07	2.46E-07	1.78E-08	4.53E-07
4577	564862.1	4222128	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.71E-07	2.45E-06	1.18E-07	3.54E-06	2.41E-07	4.37E-07	3.86E-08	7.16E-07	1.86E-07	2.43E-07	1.76E-08	4.47E-07
4578	564809.2	4222178	1.78E-06	2.18E-06	1.15E-07	4.08E-06	9.46E-07	2.39E-06	1.15E-07	3.45E-06	2.34E-07	4.26E-07	3.76E-08	6.98E-07	1.81E-07	2.37E-07	1.71E-08	4.36E-07
4579	564817	4222165	1.78E-06	2.18E-06	1.15E-07	4.08E-06	9.46E-07	2.39E-06	1.15E-07	3.45E-06	2.34E-07	4.26E-07	3.76E-08	6.97E-07	1.81E-07	2.37E-07	1.71E-08	4.35E-07
4580	564836.5	4222132	1.75E-06	2.14E-06	1.13E-07	4.00E-06	9.29E-07	2.35E-06	1.13E-07	3.39E-06	2.30E-07	4.18E-07	3.69E-08	6.85E-07	1.78E-07	2.33E-07	1.68E-08	4.28E-07
4581	564795.1	4222163	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.56E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
4582	564800.2	4222154	1.69E-06	2.06E-06	1.09E-07	3.86E-06	8.96E-07	2.26E-06	1.09E-07	3.27E-06	2.22E-07	4.03E-07	3.56E-08	6.61E-07	1.72E-07	2.25E-07	1.62E-08	4.12E-07
4583	564807.8	4222141	1.68E-06	2.05E-06	1.08E-07	3.84E-06	8.91E-07	2.25E-06	1.08E-07	3.25E-06	2.21E-07	4.01E-07	3.54E-08	6.57E-07	1.71E-07	2.23E-07	1.62E-08	4.10E-07
4584	564790	4222171	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.27E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.56E-08	6.62E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
4585	564953.8	4222296	2.93E-06	3.58E-06	1.89E-07	6.70E-06	1.55E-06	3.92E-06	1.89E-07	5.67E-06	3.85E-07	6.99E-07	6.17E-08	1.15E-06	2.98E-07	3.89E-07	2.82E-08	7.15E-07
4586	564912.4	4222291	2.55E-06	3.11E-06	1.64E-07	5.82E-06	1.35E-06	3.41E-06	1.64E-07	4.92E-06	3.34E-07	6.07E-07	5.36E-08	9.95E-07	2.59E-07	3.38E-07	2.45E-08	6.21E-07
4587	564917.6	4222279	2.6E-06	3.17E-06	1.67E-07	5.93E-06	1.38E-06	3.48E-06	1.67E-07	5.02E-06	3.41E-07	6.19E-07	5.47E-08	1.02E-06	2.64E-07	3.45E-07	2.49E-08	6.34E-07
4588	564892.2	4222288	2.39E-06	2.92E-06	1.54E-07	5.46E-06	1.27E-06	3.20E-06	1.54E-07	4.62E-06	3.14E-07	5.70E-07	5.03E-08	9.33E-07	2.43E-07	3.17E-07	2.29E-08	5.83E-07
4589	564896	4222279	2.42E-06	2.96E-06	1.56E-07	5.53E-06	1.28E-06	3.24E-06	1.56E-07	4.68E-06	3.18E-07	5.78E-07	5.10E-08	9.47E-07	2.46E-07	3.22E-07	2.33E-08	5.91E-07
4590	564873.3	4222281	2.26E-06	2.76E-06	1.45E-07	5.16E-06	1.20E-06	3.02E-06	1.45E-07	4.36E-06	2.96E-07	5.38E-07	4.75E-08	8.82E-07	2.29E-07	3.00E-07	2.17E-08	5.51E-07
4591	564880.9	4222263	2.31E-06	2.82E-06	1.49E-07	5.28E-06	1.22E-06	3.09E-06	1.49E-07	4.47E-06	3.03E-07	5.51E-07	4.86E-08	9.03E-07	2.35E-07	3.07E-07	2.22E-08	5.64E-07
4592	564888.5	4222245	2.35E-06	2.87E-06	1.51E-07	5.37E-06	1.24E-06	3.14E-06	1.51E-07	4.54E-06	3.08E-07	5.60E-07	4.95E-08	9.18E-07	2.39E-07	3.12E-07	2.26E-08	5.73E-07
4593	564894.9	4222230	2.37E-06	2.89E-06	1.52E-07	5.41E-06	1.25E-06	3.17E-06	1.52E-07	4.58E-06	3.11E-07	5.65E-07	4.99E-08	9.25E-07	2.41E-07	3.14E-07	2.27E-08	5.78E-07
4594	564861.1	4222259	2.18E-06	2.66E-06	1.40E-07	4.98E-06	1.15E-06	2.91E-06	1.40E-07	4.21E-06	2.86E-07	5.19E-07	4.58E-08	8.51E-07	2.21E-07	2.89E-07	2.09E-08	5.31E-07
4595	564846	4222243	2.08E-06	2.53E-06	1.34E-07	4.74E-06	1.10E-06	2.78E-06	1.34E-07	4.01E-06	2.73E-07	4.95E-07	4.37E-08	8.11E-07	2.11E-07	2.76E-07	1.99E-08	5.06E-07
4596	564849.9	4222234	2.09E-06	2.55E-06	1.34E-07	4.77E-06	1.11E-06	2.80E-06	1.34E-07	4.04E-06	2.74E-07	4.98E-07	4.40E-08	8.17E-07	2.12E-07	2.77E-07	2.01E-08	5.10E-07
4597	564856.5	4222219	2.1E-06	2.57E-06	1.35E-07	4.81E-06	1.11E-06	2.82E-06	1.35E-07	4.07E-06	2.76E-07	5.02E-07	4.43E-08	8.22E-07	2.14E-07	2.79E-07	2.02E-08	5.13E-07
4598	564833.1	4222274	2.01E-06	2.45E-06	1.29E-07	4.59E-06	1.06E-06	2.69E-06	1.29E-07	3.88E-06	2.64E-07	4.79E-07	4.23E-08	7.85E-07	2.04E-07	2.67E-07	1.93E-08	4.90E-07
4599	564824.4	4222243	1.96E-06	2.39E-06	1.26E-07	4.47E-06	1.04E-06	2.62E-06	1.26E-07	3.78E-06	2.57E-07	4.66E-07	4.12E-08	7.64E-07	1.99E-07	2.60E-07	1.88E-08	4.77E-07
4600	564830.9	4222228	1.98E-06	2.41E-06	1.27E-07	4.51E-06	1.05E-06	2.64E-06	1.27E-07	3.82E-06	2.59E-07	4.71E-07	4.16E-08	7.72E-07	2.01E-07	2.62E-07	1.90E-08	4.82E-07
4601	564836	4222216	1.99E-06	2.42E-06	1.28E-07	4.54E-06	1.05E-06	2.66E-06	1.28E-07	3.84E-06	2.61E-07	4.74E-07	4.18E-08	7.76E-07	2.02E-07	2.64E-07	1.91E-08	4.85E-07
4602	564799	4222252	1.83E-06	2.24E-06	1.18E-07	4.19E-06	9.71E-07	2.45E-06	1.18E-07	3.54E-06	2.41E-07	4.37E-07	3.86E-08	7.16E-07	1.86E-07	2.43E-07	1.76E-08	4.47E-07
4603	564809.3	4222228	1.87E-06	2.28E-06	1.20E-07	4.27E-06	9.90E-07	2.50E-06	1.20E-07	3.61E-06	2.45E-07	4.45E-07	3.93E-08	7.30E-07	1.90E-07	2.48E-07	1.79E-08	4.56E-07
4604	564815.7	4222213	1.88E-06	2.3E-06	1.21E-07	4.30E-06	9.96E-07	2.52E-06	1.21E-07	3.63E-06	2.47E-07	4.48E-07	3.96E-08	7.35E-07	1.91E-07	2.50E-07	1.81E-08	4.59E-07
4605	564822	4222198	1.88E-06	2.3E-06	1.21E-07	4.30E-06

4618	564903.8	4222450	1.9E-06	2.33E-06	1.23E-07	4.35E-06	1.01E-06	2.55E-06	1.23E-07	3.68E-06	2.50E-07	4.54E-07	4.01E-08	7.45E-07	1.94E-07	2.53E-07	1.83E-08	4.65E-07
4619	564889.7	4222415	2E-06	2.44E-06	1.28E-07	4.56E-06	1.06E-06	2.67E-06	1.28E-07	3.86E-06	2.62E-07	4.76E-07	4.20E-08	7.80E-07	2.03E-07	2.65E-07	1.92E-08	4.87E-07
4620	564901.3	4222345	2.35E-06	2.86E-06	1.51E-07	5.36E-06	1.24E-06	3.14E-06	1.51E-07	4.53E-06	3.08E-07	5.60E-07	4.94E-08	9.17E-07	2.38E-07	3.12E-07	2.25E-08	5.72E-07
4621	564869.6	4222415	1.88E-06	2.3E-06	1.21E-07	4.30E-06	9.97E-07	2.52E-06	1.21E-07	3.64E-06	2.47E-07	4.49E-07	3.96E-08	7.35E-07	1.91E-07	2.50E-07	1.81E-08	4.59E-07
4622	564863.9	4222459	1.67E-06	2.04E-06	1.08E-07	3.82E-06	8.87E-07	2.24E-06	1.08E-07	3.24E-06	2.20E-07	3.99E-07	3.52E-08	6.54E-07	1.70E-07	2.22E-07	1.61E-08	4.08E-07
4623	564863.9	4222468	1.63E-06	2E-06	1.05E-07	3.73E-06	8.66E-07	2.19E-06	1.05E-07	3.16E-06	2.15E-07	3.90E-07	3.44E-08	6.39E-07	1.66E-07	2.17E-07	1.57E-08	3.99E-07
4624	564849.5	4222416	1.78E-06	2.17E-06	1.14E-07	4.06E-06	9.42E-07	2.38E-06	1.14E-07	3.44E-06	2.33E-07	4.24E-07	3.74E-08	6.95E-07	1.81E-07	2.36E-07	1.71E-08	4.34E-07
4625	564843.9	4222459	1.59E-06	1.94E-06	1.02E-07	3.64E-06	8.43E-07	2.13E-06	1.02E-07	3.08E-06	2.09E-07	3.80E-07	3.35E-08	6.22E-07	1.62E-07	2.11E-07	1.53E-08	3.88E-07
4626	564843.9	4222468	1.55E-06	1.9E-06	1.00E-07	3.55E-06	8.24E-07	2.08E-06	1.00E-07	3.01E-06	2.04E-07	3.71E-07	3.27E-08	6.08E-07	1.58E-07	2.07E-07	1.49E-08	3.80E-07
4627	564828.3	4222424	1.66E-06	2.02E-06	1.07E-07	3.78E-06	8.78E-07	2.22E-06	1.07E-07	3.20E-06	2.17E-07	3.95E-07	3.49E-08	6.47E-07	1.68E-07	2.20E-07	1.59E-08	4.04E-07
4628	564829.8	4222415	1.69E-06	2.07E-06	1.09E-07	3.87E-06	8.97E-07	2.26E-06	1.09E-07	3.27E-06	2.22E-07	4.04E-07	3.56E-08	6.61E-07	1.72E-07	2.25E-07	1.63E-08	4.13E-07
4629	564840.1	4222352	1.93E-06	2.36E-06	1.24E-07	4.41E-06	1.02E-06	2.58E-06	1.24E-07	3.73E-06	2.53E-07	4.60E-07	4.06E-08	7.54E-07	1.96E-07	2.56E-07	1.85E-08	4.71E-07
4630	564823.9	4222459	1.51E-06	1.85E-06	9.75E-08	3.46E-06	8.03E-07	2.03E-06	9.75E-08	2.93E-06	1.99E-07	3.61E-07	3.19E-08	5.92E-07	1.54E-07	2.01E-07	1.45E-08	3.70E-07
4631	564823.9	4222469	1.48E-06	1.81E-06	9.53E-08	3.39E-06	7.85E-07	1.98E-06	9.53E-08	2.86E-06	1.95E-07	3.53E-07	3.12E-08	5.79E-07	1.51E-07	1.97E-07	1.42E-08	3.62E-07
4632	564819.9	4222354	1.82E-06	2.22E-06	1.17E-07	4.16E-06	9.65E-07	2.44E-06	1.17E-07	3.52E-06	2.39E-07	4.34E-07	3.83E-08	7.12E-07	1.85E-07	2.42E-07	1.75E-08	4.44E-07
4633	564802.6	4222337	1.77E-06	2.16E-06	1.14E-07	4.05E-06	9.39E-07	2.37E-06	1.14E-07	3.42E-06	2.32E-07	4.22E-07	3.73E-08	6.92E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
4634	564812.8	4222277	1.9E-06	2.32E-06	1.22E-07	4.34E-06	1.01E-06	2.54E-06	1.22E-07	3.67E-06	2.49E-07	4.53E-07	3.99E-08	7.42E-07	1.93E-07	2.52E-07	1.82E-08	4.63E-07
4635	564768.1	4222425	1.42E-06	1.74E-06	9.15E-08	3.25E-06	7.54E-07	1.90E-06	9.15E-08	2.75E-06	1.87E-07	3.39E-07	2.99E-08	5.56E-07	1.45E-07	1.89E-07	1.37E-08	3.47E-07
4636	564779.6	4222356	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.64E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.89E-07	3.43E-08	6.37E-07	1.66E-07	2.16E-07	1.57E-08	3.98E-07
4637	564789.6	4222296	1.77E-06	2.16E-06	1.14E-07	4.04E-06	9.38E-07	2.37E-06	1.14E-07	3.42E-06	2.32E-07	4.22E-07	3.72E-08	6.92E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
4638	564748.3	4222424	1.36E-06	1.66E-06	8.75E-08	3.11E-06	7.21E-07	1.82E-06	8.75E-08	2.63E-06	1.78E-07	3.24E-07	2.86E-08	5.31E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
4639	564744	4222478	1.21E-06	1.48E-06	7.80E-08	2.77E-06	6.42E-07	1.62E-06	7.80E-08	2.34E-06	1.59E-07	2.89E-07	2.55E-08	4.74E-07	1.23E-07	1.61E-07	1.16E-08	2.96E-07
4640	564740	4222354	1.48E-06	1.81E-06	9.52E-08	3.38E-06	7.84E-07	1.98E-06	9.52E-08	2.86E-06	1.94E-07	3.53E-07	3.12E-08	5.78E-07	1.50E-07	1.97E-07	1.42E-08	3.61E-07
4641	565287.9	4222688	8.07E-07	9.86E-07	5.20E-08	1.85E-06	4.28E-07	1.08E-06	5.20E-08	1.56E-06	1.06E-07	1.93E-07	1.70E-08	3.16E-07	8.21E-08	1.07E-07	7.76E-09	1.97E-07
4642	565275.9	4222684	8.27E-07	1.01E-06	5.32E-08	1.89E-06	4.39E-07	1.11E-06	5.32E-08	1.60E-06	1.09E-07	1.97E-07	1.74E-08	3.23E-07	8.41E-08	1.10E-07	7.95E-09	2.02E-07
4643	565264	4222680	8.49E-07	1.04E-06	5.46E-08	1.94E-06	4.50E-07	1.14E-06	5.46E-08	1.64E-06	1.11E-07	2.03E-07	1.79E-08	3.32E-07	8.63E-08	1.13E-07	8.16E-09	2.07E-07
4644	565252	4222676	8.72E-07	1.07E-06	5.61E-08	1.99E-06	4.62E-07	1.17E-06	5.61E-08	1.69E-06	1.15E-07	2.08E-07	1.84E-08	3.41E-07	8.86E-08	1.16E-07	8.38E-09	2.13E-07
4645	565216.1	4222665	9.51E-07	1.16E-06	6.12E-08	2.17E-06	5.04E-07	1.27E-06	6.12E-08	1.84E-06	1.25E-07	2.27E-07	2.00E-08	3.72E-07	9.67E-08	1.26E-07	9.14E-09	2.32E-07
4646	565200.2	4222660	9.88E-07	1.21E-06	6.36E-08	2.26E-06	5.24E-07	1.32E-06	6.36E-08	1.91E-06	1.30E-07	2.36E-07	2.08E-08	3.86E-07	1.00E-07	1.31E-07	9.50E-09	2.41E-07
4647	565162.3	4222651	1.06E-06	1.29E-06	6.81E-08	2.42E-06	5.61E-07	1.42E-06	6.81E-08	2.04E-06	1.39E-07	2.52E-07	2.23E-08	4.13E-07	1.07E-07	1.40E-07	1.02E-08	2.58E-07
4648	565294.3	4222709	7.14E-07	8.72E-07	4.59E-08	1.63E-06	3.78E-07	9.56E-07	4.59E-08	1.38E-06	9.37E-08	1.70E-07	1.50E-08	2.79E-07	7.25E-08	9.48E-08	6.86E-09	1.74E-07
4649	565278.4	4222704	7.34E-07	8.97E-07	4.72E-08	1.68E-06	3.89E-07	9.83E-07	4.72E-08	1.42E-06	9.64E-08	1.75E-07	1.55E-08	2.87E-07	7.46E-08	9.75E-08	7.05E-09	1.79E-07
4650	565266.5	4222700	7.51E-07	9.17E-07	4.83E-08	1.72E-06	3.98E-07	1.01E-06	4.83E-08	1.45E-06	9.86E-08	1.79E-07	1.58E-08	2.94E-07	7.63E-08	9.98E-08	7.22E-09	1.83E-07
4651	565242.6	4222692	7.9E-07	9.65E-07	5.08E-08	1.81E-06	4.19E-07	1.06E-06	5.08E-08	1.53E-06	1.04E-07	1.88E-07	1.66E-08	3.09E-07	8.03E-08	1.05E-07	7.59E-09	1.93E-07
4652	565230.7	4222689	8.11E-07	9.91E-07	5.22E-08	1.85E-06	4.30E-07	1.09E-06	5.22E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.17E-07	8.24E-08	1.08E-07	7.79E-09	1.98E-07
4653	565218.8	4222685	8.34E-07	1.02E-06	5.37E-08	1.91E-06	4.42E-07	1.12E-06	5.37E-08	1.61E-06	1.10E-07	1.99E-07	1.76E-08	3.26E-07	8.47E-08	1.11E-07	8.01E-09	2.04E-07
4654	565202.9	4222680	8.65E-07	1.06E-06	5.57E-08	1.98E-06	4.59E-07	1.16E-06	5.57E-08	1.67E-06	1.14E-07	2.06E-07	1.82E-08	3.38E-07	8.79E-08	1.15E-07	8.31E-09	2.11E-07
4655	565163.2	4222667	9.47E-07	1.16E-06	6.09E-08	2.16E-06	5.02E-07	1.27E-06	6.09E-08	1.83E-06	1.24E-07	2.26E-07	1.99E-08	3.70E-07	9.62E-08	1.26E-07	9.10E-09	2.31E-07
4656	565152.3	4222651	1.06E-06	1.29E-06	6.82E-08	2.42E-06	5.62E-07	1.42E-06	6.82E-08	2.05E-06	1.39E-07	2.53E-07	2.23E-08	4.14E-07	1.08E-07	1.41E-07	1.02E-08	2.59E-07
4657	565149.2	4222666	9.59E-07	1.17E-06	6.17E-08	2.19E-06	5.09E-07	1.28E-06	6.17E-08	1.85E-06	1.26E-07	2.29E-07	2.02E-08	3.75E-07	9.75E-08	1.27E-07	9.22E-09	2.34E-07
4658	565295.5	4222728	6.43E-07	7.85E-07	4.14E-08	1.47E-06	3.41E-07	8.60E-07	4.14E-08	1.24E-06	8.44E-08	1.53E-07	1.35E-08	2.51E-07	6.53E-08	8.54E-08	6.17E-09	1.57E-07
4659	565283.4	4222724	6.54E-07	7.99E-07	4.21E-08	1.50E-06	3.47E-07	8.76E-07	4.21E-08	1.27E-06	8.59E-08	1.56E-07	1.38E-08	2.56E-07	6.65E-08	8.69E-08	6.29E-09	1.60E-07
4660	565271.3	4222720	6.68E-07	8.16E-07	4.30E-08	1.53E-06	3.54E-07	8.95E-07	4.30E-08	1.29E-06	8.78E-08	1.59E-07	1.41E-08	2.61E-07	6.79E-08	8.88E-08	6.42E-09	1.63E-07
4661	565247.1	4222713	7E-07	8.54E-07	4.50E-08	1.60E-06	3.71E-07	9.37E-07	4.50E-08	1.35E-06	9.19E-08	1.67E-07	1.47E-08	2.74E-07	7.11E-08	9.29E-08	6.72E-09	1.71E-07
4662	565235	4222709	7.17E-07	8.76E-07	4.62E-08	1.64E-06	3.80E-07	9.60E-07	4.62E-08	1.39E-06	9.42E-08	1.71E-07	1.51E-08	2.80E-07	7.29E-08	9.53E-08	6.89E-09	1.75E-07
4663	565218.8	4222704	7.42E-07	9.06E-07	4.78E-08	1.70E-06	3.93E-07	9.94E-07	4.78E-08	1.43E-06	9.75E-08	1.77E-07	1.56E-08	2.90E-07	7.54E-08	9.86E-08	7.13E-09	1.81E-07
4664	565190.5	4222695	7.9E-07	9.65E-07	5.08E-08	1.81E-06	4.19E-07	1.06E-06	5.08E-08	1.53E-06	1.04E-07	1.88E-07	1.66E-08	3.09E-07	8.03E-08	1.05E-07	7.59E-09	1.93E-07
4665	565178.4	4222691	8.11E-07	9.91E-07	5.22E-08	1.85E-06	4.30E-07	1.09E-06	5.22E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.17E-07	8.25E-08	1.08E-07	7.80E-09	1.98E-07
4666	565139.1	4222665	9.62E-07	1.18E-06	6.19E-08	2.20E-06	5.10E-07	1.29E-06	6.19E-08	1.86E-06	1.26E-07	2.30E-07	2.03E-08	3.76E-07	9.78E-08	1.28E-07	9.24E-09	2.35E-07
4667	565136.1	4222680	8.74E-07	1.07E-06	5.63E-08	2.00E-06	4.63E-07	1.17E-06	5.63E-08	1.69E-06	1.15E-07	2.09E-07	1.84E-08	3.42E-07	8.88E-08	1.16E-07	8.40E-09	2.13E-07
4668	565127.4	4222661	9.88E-07	1.21E-06	6.36E-08	2.26E-06	5.24E-07	1.32E-06	6.36E-08	1.91E-06	1.30E-07	2.36E-07	2.08E-08	3.86E-07	1.00E-07	1.31E-07	9.49E-09	2.41E-07
4669	565116.9	4222638	1.15E-06	1.4E-06	7.38E-08	2.62E-06	6.08E-07	1.53E-06	7.38E-08	2.22E-06	1.51E-07	2.73E-07	2.41E-08	4.48E-07	1.16E-07	1.52E-07	1.10E-08	2.80E-07
4670	565294	4222746	5.85E-07	7.15E-07	3.77E-08	1.34E-06	3.10E-07	7.83E-07	3.77E-08	1.13E-06	7.68E-08	1.40E-07	1.23E-08	2.29E-07	5.95E-08	7.77E-08	5.62E-09	1.43E-07
4671	565281.9	4222742	5.95E-07	7.27E-07	3.83E-08	1.36E-06	3.15E-07	7.96E-07	3.83E-08	1.15E-06	7.81E-08	1.42E-07	1.25E-08	2.33E-07	6.05E-08	7.90E-08	5.72E-09	1.45E-07
4672	565249.7	4222732	6.28E-07	7.67E-07	4.04E-08	1.43E-06	3.33E-07	8.40E-07	4.04E-08	1.21E-06	8.24E-08	1.50E-07	1.32E-08	2.45E-07	6.38E-08	8.34E-08	6.03E-09	1.53E-07
4673	565237.6	4222729	6.42E-07	7.84E-07	4.13E-08	1.47E-06	3.40E-07	8.59E-07	4.13E-08	1.24E-06	8.43E-08	1.53E-07	1.35E-08	2.51E-07	6.52E-08	8.53E-08	6.17E-09	1.57E-07
4674	565197.4	4222716	6.96E-07	8.5E-07	4.48E-08	1.59E-06	3.69E-07	9.31E-07	4.48E-08	1.35E-06	9.14E-08	1.66E-07	1.47E-08	2.72E-07	7.07E-08	9.24E-08	6.68E-09	1.70E-07
4675	565115.7	4222657	1.01E-06	1.24E-06	6.52E-08	2.32E-06	5.37E-07	1.36E-06	6.52E-08	1.96E-06	1.33E-07	2.42E-07	2.13E-08	3.96E-07	1.03E-07	1.35E-07	9.73E-09	2.47E-07
4676	565096.5	4222615	1.32E-06	1.61E-06	8.49E-08	3.01E-06	6.99E-07	1.77E-06	8.49E-08	2.55E-06	1.73E-07	3.15E-07	2.78E-08	5.15E-07	1.34E-07	1.75E-07	1.27E-08	3.22E-07
4677	565091.3	4222603	1.41E-06	1.72E-06	9.09E-08	3.23E-06	7.49E-07	1.89E-06	9.09E-08	2.73E-06	1.85E-07	3.37E-07	2.97E-08	5.52E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
4678	565082.6	4222584	1.58E-06	1.93E-06	1.02E-07	3.61E-06	8.37E-07	2.11E-06	1.02E-07	3.05E-06	2.07E-07	3.76E-07	3.32E-08	6.17E-07	1.60E-07	2.10E-07	1.52E-08	3.85E-07
4679	565124.8	4222699	7.81E-07	9.54E-07	5.03E-08	1.79E-06	4.14E-07	1.05E-06	5.03E-08	1.51E-06	1.03E-07	1.86E-07	1.65E-08	3.05E-07	7.94E-08	1.04E-07	7.51E-09	1.91E-07
4680	565114.4	4222676	8.99E-07	1.1E-06	5.79E-08	2.05E-06	4.77E-07	1.20E-06	5.79E-08	1.74E-06	1.18E-07	2.14E-07	1.89E-08	3.51E-07	9.14E-08	1.19E-07	8.64E-09	2.19E-07
4681	565103.9	4222653	1.04E-06	1.27E-06	6.67E-08	2.37E-06	5.50E-07	1.39E-06	6.67E-08	2.00E-06	1.36E-07	2.47E-07	2.18E-08	4.05E-07	1.05E-07	1.38E-07	9.96E-09	2.53E-07
4682	565053.5	4222542	1.92E-06	2.35E-06	1.24E-07	4.39E-06	1.02E-06	2.57E-06	1.24E-07	3.71E-06	2.52E-07	4.58E-07	4.05E-08	7.51E-07	1.95E-07	2.55E-07	1.85E-08	4.69E-07
4683	565048.3	4222530	2.02E-06	2.47E-06	1.30E-07	4.62E-06	1.07E-06	2.71E-06	1.30E-07	3.91E-06	2.65E-07	4.82E-07	4.26E-08	7.90E-07	2.05E-07	2.69E-07	1.94E-08	4.93E-07
4684	565111.5	4222714	7.18E-07	8.77E-07	4.62E-08	1.64E-06	3.81E-07	9.61E-07	4.62E-08	1.39E-06	9.43E-08	1.71E-07	1.51E-08	2.81E-07	7.30E-08	9.54E-08	6.90E-09	1.75E-07
4685	565101.1	4222691	8.21E-07	1E-06	5.28E-08	1.88E-06	4.35E-07	1.10E-06	5.28E-08	1.59E-06	1.08E-07	1.96E-07	1.73E-08	3.21E-07	8.34E-08	1.09E-07	7.89E-09	2.00E-07
4686	565092.4	4222672	9.2E-07	1.12E-06	5.92E-08	2.10E-06	4.88E-07	1.23E-06	5.92E-08	1.78E-06	1.21E-07	2.19E-07	1.94E-08	3.60E-07	9.35E-08	1.22E-07	8.84E-09	2.25E-07
4687	565030	4222534	1.9E-06	2.33E-06	1.23E-07	4.35E-06	1.01E-06	2.55E-06	1.23E-07	3.68E-06	2.50E-07	4.54E-07	4.01E-08	7.44E-07	1.93E-07	2.53E-07	1.83E-08	4.65E-07
4688	565024.8	4222523	1.99E-06	2.43E-06	1.28E-07	4.55E-06	1.06E-06	2.67E-06	1.28E-07	3.85E-06	2.62E-07	4.75E-07	4.19E-08	7.79E-07	2.02E-07	2.65E-07	1.91E-08	4.86E-07
4689	565014.4	4222500	2.16E-06	2.64E-06	1.39E-07	4.94E-06	1.15E-06	2.89E-06	1.39E-07	4.18E-06	2.84E-07	5.15E-07	4.55E-08	8.45E-07	2.20E-07	2.87E-07	2.08E-08	5.27E-07
4690	565098.3	4222729	6.62E-07	8.09E-07	4.26E-08	1.51E-06	3.51E-07	8.87E-07	4.26E-08	1.28E-06	8.70E-08	1.58E-07	1.39E-08	2.59E-07	6.73E-08	8.80E-08	6.36E-09	1.62E-07
4691	565087.9	4222706	7.53E-07	9.19E-07	4.85E-08	1.72E-06	3.99E-07	1.01E-06	4.85E-08	1.46E-06	9.89E-08	1.80E-07	1.59E-08	2.94E-07	7.65E-08	1.00E-07	7.23E-09	1.84E-07
4692	565077.5	4222683	8.58E-07	1.05E-06	5.53E-08	1.96E-06	4.55E-07	1.15E-06	5.53E-08	1.66E-06	1.13E-07	2.05E-07	1.81E-08	3.36E-07	8.72E-08	1.14E-07	8.25E-09	2.10E-07
4693	565029	4222576	1.53E-06	1.87E-06	9.83E-08	3.49E-06	8.10E-07	2.05E-06	9.83E-08	2.95E-06	2.01E-07	3.64E-07	3.22E-08	5.97E-07	1.55E-07	2.03E-07	1.47E-08	3.73E-07
4694	565023.8	4222565	1.61E-06	1.96E-06	1.04E-07	3.68E-06	8.53E-07	2.15E-06	1.04E-07	3.11E-06	2.11E-07	3.84E-07	3.39E-08	6.29E-07	1.63E-07	2.14E-07	1.55E-08	3.93E-07
4695	565018.6	4222553	1.69E-06	2.06E-06	1.09E-07	3.86E-06	8.96E-07	2.26E-06	1.09E-07	3.27E-06	2.22E-07	4.03E-07	3.56E-08	6.61E-07	1.72E-07	2.25E-07	1.62E-08	4.13E-07
4696	565013.4	4222542	1.77E-06	2.16E-06	1.14E-07	4.05E-06	9.39E-07	2.37E-06	1.14E-07	3.42E-06	2.33E-07	4.23E-07	3.73E-08	6.93E-07	1.80E-07	2.35E-07	1.70E-08	4.32E-07
4697	565008.2	4222530	1.85E-06	2.26E-06	1.19E-07	4.23E-06	9.81E-07	2.48E-06	1.19E-07	3.58E-06	2.43E-07	4.41E-07	3.90E-08	7.23E-07	1.88E-07	2.46E-07	1.78E-08	4.51E-07
4698	565001.3	4222515	1.95E-06	2.38E-06	1.26E-07	4.46E-06	1.03E-06	2.61E-06	1.26E-07	3.77E-06	2.56E-07	4.65E-07	4.11E-08	7.63E-07	1.98E-07	2.59E-07	1.87E-08	4.76E-07
4699	565064.2	4222698	7.87E-07	9.61E-07	5.06E-08	1.80E-06	4.17E-07	1.05E-06	5.06E-08	1.52E-06	1.03E-07	1.88E-07	1.66E-08	3.08E-07	7.99E-08	1.05E-07	7.56E-09	1.92E-07
4700	565003.7	4222565	1.55E-06	1.9E-06	1.00E-07	3.55E-06	8.24E-07	2.08E-06	1.00E-07	3.00E-06	2.04E-07	3.71E-07	3.27E-08	6.07E-07	1.58E-07	2.06E-07	1.49E-08	3.79E-07
4701	564998.6	4222553	1.63E-06	1.99E-06	1.05E-07	3.72E-06	8.63E-07	2.18E-06	1.05E-07	3.15E-06	2.14E-07	3.88E-07	3.43E-08	6.36E-07	1.65E-07	2.16E-07	1.56E-08	3.97E-07
4702	564989.9	4222534	1.75E-06	2.13E-06	1.12E-07	3.99E-06	9.26E-07	2.34E-06	1.12E-07	3.38E-06	2.29E-07	4.17E-07	3.68E-08	6.83E-07	1.77E-07	2.32E-07	1.68E-08	4.26E-07
4703	565113.9	4222775	5.21E-07	6.36E-07	3.35E-08	1.19E-06	2.76E-07	6.97E-07	3.35E-08	1.01E-06	6.84E-08	1.24E-07	1.10E-08	2.04E-07	5.29E-08	6.92E-08	5.00E-09	1.27E-07
4704	565050.7	4222712	7.26E-07	8.87E-07	4.68E-08	1.66E-06	3.85E-07	9.73E-07	4.68E-08	1.40E-06	9.54E-08	1.73E-07	1.53E-08	2.84E-07	7.38E-08	9.65E-08	6.98E-09	1.77E-07
4705	564991.2	4222581	1.4E-06	1.71E-06	9.03E-08	3.21E-06	7.44E-07	1.88E-06	9.03E-08	2.71E-06	1.84E-07	3.35E-07	2.95E-08	5.48E-07	1.43E-07	1.86E-07	1.35E-08	3.42E-07
4706	564986	4222570	1.47E-06	1.8E-06	9.46E-08	3.36E-06	7.79E-07	1.97E-06	9.46E-08	2.84E-06	1.93E-07	3.51E-07	3.10E-08	5.75E-07	1.49E-07	1.95E-07	1.41E-08	3.59E-07
4707	564977.2	4222550	1.58E-06	1.93E-06	1.02E-07	3.62E-06	8.39E-07	2.12E-06	1.02E-07	3.06E-06	2.08E-07	3.77E-07	3.33E-08	6.19E-07	1.61E-07	2.10E-07	1.52E-08	3.86E-07
4708	565049.7	4222754	5.84E-07	7.14E-07	3.76E-08	1.34E-06	3.10E-07	7.82E-07	3.76E-08	1.13E-06	7.67E-08	1.39E-07	1.23E-08	2.28E-07	5.94E-08	7.76E-08	5.61E-09	1.43E-07
4709	564978.1	4222596	1.28E-06	1.56E-06	8.22E-08	2.92E-06	6.78E-07	1.71E-06	8.22E-08	2.47E-06	1.68E-07	3.05E-07	2.69E-08	5.00E-07	1.30E-07	1.70E-07	1.23E-08	3.12E-07
4710	564972.9	4222585	1.34E-06	1.64E-06	8.62E-08	3.06E-06	7.10E-07	1.79E-06	8.62E-08	2.59E-06	1.76E-07	3.19E-07	2.82E-08	5.24E-07	1.36E-07	1.78E-07	1.29E-08	3.27E-07
4711	564967.6	4222573	1.4E-06	1.71E-06	9.01E-08	3.20E-06	7.42E-07	1.87E-06	9.01E-08	2.71E-06	1.84E-07	3.34E-07	2.95E-08	5.47E-07	1.42E-07	1.86E-07	1.35E-08	3.42E-07
4712	565103.2	4222810	4.45E-07	5.44E-07	2.87E-08	1.02E-06	2.36E-07	5.96E-07	2.87E-08	8.61E-07	5.85E-08	1.06E-07	9.38E-09	1.74E-07	4.53E-08	5.92E-08	4.28E-09	1.09E-07
4713	565026	4222746	6.1E-07	7.45E-07	3.92E-08	1.39E-06	3.23E-07	8.16E-07	3.92E-08	1.18E-06	8.01E-08	1.45E-07	1.28E-08	2.38E-07	6.20E-08	8.10E-08	5.86E-09	1.49E-07
4714	564965	4222612	1.17E-06	1.43E-06	7.52E-08	2.67E-06	6.19E-07	1.56E-06	7.52E-08	2.26E-06	1.53E-07	2.79E-07	2.46E-08	4.57E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
4715	564959.8	4222600	1.22E-06	1.5E-06	7.88E-08	2.80E-06	6.

4728	564925.7	4222569	1.33E-06	1.62E-06	8.54E-08	3.03E-06	7.04E-07	1.78E-06	8.54E-08	2.57E-06	1.74E-07	3.17E-07	2.80E-08	5.19E-07	1.35E-07	1.76E-07	1.28E-08	3.24E-07
4729	565084.5	4222843	3.91E-07	4.78E-07	2.52E-08	8.94E-07	2.07E-07	5.24E-07	2.52E-08	7.56E-07	5.13E-08	9.33E-08	8.23E-09	1.53E-07	3.97E-08	5.19E-08	3.76E-09	9.54E-08
4730	565072.5	4222839	3.98E-07	4.86E-07	2.56E-08	9.10E-07	2.11E-07	5.33E-07	2.56E-08	7.69E-07	5.23E-08	9.49E-08	8.38E-09	1.56E-07	4.04E-08	5.29E-08	3.82E-09	9.71E-08
4731	565060.5	4222835	4.05E-07	4.95E-07	2.61E-08	9.26E-07	2.15E-07	5.42E-07	2.61E-08	7.83E-07	5.32E-08	9.66E-08	8.53E-09	1.58E-07	4.12E-08	5.38E-08	3.89E-09	9.88E-08
4732	565032.4	4222826	4.22E-07	5.16E-07	2.72E-08	9.66E-07	2.24E-07	5.66E-07	2.72E-08	8.17E-07	5.55E-08	1.01E-07	8.90E-09	1.65E-07	4.29E-08	5.61E-08	4.06E-09	1.03E-07
4733	564999.5	4222776	5.29E-07	6.46E-07	3.41E-08	1.21E-06	2.81E-07	7.08E-07	3.41E-08	1.02E-06	6.95E-08	1.26E-07	1.11E-08	2.07E-07	5.38E-08	7.03E-08	5.08E-09	1.29E-07
4734	564933.5	4222631	1.03E-06	1.26E-06	6.64E-08	2.36E-06	5.47E-07	1.38E-06	6.64E-08	1.99E-06	1.35E-07	2.46E-07	2.17E-08	4.03E-07	1.05E-07	1.37E-07	9.91E-09	2.52E-07
4735	564928.3	4222619	1.08E-06	1.32E-06	6.94E-08	2.47E-06	5.72E-07	1.44E-06	6.94E-08	2.09E-06	1.42E-07	2.57E-07	2.27E-08	4.22E-07	1.10E-07	1.43E-07	1.04E-08	2.63E-07
4736	564923.1	4222608	1.13E-06	1.38E-06	7.25E-08	2.57E-06	5.97E-07	1.51E-06	7.25E-08	2.18E-06	1.48E-07	2.69E-07	2.37E-08	4.40E-07	1.14E-07	1.50E-07	1.08E-08	2.75E-07
4737	564917.8	4222596	1.17E-06	1.43E-06	7.56E-08	2.68E-06	6.22E-07	1.57E-06	7.56E-08	2.27E-06	1.54E-07	2.80E-07	2.47E-08	4.59E-07	1.19E-07	1.56E-07	1.13E-08	2.87E-07
4738	564912.6	4222585	1.22E-06	1.49E-06	7.86E-08	2.79E-06	6.47E-07	1.63E-06	7.86E-08	2.36E-06	1.60E-07	2.91E-07	2.57E-08	4.77E-07	1.24E-07	1.62E-07	1.17E-08	2.98E-07
4739	565099.2	4222867	3.56E-07	4.35E-07	2.29E-08	8.14E-07	1.89E-07	4.77E-07	2.29E-08	6.89E-07	4.68E-08	8.50E-08	7.50E-09	1.39E-07	3.62E-08	4.73E-08	3.42E-09	8.69E-08
4740	565071.2	4222858	3.7E-07	4.52E-07	2.38E-08	8.45E-07	1.96E-07	4.95E-07	2.38E-08	7.15E-07	4.86E-08	8.82E-08	7.79E-09	1.45E-07	3.76E-08	4.91E-08	3.55E-09	9.03E-08
4741	565059.2	4222854	3.76E-07	4.59E-07	2.42E-08	8.59E-07	1.99E-07	5.03E-07	2.42E-08	7.27E-07	4.94E-08	8.97E-08	7.92E-09	1.47E-07	3.82E-08	5.00E-08	3.61E-09	9.18E-08
4742	565047.1	4222850	3.82E-07	4.67E-07	2.46E-08	8.74E-07	2.03E-07	5.12E-07	2.46E-08	7.39E-07	5.02E-08	9.13E-08	8.06E-09	1.50E-07	3.89E-08	5.08E-08	3.67E-09	9.34E-08
4743	565015.1	4222840	4.01E-07	4.89E-07	2.58E-08	9.16E-07	2.12E-07	5.37E-07	2.58E-08	7.75E-07	5.26E-08	9.56E-08	8.44E-09	1.57E-07	4.07E-08	5.32E-08	3.85E-09	9.78E-08
4744	564996.7	4222814	4.47E-07	5.46E-07	2.88E-08	1.02E-06	2.37E-07	5.99E-07	2.88E-08	8.65E-07	5.87E-08	1.07E-07	9.42E-09	1.75E-07	4.55E-08	5.94E-08	4.30E-09	1.09E-07
4745	564988	4222795	4.87E-07	5.94E-07	3.13E-08	1.11E-06	2.58E-07	6.51E-07	3.13E-08	9.41E-07	6.39E-08	1.16E-07	1.02E-08	1.90E-07	4.94E-08	6.46E-08	4.68E-09	1.19E-07
4746	564979.3	4222776	5.31E-07	6.48E-07	3.42E-08	1.21E-06	2.81E-07	7.11E-07	3.42E-08	1.03E-06	6.97E-08	1.27E-07	1.12E-08	2.07E-07	5.39E-08	7.05E-08	5.10E-09	1.30E-07
4747	564915.1	4222634	9.94E-07	1.21E-06	6.40E-08	2.27E-06	5.27E-07	1.33E-06	6.40E-08	1.92E-06	1.31E-07	2.37E-07	2.09E-08	3.89E-07	1.01E-07	1.32E-07	9.55E-09	2.43E-07
4748	564909.9	4222623	1.04E-06	1.27E-06	6.68E-08	2.37E-06	5.50E-07	1.39E-06	6.68E-08	2.01E-06	1.36E-07	2.48E-07	2.19E-08	4.06E-07	1.05E-07	1.38E-07	9.97E-09	2.53E-07
4749	564904.7	4222612	1.08E-06	1.32E-06	6.96E-08	2.47E-06	5.74E-07	1.45E-06	6.96E-08	2.09E-06	1.42E-07	2.58E-07	2.28E-08	4.23E-07	1.10E-07	1.44E-07	1.04E-08	2.64E-07
4750	564899.5	4222600	1.13E-06	1.37E-06	7.24E-08	2.57E-06	5.97E-07	1.51E-06	7.24E-08	2.18E-06	1.48E-07	2.68E-07	2.37E-08	4.40E-07	1.14E-07	1.49E-07	1.08E-08	2.75E-07
4751	564894.3	4222589	1.17E-06	1.43E-06	7.52E-08	2.67E-06	6.20E-07	1.56E-06	7.52E-08	2.26E-06	1.53E-07	2.79E-07	2.46E-08	4.57E-07	1.19E-07	1.55E-07	1.12E-08	2.85E-07
4752	565086.8	4222882	3.37E-07	4.12E-07	2.17E-08	7.71E-07	1.79E-07	4.52E-07	2.17E-08	6.52E-07	4.43E-08	8.05E-08	7.11E-09	1.32E-07	3.43E-08	4.48E-08	3.24E-09	8.24E-08
4753	565074.7	4222878	3.43E-07	4.19E-07	2.21E-08	7.83E-07	1.82E-07	4.59E-07	2.21E-08	6.63E-07	4.50E-08	8.18E-08	7.22E-09	1.34E-07	3.48E-08	4.55E-08	3.29E-09	8.36E-08
4754	565062.5	4222874	3.48E-07	4.25E-07	2.24E-08	7.96E-07	1.85E-07	4.66E-07	2.24E-08	6.73E-07	4.57E-08	8.31E-08	7.33E-09	1.36E-07	3.54E-08	4.62E-08	3.34E-09	8.50E-08
4755	565001.9	4222855	3.78E-07	4.62E-07	2.44E-08	8.65E-07	2.01E-07	5.07E-07	2.44E-08	7.32E-07	4.97E-08	9.03E-08	7.97E-09	1.48E-07	3.85E-08	5.03E-08	3.64E-09	9.24E-08
4756	564974.5	4222810	4.58E-07	5.59E-07	2.94E-08	1.05E-06	2.43E-07	6.13E-07	2.94E-08	8.85E-07	6.01E-08	1.09E-07	9.64E-09	1.79E-07	4.65E-08	6.08E-08	4.40E-09	1.12E-07
4757	564897.5	4222640	9.53E-07	1.16E-06	6.13E-08	2.18E-06	5.05E-07	1.28E-06	6.13E-08	1.84E-06	1.25E-07	2.27E-07	2.01E-08	3.73E-07	9.68E-08	1.27E-07	9.15E-09	2.33E-07
4758	564892.3	4222628	9.94E-07	1.21E-06	6.40E-08	2.27E-06	5.27E-07	1.33E-06	6.40E-08	1.92E-06	1.31E-07	2.37E-07	2.09E-08	3.89E-07	1.01E-07	1.32E-07	9.55E-09	2.43E-07
4759	564887	4222617	1.03E-06	1.26E-06	6.66E-08	2.37E-06	5.49E-07	1.39E-06	6.66E-08	2.00E-06	1.36E-07	2.47E-07	2.18E-08	4.05E-07	1.05E-07	1.37E-07	9.94E-09	2.53E-07
4760	564881.8	4222605	1.08E-06	1.31E-06	6.92E-08	2.46E-06	5.70E-07	1.44E-06	6.92E-08	2.08E-06	1.41E-07	2.57E-07	2.26E-08	4.20E-07	1.09E-07	1.43E-07	1.03E-08	2.62E-07
4761	565089.5	4222902	3.15E-07	3.84E-07	2.02E-08	7.19E-07	1.67E-07	4.21E-07	2.02E-08	6.08E-07	4.13E-08	7.50E-08	6.62E-09	1.23E-07	3.20E-08	4.18E-08	3.02E-09	7.68E-08
4762	565073.4	4222897	3.21E-07	3.92E-07	2.06E-08	7.33E-07	1.70E-07	4.29E-07	2.06E-08	6.20E-07	4.21E-08	7.65E-08	6.75E-09	1.25E-07	3.26E-08	4.26E-08	3.08E-09	7.83E-08
4763	565061.3	4222893	3.25E-07	3.97E-07	2.09E-08	7.44E-07	1.73E-07	4.36E-07	2.09E-08	6.29E-07	4.27E-08	7.76E-08	6.85E-09	1.27E-07	3.31E-08	4.32E-08	3.13E-09	7.94E-08
4764	565049.2	4222889	3.3E-07	4.04E-07	2.13E-08	7.55E-07	1.75E-07	4.42E-07	2.13E-08	6.39E-07	4.34E-08	7.88E-08	6.96E-09	1.29E-07	3.36E-08	4.39E-08	3.17E-09	8.06E-08
4765	565024.9	4222881	3.41E-07	4.16E-07	2.19E-08	7.79E-07	1.81E-07	4.56E-07	2.19E-08	6.59E-07	4.48E-08	8.13E-08	7.18E-09	1.33E-07	3.46E-08	4.53E-08	3.28E-09	8.32E-08
4766	565012.8	4222878	3.46E-07	4.23E-07	2.23E-08	7.92E-07	1.84E-07	4.64E-07	2.23E-08	6.70E-07	4.55E-08	8.26E-08	7.30E-09	1.35E-07	3.52E-08	4.60E-08	3.33E-09	8.46E-08
4767	564988.6	4222870	3.58E-07	4.37E-07	2.30E-08	8.18E-07	1.90E-07	4.79E-07	2.30E-08	6.92E-07	4.70E-08	8.54E-08	7.54E-09	1.40E-07	3.64E-08	4.76E-08	3.44E-09	8.74E-08
4768	564963	4222829	4.23E-07	5.17E-07	2.72E-08	9.68E-07	2.24E-07	5.67E-07	2.72E-08	8.18E-07	5.56E-08	1.01E-07	8.91E-09	1.65E-07	4.30E-08	5.62E-08	4.07E-09	1.03E-07
4769	564954.3	4222809	4.59E-07	5.61E-07	2.96E-08	1.05E-06	2.43E-07	6.15E-07	2.96E-08	8.88E-07	6.03E-08	1.10E-07	9.67E-09	1.80E-07	4.67E-08	6.10E-08	4.41E-09	1.12E-07
4770	564884.4	4222655	8.82E-07	1.08E-06	5.68E-08	2.02E-06	4.68E-07	1.18E-06	5.68E-08	1.71E-06	1.16E-07	2.10E-07	1.86E-08	3.45E-07	8.96E-08	1.17E-07	8.47E-09	2.15E-07
4771	564873.9	4222632	9.58E-07	1.17E-06	6.17E-08	2.19E-06	5.08E-07	1.28E-06	6.17E-08	1.85E-06	1.26E-07	2.29E-07	2.02E-08	3.74E-07	9.73E-08	1.27E-07	9.20E-09	2.34E-07
4772	564868.7	4222620	9.96E-07	1.22E-06	6.41E-08	2.28E-06	5.28E-07	1.33E-06	6.41E-08	1.92E-06	1.31E-07	2.38E-07	2.10E-08	3.89E-07	1.01E-07	1.32E-07	9.57E-09	2.43E-07
4773	565326.1	4222996	2.42E-07	2.95E-07	1.56E-08	5.52E-07	1.28E-07	3.24E-07	1.56E-08	4.67E-07	3.17E-08	5.76E-08	5.09E-09	9.45E-08	2.46E-08	3.21E-08	2.32E-09	5.90E-08
4774	565305.9	4222989	2.43E-07	2.97E-07	1.57E-08	5.56E-07	1.29E-07	3.26E-07	1.57E-08	4.71E-07	3.20E-08	5.81E-08	5.13E-09	9.52E-08	2.47E-08	3.23E-08	2.34E-09	5.94E-08
4775	565281.7	4222982	2.46E-07	3.01E-07	1.59E-08	5.63E-07	1.31E-07	3.30E-07	1.59E-08	4.76E-07	3.24E-08	5.88E-08	5.19E-09	9.63E-08	2.50E-08	3.27E-08	2.37E-09	6.01E-08
4776	565269.6	4222978	2.48E-07	3.03E-07	1.60E-08	5.67E-07	1.32E-07	3.32E-07	1.60E-08	4.80E-07	3.26E-08	5.92E-08	5.23E-09	9.70E-08	2.52E-08	3.30E-08	2.38E-09	6.06E-08
4777	565257.5	4222974	2.5E-07	3.06E-07	1.61E-08	5.72E-07	1.33E-07	3.35E-07	1.61E-08	4.84E-07	3.29E-08	5.97E-08	5.27E-09	9.78E-08	2.54E-08	3.32E-08	2.40E-09	6.11E-08
4778	565245.4	4222970	2.53E-07	3.08E-07	1.63E-08	5.77E-07	1.34E-07	3.38E-07	1.63E-08	4.88E-07	3.32E-08	6.02E-08	5.32E-09	9.87E-08	2.57E-08	3.35E-08	2.43E-09	6.16E-08
4779	565233.3	4222966	2.55E-07	3.11E-07	1.64E-08	5.83E-07	1.35E-07	3.41E-07	1.64E-08	4.93E-07	3.35E-08	6.08E-08	5.37E-09	9.97E-08	2.59E-08	3.39E-08	2.45E-09	6.22E-08
4780	565221.2	4222963	2.58E-07	3.15E-07	1.66E-08	5.89E-07	1.37E-07	3.45E-07	1.66E-08	4.98E-07	3.38E-08	6.15E-08	5.43E-09	1.01E-07	2.62E-08	3.42E-08	2.48E-09	6.29E-08
4781	565180.9	4222950	2.68E-07	3.27E-07	1.72E-08	6.12E-07	1.42E-07	3.59E-07	1.72E-08	5.18E-07	3.52E-08	6.39E-08	5.64E-09	1.05E-07	2.72E-08	3.56E-08	2.57E-09	6.54E-08
4782	565168.8	4222946	2.71E-07	3.31E-07	1.74E-08	6.20E-07	1.44E-07	3.63E-07	1.74E-08	5.24E-07	3.56E-08	6.47E-08	5.71E-09	1.06E-07	2.75E-08	3.60E-08	2.60E-09	6.62E-08
4783	565156.7	4222942	2.74E-07	3.35E-07	1.77E-08	6.27E-07	1.46E-07	3.68E-07	1.77E-08	5.31E-07	3.60E-08	6.55E-08	5.78E-09	1.07E-07	2.79E-08	3.65E-08	2.64E-09	6.70E-08
4784	565144.6	4222938	2.78E-07	3.4E-07	1.79E-08	6.35E-07	1.47E-07	3.72E-07	1.79E-08	5.37E-07	3.65E-08	6.63E-08	5.85E-09	1.09E-07	2.83E-08	3.69E-08	2.67E-09	6.79E-08
4785	565132.5	4222935	2.82E-07	3.44E-07	1.81E-08	6.44E-07	1.49E-07	3.77E-07	1.81E-08	5.44E-07	3.70E-08	6.72E-08	5.93E-09	1.10E-07	2.86E-08	3.74E-08	2.71E-09	6.87E-08
4786	565108.3	4222927	2.89E-07	3.53E-07	1.86E-08	6.61E-07	1.53E-07	3.87E-07	1.86E-08	5.59E-07	3.80E-08	6.90E-08	6.09E-09	1.13E-07	2.94E-08	3.84E-08	2.78E-09	7.05E-08
4787	565080.1	4222918	2.98E-07	3.64E-07	1.92E-08	6.82E-07	1.58E-07	3.99E-07	1.92E-08	5.77E-07	3.92E-08	7.11E-08	6.28E-09	1.17E-07	3.03E-08	3.96E-08	2.86E-09	7.28E-08
4788	565068	4222914	3.02E-07	3.69E-07	1.95E-08	6.91E-07	1.60E-07	4.05E-07	1.95E-08	5.84E-07	3.97E-08	7.21E-08	6.37E-09	1.18E-07	3.07E-08	4.02E-08	2.90E-09	7.38E-08
4789	565055.9	4222910	3.07E-07	3.74E-07	1.97E-08	7.01E-07	1.63E-07	4.10E-07	1.97E-08	5.93E-07	4.03E-08	7.31E-08	6.46E-09	1.20E-07	3.12E-08	4.07E-08	2.95E-09	7.48E-08
4790	565031.7	4222903	3.16E-07	3.85E-07	2.03E-08	7.21E-07	1.67E-07	4.23E-07	2.03E-08	6.10E-07	4.14E-08	7.53E-08	6.65E-09	1.23E-07	3.21E-08	4.19E-08	3.03E-09	7.70E-08
4791	565019.6	4222899	3.2E-07	3.91E-07	2.06E-08	7.32E-07	1.70E-07	4.29E-07	2.06E-08	6.19E-07	4.21E-08	7.64E-08	6.75E-09	1.25E-07	3.26E-08	4.26E-08	3.08E-09	7.82E-08
4792	564975.3	4222885	3.39E-07	4.15E-07	2.18E-08	7.76E-07	1.80E-07	4.54E-07	2.18E-08	6.56E-07	4.46E-08	8.10E-08	7.15E-09	1.33E-07	3.45E-08	4.51E-08	3.26E-09	8.28E-08
4793	564958.5	4222863	3.7E-07	4.51E-07	2.38E-08	8.45E-07	1.96E-07	4.95E-07	2.38E-08	7.15E-07	4.85E-08	8.82E-08	7.78E-09	1.44E-07	3.76E-08	4.91E-08	3.55E-09	9.02E-08
4794	564949.8	4222844	3.99E-07	4.87E-07	2.57E-08	9.12E-07	2.12E-07	5.34E-07	2.57E-08	7.72E-07	5.24E-08	9.52E-08	8.41E-09	1.56E-07	4.06E-08	5.30E-08	3.83E-09	9.74E-08
4795	564944.5	4222832	4.18E-07	5.11E-07	2.69E-08	9.56E-07	2.22E-07	5.60E-07	2.69E-08	8.09E-07	5.49E-08	9.98E-08	8.81E-09	1.64E-07	4.25E-08	5.56E-08	4.02E-09	1.02E-07
4796	564935.8	4222813	4.53E-07	5.54E-07	2.92E-08	1.04E-06	2.40E-07	6.07E-07	2.92E-08	8.76E-07	5.95E-08	1.08E-07	9.55E-09	1.77E-07	4.61E-08	6.02E-08	4.36E-09	1.11E-07
4797	564871.3	4222670	8.18E-07	1E-06	5.27E-08	1.87E-06	4.34E-07	1.10E-06	5.27E-08	1.58E-06	1.07E-07	1.95E-07	1.72E-08	3.20E-07	8.32E-08	1.09E-07	7.86E-09	2.00E-07
4798	564866	4222659	8.53E-07	1.04E-06	5.49E-08	1.95E-06	4.52E-07	1.14E-06	5.49E-08	1.65E-06	1.12E-07	2.04E-07	1.80E-08	3.34E-07	8.67E-08	1.13E-07	8.20E-09	2.08E-07
4799	564855.5	4222636	9.24E-07	1.13E-06	5.95E-08	2.11E-06	4.90E-07	1.24E-06	5.95E-08	1.79E-06	1.21E-07	2.20E-07	1.95E-08	3.61E-07	9.39E-08	1.23E-07	8.88E-09	2.25E-07
4800	564850.3	4222624	9.59E-07	1.17E-06	6.17E-08	2.19E-06	5.08E-07	1.28E-06	6.17E-08	1.85E-06	1.26E-07	2.29E-07	2.02E-08	3.75E-07	9.74E-08	1.27E-07	9.21E-09	2.34E-07
4801	565328.4	4223016	2.29E-07	2.8E-07	1.48E-08	5.24E-07	1.22E-07	3.07E-07	1.48E-08	4.43E-07	3.01E-08	5.47E-08	4.83E-09	8.97E-08	2.33E-08	3.05E-08	2.20E-09	5.60E-08
4802	565316.3	4223012	2.3E-07	2.81E-07	1.48E-08	5.26E-07	1.22E-07	3.08E-07	1.48E-08	4.45E-07	3.02E-08	5.49E-08	4.85E-09	9.00E-08	2.34E-08	3.06E-08	2.21E-09	5.62E-08
4803	565304.3	4223008	2.31E-07	2.82E-07	1.49E-08	5.29E-07	1.23E-07	3.10E-07	1.49E-08	4.47E-07	3.04E-08	5.52E-08	4.87E-09	9.04E-08	2.35E-08	3.07E-08	2.22E-09	5.64E-08
4804	565280.1	4223000	2.34E-07	2.86E-07	1.51E-08	5.35E-07	1.24E-07	3.13E-07	1.51E-08	4.52E-07	3.07E-08	5.58E-08	4.93E-09	9.15E-08	2.38E-08	3.11E-08	2.25E-09	5.71E-08
4805	565268	4222997	2.36E-07	2.88E-07	1.52E-08	5.38E-07	1.25E-07	3.15E-07	1.52E-08	4.55E-07	3.09E-08	5.62E-08	4.96E-09	9.21E-08	2.39E-08	3.13E-08	2.26E-09	5.75E-08
4806	565255.9	4222993	2.37E-07	2.9E-07	1.53E-08	5.42E-07	1.26E-07	3.18E-07	1.53E-08	4.59E-07	3.12E-08	5.66E-08	5.00E-09	9.28E-08	2.41E-08	3.15E-08	2.28E-09	5.79E-08
4807	565243.9	4222989	2.39E-07	2.92E-07	1.54E-08	5.47E-07	1.27E-07	3.21E-07	1.54E-08	4.63E-07	3.14E-08	5.71E-08	5.04E-09	9.36E-08	2.43E-08	3.18E-08	2.30E-09	5.84E-08
4808	565231.8	4222985	2.42E-07	2.95E-07	1.56E-08	5.52E-07	1.28E-07	3.24E-07	1.56E-08	4.67E-07	3.17E-08	5.77E-08	5.09E-09	9.45E-08	2.46E-08	3.21E-08	2.32E-09	5.90E-08
4809	565219.7	4222981	2.44E-07	2.98E-07	1.57E-08	5.58E-07	1.29E-07	3.27E-07	1.57E-08	4.72E-07	3.21E-08	5.82E-08	5.14E-09	9.54E-08	2.48E-08	3.24E-08	2.35E-09	5.96E-08
4810	565179.4	4222969	2.53E-07	3.09E-07	1.63E-08	5.79E-07	1.34E-07	3.39E-07	1.63E-08	4.90E-07	3.33E-08	6.04E-08	5.33E-09	9.90E-08	2.57E-08	3.36E-08	2.43E-09	6.18E-08
4811	565167.4	4222965	2.56E-07	3.13E-07	1.65E-08	5.86E-07	1.36E-07	3.43E-07	1.65E-08	4.95E-07	3.37E-08	6.11E-08	5.40E-09	1.00E-07	2.60E-08	3.40E-08	2.46E-09	6.25E-08
4812	565155.3	4222961	2.59E-07	3.17E-07	1.67E-08	5.93E-07	1.38E-07	3.47E-07	1.67E-08	5.01E-07	3.41E-08	6.19E-08	5.46E-09	1.01E-07	2.64E-08	3.45E-08	2.49E-09	6.33E-08
4813	565143.2	4222957	2.63E-07	3.21E-07	1.69E-08	6.00E-07	1.39E-07	3.51E-07	1.69E-08	5.08E-07	3.45E-08	6.26E-08	5.53E-09	1.03E-07	2.67E-08	3.49E-08	2.52E-09	6.41E-08
4814	565131.1	4222953	2.66E-07	3.25E-07	1.71E-08	6.07E-07	1.41E-07	3.56E-07	1.71E-08	5.14E-07	3.49E-08	6.34E-08	5.60E-09	1.04E-07	2.70E-08	3.53E-08	2.55E-09	6.49E-08
4815	565107	4222946	2.72E-07	3.33E-07	1.75E-08	6.23E-07	1.44E-07	3.65E-07	1.75E-08	5.27E-07	3.58E-08	6.50E-08	5.74E-09	1.07E-07	2.77E-08	3.62E-08	2.62E-09	6.65E-08
4816	565094.9	4222942	2.76E-07	3.37E-07	1.78E-08	6.31E-07	1.46E-07	3.69E-07	1.78E-08	5.34E-07	3.62E-08	6.58E-08	5.81E-09	1.08E-07	2.80E-08	3.67E-08	2.65E-09	6.74E-08
4817	565074.8	4222935	2.82E-07	3.44E-07	1.81E-08	6.44E-07	1.49E-07	3.77E-07	1.81E-08	5.45E-07	3.70E-08	6.73E-08	5.94E-09	1.10E-07	2.87E-08	3.75E-08	2.71E-09	6.88E-08
4818	565062.7	4222932	2.86E-07	3.49E-07	1.84E-08	6.53E-07	1.51E-07	3.82E-07	1.84E-08	5.52E-07	3.75E-08	6.82E-08	6.02E-09	1.12E-07	2.90E-08	3.79E-08	2.74E-09	6.97E-08
4819	565050.6	4222928	2.89E-07	3.54E-07	1.86E-08	6.62E-07	1.53E-07	3.88E-07	1.86E-08	5.60E-07	3.80E-08	6.91E-08	6.10E-09	1.13E-07	2.94E-08	3.85E-08	2.78E-09	7.07E-08
4820	565026.4	4222920	2.98E-07	3.63E-07	1.92E-08	6.80E-07	1.58E-07	3.98E-07	1.92E-08	5.75E-07	3.91E-08	7.10E-08	6.27E-09	1.16E-07	3.02E-08	3.95E-08	2.86E-09	7.26E-08
4821	565014.4	4222916	3.02E-07	3.69E-07	1.94E-08	6.90E-07	1.60E-07	4.04E-07	1.94E-08	5.84E-07	3.96E-08	7.20E-08	6.36E-09	1.18E-07	3.07E-08	4.01E-08	2.90E-09	7.37E-08
4822	565002.3	4222913	3.06E-07	3.74E-07	1.97E-08	7.00E-07	1.62E-07	4.10E-07	1.97E-08	5.92E-07	4.02E-08	7.31E-08	6.45E-09	1.20E-07	3.11E-08	4.07E-08	2.94E-09	7.48E-08
4823	564990.2	4222909	3.11E-07	3.8E-07	2.00E-08	7.11E-07	1.65E-07	4.16E-07	2.00E-08	6.01E-07	4.08E-08	7.42E-08	6.55E-09	1.22E-07	3.16E-08	4.13E-08	2.99E-09	7.59E-08
4824	564978.1	4222905	3.16E-07	3.86E-07	2.03E-08	7.21E-07	1.67E-07	4.23E-07	2.03E-08	6.10E-07	4.15E-08	7.53E-08	6.65E-09	1.23E-07	3.21E-08	4.19E-08	3.03E-09	7.70E-08
4825	564966	4222901	3.21E-07	3.92E-07	2.06E-08

4838	565318.7	4223032	2.19E-07	2.67E-07	1.41E-08	5.00E-07	1.16E-07	2.93E-07	1.41E-08	4.23E-07	2.87E-08	5.22E-08	4.61E-09	8.55E-08	2.22E-08	2.91E-08	2.10E-09	5.34E-08
4839	565306.6	4223028	2.2E-07	2.68E-07	1.41E-08	5.02E-07	1.16E-07	2.94E-07	1.41E-08	4.25E-07	2.88E-08	5.24E-08	4.63E-09	8.59E-08	2.23E-08	2.92E-08	2.11E-09	5.36E-08
4840	565282.5	4223020	2.22E-07	2.71E-07	1.43E-08	5.07E-07	1.18E-07	2.97E-07	1.43E-08	4.29E-07	2.91E-08	5.30E-08	4.67E-09	8.68E-08	2.26E-08	2.95E-08	2.13E-09	5.42E-08
4841	565270.4	4223016	2.23E-07	2.73E-07	1.44E-08	5.11E-07	1.18E-07	2.99E-07	1.44E-08	4.32E-07	2.93E-08	5.33E-08	4.70E-09	8.73E-08	2.27E-08	2.97E-08	2.15E-09	5.45E-08
4842	565258.4	4223013	2.25E-07	2.75E-07	1.45E-08	5.14E-07	1.19E-07	3.01E-07	1.45E-08	4.35E-07	2.95E-08	5.37E-08	4.74E-09	8.80E-08	2.29E-08	2.99E-08	2.16E-09	5.49E-08
4843	565246.3	4223009	2.27E-07	2.77E-07	1.46E-08	5.18E-07	1.20E-07	3.04E-07	1.46E-08	4.38E-07	2.98E-08	5.41E-08	4.78E-09	8.87E-08	2.30E-08	3.01E-08	2.18E-09	5.53E-08
4844	565234.2	4223005	2.29E-07	2.79E-07	1.47E-08	5.23E-07	1.21E-07	3.06E-07	1.47E-08	4.42E-07	3.00E-08	5.46E-08	4.82E-09	8.94E-08	2.32E-08	3.04E-08	2.20E-09	5.58E-08
4845	565222.2	4223001	2.31E-07	2.82E-07	1.49E-08	5.28E-07	1.22E-07	3.09E-07	1.49E-08	4.46E-07	3.03E-08	5.51E-08	4.86E-09	9.03E-08	2.35E-08	3.07E-08	2.22E-09	5.63E-08
4846	565198.1	4222994	2.36E-07	2.88E-07	1.52E-08	5.39E-07	1.25E-07	3.15E-07	1.52E-08	4.56E-07	3.09E-08	5.62E-08	4.96E-09	9.21E-08	2.39E-08	3.13E-08	2.26E-09	5.75E-08
4847	565186	4222990	2.38E-07	2.91E-07	1.53E-08	5.44E-07	1.26E-07	3.19E-07	1.53E-08	4.61E-07	3.13E-08	5.68E-08	5.02E-09	9.31E-08	2.42E-08	3.16E-08	2.29E-09	5.81E-08
4848	565173.9	4222986	2.41E-07	2.94E-07	1.55E-08	5.51E-07	1.28E-07	3.22E-07	1.55E-08	4.66E-07	3.16E-08	5.75E-08	5.07E-09	9.42E-08	2.45E-08	3.20E-08	2.31E-09	5.88E-08
4849	565161.9	4222982	2.44E-07	2.98E-07	1.57E-08	5.57E-07	1.29E-07	3.26E-07	1.57E-08	4.71E-07	3.20E-08	5.81E-08	5.13E-09	9.53E-08	2.48E-08	3.24E-08	2.34E-09	5.95E-08
4850	565149.8	4222978	2.46E-07	3.01E-07	1.59E-08	5.63E-07	1.31E-07	3.30E-07	1.59E-08	4.77E-07	3.24E-08	5.88E-08	5.19E-09	9.64E-08	2.50E-08	3.27E-08	2.37E-09	6.02E-08
4851	565137.7	4222975	2.49E-07	3.05E-07	1.61E-08	5.70E-07	1.32E-07	3.34E-07	1.61E-08	4.82E-07	3.28E-08	5.95E-08	5.25E-09	9.75E-08	2.53E-08	3.31E-08	2.40E-09	6.09E-08
4852	565113.6	4222967	2.55E-07	3.12E-07	1.64E-08	5.84E-07	1.35E-07	3.42E-07	1.64E-08	4.94E-07	3.35E-08	6.09E-08	5.38E-09	9.99E-08	2.60E-08	3.39E-08	2.45E-09	6.23E-08
4853	565101.5	4222963	2.59E-07	3.16E-07	1.66E-08	5.91E-07	1.37E-07	3.46E-07	1.66E-08	5.00E-07	3.40E-08	6.17E-08	5.44E-09	1.01E-07	2.63E-08	3.43E-08	2.48E-09	6.31E-08
4854	565089.5	4222959	2.62E-07	3.2E-07	1.68E-08	5.98E-07	1.39E-07	3.50E-07	1.68E-08	5.06E-07	3.44E-08	6.24E-08	5.51E-09	1.02E-07	2.66E-08	3.48E-08	2.51E-09	6.39E-08
4855	565077.4	4222955	2.65E-07	3.24E-07	1.71E-08	6.05E-07	1.40E-07	3.55E-07	1.71E-08	5.12E-07	3.48E-08	6.32E-08	5.58E-09	1.04E-07	2.69E-08	3.52E-08	2.55E-09	6.47E-08
4856	565065.3	4222952	2.68E-07	3.28E-07	1.73E-08	6.13E-07	1.42E-07	3.59E-07	1.73E-08	5.19E-07	3.52E-08	6.40E-08	5.65E-09	1.05E-07	2.73E-08	3.56E-08	2.58E-09	6.55E-08
4857	565053.3	4222948	2.72E-07	3.32E-07	1.75E-08	6.21E-07	1.44E-07	3.64E-07	1.75E-08	5.25E-07	3.57E-08	6.48E-08	5.72E-09	1.06E-07	2.76E-08	3.61E-08	2.61E-09	6.63E-08
4858	565029.2	4222940	2.79E-07	3.4E-07	1.79E-08	6.37E-07	1.48E-07	3.73E-07	1.79E-08	5.39E-07	3.66E-08	6.65E-08	5.87E-09	1.09E-07	2.83E-08	3.70E-08	2.68E-09	6.80E-08
4859	565017.1	4222936	2.82E-07	3.45E-07	1.82E-08	6.46E-07	1.50E-07	3.78E-07	1.82E-08	5.46E-07	3.71E-08	6.74E-08	5.95E-09	1.10E-07	2.87E-08	3.75E-08	2.71E-09	6.89E-08
4860	565005	4222933	2.86E-07	3.5E-07	1.84E-08	6.55E-07	1.52E-07	3.83E-07	1.84E-08	5.54E-07	3.76E-08	6.83E-08	6.03E-09	1.12E-07	2.91E-08	3.80E-08	2.75E-09	6.99E-08
4861	564993	4222929	2.9E-07	3.55E-07	1.87E-08	6.64E-07	1.54E-07	3.89E-07	1.87E-08	5.61E-07	3.81E-08	6.93E-08	6.12E-09	1.14E-07	2.95E-08	3.86E-08	2.79E-09	7.09E-08
4862	564980.9	4222925	2.95E-07	3.6E-07	1.90E-08	6.73E-07	1.56E-07	3.94E-07	1.90E-08	5.70E-07	3.87E-08	7.03E-08	6.20E-09	1.15E-07	2.99E-08	3.91E-08	2.83E-09	7.19E-08
4863	564968.8	4222921	2.99E-07	3.65E-07	1.92E-08	6.83E-07	1.58E-07	4.00E-07	1.92E-08	5.78E-07	3.93E-08	7.13E-08	6.29E-09	1.17E-07	3.04E-08	3.97E-08	2.87E-09	7.30E-08
4864	564956.8	4222917	3.03E-07	3.71E-07	1.95E-08	6.93E-07	1.61E-07	4.06E-07	1.95E-08	5.87E-07	3.98E-08	7.24E-08	6.39E-09	1.19E-07	3.08E-08	4.03E-08	2.91E-09	7.41E-08
4865	564944.7	4222913	3.08E-07	3.76E-07	1.98E-08	7.04E-07	1.63E-07	4.12E-07	1.98E-08	5.96E-07	4.05E-08	7.35E-08	6.49E-09	1.20E-07	3.13E-08	4.09E-08	2.96E-09	7.52E-08
4866	564937.2	4222905	3.18E-07	3.89E-07	2.05E-08	7.27E-07	1.69E-07	4.26E-07	2.05E-08	6.15E-07	4.18E-08	7.59E-08	6.70E-09	1.24E-07	3.23E-08	4.23E-08	3.06E-09	7.77E-08
4867	564932	4222893	3.32E-07	4.05E-07	2.14E-08	7.59E-07	1.76E-07	4.44E-07	2.14E-08	6.42E-07	4.36E-08	7.92E-08	6.99E-09	1.30E-07	3.37E-08	4.41E-08	3.19E-09	8.10E-08
4868	564926.8	4222881	3.47E-07	4.23E-07	2.23E-08	7.92E-07	1.84E-07	4.64E-07	2.23E-08	6.70E-07	4.55E-08	8.27E-08	7.30E-09	1.36E-07	3.52E-08	4.60E-08	3.33E-09	8.46E-08
4869	564921.5	4222870	3.62E-07	4.42E-07	2.33E-08	8.28E-07	1.92E-07	4.85E-07	2.33E-08	7.00E-07	4.76E-08	8.64E-08	7.63E-09	1.42E-07	3.68E-08	4.81E-08	3.48E-09	8.84E-08
4870	564916.3	4222858	3.79E-07	4.62E-07	2.44E-08	8.65E-07	2.01E-07	5.07E-07	2.44E-08	7.32E-07	4.97E-08	9.03E-08	7.97E-09	1.48E-07	3.85E-08	5.03E-08	3.64E-09	9.24E-08
4871	564911.1	4222847	3.96E-07	4.84E-07	2.55E-08	9.05E-07	2.10E-07	5.30E-07	2.55E-08	7.66E-07	5.20E-08	9.45E-08	8.34E-09	1.55E-07	4.03E-08	5.26E-08	3.81E-09	9.67E-08
4872	564904.1	4222832	4.21E-07	5.15E-07	2.71E-08	9.63E-07	2.23E-07	5.64E-07	2.71E-08	8.15E-07	5.53E-08	1.01E-07	8.87E-09	1.65E-07	4.28E-08	5.60E-08	4.05E-09	1.03E-07
4873	564845	4222701	7.09E-07	8.66E-07	4.56E-08	1.62E-06	3.76E-07	9.50E-07	4.56E-08	1.37E-06	9.31E-08	1.69E-07	1.49E-08	2.77E-07	7.21E-08	9.42E-08	6.81E-09	1.73E-07
4874	564839.7	4222689	7.39E-07	9.03E-07	4.76E-08	1.69E-06	3.92E-07	9.90E-07	4.76E-08	1.43E-06	9.71E-08	1.76E-07	1.56E-08	2.89E-07	7.51E-08	9.82E-08	7.10E-09	1.80E-07
4875	564834.5	4222678	7.7E-07	9.4E-07	4.95E-08	1.76E-06	4.08E-07	1.03E-06	4.95E-08	1.49E-06	1.01E-07	1.84E-07	1.62E-08	3.01E-07	7.82E-08	1.02E-07	7.39E-09	1.88E-07
4876	564829.3	4222666	8E-07	9.77E-07	5.15E-08	1.83E-06	4.24E-07	1.07E-06	5.15E-08	1.55E-06	1.05E-07	1.91E-07	1.68E-08	3.13E-07	8.13E-08	1.06E-07	7.69E-09	1.95E-07
4877	564824.1	4222655	8.31E-07	1.01E-06	5.35E-08	1.90E-06	4.40E-07	1.11E-06	5.35E-08	1.61E-06	1.09E-07	1.98E-07	1.75E-08	3.25E-07	8.44E-08	1.10E-07	7.98E-09	2.03E-07
4878	564749.2	4222490	1.19E-06	1.46E-06	7.69E-08	2.73E-06	6.33E-07	1.60E-06	7.69E-08	2.31E-06	1.57E-07	2.85E-07	2.52E-08	4.67E-07	1.21E-07	1.59E-07	1.15E-08	2.92E-07
4879	565333.1	4223055	2.08E-07	2.54E-07	1.34E-08	4.75E-07	1.10E-07	2.78E-07	1.34E-08	4.02E-07	2.73E-08	4.96E-08	4.38E-09	8.12E-08	2.11E-08	2.76E-08	2.00E-09	5.07E-08
4880	565321	4223052	2.08E-07	2.54E-07	1.34E-08	4.76E-07	1.10E-07	2.79E-07	1.34E-08	4.03E-07	2.74E-08	4.97E-08	4.39E-09	8.15E-08	2.12E-08	2.77E-08	2.00E-09	5.08E-08
4881	565309	4223048	2.09E-07	2.55E-07	1.35E-08	4.78E-07	1.11E-07	2.80E-07	1.35E-08	4.04E-07	2.75E-08	4.99E-08	4.40E-09	8.17E-08	2.12E-08	2.78E-08	2.01E-09	5.10E-08
4882	565284.9	4223040	2.11E-07	2.58E-07	1.36E-08	4.82E-07	1.12E-07	2.83E-07	1.36E-08	4.08E-07	2.77E-08	5.03E-08	4.44E-09	8.25E-08	2.14E-08	2.80E-08	2.03E-09	5.15E-08
4883	565272.8	4223036	2.12E-07	2.59E-07	1.37E-08	4.85E-07	1.13E-07	2.84E-07	1.37E-08	4.10E-07	2.79E-08	5.06E-08	4.47E-09	8.30E-08	2.16E-08	2.82E-08	2.04E-09	5.18E-08
4884	565260.8	4223033	2.14E-07	2.61E-07	1.38E-08	4.88E-07	1.13E-07	2.86E-07	1.38E-08	4.13E-07	2.81E-08	5.10E-08	4.50E-09	8.35E-08	2.17E-08	2.84E-08	2.05E-09	5.21E-08
4885	565248.7	4223029	2.15E-07	2.63E-07	1.39E-08	4.92E-07	1.14E-07	2.88E-07	1.39E-08	4.16E-07	2.83E-08	5.13E-08	4.53E-09	8.41E-08	2.19E-08	2.86E-08	2.07E-09	5.25E-08
4886	565236.7	4223025	2.17E-07	2.65E-07	1.40E-08	4.96E-07	1.15E-07	2.90E-07	1.40E-08	4.19E-07	2.85E-08	5.18E-08	4.57E-09	8.48E-08	2.20E-08	2.88E-08	2.08E-09	5.29E-08
4887	565224.6	4223021	2.19E-07	2.67E-07	1.41E-08	5.00E-07	1.16E-07	2.93E-07	1.41E-08	4.23E-07	2.87E-08	5.22E-08	4.61E-09	8.55E-08	2.22E-08	2.91E-08	2.10E-09	5.34E-08
4888	565212.6	4223017	2.21E-07	2.7E-07	1.42E-08	5.05E-07	1.17E-07	2.96E-07	1.42E-08	4.27E-07	2.90E-08	5.27E-08	4.65E-09	8.64E-08	2.24E-08	2.93E-08	2.12E-09	5.39E-08
4889	565188.5	4223010	2.25E-07	2.75E-07	1.45E-08	5.15E-07	1.19E-07	3.02E-07	1.45E-08	4.36E-07	2.96E-08	5.38E-08	4.75E-09	8.81E-08	2.29E-08	2.99E-08	2.17E-09	5.50E-08
4890	565176.4	4223006	2.28E-07	2.78E-07	1.47E-08	5.21E-07	1.21E-07	3.05E-07	1.47E-08	4.40E-07	2.99E-08	5.43E-08	4.80E-09	8.91E-08	2.31E-08	3.03E-08	2.19E-09	5.56E-08
4891	565164.4	4223002	2.3E-07	2.81E-07	1.48E-08	5.26E-07	1.22E-07	3.08E-07	1.48E-08	4.45E-07	3.02E-08	5.49E-08	4.85E-09	9.00E-08	2.34E-08	3.06E-08	2.21E-09	5.62E-08
4892	565104.1	4222983	2.44E-07	2.98E-07	1.57E-08	5.57E-07	1.29E-07	3.26E-07	1.57E-08	4.71E-07	3.20E-08	5.82E-08	5.13E-09	9.53E-08	2.48E-08	3.24E-08	2.34E-09	5.95E-08
4893	565092.1	4222979	2.47E-07	3.01E-07	1.59E-08	5.64E-07	1.31E-07	3.30E-07	1.59E-08	4.77E-07	3.24E-08	5.88E-08	5.19E-09	9.64E-08	2.51E-08	3.28E-08	2.37E-09	6.02E-08
4894	565080	4222975	2.5E-07	3.05E-07	1.61E-08	5.70E-07	1.32E-07	3.34E-07	1.61E-08	4.83E-07	3.28E-08	5.95E-08	5.26E-09	9.76E-08	2.54E-08	3.32E-08	2.40E-09	6.09E-08
4895	565068	4222972	2.53E-07	3.08E-07	1.63E-08	5.77E-07	1.34E-07	3.38E-07	1.63E-08	4.88E-07	3.32E-08	6.03E-08	5.32E-09	9.87E-08	2.57E-08	3.35E-08	2.43E-09	6.16E-08
4896	565055.9	4222968	2.56E-07	3.12E-07	1.64E-08	5.84E-07	1.35E-07	3.42E-07	1.64E-08	4.94E-07	3.36E-08	6.10E-08	5.38E-09	9.99E-08	2.60E-08	3.40E-08	2.46E-09	6.24E-08
4897	565043.9	4222964	2.59E-07	3.16E-07	1.66E-08	5.91E-07	1.37E-07	3.46E-07	1.66E-08	5.00E-07	3.40E-08	6.17E-08	5.45E-09	1.01E-07	2.63E-08	3.44E-08	2.49E-09	6.31E-08
4898	565019.8	4222956	2.65E-07	3.24E-07	1.71E-08	6.06E-07	1.41E-07	3.55E-07	1.71E-08	5.13E-07	3.48E-08	6.33E-08	5.58E-09	1.04E-07	2.69E-08	3.52E-08	2.55E-09	6.47E-08
4899	565007.7	4222953	2.69E-07	3.28E-07	1.73E-08	6.14E-07	1.42E-07	3.60E-07	1.73E-08	5.19E-07	3.53E-08	6.41E-08	5.66E-09	1.05E-07	2.73E-08	3.57E-08	2.58E-09	6.56E-08
4900	564995.7	4222949	2.72E-07	3.32E-07	1.75E-08	6.22E-07	1.44E-07	3.64E-07	1.75E-08	5.26E-07	3.57E-08	6.49E-08	5.73E-09	1.06E-07	2.77E-08	3.61E-08	2.61E-09	6.64E-08
4901	564983.6	4222945	2.76E-07	3.37E-07	1.77E-08	6.30E-07	1.46E-07	3.69E-07	1.77E-08	5.33E-07	3.62E-08	6.58E-08	5.81E-09	1.08E-07	2.80E-08	3.66E-08	2.65E-09	6.73E-08
4902	564971.6	4222941	2.8E-07	3.41E-07	1.80E-08	6.39E-07	1.48E-07	3.74E-07	1.80E-08	5.41E-07	3.67E-08	6.67E-08	5.89E-09	1.09E-07	2.84E-08	3.71E-08	2.69E-09	6.82E-08
4903	564959.5	4222937	2.84E-07	3.46E-07	1.82E-08	6.48E-07	1.50E-07	3.80E-07	1.82E-08	5.48E-07	3.72E-08	6.76E-08	5.97E-09	1.11E-07	2.88E-08	3.77E-08	2.72E-09	6.92E-08
4904	564947.5	4222934	2.88E-07	3.51E-07	1.85E-08	6.57E-07	1.53E-07	3.85E-07	1.85E-08	5.56E-07	3.78E-08	6.86E-08	6.06E-09	1.12E-07	2.92E-08	3.82E-08	2.76E-09	7.02E-08
4905	564935.4	4222930	2.92E-07	3.56E-07	1.88E-08	6.67E-07	1.55E-07	3.91E-07	1.88E-08	5.64E-07	3.83E-08	6.96E-08	6.15E-09	1.14E-07	2.97E-08	3.88E-08	2.80E-09	7.12E-08
4906	564925.7	4222923	2.99E-07	3.65E-07	1.92E-08	6.83E-07	1.58E-07	4.00E-07	1.92E-08	5.78E-07	3.92E-08	7.13E-08	6.29E-09	1.17E-07	3.04E-08	3.97E-08	2.87E-09	7.29E-08
4907	564920.5	4222912	3.11E-07	3.8E-07	2.00E-08	7.11E-07	1.65E-07	4.16E-07	2.00E-08	6.01E-07	4.09E-08	7.42E-08	6.55E-09	1.22E-07	3.16E-08	4.13E-08	2.99E-09	7.59E-08
4908	564915.2	4222900	3.24E-07	3.96E-07	2.09E-08	7.41E-07	1.72E-07	4.34E-07	2.09E-08	6.27E-07	4.26E-08	7.74E-08	6.83E-09	1.27E-07	3.29E-08	4.31E-08	3.12E-09	7.91E-08
4909	564910	4222889	3.38E-07	4.13E-07	2.18E-08	7.73E-07	1.79E-07	4.53E-07	2.18E-08	6.54E-07	4.44E-08	8.07E-08	7.12E-09	1.32E-07	3.44E-08	4.49E-08	3.25E-09	8.26E-08
4910	564904.8	4222877	3.53E-07	4.31E-07	2.27E-08	8.07E-07	1.87E-07	4.73E-07	2.27E-08	6.83E-07	4.64E-08	8.43E-08	7.44E-09	1.38E-07	3.59E-08	4.69E-08	3.39E-09	8.62E-08
4911	564899.6	4222866	3.69E-07	4.51E-07	2.37E-08	8.43E-07	1.96E-07	4.94E-07	2.37E-08	7.13E-07	4.85E-08	8.80E-08	7.77E-09	1.44E-07	3.75E-08	4.90E-08	3.55E-09	9.01E-08
4912	564894.4	4222854	3.86E-07	4.71E-07	2.48E-08	8.82E-07	2.05E-07	5.17E-07	2.48E-08	7.46E-07	5.07E-08	9.20E-08	8.12E-09	1.51E-07	3.92E-08	5.12E-08	3.71E-09	9.42E-08
4913	564889.2	4222843	4.04E-07	4.93E-07	2.60E-08	9.22E-07	2.14E-07	5.40E-07	2.60E-08	7.80E-07	5.30E-08	9.63E-08	8.50E-09	1.58E-07	4.10E-08	5.36E-08	3.88E-09	9.85E-08
4914	564883.9	4222831	4.22E-07	5.16E-07	2.72E-08	9.66E-07	2.24E-07	5.66E-07	2.72E-08	8.17E-07	5.55E-08	1.01E-07	8.90E-09	1.65E-07	4.29E-08	5.61E-08	4.06E-09	1.03E-07
4915	564878.7	4222820	4.42E-07	5.4E-07	2.85E-08	1.01E-06	2.35E-07	5.92E-07	2.85E-08	8.55E-07	5.81E-08	1.06E-07	9.32E-09	1.73E-07	4.49E-08	5.88E-08	4.25E-09	1.08E-07
4916	564873.5	4222808	4.63E-07	5.66E-07	2.98E-08	1.06E-06	2.46E-07	6.20E-07	2.98E-08	8.96E-07	6.08E-08	1.11E-07	9.75E-09	1.81E-07	4.71E-08	6.15E-08	4.45E-09	1.13E-07
4917	564868.3	4222797	4.85E-07	5.92E-07	3.12E-08	1.11E-06	2.57E-07	6.49E-07	3.12E-08	9.38E-07	6.37E-08	1.16E-07	1.02E-08	1.90E-07	4.93E-08	6.44E-08	4.66E-09	1.18E-07
4918	564863.1	4222785	5.08E-07	6.2E-07	3.27E-08	1.16E-06	2.69E-07	6.80E-07	3.27E-08	9.82E-07	6.67E-08	1.21E-07	1.07E-08	1.99E-07	5.16E-08	6.75E-08	4.88E-09	1.24E-07
4919	564857.9	4222774	5.32E-07	6.49E-07	3.42E-08	1.22E-06	2.82E-07	7.12E-07	3.42E-08	1.03E-06	6.98E-08	1.27E-07	1.12E-08	2.08E-07	5.40E-08	7.06E-08	5.11E-09	1.30E-07
4920	564852.7	4222762	5.56E-07	6.79E-07	3.58E-08	1.27E-06	2.95E-07	7.45E-07	3.58E-08	1.08E-06	7.31E-08	1.33E-07	1.17E-08	2.18E-07	5.65E-08	7.39E-08	5.35E-09	1.36E-07
4921	564847.4	4222751	5.82E-07	7.11E-07	3.74E-08	1.33E-06	3.08E-07	7.79E-07	3.74E-08	1.12E-06	7.64E-08	1.39E-07	1.23E-08	2.27E-07	5.91E-08	7.73E-08	5.59E-09	1.42E-07
4922	564842.2	4222739	6.08E-07	7.43E-07	3.91E-08	1.39E-06	3.22E-07	8.14E-07	3.91E-08	1.18E-06	7.98E-08	1.45E-07	1.28E-08	2.38E-07	6.18E-08	8.08E-08	5.84E-09	1.48E-07
4923	564837	4222728	6.35E-07	7.75E-07	4.09E-08	1.45E-06	3.37E-07	8.50E-07	4.09E-08	1.23E-06	8.34E-08	1.51E-07	1.34E-08	2.48E-07	6.45E-08	8.43E-08	6.10E-09	1.55E-07
4924	564831.8	4222716	6.62E-07	8.09E-07	4.26E-08	1.51E-06	3.51E-07	8.87E-07	4.26E-08	1.28E-06	8.70E-08	1.58E-07	1.39E-08	2.59E-07	6.73E-08	8.80E-08	6.36E-09	1.62E-07
4925	564826.6	4222705	6.9E-07	8.43E-07	4.44E-08	1.58E-06	3.66E-07	9.24E-07	4.44E-08	1.33E-06	9.06E-08	1.65E-07	1.45E-08	2.70E-07	7.01E-08	9.17E-08	6.63E-09	1.68E-07
4926	564821.4	4222693	7.18E-07	8.77E-07	4.62E-08	1.64E-06	3.81E-07	9.62E-07	4.62E-08	1.39E-06	9.43E-08	1.71E-07	1.51E-08	2.81E-07	7.30E-08	9.54E-08	6.90E-09	1.75E-07
4927	564816.1	4222682	7.47E-07	9.12E-07	4.81E-08	1.71E-06	3.96E-07	1.00E-06	4.81E-08	1.44E-06	9.81E-08	1.78E-07	1.57E-08	2.92E-07	7.59E-08	9.92E-08	7.17E-09	1.82E-07
4928	565045.8	4222984	2.44E-07	2.98E-07	1.57E-08	5.58E-07	1.29E-07	3.27E-07	1.57E-08	4.72E-07	3.20E-08	5.82E-08	5.14E-09	9.54E-08	2.48E-08	3.24E-08	2.34E-09	5.96E-08
4929	565036	4223001	2.32E-07	2.84E-07	1.50E-08	5.31E-07	1.23E-07	3.11E-07	1.50E-08	4.49E-07	3.05E-08	5.54E-08	4.89E-09	9.08E-08	2.36E-08	3.09E-08	2.23E-09	5.67E-08
4930	564894.5	4222482	1.7E-06	2.07E-06	1.09E-07	3.88E-06	8.99E-07	2.27E-06	1.09E-07	3.28E-06	2.23E-07	4.04E-07	3.57E-08	6.63E-07	1.72E-07	2.25E-07	1.63E-08	4.14E-07
4931	564814.4	4222490	1.37E-06	1.68E-06	8.85E-08	3.14E-06	7.29E-07	1.84E-06	8.85E-08	2.66E-06	1.80E-07	3.28E-07	2.89E-08	5.37E-07	1.40E-07	1.83E-07	1.32E-08	3.35E-07
4932	564794.4	4222489	1.32E-06	1.61E-06	8.47E-08	3.01E-06	6.98E-07	1.76E-06	8.47E-08	2.54E-06	1.73E-07	3.14E-07	2.77E-08	5.14E-07	1.34E-07	1.75E-07	1.26E-08	3.21E-07
4933	565206.9	4222702	7.53E-07	9.2E-07	4.85E-08	1.72E-06	3.99E-07	1.01E-06	4.85E-08	1.46E-06	9.89E-08	1.80E-07	1.59E-08	2.94E-07	7.65E-08	1.00E-07	7.23E-09	1.84E-07
4934	565204.7	4222740	6.07E-07	7.41E-07	3.91E-08	1.39E-06	3.22E-07	8.13E-07	3.91E-08	1.17E-06	7.97E-08	1.45E-07	1.28E-08	2.37E-07	6.17E-08	8.06E-08	5.83E-09	1.48E-07
4935	565075.1	4222576	1.64E-06	2.01E-06	1.06E-07	3.75E-06

4948	565279	4222842	3.88E-07	4.73E-07	2.50E-08	8.86E-07	2.06E-07	5.19E-07	2.50E-08	7.50E-07	5.09E-08	9.25E-08	8.16E-09	1.52E-07	3.94E-08	5.15E-08	3.72E-09	9.46E-08
4949	565105.3	4222769	5.39E-07	6.58E-07	3.47E-08	1.23E-06	2.86E-07	7.22E-07	3.47E-08	1.04E-06	7.08E-08	1.29E-07	1.14E-08	2.11E-07	5.48E-08	7.16E-08	5.18E-09	1.32E-07
4950	565073.6	4222742	6.22E-07	7.59E-07	4.00E-08	1.42E-06	3.30E-07	8.32E-07	4.00E-08	1.20E-06	8.16E-08	1.48E-07	1.31E-08	2.43E-07	6.32E-08	8.26E-08	5.97E-09	1.52E-07
4951	565053.1	4222692	8.14E-07	9.94E-07	5.24E-08	1.86E-06	4.31E-07	1.09E-06	5.24E-08	1.57E-06	1.07E-07	1.94E-07	1.71E-08	3.18E-07	8.27E-08	1.08E-07	7.82E-09	1.99E-07
4952	564977.8	4222509	1.89E-06	2.31E-06	1.22E-07	4.32E-06	1.00E-06	2.53E-06	1.22E-07	3.65E-06	2.48E-07	4.51E-07	3.98E-08	7.38E-07	1.92E-07	2.51E-07	1.81E-08	4.61E-07
4953	565252.3	4222850	3.74E-07	4.57E-07	2.41E-08	8.55E-07	1.98E-07	5.01E-07	2.41E-08	7.23E-07	4.91E-08	8.92E-08	7.87E-09	1.46E-07	3.80E-08	4.97E-08	3.59E-09	9.12E-08
4954	565243.8	4222847	3.79E-07	4.63E-07	2.44E-08	8.66E-07	2.01E-07	5.07E-07	2.44E-08	7.32E-07	4.97E-08	9.04E-08	7.98E-09	1.48E-07	3.85E-08	5.03E-08	3.64E-09	9.24E-08
4955	565235.4	4222843	3.84E-07	4.69E-07	2.47E-08	8.77E-07	2.03E-07	5.14E-07	2.47E-08	7.42E-07	5.04E-08	9.16E-08	8.08E-09	1.50E-07	3.90E-08	5.10E-08	3.69E-09	9.37E-08
4956	565117	4222794	4.78E-07	5.84E-07	3.08E-08	1.09E-06	2.54E-07	6.40E-07	3.08E-08	9.25E-07	6.28E-08	1.14E-07	1.01E-08	1.87E-07	4.86E-08	6.35E-08	4.59E-09	1.17E-07
4957	565108.5	4222790	4.87E-07	5.95E-07	3.13E-08	1.11E-06	2.58E-07	6.52E-07	3.13E-08	9.41E-07	6.39E-08	1.16E-07	1.03E-08	1.90E-07	4.95E-08	6.47E-08	4.68E-09	1.19E-07
4958	565100.1	4222787	4.96E-07	6.06E-07	3.19E-08	1.13E-06	2.63E-07	6.64E-07	3.19E-08	9.59E-07	6.51E-08	1.18E-07	1.04E-08	1.94E-07	5.04E-08	6.59E-08	4.76E-09	1.21E-07
4959	565027.8	4222679	8.67E-07	1.06E-06	5.58E-08	1.98E-06	4.60E-07	1.16E-06	5.58E-08	1.68E-06	1.14E-07	2.07E-07	1.83E-08	3.39E-07	8.81E-08	1.15E-07	8.33E-09	2.12E-07
4960	565020.8	4222662	9.48E-07	1.16E-06	6.10E-08	2.17E-06	5.03E-07	1.27E-06	6.10E-08	1.83E-06	1.25E-07	2.26E-07	2.00E-08	3.71E-07	9.64E-08	1.26E-07	9.11E-09	2.31E-07
4961	564968.4	4222535	1.66E-06	2.03E-06	1.07E-07	3.80E-06	8.81E-07	2.22E-06	1.07E-07	3.21E-06	2.18E-07	3.96E-07	3.50E-08	6.50E-07	1.69E-07	2.21E-07	1.60E-08	4.06E-07
4962	565244.6	4222867	3.51E-07	4.29E-07	2.26E-08	8.03E-07	1.86E-07	4.71E-07	2.26E-08	6.79E-07	4.62E-08	8.38E-08	7.40E-09	1.37E-07	3.57E-08	4.67E-08	3.38E-09	8.58E-08
4963	565236.2	4222864	3.56E-07	4.35E-07	2.29E-08	8.13E-07	1.89E-07	4.76E-07	2.29E-08	6.88E-07	4.67E-08	8.49E-08	7.49E-09	1.39E-07	3.62E-08	4.73E-08	3.42E-09	8.68E-08
4964	565020.9	4222711	7.31E-07	8.92E-07	4.70E-08	1.67E-06	3.87E-07	9.78E-07	4.70E-08	1.41E-06	9.60E-08	1.74E-07	1.54E-08	2.86E-07	7.43E-08	9.71E-08	7.02E-09	1.78E-07
4965	565014	4222694	7.97E-07	9.73E-07	5.13E-08	1.82E-06	4.22E-07	1.07E-06	5.13E-08	1.54E-06	1.05E-07	1.90E-07	1.68E-08	3.12E-07	8.10E-08	1.06E-07	7.66E-09	1.94E-07
4966	565007.1	4222677	8.68E-07	1.06E-06	5.59E-08	1.98E-06	4.60E-07	1.16E-06	5.59E-08	1.68E-06	1.14E-07	2.07E-07	1.83E-08	3.40E-07	8.82E-08	1.15E-07	8.34E-09	2.12E-07
4967	564958.6	4222560	1.46E-06	1.79E-06	9.43E-08	3.35E-06	7.76E-07	1.96E-06	9.43E-08	2.83E-06	1.92E-07	3.49E-07	3.08E-08	5.73E-07	1.49E-07	1.95E-07	1.41E-08	3.57E-07
4968	564951.7	4222543	1.55E-06	1.9E-06	9.99E-08	3.55E-06	8.23E-07	2.08E-06	9.99E-08	3.00E-06	2.04E-07	3.70E-07	3.27E-08	6.07E-07	1.58E-07	2.06E-07	1.49E-08	3.79E-07
4969	565245.3	4222888	3.27E-07	4E-07	2.11E-08	7.48E-07	1.74E-07	4.38E-07	2.11E-08	6.33E-07	4.30E-08	7.81E-08	6.89E-09	1.28E-07	3.33E-08	4.35E-08	3.14E-09	7.99E-08
4970	565237	4222884	3.31E-07	4.04E-07	2.13E-08	7.57E-07	1.76E-07	4.43E-07	2.13E-08	6.40E-07	4.35E-08	7.90E-08	6.97E-09	1.29E-07	3.36E-08	4.40E-08	3.18E-09	8.08E-08
4971	565228.7	4222881	3.35E-07	4.09E-07	2.16E-08	7.66E-07	1.78E-07	4.49E-07	2.16E-08	6.48E-07	4.40E-08	7.99E-08	7.06E-09	1.31E-07	3.41E-08	4.45E-08	3.22E-09	8.18E-08
4972	565095.9	4222825	4.19E-07	5.12E-07	2.70E-08	9.59E-07	2.22E-07	5.62E-07	2.70E-08	8.11E-07	5.51E-08	1.00E-07	8.83E-09	1.64E-07	4.26E-08	5.57E-08	4.03E-09	1.02E-07
4973	564996.7	4222701	7.66E-07	9.36E-07	4.93E-08	1.75E-06	4.06E-07	1.03E-06	4.93E-08	1.48E-06	1.01E-07	1.83E-07	1.61E-08	3.00E-07	7.79E-08	1.02E-07	7.36E-09	1.87E-07
4974	564938.4	4222559	1.41E-06	1.73E-06	9.11E-08	3.23E-06	7.50E-07	1.89E-06	9.11E-08	2.74E-06	1.86E-07	3.38E-07	2.98E-08	5.53E-07	1.44E-07	1.88E-07	1.36E-08	3.45E-07
4975	564931.5	4222543	1.49E-06	1.82E-06	9.61E-08	3.41E-06	7.91E-07	2.00E-06	9.61E-08	2.89E-06	1.96E-07	3.56E-07	3.14E-08	5.84E-07	1.52E-07	1.98E-07	1.43E-08	3.64E-07
4976	565235	4222903	3.1E-07	3.79E-07	2.00E-08	7.09E-07	1.65E-07	4.15E-07	2.00E-08	6.00E-07	4.07E-08	7.40E-08	6.53E-09	1.21E-07	3.15E-08	4.12E-08	2.98E-09	7.57E-08
4977	565226.5	4222900	3.14E-07	3.83E-07	2.02E-08	7.17E-07	1.66E-07	4.20E-07	2.02E-08	6.07E-07	4.12E-08	7.49E-08	6.61E-09	1.23E-07	3.19E-08	4.17E-08	3.02E-09	7.66E-08
4978	565218.1	4222896	3.18E-07	3.88E-07	2.04E-08	7.26E-07	1.68E-07	4.25E-07	2.04E-08	6.14E-07	4.17E-08	7.58E-08	6.69E-09	1.24E-07	3.23E-08	4.22E-08	3.05E-09	7.75E-08
4979	565099.7	4222847	3.84E-07	4.69E-07	2.47E-08	8.78E-07	2.04E-07	5.14E-07	2.47E-08	7.43E-07	5.04E-08	9.16E-08	8.09E-09	1.50E-07	3.90E-08	5.10E-08	3.69E-09	9.38E-08
4980	564988.7	4222730	6.61E-07	8.07E-07	4.25E-08	1.51E-06	3.50E-07	8.85E-07	4.25E-08	1.28E-06	8.68E-08	1.58E-07	1.39E-08	2.58E-07	6.72E-08	8.78E-08	6.35E-09	1.61E-07
4981	564978.2	4222704	7.48E-07	9.13E-07	4.81E-08	1.71E-06	3.96E-07	1.00E-06	4.81E-08	1.45E-06	9.82E-08	1.78E-07	1.57E-08	2.92E-07	7.60E-08	9.93E-08	7.18E-09	1.83E-07
4982	564974.7	4222696	7.79E-07	9.51E-07	5.01E-08	1.78E-06	4.13E-07	1.04E-06	5.01E-08	1.51E-06	1.02E-07	1.86E-07	1.64E-08	3.05E-07	7.92E-08	1.03E-07	7.48E-09	1.90E-07
4983	564918.8	4222560	1.36E-06	1.66E-06	8.75E-08	3.11E-06	7.21E-07	1.82E-06	8.75E-08	2.63E-06	1.79E-07	3.24E-07	2.86E-08	5.32E-07	1.38E-07	1.81E-07	1.31E-08	3.32E-07
4984	565235.7	4222924	2.9E-07	3.55E-07	1.87E-08	6.64E-07	1.54E-07	3.89E-07	1.87E-08	5.62E-07	3.81E-08	6.93E-08	6.12E-09	1.14E-07	2.95E-08	3.86E-08	2.79E-09	7.09E-08
4985	565227.4	4222920	2.94E-07	3.59E-07	1.89E-08	6.71E-07	1.56E-07	3.93E-07	1.89E-08	5.68E-07	3.86E-08	7.01E-08	6.18E-09	1.15E-07	2.98E-08	3.90E-08	2.82E-09	7.17E-08
4986	565219	4222917	2.97E-07	3.63E-07	1.91E-08	6.79E-07	1.57E-07	3.98E-07	1.91E-08	5.74E-07	3.90E-08	7.08E-08	6.25E-09	1.16E-07	3.02E-08	3.94E-08	2.85E-09	7.25E-08
4987	565084.9	4222860	3.65E-07	4.46E-07	2.35E-08	8.35E-07	1.94E-07	4.89E-07	2.35E-08	7.06E-07	4.80E-08	8.71E-08	7.69E-09	1.43E-07	3.71E-08	4.85E-08	3.51E-09	8.91E-08
4988	564964.4	4222719	6.92E-07	8.45E-07	4.46E-08	1.58E-06	3.67E-07	9.27E-07	4.46E-08	1.34E-06	9.09E-08	1.65E-07	1.46E-08	2.71E-07	7.03E-08	9.20E-08	6.65E-09	1.69E-07
4989	564961	4222711	7.2E-07	8.79E-07	4.63E-08	1.65E-06	3.82E-07	9.64E-07	4.63E-08	1.39E-06	9.46E-08	1.72E-07	1.52E-08	2.82E-07	7.32E-08	9.56E-08	6.92E-09	1.76E-07
4990	564905.6	4222577	1.25E-06	1.52E-06	8.03E-08	2.85E-06	6.61E-07	1.67E-06	8.03E-08	2.41E-06	1.64E-07	2.97E-07	2.63E-08	4.87E-07	1.27E-07	1.66E-07	1.20E-08	3.04E-07
4991	564991.9	4222834	4.12E-07	5.03E-07	2.65E-08	9.41E-07	2.18E-07	5.51E-07	2.65E-08	7.96E-07	5.41E-08	9.82E-08	8.67E-09	1.61E-07	4.18E-08	5.47E-08	3.95E-09	1.00E-07
4992	564947.2	4222726	6.68E-07	8.16E-07	4.30E-08	1.53E-06	3.54E-07	8.94E-07	4.30E-08	1.29E-06	8.77E-08	1.59E-07	1.41E-08	2.61E-07	6.79E-08	8.87E-08	6.42E-09	1.63E-07
4993	564943.7	4222718	6.94E-07	8.47E-07	4.46E-08	1.59E-06	3.68E-07	9.29E-07	4.46E-08	1.34E-06	9.11E-08	1.66E-07	1.46E-08	2.71E-07	7.05E-08	9.22E-08	6.66E-09	1.69E-07
4994	564885.3	4222576	1.21E-06	1.48E-06	7.78E-08	2.76E-06	6.41E-07	1.62E-06	7.78E-08	2.34E-06	1.59E-07	2.88E-07	2.54E-08	4.72E-07	1.23E-07	1.60E-07	1.16E-08	2.95E-07
4995	564977.6	4222848	3.9E-07	4.76E-07	2.51E-08	8.92E-07	2.07E-07	5.22E-07	2.51E-08	7.54E-07	5.12E-08	9.31E-08	8.21E-09	1.52E-07	3.96E-08	5.18E-08	3.75E-09	9.52E-08
4996	564932.2	4222738	6.29E-07	7.68E-07	4.05E-08	1.44E-06	3.34E-07	8.42E-07	4.05E-08	1.22E-06	8.26E-08	1.50E-07	1.33E-08	2.46E-07	6.39E-08	8.36E-08	6.04E-09	1.54E-07
4997	564925.2	4222721	6.78E-07	8.28E-07	4.36E-08	1.55E-06	3.60E-07	9.08E-07	4.36E-08	1.31E-06	8.91E-08	1.62E-07	1.43E-08	2.65E-07	6.89E-08	9.01E-08	6.52E-09	1.66E-07
4998	564872.8	4222594	1.11E-06	1.35E-06	7.12E-08	2.53E-06	5.87E-07	1.48E-06	7.12E-08	2.14E-06	1.45E-07	2.64E-07	2.33E-08	4.33E-07	1.12E-07	1.47E-07	1.06E-08	2.70E-07
4999	565201.7	4222970	2.52E-07	3.08E-07	1.62E-08	5.77E-07	1.34E-07	3.38E-07	1.62E-08	4.88E-07	3.31E-08	6.02E-08	5.31E-09	9.87E-08	2.56E-08	3.35E-08	2.42E-09	6.16E-08
5000	565193.3	4222966	2.55E-07	3.11E-07	1.64E-08	5.83E-07	1.35E-07	3.41E-07	1.64E-08	4.93E-07	3.35E-08	6.08E-08	5.37E-09	9.97E-08	2.59E-08	3.39E-08	2.45E-09	6.22E-08
5001	565176.6	4222959	2.61E-07	3.18E-07	1.68E-08	5.95E-07	1.38E-07	3.49E-07	1.68E-08	5.04E-07	3.42E-08	6.22E-08	5.49E-09	1.02E-07	2.65E-08	3.46E-08	2.50E-09	6.36E-08
5002	565168.2	4222956	2.63E-07	3.22E-07	1.70E-08	6.02E-07	1.40E-07	3.53E-07	1.70E-08	5.09E-07	3.46E-08	6.28E-08	5.55E-09	1.03E-07	2.68E-08	3.50E-08	2.53E-09	6.43E-08
5003	565159.8	4222952	2.66E-07	3.25E-07	1.71E-08	6.09E-07	1.41E-07	3.57E-07	1.71E-08	5.15E-07	3.50E-08	6.35E-08	5.61E-09	1.04E-07	2.71E-08	3.54E-08	2.56E-09	6.50E-08
5004	564914.9	4222745	6.08E-07	7.43E-07	3.92E-08	1.39E-06	3.23E-07	8.15E-07	3.92E-08	1.18E-06	7.99E-08	1.45E-07	1.28E-08	2.38E-07	6.18E-08	8.08E-08	5.85E-09	1.49E-07
5005	564911.4	4222736	6.31E-07	7.71E-07	4.06E-08	1.44E-06	3.35E-07	8.45E-07	4.06E-08	1.22E-06	8.29E-08	1.51E-07	1.33E-08	2.47E-07	6.41E-08	8.38E-08	6.06E-09	1.54E-07
5006	564856	4222602	1.05E-06	1.28E-06	6.75E-08	2.40E-06	5.56E-07	1.40E-06	6.75E-08	2.03E-06	1.38E-07	2.50E-07	2.21E-08	4.10E-07	1.07E-07	1.39E-07	1.01E-08	2.56E-07
5007	564849	4222585	1.1E-06	1.35E-06	7.09E-08	2.52E-06	5.84E-07	1.48E-06	7.09E-08	2.13E-06	1.45E-07	2.63E-07	2.32E-08	4.31E-07	1.12E-07	1.46E-07	1.06E-08	2.69E-07
5008	565157	4222971	2.52E-07	3.08E-07	1.62E-08	5.76E-07	1.34E-07	3.37E-07	1.62E-08	4.87E-07	3.31E-08	6.01E-08	5.30E-09	9.84E-08	2.56E-08	3.35E-08	2.42E-09	6.15E-08
5009	565148.5	4222967	2.55E-07	3.11E-07	1.64E-08	5.82E-07	1.35E-07	3.41E-07	1.64E-08	4.92E-07	3.34E-08	6.07E-08	5.36E-09	9.95E-08	2.59E-08	3.38E-08	2.45E-09	6.21E-08
5010	564986.8	4222899	3.21E-07	3.93E-07	2.07E-08	7.35E-07	1.70E-07	4.30E-07	2.07E-08	6.21E-07	4.22E-08	7.67E-08	6.77E-09	1.26E-07	3.27E-08	4.27E-08	3.09E-09	7.85E-08
5011	564978.3	4222896	3.26E-07	3.98E-07	2.10E-08	7.45E-07	1.73E-07	4.36E-07	2.10E-08	6.30E-07	4.28E-08	7.78E-08	6.87E-09	1.27E-07	3.31E-08	4.33E-08	3.13E-09	7.96E-08
5012	564961.2	4222889	3.36E-07	4.1E-07	2.16E-08	7.67E-07	1.78E-07	4.49E-07	2.16E-08	6.49E-07	4.41E-08	8.01E-08	7.07E-09	1.31E-07	3.41E-08	4.46E-08	3.22E-09	8.19E-08
5013	564899.9	4222757	5.75E-07	7.02E-07	3.70E-08	1.31E-06	3.05E-07	7.70E-07	3.70E-08	1.11E-06	7.55E-08	1.37E-07	1.21E-08	2.25E-07	5.84E-08	7.64E-08	5.52E-09	1.40E-07
5014	564896.4	4222749	5.96E-07	7.28E-07	3.84E-08	1.36E-06	3.16E-07	7.98E-07	3.84E-08	1.15E-06	7.83E-08	1.42E-07	1.26E-08	2.33E-07	6.06E-08	7.92E-08	5.73E-09	1.45E-07
5015	564892.9	4222740	6.18E-07	7.55E-07	3.98E-08	1.41E-06	3.28E-07	8.27E-07	3.98E-08	1.19E-06	8.11E-08	1.47E-07	1.30E-08	2.42E-07	6.28E-08	8.21E-08	5.94E-09	1.51E-07
5016	564840.1	4222612	9.89E-07	1.21E-06	6.37E-08	2.26E-06	5.24E-07	1.32E-06	6.37E-08	1.91E-06	1.30E-07	2.36E-07	2.08E-08	3.87E-07	1.01E-07	1.31E-07	9.50E-09	2.41E-07
5017	564836.6	4222603	1.01E-06	1.24E-06	6.53E-08	2.32E-06	5.38E-07	1.36E-06	6.53E-08	1.96E-06	1.33E-07	2.42E-07	2.14E-08	3.97E-07	1.03E-07	1.35E-07	9.75E-09	2.48E-07
5018	565335.8	4223046	2.13E-07	2.6E-07	1.37E-08	4.87E-07	1.13E-07	2.85E-07	1.37E-08	4.12E-07	2.80E-08	5.08E-08	4.49E-09	8.33E-08	2.17E-08	2.83E-08	2.05E-09	5.20E-08
5019	565327.2	4223062	2.04E-07	2.49E-07	1.31E-08	4.65E-07	1.08E-07	2.73E-07	1.31E-08	3.94E-07	2.67E-08	4.86E-08	4.29E-09	7.96E-08	2.07E-08	2.70E-08	1.96E-09	4.97E-08
5020	565158.2	4222991	2.37E-07	2.9E-07	1.53E-08	5.42E-07	1.26E-07	3.18E-07	1.53E-08	4.59E-07	3.12E-08	5.66E-08	5.00E-09	9.28E-08	2.41E-08	3.15E-08	2.28E-09	5.79E-08
5021	565149.8	4222988	2.4E-07	2.93E-07	1.54E-08	5.48E-07	1.27E-07	3.21E-07	1.54E-08	4.64E-07	3.15E-08	5.72E-08	5.05E-09	9.38E-08	2.44E-08	3.19E-08	2.30E-09	5.85E-08
5022	565141.3	4222984	2.42E-07	2.96E-07	1.56E-08	5.54E-07	1.29E-07	3.25E-07	1.56E-08	4.69E-07	3.18E-08	5.78E-08	5.10E-09	9.48E-08	2.46E-08	3.22E-08	2.33E-09	5.92E-08
5023	564963.9	4222910	3.11E-07	3.8E-07	2.00E-08	7.11E-07	1.65E-07	4.16E-07	2.00E-08	6.01E-07	4.08E-08	7.42E-08	6.55E-09	1.22E-07	3.16E-08	4.13E-08	2.99E-09	7.59E-08
5024	564955.4	4222906	3.15E-07	3.85E-07	2.03E-08	7.21E-07	1.67E-07	4.22E-07	2.03E-08	6.10E-07	4.14E-08	7.52E-08	6.64E-09	1.23E-07	3.20E-08	4.19E-08	3.03E-09	7.70E-08
5025	564947	4222903	3.2E-07	3.91E-07	2.06E-08	7.31E-07	1.70E-07	4.28E-07	2.06E-08	6.18E-07	4.20E-08	7.63E-08	6.73E-09	1.25E-07	3.25E-08	4.25E-08	3.07E-09	7.80E-08
5026	564882.7	4222764	5.57E-07	6.8E-07	3.59E-08	1.27E-06	2.95E-07	7.46E-07	3.59E-08	1.08E-06	7.32E-08	1.33E-07	1.17E-08	2.18E-07	5.66E-08	7.40E-08	5.35E-09	1.36E-07
5027	564879.2	4222755	5.77E-07	7.05E-07	3.71E-08	1.32E-06	3.06E-07	7.72E-07	3.71E-08	1.12E-06	7.58E-08	1.38E-07	1.21E-08	2.26E-07	5.86E-08	7.66E-08	5.54E-09	1.41E-07
5028	564823.3	4222620	9.41E-07	1.15E-06	6.06E-08	2.15E-06	4.99E-07	1.26E-06	6.06E-08	1.82E-06	1.24E-07	2.25E-07	1.98E-08	3.68E-07	9.56E-08	1.25E-07	9.04E-09	2.30E-07
5029	564816.3	4222603	9.87E-07	1.21E-06	6.35E-08	2.26E-06	5.23E-07	1.32E-06	6.35E-08	1.91E-06	1.30E-07	2.36E-07	2.08E-08	3.86E-07	1.00E-07	1.31E-07	9.49E-09	2.41E-07
5030	565335.6	4223066	2.03E-07	2.48E-07	1.31E-08	4.63E-07	1.08E-07	2.71E-07	1.31E-08	3.92E-07	2.66E-08	4.84E-08	4.27E-09	7.93E-08	2.06E-08	2.69E-08	1.95E-09	4.95E-08
5031	565327.1	4223082	1.94E-07	2.37E-07	1.25E-08	4.43E-07	1.03E-07	2.60E-07	1.25E-08	3.75E-07	2.55E-08	4.63E-08	4.09E-09	7.58E-08	1.97E-08	2.58E-08	1.86E-09	4.73E-08
5032	565318.7	4223079	1.95E-07	2.38E-07	1.25E-08	4.45E-07	1.03E-07	2.61E-07	1.25E-08	3.76E-07	2.56E-08	4.65E-08	4.10E-09	7.61E-08	1.98E-08	2.59E-08	1.87E-09	4.75E-08
5033	565310.3	4223075	1.96E-07	2.39E-07	1.26E-08	4.47E-07	1.04E-07	2.62E-07	1.26E-08	3.78E-07	2.57E-08	4.67E-08	4.12E-09	7.65E-08	1.99E-08	2.60E-08	1.88E-09	4.77E-08
5034	565285.2	4223065	1.98E-07	2.42E-07	1.28E-08	4.54E-07	1.05E-07	2.66E-07	1.28E-08	3.84E-07	2.61E-08	4.74E-08	4.18E-09	7.76E-08	2.02E-08	2.64E-08	1.91E-09	4.84E-08
5035	565276.8	4223061	2E-07	2.44E-07	1.28E-08	4.56E-07	1.06E-07	2.67E-07	1.28E-08	3.86E-07	2.62E-08	4.76E-08	4.20E-09	7.80E-08	2.03E-08	2.65E-08	1.92E-09	4.87E-08
5036	565268.4	4223058	2.01E-07	2.45E-07	1.29E-08	4.59E-07	1.06E-07	2.69E-07	1.29E-08	3.88E-07	2.64E-08	4.79E-08	4.23E-09	7.85E-08	2.04E-08	2.67E-08	1.93E-09	4.90E-08
5037	565260	4223054	2.02E-07	2.47E-07	1.30E-08	4.62E-07	1.07E-07	2.71E-07	1.30E-08	3.91E-07	2.66E-08	4.82E-08	4.26E-09	7.90E-08	2.05E-08	2.69E-08	1.94E-09	4.93E-08
5038	565251.6	4223051	2.04E-07	2.49E-07	1.31E-08	4.65E-07	1.08E-07	2.73E-07	1.31E-08	3.94E-07	2.67E-08	4.86E-08	4.29E-09	7.96E-08	2.07E-08	2.70E-08	1.96E-09	4.97E-08
5039	565243.2	4223047	2.05E-07	2.5E-07	1.32E-08	4.69E-07	1.09E-07	2.75E-07	1.32E-08	3.97E-07	2.69E-08	4.89E-08	4.32E-09	8.02E-08	2.08E-08	2.72E-08	1.97E-09	5.01E-08
5040	565234.8	4223044	2.07E-07	2.52E-07	1.33E-08	4.72E-07	1.10E-07	2.77E-07	1.33E-08	4.00E-07	2.71E-08	4.93E-08	4.35E-09	8.08E-08	2.10E-08	2.75E-08	1.99E-09	5.04E-08
5041	565226.4	4223040	2.08E-07	2.54E-07	1.34E-08	4.76E-07	1.10E-07	2.79E-07	1.34E-08	4.03E-07	2.74E-08	4.97E-08	4.39E-09	8.14E-08	2.12E-08	2.77E-08	2.00E-09	5.08E-08
5042	565218	4223037	2.1E-07	2.57E-07	1.35E-08	4.80E-07	1.11E-07	2.81E-07	1.35E-08	4.06E-07	2.76E-08	5.01E-08	4.42E-09	8.21E-08	2.13E-08	2.79E-08	2.02E-09	5.13E-08
5043	565209.6	4223033	2.12E-07	2.59E-07	1.36E-08	4.84E-07	1.12E-07	2.84E-07	1.36E-08	4.10E-07	2.78E-08	5.05E-08	4.46E-09	8.28E-08	2.15E-08	2.81E-08	2.04E-09	5.17E-08
5044	564966.3	4222931	2.89E-07	3.53E-07	1.86E-08	6.61E-07	1.53E-07	3.87E-07	1.86E-08	5.59E-07	3.80E-08	6.90E-08	6.09E-09	1.13E-07	2.94E-08	3.84E-08	2.78E-09	7.06E-08
5045	564957.9	4222927	2.93E-07	3.58E-07	1.89E-08	6.70E-07	1.

5058	565182.3	4223042	2.07E-07	2.53E-07	1.33E-08	4.73E-07	1.10E-07	2.77E-07	1.33E-08	4.00E-07	2.72E-08	4.94E-08	4.36E-09	8.10E-08	2.10E-08	2.75E-08	1.99E-09	5.05E-08
5059	565173.8	4223038	2.09E-07	2.55E-07	1.35E-08	4.78E-07	1.11E-07	2.80E-07	1.35E-08	4.04E-07	2.74E-08	4.99E-08	4.40E-09	8.17E-08	2.12E-08	2.78E-08	2.01E-09	5.10E-08
5060	565165.3	4223035	2.11E-07	2.58E-07	1.36E-08	4.82E-07	1.12E-07	2.83E-07	1.36E-08	4.08E-07	2.77E-08	5.03E-08	4.44E-09	8.25E-08	2.14E-08	2.80E-08	2.03E-09	5.15E-08
5061	565156.8	4223031	2.13E-07	2.6E-07	1.37E-08	4.87E-07	1.13E-07	2.85E-07	1.37E-08	4.12E-07	2.80E-08	5.08E-08	4.49E-09	8.33E-08	2.17E-08	2.83E-08	2.05E-09	5.20E-08
5062	565148.3	4223027	2.15E-07	2.63E-07	1.39E-08	4.92E-07	1.14E-07	2.88E-07	1.39E-08	4.16E-07	2.83E-08	5.13E-08	4.53E-09	8.41E-08	2.19E-08	2.86E-08	2.07E-09	5.25E-08
5063	565139.8	4223024	2.17E-07	2.65E-07	1.40E-08	4.97E-07	1.15E-07	2.91E-07	1.40E-08	4.20E-07	2.85E-08	5.19E-08	4.58E-09	8.50E-08	2.21E-08	2.89E-08	2.09E-09	5.30E-08
5064	565131.3	4223020	2.2E-07	2.68E-07	1.41E-08	5.02E-07	1.16E-07	2.94E-07	1.41E-08	4.24E-07	2.88E-08	5.24E-08	4.62E-09	8.58E-08	2.23E-08	2.92E-08	2.11E-09	5.36E-08
5065	565122.8	4223017	2.22E-07	2.71E-07	1.43E-08	5.07E-07	1.18E-07	2.97E-07	1.43E-08	4.29E-07	2.91E-08	5.29E-08	4.67E-09	8.67E-08	2.25E-08	2.95E-08	2.13E-09	5.41E-08
5066	565114.3	4223013	2.24E-07	2.74E-07	1.44E-08	5.12E-07	1.19E-07	3.00E-07	1.44E-08	4.33E-07	2.94E-08	5.35E-08	4.72E-09	8.76E-08	2.28E-08	2.98E-08	2.15E-09	5.47E-08
5067	565097.2	4223006	2.29E-07	2.79E-07	1.47E-08	5.23E-07	1.21E-07	3.06E-07	1.47E-08	4.42E-07	3.00E-08	5.46E-08	4.82E-09	8.94E-08	2.32E-08	3.04E-08	2.20E-09	5.58E-08
5068	565088.7	4223002	2.31E-07	2.82E-07	1.49E-08	5.28E-07	1.23E-07	3.09E-07	1.49E-08	4.47E-07	3.03E-08	5.51E-08	4.87E-09	9.03E-08	2.35E-08	3.07E-08	2.22E-09	5.64E-08
5069	565080.2	4222999	2.33E-07	2.85E-07	1.50E-08	5.34E-07	1.24E-07	3.13E-07	1.50E-08	4.51E-07	3.07E-08	5.57E-08	4.92E-09	9.13E-08	2.37E-08	3.10E-08	2.24E-09	5.70E-08
5070	565071.7	4222995	2.36E-07	2.88E-07	1.52E-08	5.39E-07	1.25E-07	3.16E-07	1.52E-08	4.56E-07	3.10E-08	5.63E-08	4.97E-09	9.22E-08	2.40E-08	3.13E-08	2.27E-09	5.76E-08
5071	565063.2	4222992	2.38E-07	2.91E-07	1.53E-08	5.45E-07	1.26E-07	3.19E-07	1.53E-08	4.61E-07	3.13E-08	5.69E-08	5.02E-09	9.32E-08	2.42E-08	3.17E-08	2.29E-09	5.82E-08
5072	565054.7	4222988	2.41E-07	2.94E-07	1.55E-08	5.51E-07	1.28E-07	3.23E-07	1.55E-08	4.66E-07	3.16E-08	5.75E-08	5.07E-09	9.42E-08	2.45E-08	3.20E-08	2.31E-09	5.88E-08
5073	565020.7	4222974	2.52E-07	3.07E-07	1.62E-08	5.75E-07	1.33E-07	3.37E-07	1.62E-08	4.86E-07	3.30E-08	6.00E-08	5.30E-09	9.84E-08	2.56E-08	3.34E-08	2.42E-09	6.14E-08
5074	565012.2	4222970	2.54E-07	3.11E-07	1.64E-08	5.81E-07	1.35E-07	3.41E-07	1.64E-08	4.92E-07	3.34E-08	6.07E-08	5.36E-09	9.95E-08	2.59E-08	3.38E-08	2.44E-09	6.21E-08
5075	565003.7	4222967	2.57E-07	3.14E-07	1.66E-08	5.88E-07	1.36E-07	3.44E-07	1.66E-08	4.97E-07	3.38E-08	6.14E-08	5.42E-09	1.01E-07	2.61E-08	3.42E-08	2.47E-09	6.28E-08
5076	564995.2	4222963	2.6E-07	3.18E-07	1.68E-08	5.95E-07	1.38E-07	3.48E-07	1.68E-08	5.03E-07	3.42E-08	6.21E-08	5.48E-09	1.02E-07	2.65E-08	3.46E-08	2.50E-09	6.35E-08
5077	564986.7	4222960	2.63E-07	3.22E-07	1.70E-08	6.02E-07	1.40E-07	3.53E-07	1.70E-08	5.09E-07	3.46E-08	6.28E-08	5.55E-09	1.03E-07	2.68E-08	3.50E-08	2.53E-09	6.43E-08
5078	564978.2	4222956	2.67E-07	3.26E-07	1.72E-08	6.09E-07	1.41E-07	3.57E-07	1.72E-08	5.15E-07	3.50E-08	6.36E-08	5.61E-09	1.04E-07	2.71E-08	3.54E-08	2.56E-09	6.51E-08
5079	564969.7	4222952	2.7E-07	3.3E-07	1.74E-08	6.17E-07	1.43E-07	3.61E-07	1.74E-08	5.22E-07	3.54E-08	6.44E-08	5.68E-09	1.05E-07	2.74E-08	3.58E-08	2.59E-09	6.58E-08
5080	564961.2	4222949	2.73E-07	3.34E-07	1.76E-08	6.24E-07	1.45E-07	3.66E-07	1.76E-08	5.28E-07	3.59E-08	6.52E-08	5.75E-09	1.07E-07	2.78E-08	3.63E-08	2.62E-09	6.67E-08
5081	564952.7	4222945	2.77E-07	3.38E-07	1.78E-08	6.32E-07	1.47E-07	3.70E-07	1.78E-08	5.35E-07	3.63E-08	6.60E-08	5.83E-09	1.08E-07	2.81E-08	3.67E-08	2.66E-09	6.75E-08
5082	564927.2	4222934	2.88E-07	3.51E-07	1.85E-08	6.57E-07	1.52E-07	3.85E-07	1.85E-08	5.56E-07	3.78E-08	6.86E-08	6.06E-09	1.12E-07	2.92E-08	3.82E-08	2.76E-09	7.02E-08
5083	564918.7	4222931	2.91E-07	3.56E-07	1.88E-08	6.66E-07	1.55E-07	3.90E-07	1.88E-08	5.63E-07	3.83E-08	6.95E-08	6.14E-09	1.14E-07	2.96E-08	3.87E-08	2.80E-09	7.11E-08
5084	564906.6	4222919	3.04E-07	3.72E-07	1.96E-08	6.95E-07	1.61E-07	4.07E-07	1.96E-08	5.88E-07	4.00E-08	7.26E-08	6.41E-09	1.19E-07	3.09E-08	4.04E-08	2.92E-09	7.43E-08
5085	564903.1	4222910	3.14E-07	3.83E-07	2.02E-08	7.17E-07	1.66E-07	4.20E-07	2.02E-08	6.06E-07	4.12E-08	7.48E-08	6.60E-09	1.23E-07	3.19E-08	4.17E-08	3.01E-09	7.65E-08
5086	564899.6	4222902	3.23E-07	3.95E-07	2.08E-08	7.39E-07	1.71E-07	4.33E-07	2.08E-08	6.25E-07	4.25E-08	7.71E-08	6.81E-09	1.26E-07	3.29E-08	4.29E-08	3.11E-09	7.89E-08
5087	564896.1	4222893	3.33E-07	4.07E-07	2.15E-08	7.62E-07	1.77E-07	4.46E-07	2.15E-08	6.45E-07	4.38E-08	7.96E-08	7.02E-09	1.30E-07	3.39E-08	4.43E-08	3.20E-09	8.14E-08
5088	564892.6	4222885	3.44E-07	4.2E-07	2.22E-08	7.87E-07	1.82E-07	4.61E-07	2.22E-08	6.65E-07	4.52E-08	8.21E-08	7.25E-09	1.35E-07	3.50E-08	4.57E-08	3.31E-09	8.40E-08
5089	564889.1	4222876	3.55E-07	4.34E-07	2.29E-08	8.12E-07	1.88E-07	4.76E-07	2.29E-08	6.87E-07	4.67E-08	8.48E-08	7.48E-09	1.39E-07	3.61E-08	4.72E-08	3.41E-09	8.67E-08
5090	564885.5	4222868	3.67E-07	4.48E-07	2.36E-08	8.39E-07	1.95E-07	4.91E-07	2.36E-08	7.10E-07	4.82E-08	8.76E-08	7.73E-09	1.43E-07	3.73E-08	4.88E-08	3.53E-09	8.96E-08
5091	564882	4222859	3.79E-07	4.63E-07	2.44E-08	8.67E-07	2.01E-07	5.08E-07	2.44E-08	7.33E-07	4.98E-08	9.05E-08	7.99E-09	1.48E-07	3.85E-08	5.04E-08	3.64E-09	9.26E-08
5092	564878.5	4222851	3.92E-07	4.79E-07	2.52E-08	8.96E-07	2.08E-07	5.25E-07	2.52E-08	7.58E-07	5.15E-08	9.35E-08	8.25E-09	1.53E-07	3.98E-08	5.21E-08	3.77E-09	9.57E-08
5093	564875	4222842	4.05E-07	4.95E-07	2.61E-08	9.26E-07	2.15E-07	5.42E-07	2.61E-08	7.83E-07	5.32E-08	9.67E-08	8.53E-09	1.58E-07	4.12E-08	5.38E-08	3.89E-09	9.89E-08
5094	564871.5	4222834	4.19E-07	5.12E-07	2.70E-08	9.57E-07	2.22E-07	5.61E-07	2.70E-08	8.10E-07	5.50E-08	9.99E-08	8.82E-09	1.64E-07	4.26E-08	5.56E-08	4.02E-09	1.02E-07
5095	564868	4222825	4.33E-07	5.29E-07	2.79E-08	9.90E-07	2.30E-07	5.80E-07	2.79E-08	8.38E-07	5.69E-08	1.03E-07	9.12E-09	1.69E-07	4.40E-08	5.75E-08	4.16E-09	1.06E-07
5096	564864.5	4222816	4.48E-07	5.47E-07	2.88E-08	1.02E-06	2.38E-07	6.00E-07	2.88E-08	8.66E-07	5.88E-08	1.07E-07	9.44E-09	1.75E-07	4.55E-08	5.95E-08	4.30E-09	1.09E-07
5097	564860.9	4222808	4.63E-07	5.66E-07	2.98E-08	1.06E-06	2.46E-07	6.20E-07	2.98E-08	8.96E-07	6.09E-08	1.11E-07	9.76E-09	1.81E-07	4.71E-08	6.16E-08	4.45E-09	1.13E-07
5098	564857.4	4222799	4.79E-07	5.85E-07	3.08E-08	1.10E-06	2.54E-07	6.42E-07	3.08E-08	9.27E-07	6.29E-08	1.14E-07	1.01E-08	1.87E-07	4.87E-08	6.37E-08	4.60E-09	1.17E-07
5099	564853.9	4222791	4.96E-07	6.05E-07	3.19E-08	1.13E-06	2.63E-07	6.64E-07	3.19E-08	9.58E-07	6.51E-08	1.18E-07	1.04E-08	1.94E-07	5.04E-08	6.58E-08	4.76E-09	1.21E-07
5100	564850.4	4222782	5.13E-07	6.26E-07	3.30E-08	1.17E-06	2.72E-07	6.86E-07	3.30E-08	9.91E-07	6.73E-08	1.22E-07	1.08E-08	2.00E-07	5.21E-08	6.81E-08	4.92E-09	1.25E-07
5101	564846.9	4222774	5.3E-07	6.47E-07	3.41E-08	1.21E-06	2.81E-07	7.10E-07	3.41E-08	1.02E-06	6.96E-08	1.26E-07	1.12E-08	2.07E-07	5.39E-08	7.04E-08	5.09E-09	1.29E-07
5102	564843.4	4222765	5.48E-07	6.69E-07	3.53E-08	1.25E-06	2.90E-07	7.34E-07	3.53E-08	1.06E-06	7.19E-08	1.31E-07	1.15E-08	2.14E-07	5.57E-08	7.28E-08	5.26E-09	1.34E-07
5103	564839.8	4222757	5.66E-07	6.91E-07	3.64E-08	1.29E-06	3.00E-07	7.58E-07	3.64E-08	1.09E-06	7.43E-08	1.35E-07	1.19E-08	2.21E-07	5.75E-08	7.52E-08	5.44E-09	1.38E-07
5104	564836.3	4222748	5.85E-07	7.14E-07	3.76E-08	1.34E-06	3.10E-07	7.83E-07	3.76E-08	1.13E-06	7.68E-08	1.40E-07	1.23E-08	2.29E-07	5.94E-08	7.77E-08	5.62E-09	1.43E-07
5105	564832.8	4222740	6.04E-07	7.38E-07	3.89E-08	1.38E-06	3.20E-07	8.09E-07	3.89E-08	1.17E-06	7.93E-08	1.44E-07	1.27E-08	2.36E-07	6.14E-08	8.02E-08	5.80E-09	1.47E-07
5106	564822.3	4222714	6.63E-07	8.1E-07	4.27E-08	1.52E-06	3.52E-07	8.88E-07	4.27E-08	1.28E-06	8.71E-08	1.58E-07	1.40E-08	2.59E-07	6.74E-08	8.81E-08	6.37E-09	1.62E-07
5107	564797.7	4222654	8.08E-07	9.87E-07	5.20E-08	1.85E-06	4.28E-07	1.08E-06	5.20E-08	1.56E-06	1.06E-07	1.93E-07	1.70E-08	3.16E-07	8.21E-08	1.07E-07	7.76E-09	1.97E-07
5108	564794.1	4222646	8.29E-07	1.01E-06	5.33E-08	1.89E-06	4.39E-07	1.11E-06	5.33E-08	1.60E-06	1.09E-07	1.98E-07	1.75E-08	3.24E-07	8.42E-08	1.10E-07	7.96E-09	2.02E-07
5109	564790.6	4222637	8.49E-07	1.04E-06	5.47E-08	1.94E-06	4.50E-07	1.14E-06	5.47E-08	1.64E-06	1.12E-07	2.03E-07	1.79E-08	3.32E-07	8.63E-08	1.13E-07	8.16E-09	2.07E-07
5110	564783.6	4222620	8.9E-07	1.09E-06	5.73E-08	2.03E-06	4.72E-07	1.19E-06	5.73E-08	1.72E-06	1.17E-07	2.12E-07	1.87E-08	3.48E-07	9.04E-08	1.18E-07	8.55E-09	2.17E-07
5111	565335.4	4223106	1.84E-07	2.25E-07	1.19E-08	4.22E-07	9.78E-08	2.47E-07	1.19E-08	3.57E-07	2.42E-08	4.40E-08	3.88E-09	7.21E-08	1.87E-08	2.45E-08	1.77E-09	4.50E-08

			UnMitigated			T2			T2L3			T4		
			2.64E-02	3.49E-02	1.25E-02	1.40E-02	3.82E-02	1.25E-02	3.46E-03	6.81E-03	4.09E-03	2.68E-03	3.79E-03	1.86E-03
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	565529.2	4222707	1.54E-03	2.04E-03	7.31E-04	8.18E-04	2.24E-03	7.31E-04	2.03E-04	3.98E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
2	565533.8	4222716	1.47E-03	1.94E-03	6.95E-04	7.78E-04	2.13E-03	6.95E-04	1.93E-04	3.79E-04	2.28E-04	1.49E-04	2.11E-04	1.04E-04
3	565527.7	4222729	1.31E-03	1.73E-03	6.20E-04	6.94E-04	1.90E-03	6.20E-04	1.72E-04	3.38E-04	2.03E-04	1.33E-04	1.88E-04	9.26E-05
4	565538.4	4222725	1.40E-03	1.85E-03	6.63E-04	7.42E-04	2.03E-03	6.63E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.01E-04	9.90E-05
5	565532.3	4222737	1.25E-03	1.66E-03	5.94E-04	6.64E-04	1.82E-03	5.94E-04	1.65E-04	3.24E-04	1.94E-04	1.27E-04	1.80E-04	8.86E-05
6	565543	4222733	1.34E-03	1.77E-03	6.33E-04	7.09E-04	1.94E-03	6.33E-04	1.76E-04	3.45E-04	2.07E-04	1.36E-04	1.92E-04	9.45E-05
7	565536.7	4222746	1.20E-03	1.59E-03	5.68E-04	6.36E-04	1.74E-03	5.68E-04	1.57E-04	3.10E-04	1.86E-04	1.22E-04	1.72E-04	8.48E-05
8	565547.6	4222742	1.28E-03	1.69E-03	6.05E-04	6.77E-04	1.85E-03	6.05E-04	1.68E-04	3.30E-04	1.98E-04	1.30E-04	1.84E-04	9.03E-05
9	565541.4	4222755	1.15E-03	1.52E-03	5.45E-04	6.09E-04	1.67E-03	5.45E-04	1.51E-04	2.97E-04	1.78E-04	1.17E-04	1.65E-04	8.13E-05
10	565530.1	4222758	1.09E-03	1.44E-03	5.17E-04	5.78E-04	1.58E-03	5.17E-04	1.43E-04	2.82E-04	1.69E-04	1.11E-04	1.57E-04	7.71E-05
11	565552.2	4222751	1.22E-03	1.62E-03	5.79E-04	6.48E-04	1.77E-03	5.79E-04	1.61E-04	3.16E-04	1.89E-04	1.24E-04	1.76E-04	8.64E-05
12	565546	4222764	1.10E-03	1.46E-03	5.23E-04	5.85E-04	1.60E-03	5.23E-04	1.45E-04	2.85E-04	1.71E-04	1.12E-04	1.59E-04	7.80E-05
13	565534.8	4222766	1.05E-03	1.39E-03	4.97E-04	5.56E-04	1.52E-03	4.97E-04	1.38E-04	2.71E-04	1.63E-04	1.07E-04	1.51E-04	7.41E-05
14	565556.8	4222759	1.17E-03	1.55E-03	5.55E-04	6.21E-04	1.70E-03	5.55E-04	1.54E-04	3.03E-04	1.82E-04	1.19E-04	1.69E-04	8.28E-05
15	565550.7	4222772	1.06E-03	1.40E-03	5.02E-04	5.62E-04	1.54E-03	5.02E-04	1.39E-04	2.74E-04	1.64E-04	1.08E-04	1.53E-04	7.50E-05
16	565539.5	4222775	1.01E-03	1.33E-03	4.78E-04	5.35E-04	1.46E-03	4.78E-04	1.32E-04	2.61E-04	1.56E-04	1.03E-04	1.45E-04	7.14E-05
17	565528.4	4222778	9.61E-04	1.27E-03	4.55E-04	5.10E-04	1.39E-03	4.55E-04	1.26E-04	2.48E-04	1.49E-04	9.77E-05	1.38E-04	6.80E-05
18	565561.4	4222768	1.12E-03	1.49E-03	5.33E-04	5.96E-04	1.63E-03	5.33E-04	1.48E-04	2.91E-04	1.74E-04	1.14E-04	1.62E-04	7.95E-05
19	565560.1	4222790	9.82E-04	1.30E-03	4.65E-04	5.20E-04	1.42E-03	4.65E-04	1.29E-04	2.54E-04	1.52E-04	9.98E-05	1.41E-04	6.94E-05
20	565549.1	4222793	9.36E-04	1.24E-03	4.43E-04	4.96E-04	1.36E-03	4.43E-04	1.23E-04	2.42E-04	1.45E-04	9.51E-05	1.35E-04	6.62E-05
21	565538	4222795	8.94E-04	1.18E-03	4.24E-04	4.74E-04	1.30E-03	4.24E-04	1.17E-04	2.31E-04	1.39E-04	9.09E-05	1.29E-04	6.32E-05
22	565527	4222798	8.55E-04	1.13E-03	4.05E-04	4.53E-04	1.24E-03	4.05E-04	1.12E-04	2.21E-04	1.33E-04	8.69E-05	1.23E-04	6.05E-05
23	565558	4222810	8.68E-04	1.15E-03	4.11E-04	4.60E-04	1.26E-03	4.11E-04	1.14E-04	2.24E-04	1.35E-04	8.82E-05	1.25E-04	6.14E-05
24	565546.7	4222813	8.31E-04	1.10E-03	3.94E-04	4.40E-04	1.20E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.44E-05	1.19E-04	5.87E-05
25	565535.4	4222816	7.96E-04	1.05E-03	3.77E-04	4.22E-04	1.15E-03	3.77E-04	1.05E-04	2.06E-04	1.23E-04	8.09E-05	1.14E-04	5.63E-05
26	565578.8	4222825	7.54E-04	9.98E-04	3.57E-04	4.00E-04	1.09E-03	3.57E-04	9.91E-05	1.95E-04	1.17E-04	7.67E-05	1.09E-04	5.33E-05
27	565556.4	4222831	7.08E-04	9.37E-04	3.36E-04	3.76E-04	1.03E-03	3.36E-04	9.30E-05	1.83E-04	1.10E-04	7.20E-05	1.02E-04	5.01E-05
28	565545.2	4222833	7.46E-04	9.87E-04	3.54E-04	3.96E-04	1.08E-03	3.54E-04	9.80E-05	1.93E-04	1.16E-04	7.59E-05	1.07E-04	5.28E-05
29	565534	4222836	7.18E-04	9.49E-04	3.40E-04	3.81E-04	1.04E-03	3.40E-04	9.43E-05	1.85E-04	1.11E-04	7.30E-05	1.03E-04	5.08E-05
30	565589.6	4222821	7.88E-04	1.04E-03	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.58E-05
31	565588.2	4222843	6.95E-04	9.19E-04	3.29E-04	3.68E-04	1.01E-03	3.29E-04	9.12E-05	1.79E-04	1.08E-04	7.06E-05	9.99E-05	4.91E-05
32	565577.1	4222846	6.74E-04	8.91E-04	3.19E-04	3.57E-04	9.77E-04	3.19E-04	8.85E-05	1.74E-04	1.04E-04	6.85E-05	9.70E-05	4.77E-05
33	565554.9	4222851	6.41E-04	8.48E-04	3.04E-04	3.40E-04	9.29E-04	3.04E-04	8.42E-05	1.66E-04	9.93E-05	6.51E-05	9.22E-05	4.53E-05
34	565543.8	4222854	6.76E-04	8.94E-04	3.20E-04	3.58E-04	9.80E-04	3.20E-04	8.88E-05	1.75E-04	1.05E-04	6.87E-05	9.72E-05	4.78E-05
35	565532.7	4222857	6.52E-04	8.63E-04	3.09E-04	3.46E-04	9.46E-04	3.09E-04	8.57E-05	1.68E-04	1.01E-04	6.63E-05	9.38E-05	4.61E-05
36	565599	4222839	7.25E-04	9.59E-04	3.43E-04	3.84E-04	1.05E-03	3.43E-04	9.52E-05	1.87E-04	1.12E-04	7.37E-05	1.04E-04	5.13E-05
37	565597.5	4222861	6.42E-04	8.49E-04	3.04E-04	3.40E-04	9.31E-04	3.04E-04	8.43E-05	1.66E-04	9.95E-05	6.52E-05	9.23E-05	4.54E-05
38	565586.1	4222863	6.22E-04	8.22E-04	2.94E-04	3.30E-04	9.01E-04	2.94E-04	8.16E-05	1.61E-04	9.63E-05	6.32E-05	8.94E-05	4.40E-05
39	565574.8	4222866	6.05E-04	8.01E-04	2.87E-04	3.21E-04	8.78E-04	2.87E-04	7.95E-05	1.56E-04	9.39E-05	6.15E-05	8.71E-05	4.28E-05
40	565552.2	4222872	5.78E-04	7.65E-04	2.74E-04	3.07E-04	8.38E-04	2.74E-04	7.60E-05	1.49E-04	8.97E-05	5.88E-05	8.32E-05	4.09E-05
41	565540.8	4222874	5.66E-04	7.49E-04	2.68E-04	3.00E-04	8.21E-04	2.68E-04	7.43E-05	1.46E-04	8.78E-05	5.75E-05	8.14E-05	4.00E-05
42	565608.3	4222856	6.69E-04	8.85E-04	3.17E-04	3.55E-04	9.70E-04	3.17E-04	8.78E-05	1.73E-04	1.04E-04	6.80E-05	9.62E-05	4.73E-05
43	565606.9	4222878	5.96E-04	7.88E-04	2.82E-04	3.16E-04	8.63E-04	2.82E-04	7.82E-05	1.54E-04	9.23E-05	6.05E-05	8.57E-05	4.21E-05
44	565595.7	4222881	5.78E-04	7.64E-04	2.74E-04	3.06E-04	8.37E-04	2.74E-04	7.59E-05	1.49E-04	8.95E-05	5.87E-05	8.31E-05	4.08E-05
45	565584.4	4222884	5.61E-04	7.42E-04	2.66E-04	2.98E-04	8.14E-04	2.66E-04	7.37E-05	1.45E-04	8.70E-05	5.70E-05	8.07E-05	3.97E-05
46	565562	4222889	5.36E-04	7.08E-04	2.54E-04	2.84E-04	7.76E-04	2.54E-04	7.03E-05	1.38E-04	8.30E-05	5.44E-05	7.70E-05	3.79E-05
47	565550.8	4222892	5.24E-04	6.93E-04	2.48E-04	2.78E-04	7.60E-04	2.48E-04	6.88E-05	1.35E-04	8.13E-05	5.33E-05	7.54E-05	3.71E-05
48	565539.5	4222895	5.15E-04	6.82E-04	2.44E-04	2.73E-04	7.47E-04	2.44E-04	6.77E-05	1.33E-04	7.99E-05	5.24E-05	7.41E-05	3.65E-05
49	565617.7	4222874	6.21E-04	8.21E-04	2.94E-04	3.29E-04	9.00E-04	2.94E-04	8.15E-05	1.60E-04	9.62E-05	6.31E-05	8.93E-05	4.39E-05
50	565560.6	4222910	4.88E-04	6.45E-04	2.31E-04	2.59E-04	7.07E-04	2.31E-04	6.40E-05	1.26E-04	7.56E-05	4.96E-05	7.01E-05	3.45E-05
51	565549.5	4222912	4.79E-04	6.33E-04	2.27E-04	2.54E-04	6.94E-04	2.27E-04	6.29E-05	1.24E-04	7.42E-05	4.87E-05	6.89E-05	3.39E-05
52	565538.4	4222915	4.72E-04	6.24E-04	2.24E-04	2.50E-04	6.84E-04	2.24E-04	6.20E-05	1.22E-04	7.32E-05	4.80E-05	6.79E-05	3.34E-05
53	565627.1	4222892	5.57E-04	7.37E-04	2.64E-04	2.95E-04	8.08E-04	2.64E-04	7.32E-05	1.44E-04	8.64E-05	5.66E-05	8.02E-05	3.94E-05
54	565625.6	4222914	4.95E-04	6.54E-04	2.34E-04	2.62E-04	7.17E-04	2.34E-04	6.50E-05	1.28E-04	7.67E-05	5.03E-05	7.12E-05	3.50E-05
55	565602.9	4222919	4.85E-04	6.41E-04	2.30E-04	2.57E-04	7.03E-04	2.30E-04	6.37E-05	1.25E-04	7.51E-05	4.93E-05	6.97E-05	3.43E-05
56	565591.6	4222922	4.74E-04	6.26E-04	2.24E-04	2.51E-04	6.86E-04	2.24E-04	6.22E-05	1.22E-04	7.34E-05	4.81E-05	6.81E-05	3.35E-05
57	565580.2	4222925	4.64E-04	6.13E-04	2.20E-04	2.46E-04	6.72E-04	2.20E-04	6.09E-05	1.20E-04	7.19E-05	4.71E-05	6.67E-05	3.28E-05
58	565557.6	4222930	4.48E-04	5.92E-04	2.12E-04	2.37E-04	6.49E-04	2.12E-04	5.88E-05	1.16E-04	6.94E-05	4.55E-05	6.44E-05	3.16E-05
59	565546.2	4222933	4.40E-04	5.82E-04	2.08E-04	2.33E-04	6.38E-04	2.08E-04	5.78E-05	1.14E-04	6.82E-05	4.47E-05	6.33E-05	3.11E-05
60	565534.9	4222936	4.32E-04	5.71E-04	2.05E-04	2.29E-04	6.26E-04	2.05E-04	5.67E-05	1.12E-04	6.69E-05	4.39E-05	6.21E-05	3.05E-05
61	565636.5	4222909	5.17E-04	6.83E-04	2.45E-04	2.74E-04	7.49E-04	2.45E-04	6.78E-05	1.33E-04	8.01E-05	5.25E-05	7.43E-05	3.65E-05
62	565635	4222931	4.60E-04	6.09E-04	2.18E-04	2.44E-04	6.67E-04	2.18E-04	6.04E-05	1.19E-04	7.13E-05	4.68E-05	6.62E-05	3.25E-05
63	565623.8	4222934	4.45E-04	5.88E-04	2.11E-04	2.36E-04	6.45E-04	2.11E-04	5.84E-05	1.15E-04	6.90E-05	4.52E-05	6.40E-05	3.15E-05
64	565612.5	4222937	4.46E-04	5.90E-04	2.11E-04	2.37E-04	6.47E-04	2.11E-04	5.86E-05	1.15E-04	6.92E-05	4.53E-05	6.42E-05	3.16E-05
65	565601.3	4222940	4.38E-04	5.80E-04	2.08E-04	2.32E-04	6.36E-04	2.08E-04	5.76E-05	1.13E-04	6.80E-05	4.46E-05	6.31E-05	3.10E-05
66	565590	4222942	4.31E-04	5.70E-04	2.04E-04	2.29E-04	6.25E-04	2.04E-04	5.66E-05	1.11E-04	6.68E-05	4.38E-05	6.20E-05	3.05E-05
67	565578.8	4222945	4.24E-04	5.61E-04	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.58E-05	4.31E-05	6.10E-05	3.00E-05
68	565556.3	4222951	4.12E-04	5.45E-04	1.95E-04	2.19E-04	5.98E-04	1.95E-04	5.42E-05	1.07E-04	6.39E-05	4.19E-05	5.93E-05	2.92E-05
69	565545	4222953	4.07E-04	5.38E-04	1.93E-04	2.16E-04	5.90E-04	1.93E-04	5.35E-05	1.05E-04	6.31E-05	4.14E-05	5.86E-05	2.88E-05
70	565533.8	4222956	4.02E-04	5.32E-04	1.91E-04	2.13E-04	5.83E-04	1.91E-04	5.28E-05	1.04E-04	6.24E-05	4.09E-05	5.79E-05	2.85E-05
71	565645.8	4222927	4.79E-04	6.34E-04	2.27E-04	2.54E-04	6.95E-04	2.27E-04	6.29E-05	1.24E-04	7.43E-05	4.87E-05	6.89E-05	3.39E-05
72	565644.3	4222949	4.32E-04	5.71E-04	2.04E-04	2.29E-04	6.26E-04	2.04E-04	5.67E-05	1.12E-04	6.69E-05	4.39E-05	6.21E-05	3.05E-05
73	565632.9	4222952	4.18E-04	5.53E-04	1.98E-04	2.22E-04	6.06E-04	1.98E-04	5.49E-05	1.08E-04	6.48E-05	4.25E-05	6.02E-05	2.96E-05
74	565621.4	4222955	4.06E-04	5.37E-04	1.93E-04	2.15E-04	5.89E-04	1.93E-04	5.34E-05	1.05E-04	6.30E-05	4.13E-05	5.85E-05	2.87E-05
75	565610	4222957	4.10E-04	5.42E-04	1.94E-04	2.17E-04	5.94E-04	1.94E-04	5.38E-05	1.06E-04	6.35E-05	4.16E-05	5.89E-05	2.90E-05
76	565598.6	4222960	4.02E-04	5.32E-04	1.90E-04	2.13E-04	5.83E-04	1.90E-04	5.28E-05	1.04E-04	6.23E-05	4.09E-05	5.78E-05	2.84E-05
77	565587.1	4222963	3.95E-04	5.22E-04	1.87E-04	2.09E-04	5.72E-04	1.87E-04	5.19E-05	1.02E-04	6.12E-05	4.01E-05	5.68E-05	2.79E-05
78	565575.7	4222966	3.89E-04	5.15E-04	1.84E-04	2.06E-04	5.65E-04	1.84E-04	5.11E-05	1.01E-04	6.04E-05	3.96E-05	5.60E-05	2.75E-05
79	565552.8	4222971	3.82E-04	5.05E-04	1.81E-04	2.02E-04	5.54E-04	1.81E-04	5.02E-05	9.87E-05	5.92E-05	3.88E-05	5.49E-05	2.70E-05
80	565541.4	4222974	3.79E-04	5.02E-04	1.80E-04	2.01E-04	5.50E-04	1.80E-04	4.98E-05	9.80E-05	5.88E-05	3.86E-05	5.46E-05	2.68E-05
81	565530	4222977	3.77E-04	4.98E-04	1.78E-04	2.00E-04	5.46E-04	1.78E-04	4.95E-05	9.73E-05	5.84E-05	3.83E-05	5.42E-05	2.66E-05
82	565655.2	4222945	4.47E-04	5.91E-04	2.12E-04	2.37E-04	6.47E-04	2.12E-04	5.87E-05	1.15E-04	6.92E-05	4.54E-05	6.42E-05	3.16E-05
83	565642.4	4222969	3.96E-04	5.23E-04	1.87E-04	2.10E-04	5.74E-04	1.87E-04	5.20E-05	1.02E-04	6.13E-05	4.02E-05	5.69E-05	2.80E-05
84	565631	4222972	3.85E-04	5.10E-04	1.83E-04	2.04E-04	5.59E-04	1.83E-04	5.06E-05	9.95E-05	5.97E-05	3.92E-05	5.54E-05	2.72E-05
85	565619.7	4222975	3.76E-04	4.97E-04	1.78E-04	1.99E-04	5.45E-04	1.78E-04	4.94E-05	9.71E-05	5.83E-05	3.82E-05	5.41E-05	2.66E-05
86	565608.3	4222978	3.79E-04	5.01E-04	1.79E-04	2.01E-04	5.49E-04	1.79E-04	4.97E-05	9.78E-05	5.87E-05	3.85E-05	5.45E-05	2.68E-05
87	565597	4222981	3.73E-04	4.94E-04	1.77E-04	1.98E-04	5.41E-04	1.77E-04	4.90E-05	9.65E-05	5.79E-05	3.79E-05	5.37E-05	2.64E-05
88	565585.6	4222983	3.69E-04	4.88E-04	1.75E-04	1.96E-04	5.35E-04	1.75E-04	4.85E-05	9.53E-05	5.72E-05	3.75E-05	5.31E-05	2.61E-05

89	565551.6	4222992	3.60E-04	4.76E-04	1.70E-04	1.91E-04	5.21E-04	1.70E-04	4.72E-05	9.29E-05	5.58E-05	3.65E-05	5.17E-05	2.54E-05
90	565540.3	4222994	3.58E-04	4.73E-04	1.69E-04	1.90E-04	5.18E-04	1.69E-04	4.70E-05	9.24E-05	5.54E-05	3.63E-05	5.14E-05	2.53E-05
91	565528.9	4222997	3.55E-04	4.70E-04	1.68E-04	1.88E-04	5.15E-04	1.68E-04	4.66E-05	9.17E-05	5.50E-05	3.61E-05	5.11E-05	2.51E-05
92	565663.1	4222984	3.88E-04	5.14E-04	1.84E-04	2.06E-04	5.63E-04	1.84E-04	5.10E-05	1.00E-04	6.02E-05	3.95E-05	5.59E-05	2.75E-05
93	565651.9	4222987	3.78E-04	5.00E-04	1.79E-04	2.00E-04	5.48E-04	1.79E-04	4.96E-05	9.76E-05	5.86E-05	3.84E-05	5.43E-05	2.67E-05
94	565640.6	4222990	3.68E-04	4.87E-04	1.74E-04	1.95E-04	5.34E-04	1.74E-04	4.83E-05	9.51E-05	5.71E-05	3.74E-05	5.30E-05	2.60E-05
95	565629.3	4222993	3.60E-04	4.76E-04	1.70E-04	1.91E-04	5.21E-04	1.70E-04	4.72E-05	9.29E-05	5.57E-05	3.65E-05	5.17E-05	2.54E-05
96	565618.1	4222995	3.52E-04	4.65E-04	1.67E-04	1.87E-04	5.10E-04	1.67E-04	4.62E-05	9.09E-05	5.45E-05	3.58E-05	5.06E-05	2.49E-05
97	565606.8	4222998	3.53E-04	4.67E-04	1.67E-04	1.87E-04	5.12E-04	1.67E-04	4.63E-05	9.12E-05	5.47E-05	3.59E-05	5.08E-05	2.50E-05
98	565595.5	4223001	3.50E-04	4.63E-04	1.66E-04	1.86E-04	5.08E-04	1.66E-04	4.60E-05	9.05E-05	5.43E-05	3.56E-05	5.04E-05	2.48E-05
99	565584.3	4223004	3.47E-04	4.59E-04	1.65E-04	1.84E-04	5.03E-04	1.65E-04	4.56E-05	8.97E-05	5.38E-05	3.53E-05	4.99E-05	2.46E-05
100	565561.7	4223009	3.43E-04	4.54E-04	1.63E-04	1.82E-04	4.97E-04	1.63E-04	4.51E-05	8.86E-05	5.32E-05	3.49E-05	4.93E-05	2.43E-05
101	565550.5	4223012	3.41E-04	4.51E-04	1.62E-04	1.81E-04	4.95E-04	1.62E-04	4.48E-05	8.81E-05	5.29E-05	3.47E-05	4.91E-05	2.41E-05
102	565539.2	4223015	3.39E-04	4.49E-04	1.61E-04	1.80E-04	4.92E-04	1.61E-04	4.46E-05	8.77E-05	5.26E-05	3.45E-05	4.88E-05	2.40E-05
103	565527.9	4223017	3.37E-04	4.46E-04	1.60E-04	1.79E-04	4.89E-04	1.60E-04	4.43E-05	8.71E-05	5.23E-05	3.43E-05	4.85E-05	2.38E-05
104	565674	4222980	4.02E-04	5.31E-04	1.90E-04	2.13E-04	5.82E-04	1.90E-04	5.28E-05	1.04E-04	6.23E-05	4.08E-05	5.78E-05	2.84E-05
105	565672.4	4223002	3.72E-04	4.92E-04	1.76E-04	1.97E-04	5.39E-04	1.76E-04	4.88E-05	9.61E-05	5.77E-05	3.78E-05	5.35E-05	2.63E-05
106	565661	4223005	3.62E-04	4.79E-04	1.72E-04	1.92E-04	5.25E-04	1.72E-04	4.76E-05	9.36E-05	5.62E-05	3.68E-05	5.21E-05	2.56E-05
107	565649.6	4223008	3.54E-04	4.68E-04	1.68E-04	1.88E-04	5.13E-04	1.68E-04	4.65E-05	9.14E-05	5.49E-05	3.60E-05	5.09E-05	2.50E-05
108	565638.1	4223010	3.46E-04	4.58E-04	1.64E-04	1.84E-04	5.02E-04	1.64E-04	4.55E-05	8.94E-05	5.37E-05	3.52E-05	4.98E-05	2.45E-05
109	565626.7	4223013	3.39E-04	4.49E-04	1.61E-04	1.80E-04	4.92E-04	1.61E-04	4.46E-05	8.77E-05	5.26E-05	3.45E-05	4.88E-05	2.40E-05
110	565615.3	4223016	3.38E-04	4.47E-04	1.60E-04	1.79E-04	4.90E-04	1.60E-04	4.44E-05	8.73E-05	5.24E-05	3.44E-05	4.86E-05	2.39E-05
111	565603.8	4223019	3.34E-04	4.42E-04	1.58E-04	1.77E-04	4.84E-04	1.58E-04	4.39E-05	8.63E-05	5.18E-05	3.40E-05	4.81E-05	2.36E-05
112	565592.4	4223022	3.31E-04	4.37E-04	1.57E-04	1.75E-04	4.79E-04	1.57E-04	4.34E-05	8.54E-05	5.13E-05	3.36E-05	4.76E-05	2.34E-05
113	565581	4223024	3.28E-04	4.33E-04	1.55E-04	1.74E-04	4.75E-04	1.55E-04	4.30E-05	8.47E-05	5.08E-05	3.33E-05	4.71E-05	2.32E-05
114	565558.1	4223030	3.26E-04	4.31E-04	1.54E-04	1.73E-04	4.73E-04	1.54E-04	4.28E-05	8.42E-05	5.06E-05	3.31E-05	4.69E-05	2.31E-05
115	565546.7	4223033	3.25E-04	4.29E-04	1.54E-04	1.72E-04	4.71E-04	1.54E-04	4.26E-05	8.39E-05	5.03E-05	3.30E-05	4.67E-05	2.30E-05
116	565535.3	4223036	3.22E-04	4.26E-04	1.53E-04	1.71E-04	4.68E-04	1.53E-04	4.24E-05	8.33E-05	5.00E-05	3.28E-05	4.64E-05	2.28E-05
117	565683.3	4222998	3.82E-04	5.05E-04	1.81E-04	2.02E-04	5.53E-04	1.81E-04	5.01E-05	9.86E-05	5.92E-05	3.88E-05	5.49E-05	2.70E-05
118	565681.8	4223020	3.57E-04	4.73E-04	1.69E-04	1.89E-04	5.18E-04	1.69E-04	4.69E-05	9.23E-05	5.54E-05	3.63E-05	5.14E-05	2.53E-05
119	565670.5	4223022	3.50E-04	4.63E-04	1.66E-04	1.86E-04	5.07E-04	1.66E-04	4.60E-05	9.04E-05	5.43E-05	3.56E-05	5.03E-05	2.47E-05
120	565659.1	4223025	3.42E-04	4.52E-04	1.62E-04	1.81E-04	4.96E-04	1.62E-04	4.49E-05	8.83E-05	5.30E-05	3.47E-05	4.92E-05	2.42E-05
121	565647.8	4223028	3.35E-04	4.43E-04	1.59E-04	1.77E-04	4.85E-04	1.59E-04	4.39E-05	8.65E-05	5.19E-05	3.40E-05	4.81E-05	2.37E-05
122	565636.4	4223031	3.28E-04	4.34E-04	1.55E-04	1.74E-04	4.76E-04	1.55E-04	4.31E-05	8.48E-05	5.09E-05	3.33E-05	4.72E-05	2.32E-05
123	565625.1	4223034	3.22E-04	4.26E-04	1.53E-04	1.71E-04	4.67E-04	1.53E-04	4.23E-05	8.33E-05	5.00E-05	3.27E-05	4.64E-05	2.28E-05
124	565613.7	4223036	3.21E-04	4.25E-04	1.52E-04	1.70E-04	4.66E-04	1.52E-04	4.22E-05	8.30E-05	4.98E-05	3.26E-05	4.62E-05	2.27E-05
125	565602.4	4223039	3.18E-04	4.21E-04	1.51E-04	1.69E-04	4.62E-04	1.51E-04	4.18E-05	8.23E-05	4.94E-05	3.24E-05	4.58E-05	2.25E-05
126	565591	4223042	3.16E-04	4.18E-04	1.50E-04	1.68E-04	4.58E-04	1.50E-04	4.15E-05	8.16E-05	4.90E-05	3.21E-05	4.55E-05	2.23E-05
127	565579.7	4223045	3.14E-04	4.16E-04	1.49E-04	1.67E-04	4.56E-04	1.49E-04	4.13E-05	8.12E-05	4.87E-05	3.19E-05	4.52E-05	2.22E-05
128	565557	4223050	3.12E-04	4.13E-04	1.48E-04	1.66E-04	4.53E-04	1.48E-04	4.10E-05	8.07E-05	4.84E-05	3.17E-05	4.49E-05	2.21E-05
129	565545.6	4223053	3.10E-04	4.10E-04	1.47E-04	1.64E-04	4.50E-04	1.47E-04	4.07E-05	8.02E-05	4.81E-05	3.15E-05	4.46E-05	2.19E-05
130	565534.3	4223056	3.08E-04	4.07E-04	1.46E-04	1.63E-04	4.46E-04	1.46E-04	4.04E-05	7.95E-05	4.77E-05	3.13E-05	4.42E-05	2.18E-05
131	565692.7	4223015	3.66E-04	4.84E-04	1.74E-04	1.94E-04	5.31E-04	1.74E-04	4.81E-05	9.46E-05	5.68E-05	3.72E-05	5.27E-05	2.59E-05
132	565691.3	4223037	3.45E-04	4.56E-04	1.63E-04	1.83E-04	5.00E-04	1.63E-04	4.53E-05	8.90E-05	5.34E-05	3.50E-05	4.96E-05	2.44E-05
133	565680	4223040	3.38E-04	4.46E-04	1.60E-04	1.79E-04	4.89E-04	1.60E-04	4.43E-05	8.72E-05	5.23E-05	3.43E-05	4.86E-05	2.39E-05
134	565668.7	4223043	3.31E-04	4.37E-04	1.57E-04	1.75E-04	4.79E-04	1.57E-04	4.34E-05	8.54E-05	5.12E-05	3.36E-05	4.75E-05	2.34E-05
135	565657.4	4223046	3.24E-04	4.28E-04	1.53E-04	1.72E-04	4.69E-04	1.53E-04	4.25E-05	8.36E-05	5.02E-05	3.29E-05	4.65E-05	2.29E-05
136	565646.1	4223048	3.17E-04	4.20E-04	1.50E-04	1.68E-04	4.60E-04	1.50E-04	4.17E-05	8.20E-05	4.92E-05	3.23E-05	4.57E-05	2.24E-05
137	565634.9	4223051	3.12E-04	4.12E-04	1.48E-04	1.65E-04	4.52E-04	1.48E-04	4.10E-05	8.06E-05	4.83E-05	3.17E-05	4.49E-05	2.21E-05
138	565623.6	4223054	3.07E-04	4.06E-04	1.45E-04	1.63E-04	4.45E-04	1.45E-04	4.03E-05	7.93E-05	4.76E-05	3.12E-05	4.41E-05	2.17E-05
139	565612.3	4223057	3.06E-04	4.05E-04	1.45E-04	1.62E-04	4.44E-04	1.45E-04	4.02E-05	7.91E-05	4.75E-05	3.11E-05	4.41E-05	2.17E-05
140	565601	4223059	3.05E-04	4.03E-04	1.44E-04	1.62E-04	4.42E-04	1.44E-04	4.00E-05	7.87E-05	4.72E-05	3.10E-05	4.38E-05	2.16E-05
141	565589.7	4223062	3.03E-04	4.01E-04	1.44E-04	1.61E-04	4.39E-04	1.44E-04	3.98E-05	7.83E-05	4.70E-05	3.08E-05	4.36E-05	2.14E-05
142	565578.4	4223065	3.02E-04	3.99E-04	1.43E-04	1.60E-04	4.37E-04	1.43E-04	3.96E-05	7.79E-05	4.68E-05	3.07E-05	4.34E-05	2.13E-05
143	565555.9	4223070	2.98E-04	3.95E-04	1.41E-04	1.58E-04	4.33E-04	1.41E-04	3.92E-05	7.71E-05	4.63E-05	3.03E-05	4.29E-05	2.11E-05
144	565544.6	4223073	2.96E-04	3.91E-04	1.40E-04	1.57E-04	4.28E-04	1.40E-04	3.88E-05	7.64E-05	4.58E-05	3.00E-05	4.25E-05	2.09E-05
145	565533.3	4223076	2.92E-04	3.87E-04	1.39E-04	1.55E-04	4.24E-04	1.39E-04	3.84E-05	7.55E-05	4.53E-05	2.97E-05	4.21E-05	2.07E-05
146	565702.1	4223033	3.53E-04	4.67E-04	1.67E-04	1.87E-04	5.12E-04	1.67E-04	4.64E-05	9.12E-05	5.47E-05	3.59E-05	5.08E-05	2.50E-05
147	565529.9	4222867	6.19E-04	8.18E-04	2.93E-04	3.28E-04	8.97E-04	2.93E-04	8.13E-05	1.60E-04	9.59E-05	6.29E-05	8.90E-05	4.38E-05
148	565535.7	4222886	5.34E-04	7.07E-04	2.53E-04	2.83E-04	7.75E-04	2.53E-04	7.02E-05	1.38E-04	8.28E-05	5.43E-05	7.69E-05	3.78E-05
149	565541.5	4222906	4.92E-04	6.51E-04	2.33E-04	2.61E-04	7.13E-04	2.33E-04	6.46E-05	1.27E-04	7.63E-05	5.00E-05	7.08E-05	3.48E-05
150	565548.9	4222924	4.56E-04	6.03E-04	2.16E-04	2.42E-04	6.62E-04	2.16E-04	5.99E-05	1.18E-04	7.07E-05	4.64E-05	6.56E-05	3.23E-05
151	565593.6	4223078	2.94E-04	3.89E-04	1.39E-04	1.56E-04	4.26E-04	1.39E-04	3.86E-05	7.59E-05	4.56E-05	2.99E-05	4.23E-05	2.08E-05
152	565549.1	4222507	1.32E-02	1.75E-02	6.27E-03	7.02E-03	1.92E-02	6.27E-03	1.74E-03	3.42E-03	2.05E-03	1.35E-03	1.90E-03	9.36E-04
153	565543.1	4222521	1.17E-02	1.54E-02	5.53E-03	6.19E-03	1.69E-02	5.53E-03	1.53E-03	3.02E-03	1.81E-03	1.19E-03	1.68E-03	8.26E-04
154	565552.3	4222491	1.51E-02	2.00E-02	7.16E-03	8.02E-03	2.19E-02	7.16E-03	1.99E-03	3.91E-03	2.34E-03	1.54E-03	2.18E-03	1.07E-03
155	565552.5	4222482	1.63E-02	2.16E-02	7.72E-03	8.64E-03	2.36E-02	7.72E-03	2.14E-03	4.21E-03	2.53E-03	1.66E-03	2.34E-03	1.15E-03
156	565552.7	4222473	1.75E-02	2.31E-02	8.27E-03	9.26E-03	2.53E-02	8.27E-03	2.29E-03	4.51E-03	2.71E-03	1.77E-03	2.51E-03	1.24E-03
157	565558.3	4222509	1.25E-02	1.65E-02	5.91E-03	6.62E-03	1.81E-02	5.91E-03	1.64E-03	3.22E-03	1.93E-03	1.27E-03	1.80E-03	8.83E-04
158	565551.1	4222525	1.08E-02	1.43E-02	5.14E-03	5.75E-03	1.57E-02	5.14E-03	1.42E-03	2.80E-03	1.68E-03	1.10E-03	1.56E-03	7.67E-04
159	565547.5	4222533	9.98E-03	1.32E-02	4.73E-03	5.29E-03	1.45E-02	4.73E-03	1.31E-03	2.58E-03	1.55E-03	1.01E-03	1.44E-03	7.06E-04
160	565561.9	4222501	1.32E-02	1.75E-02	6.26E-03	7.00E-03	1.92E-02	6.26E-03	1.73E-03	3.41E-03	2.05E-03	1.34E-03	1.90E-03	9.34E-04
161	565562.1	4222492	1.42E-02	1.88E-02	6.74E-03	7.55E-03	2.06E-02	6.74E-03	1.87E-03	3.68E-03	2.21E-03	1.45E-03	2.05E-03	1.01E-03
162	565562.3	4222483	1.53E-02	2.02E-02	7.23E-03	8.09E-03	2.21E-02	7.23E-03	2.00E-03	3.94E-03	2.37E-03	1.55E-03	2.20E-03	1.08E-03
163	565562.6	4222473	1.63E-02	2.15E-02	7.72E-03	8.63E-03	2.36E-02	7.72E-03	2.14E-03	4.21E-03	2.52E-03	1.66E-03	2.34E-03	1.15E-03
164	565568.2	4222509	1.19E-02	1.58E-02	5.65E-03	6.33E-03	1.73E-02	5.65E-03	1.57E-03	3.08E-03	1.85E-03	1.21E-03	1.72E-03	8.44E-04
165	565561.3	4222525	1.06E-02	1.40E-02	5.00E-03	5.60E-03	1.53E-02	5.00E-03	1.39E-03	2.73E-03	1.64E-03	1.07E-03	1.52E-03	7.47E-04
166	565554.3	4222541	9.07E-03	1.20E-02	4.30E-03	4.81E-03	1.31E-02	4.30E-03	1.19E-03	2.34E-03	1.41E-03	9.21E-04	1.30E-03	6.41E-04
167	565542.7	4222552	8.03E-03	1.06E-02	3.80E-03	4.26E-03	1.16E-02	3.80E-03	1.05E-03	2.07E-03	1.24E-03	8.16E-04	1.15E-03	5.68E-04
168	565572	4222492	1.34E-02	1.78E-02	6.37E-03	7.13E-03	1.95E-02	6.37E-03	1.77E-03	3.47E-03	2.08E-03	1.37E-03	1.93E-03	9.51E-04
169	565572.2	4222483	1.44E-02	1.90E-02	6.80E-03	7.61E-03	2.08E-02	6.80E-03	1.88E-03	3.71E-03	2.22E-03	1.46E-03	2.06E-03	1.01E-03
170	565572.4	4222474	1.53E-02	2.02E-02	7.23E-03	8.09E-03	2.21E-02	7.23E-03	2.00E-03	3.94E-03	2.36E-03	1.55E-03	2.19E-03	1.08E-03
171	565578.1	4222509	1.14E-02	1.51E-02	5.41E-03	6.05E-03	1.65E-02	5.41E-03	1.50E-03	2.95E-03	1.77E-03	1.16E-03	1.64E-03	8.07E-04
172	565571.3	4222525	1.02E-02	1.35E-02	4.85E-03	5.43E-03	1.49E-02	4.85E-03	1.35E-03	2.65E-03	1.59E-03	1.04E-03	1.47E-03	7.25E-04
173	565564.5	4222540	8.96E-03	1.19E-02	4.24E-03	4.75E-03	1.30E-02	4.24E-03	1.18E-03	2.31E-03	1.39E-03	9.11E-04	1.29E-03	6.34E-04
174	565549.7	4222559	7.38E-03	9.76E-03	3.50E-03	3.91E-03	1.07E-02	3.50E-03	9.69E-04	1.91E-03	1.14E-03	7.50E-04	1.06E-03	5.22E-04
175	565581.8	4222492	1.27E-02	1.68E-02	6.03E-03	6.75E-03	1.85E-02	6.03E-03	1.67E-03	3.29E-03	1.97E-03	1.29E-03	1.83E-03	9.01E-04
176	565582	4222483	1.35E-02	1.79E-02	6.41E-03	7.18E-03	1.96E-02	6.41E-03	1.78E-03	3.50E-03	2.10E-03	1.38E-03	1.95E-03	9.57E-04
177	565582.2	4222474	1.43E-02	1.89E-02	6.79E-03	7.60E-03	2.08E-02	6.79E-03	1.88E-03	3.70E-03	2.22E-03	1.46E-03	2.06E-03	1.01E-03
178	565581.3	4222524	9.92E-03	1.31E-02	4.70E-03	5.26E-03	1.44E-02	4.70E-03	1.30E-03	2.56E-03	1.54E-03	1.01E-03	1.43E-03	7.01E-04
179	565574.6	4222540	8.80E-03	1.16E-02	4.17E-03	4.67E-03	1.28E-02	4.17E-03	1.16E-03	2.27E-03	1.36E-03	8.95E-04	1.27E-03	6.22E-04

180	565567.8	4222555	7.64E-03	1.01E-02	3.62E-03	4.05E-03	1.11E-02	3.62E-03	1.00E-03	1.97E-03	1.18E-03	7.76E-04	1.10E-03	5.40E-04
181	565556.6	4222566	6.82E-03	9.02E-03	3.23E-03	3.62E-03	9.89E-03	3.23E-03	8.96E-04	1.76E-03	1.06E-03	6.93E-04	9.81E-04	4.82E-04
182	565541	4222572	6.26E-03	8.28E-03	2.97E-03	3.32E-03	9.08E-03	2.97E-03	8.22E-04	1.62E-03	9.71E-04	6.36E-04	9.01E-04	4.43E-04
183	565577.9	4222555	7.58E-03	1.00E-02	3.59E-03	4.02E-03	1.10E-02	3.59E-03	9.96E-04	1.96E-03	1.18E-03	7.70E-04	1.09E-03	5.36E-04
184	565563.6	4222573	6.33E-03	8.37E-03	3.00E-03	3.36E-03	9.18E-03	3.00E-03	8.31E-04	1.64E-03	9.81E-04	6.43E-04	9.11E-04	4.48E-04
185	565548.2	4222579	5.82E-03	7.70E-03	2.76E-03	3.09E-03	8.44E-03	2.76E-03	7.65E-04	1.50E-03	9.03E-04	5.92E-04	8.38E-04	4.12E-04
186	565601.5	4222493	1.15E-02	1.52E-02	5.44E-03	6.08E-03	1.66E-02	5.44E-03	1.51E-03	2.96E-03	1.78E-03	1.17E-03	1.65E-03	8.12E-04
187	565607.8	4222509	1.00E-02	1.33E-02	4.75E-03	5.31E-03	1.45E-02	4.75E-03	1.32E-03	2.59E-03	1.55E-03	1.02E-03	1.44E-03	7.09E-04
188	565601.2	4222524	9.26E-03	1.22E-02	4.39E-03	4.91E-03	1.34E-02	4.39E-03	1.22E-03	2.39E-03	1.44E-03	9.41E-04	1.33E-03	6.55E-04
189	565570.5	4222580	5.90E-03	7.80E-03	2.79E-03	3.13E-03	8.55E-03	2.79E-03	7.74E-04	1.52E-03	9.14E-04	5.99E-04	8.48E-04	4.17E-04
190	565555.2	4222586	5.44E-03	7.19E-03	2.58E-03	2.88E-03	7.88E-03	2.58E-03	7.14E-04	1.40E-03	8.43E-04	5.52E-04	7.82E-04	3.84E-04
191	565540	4222592	4.92E-03	6.50E-03	2.33E-03	2.61E-03	7.13E-03	2.33E-03	6.46E-04	1.27E-03	7.62E-04	5.00E-04	7.07E-04	3.48E-04
192	565611.3	4222493	1.09E-02	1.44E-02	5.17E-03	5.79E-03	1.58E-02	5.17E-03	1.43E-03	2.82E-03	1.69E-03	1.11E-03	1.57E-03	7.72E-04
193	565611.5	4222484	1.15E-02	1.52E-02	5.43E-03	6.08E-03	1.66E-02	5.43E-03	1.51E-03	2.96E-03	1.78E-03	1.17E-03	1.65E-03	8.11E-04
194	565611.7	4222475	1.20E-02	1.59E-02	5.69E-03	6.37E-03	1.74E-02	5.69E-03	1.58E-03	3.10E-03	1.86E-03	1.22E-03	1.73E-03	8.50E-04
195	565617.3	4222510	9.57E-03	1.27E-02	4.54E-03	5.08E-03	1.39E-02	4.54E-03	1.26E-03	2.47E-03	1.48E-03	9.73E-04	1.38E-03	6.77E-04
196	565613.7	4222518	9.22E-03	1.22E-02	4.37E-03	4.89E-03	1.34E-02	4.37E-03	1.21E-03	2.38E-03	1.43E-03	9.37E-04	1.33E-03	6.52E-04
197	565606.5	4222535	8.43E-03	1.11E-02	3.99E-03	4.47E-03	1.22E-02	3.99E-03	1.11E-03	2.18E-03	1.31E-03	8.56E-04	1.21E-03	5.96E-04
198	565599.3	4222551	7.54E-03	9.97E-03	3.57E-03	4.00E-03	1.09E-02	3.57E-03	9.90E-04	1.95E-03	1.17E-03	7.66E-04	1.08E-03	5.33E-04
199	565595.8	4222559	7.08E-03	9.36E-03	3.35E-03	3.75E-03	1.03E-02	3.35E-03	9.30E-04	1.83E-03	1.10E-03	7.20E-04	1.02E-03	5.01E-04
200	565576.6	4222587	5.49E-03	7.26E-03	2.60E-03	2.91E-03	7.96E-03	2.60E-03	7.21E-04	1.42E-03	8.51E-04	5.58E-04	7.90E-04	3.88E-04
201	565560	4222594	5.03E-03	6.65E-03	2.38E-03	2.66E-03	7.29E-03	2.38E-03	6.60E-04	1.30E-03	7.79E-04	5.11E-04	7.23E-04	3.55E-04
202	565551.7	4222597	4.77E-03	6.31E-03	2.26E-03	2.53E-03	6.91E-03	2.26E-03	6.26E-04	1.23E-03	7.39E-04	4.85E-04	6.86E-04	3.37E-04
203	565621.1	4222493	1.04E-02	1.37E-02	4.92E-03	5.51E-03	1.51E-02	4.92E-03	1.36E-03	2.69E-03	1.61E-03	1.06E-03	1.50E-03	7.35E-04
204	565621.3	4222484	1.09E-02	1.44E-02	5.16E-03	5.77E-03	1.58E-02	5.16E-03	1.43E-03	2.81E-03	1.69E-03	1.11E-03	1.57E-03	7.70E-04
205	565621.6	4222475	1.14E-02	1.50E-02	5.38E-03	6.02E-03	1.65E-02	5.38E-03	1.49E-03	2.93E-03	1.76E-03	1.15E-03	1.63E-03	8.03E-04
206	565627.2	4222510	9.17E-03	1.21E-02	4.35E-03	4.86E-03	1.33E-02	4.35E-03	1.20E-03	2.37E-03	1.42E-03	9.32E-04	1.32E-03	6.49E-04
207	565620.1	4222526	8.55E-03	1.13E-02	4.05E-03	4.53E-03	1.24E-02	4.05E-03	1.12E-03	2.21E-03	1.32E-03	8.69E-04	1.23E-03	6.04E-04
208	565613	4222543	7.81E-03	1.03E-02	3.70E-03	4.14E-03	1.13E-02	3.70E-03	1.03E-03	2.02E-03	1.21E-03	7.93E-04	1.12E-03	5.52E-04
209	565606	4222559	7.00E-03	9.26E-03	3.32E-03	3.71E-03	1.01E-02	3.32E-03	9.19E-04	1.81E-03	1.09E-03	7.11E-04	1.01E-03	4.95E-04
210	565567.2	4222601	4.73E-03	6.25E-03	2.24E-03	2.51E-03	6.85E-03	2.24E-03	6.21E-04	1.22E-03	7.33E-04	4.80E-04	6.80E-04	3.34E-04
211	565550.8	4222607	4.26E-03	5.63E-03	2.02E-03	2.26E-03	6.17E-03	2.02E-03	5.59E-04	1.10E-03	6.60E-04	4.33E-04	6.12E-04	3.01E-04
212	565630.8	4222502	9.45E-03	1.25E-02	4.48E-03	5.01E-03	1.37E-02	4.48E-03	1.24E-03	2.44E-03	1.47E-03	9.61E-04	1.36E-03	6.69E-04
213	565631	4222493	9.90E-03	1.31E-02	4.69E-03	5.25E-03	1.44E-02	4.69E-03	1.30E-03	2.56E-03	1.54E-03	1.01E-03	1.42E-03	7.00E-04
214	565631.2	4222484	1.03E-02	1.37E-02	4.90E-03	5.48E-03	1.50E-02	4.90E-03	1.36E-03	2.67E-03	1.60E-03	1.05E-03	1.49E-03	7.31E-04
215	565631.4	4222475	1.08E-02	1.42E-02	5.10E-03	5.70E-03	1.56E-02	5.10E-03	1.41E-03	2.78E-03	1.67E-03	1.09E-03	1.55E-03	7.61E-04
216	565637.1	4222510	8.80E-03	1.16E-02	4.17E-03	4.67E-03	1.28E-02	4.17E-03	1.16E-03	2.27E-03	1.36E-03	8.95E-04	1.27E-03	6.23E-04
217	565630.1	4222526	8.25E-03	1.09E-02	3.91E-03	4.37E-03	1.20E-02	3.91E-03	1.08E-03	2.13E-03	1.28E-03	8.38E-04	1.19E-03	5.83E-04
218	565623.1	4222542	7.60E-03	1.01E-02	3.60E-03	4.03E-03	1.10E-02	3.60E-03	9.98E-04	1.96E-03	1.18E-03	7.72E-04	1.09E-03	5.37E-04
219	565616.1	4222558	6.89E-03	9.12E-03	3.27E-03	3.66E-03	9.99E-03	3.27E-03	9.05E-04	1.78E-03	1.07E-03	7.01E-04	9.92E-04	4.88E-04
220	565602.1	4222590	5.38E-03	7.11E-03	2.55E-03	2.85E-03	7.79E-03	2.55E-03	7.06E-04	1.39E-03	8.33E-04	5.46E-04	7.73E-04	3.80E-04
221	565590.6	4222601	4.84E-03	6.40E-03	2.29E-03	2.56E-03	7.01E-03	2.29E-03	6.35E-04	1.25E-03	7.50E-04	4.92E-04	6.96E-04	3.42E-04
222	565574.4	4222608	4.46E-03	5.89E-03	2.11E-03	2.36E-03	6.46E-03	2.11E-03	5.85E-04	1.15E-03	6.91E-04	4.53E-04	6.41E-04	3.15E-04
223	565558.2	4222614	4.03E-03	5.33E-03	1.91E-03	2.14E-03	5.85E-03	1.91E-03	5.30E-04	1.04E-03	6.25E-04	4.10E-04	5.80E-04	2.85E-04
224	565542	4222621	3.59E-03	4.75E-03	1.70E-03	1.90E-03	5.20E-03	1.70E-03	4.71E-04	9.27E-04	5.57E-04	3.65E-04	5.16E-04	2.54E-04
225	565640.8	4222493	9.44E-03	1.25E-02	4.47E-03	5.01E-03	1.37E-02	4.47E-03	1.24E-03	2.44E-03	1.46E-03	9.60E-04	1.36E-03	6.68E-04
226	565641	4222484	9.83E-03	1.30E-02	4.66E-03	5.21E-03	1.43E-02	4.66E-03	1.29E-03	2.54E-03	1.52E-03	9.99E-04	1.41E-03	6.95E-04
227	565641.2	4222475	1.02E-02	1.35E-02	4.83E-03	5.41E-03	1.48E-02	4.83E-03	1.34E-03	2.64E-03	1.58E-03	1.04E-03	1.47E-03	7.22E-04
228	565647	4222511	8.45E-03	1.12E-02	4.00E-03	4.48E-03	1.22E-02	4.00E-03	1.11E-03	2.18E-03	1.31E-03	8.58E-04	1.22E-03	5.97E-04
229	565640.1	4222526	7.97E-03	1.05E-02	3.77E-03	4.22E-03	1.15E-02	3.77E-03	1.05E-03	2.06E-03	1.23E-03	8.10E-04	1.15E-03	5.63E-04
230	565633.1	4222542	7.40E-03	9.78E-03	3.50E-03	3.92E-03	1.07E-02	3.50E-03	9.71E-04	1.91E-03	1.15E-03	7.52E-04	1.06E-03	5.23E-04
231	565626.2	4222558	6.76E-03	8.94E-03	3.20E-03	3.58E-03	9.80E-03	3.20E-03	8.88E-04	1.75E-03	1.05E-03	6.87E-04	9.73E-04	4.78E-04
232	565612.4	4222589	5.39E-03	7.13E-03	2.56E-03	2.86E-03	7.82E-03	2.56E-03	7.08E-04	1.39E-03	8.36E-04	5.48E-04	7.76E-04	3.81E-04
233	565597.5	4222608	4.56E-03	6.03E-03	2.16E-03	2.42E-03	6.61E-03	2.16E-03	5.99E-04	1.18E-03	7.07E-04	4.63E-04	6.56E-04	3.22E-04
234	565565.5	4222621	3.83E-03	5.06E-03	1.81E-03	2.03E-03	5.55E-03	1.81E-03	5.03E-04	9.89E-04	5.93E-04	3.89E-04	5.50E-04	2.71E-04
235	565549.5	4222628	3.43E-03	4.53E-03	1.62E-03	1.82E-03	4.97E-03	1.62E-03	4.50E-04	8.85E-04	5.31E-04	3.48E-04	4.93E-04	2.42E-04
236	565533.5	4222634	3.03E-03	4.00E-03	1.43E-03	1.61E-03	4.39E-03	1.43E-03	3.98E-04	7.82E-04	4.69E-04	3.08E-04	4.36E-04	2.14E-04
237	565650.6	4222494	9.01E-03	1.19E-02	4.27E-03	4.78E-03	1.31E-02	4.27E-03	1.18E-03	2.33E-03	1.40E-03	9.15E-04	1.30E-03	6.37E-04
238	565650.9	4222485	9.35E-03	1.24E-02	4.43E-03	4.96E-03	1.36E-02	4.43E-03	1.23E-03	2.42E-03	1.45E-03	9.50E-04	1.35E-03	6.61E-04
239	565651.1	4222476	9.68E-03	1.28E-02	4.58E-03	5.13E-03	1.40E-02	4.58E-03	1.27E-03	2.50E-03	1.50E-03	9.83E-04	1.39E-03	6.84E-04
240	565656.8	4222511	8.10E-03	1.07E-02	3.84E-03	4.30E-03	1.17E-02	3.84E-03	1.06E-03	2.09E-03	1.26E-03	8.23E-04	1.17E-03	5.73E-04
241	565650	4222526	7.69E-03	1.02E-02	3.64E-03	4.08E-03	1.11E-02	3.64E-03	1.01E-03	1.99E-03	1.19E-03	7.81E-04	1.11E-03	5.44E-04
242	565643.1	4222542	7.19E-03	9.51E-03	3.41E-03	3.81E-03	1.04E-02	3.41E-03	9.44E-04	1.86E-03	1.11E-03	7.31E-04	1.03E-03	5.09E-04
243	565636.3	4222558	6.63E-03	8.76E-03	3.14E-03	3.51E-03	9.61E-03	3.14E-03	8.70E-04	1.71E-03	1.03E-03	6.73E-04	9.53E-04	4.69E-04
244	565622.6	4222589	5.38E-03	7.11E-03	2.55E-03	2.85E-03	7.79E-03	2.55E-03	7.06E-04	1.39E-03	8.33E-04	5.46E-04	7.73E-04	3.80E-04
245	565615.7	4222605	4.75E-03	6.29E-03	2.25E-03	2.52E-03	6.89E-03	2.25E-03	6.24E-04	1.23E-03	7.37E-04	4.83E-04	6.84E-04	3.36E-04
246	565604.4	4222616	4.30E-03	5.69E-03	2.04E-03	2.28E-03	6.24E-03	2.04E-03	5.65E-04	1.11E-03	6.67E-04	4.37E-04	6.19E-04	3.04E-04
247	565572.7	4222628	3.64E-03	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.78E-04	9.39E-04	5.64E-04	3.70E-04	5.23E-04	2.57E-04
248	565556.9	4222634	3.27E-03	4.33E-03	1.55E-03	1.73E-03	4.74E-03	1.55E-03	4.30E-04	8.45E-04	5.07E-04	3.32E-04	4.70E-04	2.31E-04
249	565541	4222641	2.91E-03	3.85E-03	1.38E-03	1.54E-03	4.22E-03	1.38E-03	3.82E-04	7.51E-04	4.51E-04	2.96E-04	4.18E-04	2.06E-04
250	565660.5	4222494	8.59E-03	1.14E-02	4.07E-03	4.55E-03	1.25E-02	4.07E-03	1.13E-03	2.22E-03	1.33E-03	8.73E-04	1.24E-03	6.08E-04
251	565660.7	4222485	8.89E-03	1.18E-02	4.21E-03	4.72E-03	1.29E-02	4.21E-03	1.17E-03	2.30E-03	1.38E-03	9.04E-04	1.28E-03	6.29E-04
252	565660.9	4222476	9.19E-03	1.21E-02	4.35E-03	4.87E-03	1.33E-02	4.35E-03	1.21E-03	2.37E-03	1.42E-03	9.33E-04	1.32E-03	6.50E-04
253	565666.7	4222511	7.77E-03	1.03E-02	3.68E-03	4.12E-03	1.13E-02	3.68E-03	1.02E-03	2.01E-03	1.20E-03	7.90E-04	1.12E-03	5.50E-04
254	565659.9	4222526	7.42E-03	9.81E-03	3.51E-03	3.93E-03	1.08E-02	3.51E-03	9.74E-04	1.92E-03	1.15E-03	7.54E-04	1.07E-03	5.25E-04
255	565653.1	4222542	6.98E-03	9.24E-03	3.31E-03	3.70E-03	1.01E-02	3.31E-03	9.17E-04	1.80E-03	1.08E-03	7.10E-04	1.00E-03	4.94E-04
256	565646.3	4222557	6.48E-03	8.57E-03	3.07E-03	3.44E-03	9.40E-03	3.07E-03	8.51E-04	1.67E-03	1.00E-03	6.59E-04	9.32E-04	4.58E-04
257	565632.7	4222588	5.35E-03	7.07E-03	2.53E-03	2.84E-03	7.76E-03	2.53E-03	7.03E-04	1.38E-03	8.29E-04	5.44E-04	7.70E-04	3.78E-04
258	565626	4222604	4.76E-03	6.30E-03	2.26E-03	2.53E-03	6.91E-03	2.26E-03	6.26E-04	1.23E-03	7.38E-04	4.84E-04	6.85E-04	3.37E-04
259	565611.3	4222623	4.07E-03	5.39E-03	1.93E-03	2.16E-03	5.90E-03	1.93E-03	5.35E-04	1.05E-03	6.31E-04	4.14E-04	5.86E-04	2.88E-04
260	565595.6	4222629	3.78E-03	5.00E-03	1.79E-03	2.00E-03	5.48E-03	1.79E-03	4.96E-04	9.76E-04	5.86E-04	3.84E-04	5.44E-04	2.67E-04
261	565564.2	4222641	3.12E-03	4.13E-03	1.48E-03	1.66E-03	4.53E-03	1.48E-03	4.10E-04	8.07E-04	4.84E-04	3.18E-04	4.49E-04	2.21E-04
262	565548.5	4222648	2.79E-03	3.69E-03	1.32E-03	1.48E-03	4.05E-03	1.32E-03	3.67E-04	7.22E-04	4.33E-04	2.84E-04	4.02E-04	1.98E-04
263	565532.7	4222654	2.48E-03	3.28E-03	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.40E-04	3.84E-04	2.52E-04	3.56E-04	1.75E-04
264	565670.3	4222494	8.20E-03	1.08E-02	3.88E-03	4.35E-03	1.19E-02	3.88E-03	1.08E-03	2.12E-03	1.27E-03	8.33E-04	1.18E-03	5.80E-04
265	565670.5	4222485	8.47E-03	1.12E-02	4.01E-03	4.49E-03	1.23E-02	4.01E-03	1.11E-03	2.19E-03	1.31E-03	8.60E-04	1.22E-03	5.99E-04
266	565670.7	4222476	8.72E-03	1.15E-02	4.13E-03	4.63E-03	1.26E-02	4.13E-03	1.15E-03	2.25E-03	1.35E-03	8.87E-04	1.25E-03	6.17E-04
267	565676.3	4222512	7.45E-03	9.85E-03	3.53E-03	3.95E-03	1.08E-02	3.53E-03	9.78E-04	1.92E-03	1.15E-03	7.57E-04	1.07E-03	5.27E-04
268	565672.7	4222520	7.30E-03	9.65E-03	3.46E-03	3.87E-03	1.06E-02	3.46E-03	9.58E-04	1.88E-03	1.13E-03	7.41E-04	1.05E-03	5.16E-04
269	565665.6	4222536	6.92E-03	9.16E-03	3.28E-03	3.67E-03	1.00E-02	3.28E-03	9.09E-04	1.79E-03	1.07E-03	7.04E-04	9.96E-04	4.90E-04
270	565662	4222544	6.71E-03	8.87E-03	3.18E-03	3.56E-03	9.72E-03	3.18E-03	8.81E-04	1.73E-03	1.04E-03	6.82E-04	9.65E-04	4.74E-04

271	565640.4	4222594	5.11E-03	6.76E-03	2.42E-03	2.71E-03	7.41E-03	2.42E-03	6.71E-04	1.32E-03	7.92E-04	5.19E-04	7.35E-04	3.61E-04
272	565636.8	4222602	4.82E-03	6.37E-03	2.28E-03	2.56E-03	6.99E-03	2.28E-03	6.33E-04	1.25E-03	7.47E-04	4.90E-04	6.93E-04	3.41E-04
273	565629.6	4222618	4.25E-03	5.62E-03	2.01E-03	2.25E-03	6.16E-03	2.01E-03	5.58E-04	1.10E-03	6.59E-04	4.32E-04	6.11E-04	3.01E-04
274	565617.7	4222630	3.85E-03	5.09E-03	1.82E-03	2.04E-03	5.58E-03	1.82E-03	5.06E-04	9.95E-04	5.97E-04	3.91E-04	5.54E-04	2.72E-04
275	565601	4222636	3.56E-03	4.71E-03	1.69E-03	1.89E-03	5.16E-03	1.69E-03	4.68E-04	9.20E-04	5.52E-04	3.62E-04	5.12E-04	2.52E-04
276	565592.7	4222640	3.40E-03	4.50E-03	1.61E-03	1.81E-03	4.94E-03	1.61E-03	4.47E-04	8.80E-04	5.28E-04	3.46E-04	4.90E-04	2.41E-04
277	565559.5	4222653	2.75E-03	3.64E-03	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.62E-04	7.11E-04	4.27E-04	2.80E-04	3.96E-04	1.95E-04
278	565551.1	4222656	2.60E-03	3.43E-03	1.23E-03	1.38E-03	3.76E-03	1.23E-03	3.41E-04	6.70E-04	4.02E-04	2.64E-04	3.73E-04	1.84E-04
279	565534.5	4222663	2.29E-03	3.03E-03	1.09E-03	1.21E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
280	565680.1	4222494	7.83E-03	1.04E-02	3.71E-03	4.15E-03	1.14E-02	3.71E-03	1.03E-03	2.02E-03	1.21E-03	7.96E-04	1.13E-03	5.54E-04
281	565680.4	4222485	8.07E-03	1.07E-02	3.82E-03	4.28E-03	1.17E-02	3.82E-03	1.06E-03	2.08E-03	1.25E-03	8.20E-04	1.16E-03	5.70E-04
282	565680.6	4222476	8.29E-03	1.10E-02	3.93E-03	4.40E-03	1.20E-02	3.93E-03	1.09E-03	2.14E-03	1.29E-03	8.43E-04	1.19E-03	5.87E-04
283	565686.2	4222512	7.15E-03	9.46E-03	3.39E-03	3.79E-03	1.04E-02	3.39E-03	9.39E-04	1.85E-03	1.11E-03	7.27E-04	1.03E-03	5.06E-04
284	565679.1	4222528	6.87E-03	9.09E-03	3.26E-03	3.64E-03	9.96E-03	3.26E-03	9.02E-04	1.78E-03	1.07E-03	6.98E-04	9.88E-04	4.86E-04
285	565657.7	4222577	5.60E-03	7.40E-03	2.65E-03	2.97E-03	8.11E-03	2.65E-03	7.35E-04	1.45E-03	8.68E-04	5.69E-04	8.05E-04	3.96E-04
286	565654.2	4222585	5.34E-03	7.06E-03	2.53E-03	2.83E-03	7.74E-03	2.53E-03	7.01E-04	1.38E-03	8.28E-04	5.43E-04	7.68E-04	3.78E-04
287	565647.1	4222601	4.81E-03	6.37E-03	2.28E-03	2.55E-03	6.98E-03	2.28E-03	6.32E-04	1.24E-03	7.46E-04	4.89E-04	6.92E-04	3.40E-04
288	565640	4222617	4.28E-03	5.67E-03	2.03E-03	2.27E-03	6.21E-03	2.03E-03	5.63E-04	1.11E-03	6.64E-04	4.35E-04	6.16E-04	3.03E-04
289	565624.6	4222637	3.65E-03	4.82E-03	1.73E-03	1.93E-03	5.29E-03	1.73E-03	4.79E-04	9.43E-04	5.66E-04	3.71E-04	5.25E-04	2.58E-04
290	565608.1	4222643	3.39E-03	4.48E-03	1.61E-03	1.80E-03	4.91E-03	1.61E-03	4.45E-04	8.75E-04	5.25E-04	3.44E-04	4.87E-04	2.40E-04
291	565591.7	4222650	3.10E-03	4.09E-03	1.47E-03	1.64E-03	4.49E-03	1.47E-03	4.07E-04	8.00E-04	4.80E-04	3.15E-04	4.45E-04	2.19E-04
292	565558.8	4222663	2.50E-03	3.31E-03	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
293	565542.3	4222670	2.22E-03	2.94E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.44E-04	2.26E-04	3.19E-04	1.57E-04
294	565689.8	4222504	7.26E-03	9.60E-03	3.44E-03	3.85E-03	1.05E-02	3.44E-03	9.54E-04	1.88E-03	1.13E-03	7.38E-04	1.04E-03	5.14E-04
295	565690	4222495	7.48E-03	9.90E-03	3.55E-03	3.97E-03	1.08E-02	3.55E-03	9.83E-04	1.93E-03	1.16E-03	7.60E-04	1.08E-03	5.29E-04
296	565690.2	4222486	7.69E-03	1.02E-02	3.64E-03	4.08E-03	1.12E-02	3.64E-03	1.01E-03	1.99E-03	1.19E-03	7.82E-04	1.11E-03	5.44E-04
297	565690.4	4222477	7.89E-03	1.04E-02	3.74E-03	4.19E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.02E-04	1.14E-03	5.58E-04
298	565696.1	4222512	6.87E-03	9.08E-03	3.25E-03	3.64E-03	9.95E-03	3.25E-03	9.02E-04	1.77E-03	1.06E-03	6.98E-04	9.88E-04	4.86E-04
299	565674.9	4222560	5.94E-03	7.85E-03	2.81E-03	3.15E-03	8.61E-03	2.81E-03	7.80E-04	1.53E-03	9.20E-04	6.03E-04	8.54E-04	4.20E-04
300	565667.9	4222576	5.50E-03	7.28E-03	2.61E-03	2.92E-03	7.98E-03	2.61E-03	7.23E-04	1.42E-03	8.53E-04	5.59E-04	7.92E-04	3.89E-04
301	565660.8	4222592	5.03E-03	6.65E-03	2.38E-03	2.67E-03	7.29E-03	2.38E-03	6.61E-04	1.30E-03	7.80E-04	5.11E-04	7.24E-04	3.56E-04
302	565653.8	4222608	4.54E-03	6.01E-03	2.15E-03	2.41E-03	6.59E-03	2.15E-03	5.97E-04	1.17E-03	7.04E-04	4.62E-04	6.54E-04	3.21E-04
303	565646.7	4222625	4.06E-03	5.36E-03	1.92E-03	2.15E-03	5.88E-03	1.92E-03	5.33E-04	1.05E-03	6.29E-04	4.12E-04	5.83E-04	2.87E-04
304	565631.5	4222644	3.47E-03	4.59E-03	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.96E-04	5.38E-04	3.53E-04	4.99E-04	2.45E-04
305	565615.2	4222650	3.23E-03	4.27E-03	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.34E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
306	565598.9	4222657	2.96E-03	3.91E-03	1.40E-03	1.57E-03	4.29E-03	1.40E-03	3.89E-04	7.64E-04	4.59E-04	3.01E-04	4.26E-04	2.09E-04
307	565566.3	4222670	2.41E-03	3.19E-03	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.17E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.70E-04
308	565550	4222676	2.15E-03	2.84E-03	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.82E-04	5.56E-04	3.33E-04	2.19E-04	3.09E-04	1.52E-04
309	565533.7	4222683	1.91E-03	2.53E-03	9.06E-04	1.01E-03	2.77E-03	9.06E-04	2.51E-04	4.94E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
310	565699.8	4222495	7.16E-03	9.46E-03	3.39E-03	3.79E-03	1.04E-02	3.39E-03	9.40E-04	1.85E-03	1.11E-03	7.27E-04	1.03E-03	5.06E-04
311	565700	4222486	7.34E-03	9.71E-03	3.48E-03	3.89E-03	1.06E-02	3.48E-03	9.64E-04	1.90E-03	1.14E-03	7.46E-04	1.06E-03	5.19E-04
312	565700.3	4222477	7.52E-03	9.94E-03	3.56E-03	3.99E-03	1.09E-02	3.56E-03	9.87E-04	1.94E-03	1.17E-03	7.64E-04	1.08E-03	5.32E-04
313	565692	4222544	6.12E-03	8.10E-03	2.90E-03	3.25E-03	8.88E-03	2.90E-03	8.04E-04	1.58E-03	9.49E-04	6.22E-04	8.81E-04	4.33E-04
314	565685	4222560	5.79E-03	7.65E-03	2.74E-03	3.07E-03	8.39E-03	2.74E-03	7.60E-04	1.50E-03	8.97E-04	5.88E-04	8.32E-04	4.09E-04
315	565678	4222576	5.40E-03	7.14E-03	2.56E-03	2.86E-03	7.83E-03	2.56E-03	7.09E-04	1.40E-03	8.37E-04	5.49E-04	7.77E-04	3.82E-04
316	565671	4222592	4.97E-03	6.58E-03	2.36E-03	2.64E-03	7.21E-03	2.36E-03	6.53E-04	1.28E-03	7.71E-04	5.05E-04	7.15E-04	3.52E-04
317	565664	4222608	4.52E-03	5.98E-03	2.14E-03	2.40E-03	6.56E-03	2.14E-03	5.94E-04	1.17E-03	7.01E-04	4.60E-04	6.51E-04	3.20E-04
318	565657	4222624	4.07E-03	5.38E-03	1.93E-03	2.16E-03	5.90E-03	1.93E-03	5.34E-04	1.05E-03	6.31E-04	4.14E-04	5.85E-04	2.88E-04
319	565650	4222640	3.62E-03	4.79E-03	1.72E-03	1.92E-03	5.25E-03	1.72E-03	4.76E-04	9.36E-04	5.62E-04	3.68E-04	5.21E-04	2.56E-04
320	565638.4	4222651	3.30E-03	4.37E-03	1.56E-03	1.75E-03	4.79E-03	1.56E-03	4.34E-04	8.53E-04	5.12E-04	3.36E-04	4.75E-04	2.34E-04
321	565622.3	4222657	3.07E-03	4.06E-03	1.46E-03	1.63E-03	4.45E-03	1.46E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
322	565606.1	4222664	2.83E-03	3.74E-03	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.72E-04	7.31E-04	4.39E-04	2.88E-04	4.07E-04	2.00E-04
323	565589.9	4222670	2.57E-03	3.41E-03	1.22E-03	1.37E-03	3.73E-03	1.22E-03	3.38E-04	6.65E-04	3.99E-04	2.62E-04	3.70E-04	1.82E-04
324	565557.6	4222683	2.08E-03	2.75E-03	9.86E-04	1.10E-03	3.02E-03	9.86E-04	2.73E-04	5.38E-04	3.23E-04	2.12E-04	2.99E-04	1.47E-04
325	565541.4	4222690	1.86E-03	2.46E-03	8.81E-04	9.86E-04	2.70E-03	8.81E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
326	565709.7	4222495	6.85E-03	9.06E-03	3.24E-03	3.63E-03	9.93E-03	3.24E-03	8.99E-04	1.77E-03	1.06E-03	6.96E-04	9.85E-04	4.84E-04
327	565709.9	4222486	0.007014	0.009276	3.32E-03	3.72E-03	1.02E-02	3.32E-03	9.21E-04	1.81E-03	1.09E-03	7.13E-04	1.01E-03	4.96E-04
328	565710.1	4222477	0.007172	0.009485	3.40E-03	3.80E-03	1.04E-02	3.40E-03	9.42E-04	1.85E-03	1.11E-03	7.29E-04	1.03E-03	5.07E-04
329	565708.9	4222528	0.006165	0.008153	2.92E-03	3.27E-03	8.94E-03	2.92E-03	8.10E-04	1.59E-03	9.56E-04	6.26E-04	8.87E-04	4.36E-04
330	565701.9	4222544	0.005931	0.007843	2.81E-03	3.14E-03	8.60E-03	2.81E-03	7.79E-04	1.53E-03	9.19E-04	6.03E-04	8.53E-04	4.19E-04
331	565695	4222560	0.005635	0.007452	2.67E-03	2.99E-03	8.17E-03	2.67E-03	7.40E-04	1.46E-03	8.74E-04	5.73E-04	8.11E-04	3.99E-04
332	565688.1	4222576	0.00529	0.006996	2.51E-03	2.80E-03	7.67E-03	2.51E-03	6.95E-04	1.37E-03	8.20E-04	5.38E-04	7.61E-04	3.74E-04
333	565681.1	4222591	0.004904	0.006485	2.32E-03	2.60E-03	7.11E-03	2.32E-03	6.44E-04	1.27E-03	7.60E-04	4.98E-04	7.05E-04	3.47E-04
334	565674.2	4222607	0.004492	0.00594	2.13E-03	2.38E-03	6.51E-03	2.13E-03	5.90E-04	1.16E-03	6.96E-04	4.56E-04	6.46E-04	3.18E-04
335	565667.2	4222623	0.004069	0.005381	1.93E-03	2.16E-03	5.90E-03	1.93E-03	5.34E-04	1.05E-03	6.31E-04	4.13E-04	5.85E-04	2.88E-04
336	565660.3	4222639	0.00365	0.004827	1.73E-03	1.94E-03	5.29E-03	1.73E-03	4.79E-04	9.43E-04	5.66E-04	3.71E-04	5.25E-04	2.58E-04
337	565645.3	4222658	0.003149	0.004165	1.49E-03	1.67E-03	4.57E-03	1.49E-03	4.14E-04	8.14E-04	4.88E-04	3.20E-04	4.53E-04	2.23E-04
338	565629.3	4222664	0.002934	0.00388	1.39E-03	1.56E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.07E-04
339	565613.2	4222671	0.002713	0.003588	1.29E-03	1.44E-03	3.93E-03	1.29E-03	3.56E-04	7.01E-04	4.21E-04	2.76E-04	3.90E-04	1.92E-04
340	565597.2	4222677	0.002476	0.003275	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.40E-04	3.84E-04	2.52E-04	3.56E-04	1.75E-04
341	565565.1	4222690	0.002016	0.002666	9.55E-04	1.07E-03	2.92E-03	9.55E-04	2.65E-04	5.21E-04	3.13E-04	2.05E-04	2.90E-04	1.43E-04
342	565549	4222696	0.001806	0.002389	8.56E-04	9.58E-04	2.62E-03	8.56E-04	2.37E-04	4.67E-04	2.80E-04	1.84E-04	2.60E-04	1.28E-04
343	565719.7	4222486	0.006708	0.008871	3.18E-03	3.56E-03	9.73E-03	3.18E-03	8.81E-04	1.73E-03	1.04E-03	6.82E-04	9.65E-04	4.74E-04
344	565719.9	4222477	0.006848	0.009056	3.24E-03	3.63E-03	9.93E-03	3.24E-03	8.99E-04	1.77E-03	1.06E-03	6.96E-04	9.85E-04	4.84E-04
345	565725.5	4222513	0.006092	0.008057	2.89E-03	3.23E-03	8.83E-03	2.89E-03	8.00E-04	1.57E-03	9.44E-04	6.19E-04	8.76E-04	4.31E-04
346	565718.2	4222529	0.005933	0.007846	2.81E-03	3.15E-03	8.60E-03	2.81E-03	7.79E-04	1.53E-03	9.20E-04	6.03E-04	8.53E-04	4.20E-04
347	565711	4222546	0.005712	0.007554	2.71E-03	3.03E-03	8.28E-03	2.71E-03	7.50E-04	1.48E-03	8.86E-04	5.81E-04	8.22E-04	4.04E-04
348	565707.4	4222554	0.005577	0.007376	2.64E-03	2.96E-03	8.09E-03	2.64E-03	7.32E-04	1.44E-03	8.65E-04	5.67E-04	8.02E-04	3.94E-04
349	565700.1	4222571	0.005268	0.006967	2.50E-03	2.79E-03	7.64E-03	2.50E-03	6.92E-04	1.36E-03	8.17E-04	5.35E-04	7.58E-04	3.73E-04
350	565692.8	4222587	0.004911	0.006495	2.33E-03	2.60E-03	7.12E-03	2.33E-03	6.45E-04	1.27E-03	7.61E-04	4.99E-04	7.06E-04	3.47E-04
351	565685.6	4222604	0.00452	0.005977	2.14E-03	2.40E-03	6.55E-03	2.14E-03	5.94E-04	1.17E-03	7.01E-04	4.59E-04	6.50E-04	3.20E-04
352	565678.3	4222620	0.004109	0.005434	1.95E-03	2.18E-03	5.96E-03	1.95E-03	5.40E-04	1.06E-03	6.37E-04	4.18E-04	5.91E-04	2.91E-04
353	565671.1	4222637	0.003694	0.004885	1.75E-03	1.96E-03	5.35E-03	1.75E-03	4.85E-04	9.54E-04	5.73E-04	3.75E-04	5.31E-04	2.61E-04
354	565667.5	4222645	0.003491	0.004616	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.02E-04	5.41E-04	3.55E-04	5.02E-04	2.47E-04
355	565651.8	4222665	0.003	0.003968	1.42E-03	1.59E-03	4.35E-03	1.42E-03	3.94E-04	7.75E-04	4.65E-04	3.05E-04	4.32E-04	2.12E-04
356	565643.4	4222669	0.002899	0.003834	1.37E-03	1.54E-03	4.20E-03	1.37E-03	3.81E-04	7.49E-04	4.49E-04	2.95E-04	4.17E-04	2.05E-04
357	565635	4222672	0.002792	0.003692	1.32E-03	1.48E-03	4.05E-03	1.32E-03	3.67E-04	7.21E-04	4.33E-04	2.84E-04	4.02E-04	1.97E-04
358	565618.2	4222679	0.002575	0.003405	1.22E-03	1.36E-03	3.73E-03	1.22E-03	3.38E-04	6.65E-04	3.99E-04	2.62E-04	3.70E-04	1.82E-04
359	565609.9	4222682	0.002459	0.003252	1.17E-03	1.30E-03	3.57E-03	1.17E-03	3.23E-04	6.35E-04	3.81E-04	2.50E-04	3.54E-04	1.74E-04
360	565601.5	4222685	0.002343	0.003099	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
361	565584.7	4222692	0.002114	0.002796	1.00E-03	1.12E-03	3.06E-03	1.00E-03	2.78E-04	5.46E-04	3.28E-04	2.15E-04	3.04E-04	1.49E-04

362	565559.5	4222702	0.001792	0.00237	8.49E-04	9.50E-04	2.60E-03	8.49E-04	2.35E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
363	565551.1	4222705	0.001694	0.00224	8.02E-04	8.98E-04	2.46E-03	8.02E-04	2.22E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
364	565729.8	4222477	0.006543	0.008654	3.10E-03	3.47E-03	9.49E-03	3.10E-03	8.59E-04	1.69E-03	1.01E-03	6.65E-04	9.41E-04	4.63E-04
365	565735.4	4222513	0.005982	0.007911	2.83E-03	3.17E-03	8.67E-03	2.83E-03	7.86E-04	1.55E-03	9.27E-04	6.08E-04	8.61E-04	4.23E-04
366	565728.2	4222529	0.005725	0.007571	2.71E-03	3.04E-03	8.30E-03	2.71E-03	7.52E-04	1.48E-03	8.87E-04	5.82E-04	8.24E-04	4.05E-04
367	565721	4222546	0.005533	0.007318	2.62E-03	2.93E-03	8.02E-03	2.62E-03	7.27E-04	1.43E-03	8.58E-04	5.62E-04	7.96E-04	3.91E-04
368	565713.8	4222562	0.005285	0.00699	2.50E-03	2.80E-03	7.66E-03	2.50E-03	6.94E-04	1.37E-03	8.19E-04	5.37E-04	7.60E-04	3.74E-04
369	565706.6	4222579	0.004988	0.006597	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.07E-04	7.18E-04	3.53E-04
370	565703	4222587	0.004823	0.006378	2.28E-03	2.56E-03	6.99E-03	2.28E-03	6.33E-04	1.25E-03	7.48E-04	4.90E-04	6.94E-04	3.41E-04
371	565695.8	4222603	0.004467	0.005908	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.15E-03	6.93E-04	4.54E-04	6.43E-04	3.16E-04
372	565688.6	4222620	0.00409	0.005409	1.94E-03	2.17E-03	5.93E-03	1.94E-03	5.37E-04	1.06E-03	6.34E-04	4.16E-04	5.88E-04	2.89E-04
373	565685	4222628	0.003819	0.00505	1.81E-03	2.02E-03	5.54E-03	1.81E-03	5.02E-04	9.87E-04	5.92E-04	3.88E-04	5.49E-04	2.70E-04
374	565677.8	4222644	0.003408	0.004507	1.61E-03	1.81E-03	4.94E-03	1.61E-03	4.48E-04	8.80E-04	5.28E-04	3.46E-04	4.90E-04	2.41E-04
375	565625.4	4222686	0.002467	0.003263	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.24E-04	6.37E-04	3.82E-04	2.51E-04	3.55E-04	1.74E-04
376	565617.1	4222689	0.002368	0.003131	1.12E-03	1.26E-03	3.43E-03	1.12E-03	3.11E-04	6.12E-04	3.67E-04	2.41E-04	3.41E-04	1.67E-04
377	565600.5	4222695	0.002153	0.002847	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.83E-04	5.56E-04	3.34E-04	2.19E-04	3.10E-04	1.52E-04
378	565592.2	4222699	0.002047	0.002707	9.70E-04	1.09E-03	2.97E-03	9.70E-04	2.69E-04	5.29E-04	3.17E-04	2.08E-04	2.94E-04	1.45E-04
379	565558.9	4222712	0.001653	0.002186	7.83E-04	8.76E-04	2.40E-03	7.83E-04	2.17E-04	4.27E-04	2.56E-04	1.68E-04	2.38E-04	1.17E-04
380	565550.6	4222715	0.001565	0.00207	7.41E-04	8.30E-04	2.27E-03	7.41E-04	2.06E-04	4.04E-04	2.43E-04	1.59E-04	2.25E-04	1.11E-04
381	565745.2	4222513	0.005759	0.007616	2.73E-03	3.05E-03	8.35E-03	2.73E-03	7.56E-04	1.49E-03	8.93E-04	5.85E-04	8.28E-04	4.07E-04
382	565741.6	4222521	0.0057	0.007538	2.70E-03	3.02E-03	8.26E-03	2.70E-03	7.49E-04	1.47E-03	8.84E-04	5.79E-04	8.20E-04	4.03E-04
383	565734.5	4222538	0.00554	0.007326	2.62E-03	2.94E-03	8.03E-03	2.62E-03	7.28E-04	1.43E-03	8.59E-04	5.63E-04	7.97E-04	3.92E-04
384	565730.9	4222546	0.005358	0.007086	2.54E-03	2.84E-03	7.77E-03	2.54E-03	7.04E-04	1.38E-03	8.31E-04	5.45E-04	7.71E-04	3.79E-04
385	565723.8	4222562	0.005142	0.0068	2.44E-03	2.73E-03	7.45E-03	2.44E-03	6.75E-04	1.33E-03	7.97E-04	5.23E-04	7.40E-04	3.64E-04
386	565716.7	4222578	0.004878	0.006451	2.31E-03	2.59E-03	7.07E-03	2.31E-03	6.41E-04	1.26E-03	7.56E-04	4.96E-04	7.02E-04	3.45E-04
387	565709.6	4222595	0.004571	0.006045	2.17E-03	2.42E-03	6.63E-03	2.17E-03	6.00E-04	1.18E-03	7.09E-04	4.65E-04	6.58E-04	3.23E-04
388	565702.4	4222611	0.004199	0.005554	1.99E-03	2.23E-03	6.09E-03	1.99E-03	5.52E-04	1.08E-03	6.51E-04	4.27E-04	6.04E-04	2.97E-04
389	565695.3	4222627	0.003812	0.005041	1.81E-03	2.02E-03	5.53E-03	1.81E-03	5.01E-04	9.85E-04	5.91E-04	3.87E-04	5.48E-04	2.70E-04
390	565665.6	4222679	0.002614	0.003457	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.66E-04	3.76E-04	1.85E-04
391	565566.6	4222719	0.001613	0.002133	7.64E-04	8.55E-04	2.34E-03	7.64E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
392	565550.1	4222725	0.001451	0.001919	6.87E-04	7.69E-04	2.10E-03	6.87E-04	1.91E-04	3.75E-04	2.25E-04	1.47E-04	2.09E-04	1.03E-04
393	565755.1	4222513	0.005545	0.007334	2.63E-03	2.94E-03	8.04E-03	2.63E-03	7.28E-04	1.43E-03	8.60E-04	5.64E-04	7.98E-04	3.92E-04
394	565748	4222530	0.005432	0.007184	2.57E-03	2.88E-03	7.88E-03	2.57E-03	7.13E-04	1.40E-03	8.42E-04	5.52E-04	7.81E-04	3.84E-04
395	565740.9	4222546	0.005268	0.006967	2.50E-03	2.79E-03	7.64E-03	2.50E-03	6.92E-04	1.36E-03	8.17E-04	5.35E-04	7.58E-04	3.73E-04
396	565737.4	4222554	0.005169	0.006836	2.45E-03	2.74E-03	7.49E-03	2.45E-03	6.79E-04	1.34E-03	8.01E-04	5.25E-04	7.44E-04	3.66E-04
397	565730.3	4222570	0.004886	0.006462	2.31E-03	2.59E-03	7.08E-03	2.31E-03	6.42E-04	1.26E-03	7.57E-04	4.97E-04	7.03E-04	3.46E-04
398	565723.2	4222586	0.004631	0.006124	2.19E-03	2.46E-03	6.71E-03	2.19E-03	6.08E-04	1.20E-03	7.18E-04	4.71E-04	6.66E-04	3.27E-04
399	565716.1	4222602	0.004327	0.005722	2.05E-03	2.29E-03	6.27E-03	2.05E-03	5.68E-04	1.12E-03	6.71E-04	4.40E-04	6.22E-04	3.06E-04
400	565694.9	4222651	0.003248	0.004295	1.54E-03	1.72E-03	4.71E-03	1.54E-03	4.26E-04	8.39E-04	5.03E-04	3.30E-04	4.67E-04	2.30E-04
401	565691.3	4222659	0.003071	0.004062	1.46E-03	1.63E-03	4.45E-03	1.46E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
402	565672.5	4222686	0.002489	0.003292	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.43E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
403	565656.1	4222693	0.002462	0.003256	1.17E-03	1.31E-03	3.57E-03	1.17E-03	3.23E-04	6.36E-04	3.82E-04	2.50E-04	3.54E-04	1.74E-04
404	565639.8	4222699	0.002285	0.003022	1.08E-03	1.21E-03	3.31E-03	1.08E-03	3.00E-04	5.90E-04	3.54E-04	2.32E-04	3.29E-04	1.62E-04
405	565557.8	4222732	0.001419	0.001876	6.72E-04	7.52E-04	2.06E-03	6.72E-04	1.86E-04	3.66E-04	2.20E-04	1.44E-04	2.04E-04	1.00E-04
406	565764.9	4222514	0.00534	0.007063	2.53E-03	2.83E-03	7.74E-03	2.53E-03	7.01E-04	1.38E-03	8.28E-04	5.43E-04	7.68E-04	3.78E-04
407	565757.9	4222530	0.005243	0.006934	2.48E-03	2.78E-03	7.60E-03	2.48E-03	6.89E-04	1.35E-03	8.13E-04	5.33E-04	7.54E-04	3.71E-04
408	565750.9	4222546	0.0051	0.006744	2.42E-03	2.70E-03	7.39E-03	2.42E-03	6.70E-04	1.32E-03	7.91E-04	5.18E-04	7.34E-04	3.61E-04
409	565743.8	4222562	0.004916	0.006501	2.33E-03	2.61E-03	7.13E-03	2.33E-03	6.46E-04	1.27E-03	7.62E-04	5.00E-04	7.07E-04	3.48E-04
410	565736.8	4222578	0.004688	0.006199	2.22E-03	2.49E-03	6.80E-03	2.22E-03	6.16E-04	1.21E-03	7.27E-04	4.76E-04	6.74E-04	3.32E-04
411	565729.8	4222594	0.004412	0.005835	2.09E-03	2.34E-03	6.40E-03	2.09E-03	5.79E-04	1.14E-03	6.84E-04	4.48E-04	6.35E-04	3.12E-04
412	565708.7	4222642	0.003422	0.004526	1.62E-03	1.81E-03	4.96E-03	1.62E-03	4.49E-04	8.84E-04	5.31E-04	3.48E-04	4.92E-04	2.42E-04
413	565701.6	4222658	0.003082	0.004076	1.46E-03	1.63E-03	4.47E-03	1.46E-03	4.05E-04	7.96E-04	4.78E-04	3.13E-04	4.43E-04	2.18E-04
414	565679.4	4222693	0.002369	0.003133	1.12E-03	1.26E-03	3.44E-03	1.12E-03	3.11E-04	6.12E-04	3.67E-04	2.41E-04	3.41E-04	1.68E-04
415	565663.2	4222700	0.002221	0.002937	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.44E-04	2.26E-04	3.19E-04	1.57E-04
416	565646.9	4222706	0.002199	0.002908	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.23E-04	3.16E-04	1.56E-04
417	565614.3	4222719	0.001856	0.002455	8.79E-04	9.84E-04	2.69E-03	8.79E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
418	565598	4222726	0.00169	0.002235	8.01E-04	8.96E-04	2.45E-03	8.01E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
419	565581.8	4222732	0.001533	0.002028	7.26E-04	8.13E-04	2.22E-03	7.26E-04	2.01E-04	3.96E-04	2.38E-04	1.56E-04	2.21E-04	1.08E-04
420	565565.5	4222739	0.001387	0.001834	6.57E-04	7.35E-04	2.01E-03	6.57E-04	1.82E-04	3.58E-04	2.15E-04	1.41E-04	1.99E-04	9.81E-05
421	565769.1	4222478	0.005496	0.007268	2.60E-03	2.91E-03	7.97E-03	2.60E-03	7.22E-04	1.42E-03	8.52E-04	5.58E-04	7.91E-04	3.89E-04
422	565767.8	4222530	0.005061	0.006693	2.40E-03	2.68E-03	7.34E-03	2.40E-03	6.65E-04	1.31E-03	7.85E-04	5.14E-04	7.28E-04	3.58E-04
423	565760.8	4222546	0.004933	0.006523	2.34E-03	2.62E-03	7.15E-03	2.34E-03	6.48E-04	1.27E-03	7.65E-04	5.01E-04	7.10E-04	3.49E-04
424	565753.8	4222562	0.004773	0.006313	2.26E-03	2.53E-03	6.92E-03	2.26E-03	6.27E-04	1.23E-03	7.40E-04	4.85E-04	6.87E-04	3.38E-04
425	565746.8	4222578	0.004571	0.006046	2.17E-03	2.42E-03	6.63E-03	2.17E-03	6.00E-04	1.18E-03	7.09E-04	4.65E-04	6.58E-04	3.23E-04
426	565725.9	4222625	0.003726	0.004927	1.77E-03	1.98E-03	5.40E-03	1.77E-03	4.89E-04	9.62E-04	5.78E-04	3.79E-04	5.36E-04	2.63E-04
427	565718.9	4222641	0.003405	0.004504	1.61E-03	1.81E-03	4.94E-03	1.61E-03	4.47E-04	8.80E-04	5.28E-04	3.46E-04	4.90E-04	2.41E-04
428	565711.9	4222657	0.00309	0.004086	1.46E-03	1.64E-03	4.48E-03	1.46E-03	4.06E-04	7.98E-04	4.79E-04	3.14E-04	4.44E-04	2.18E-04
429	565704.9	4222673	0.002771	0.003664	1.31E-03	1.47E-03	4.02E-03	1.31E-03	3.64E-04	7.16E-04	4.30E-04	2.82E-04	3.99E-04	1.96E-04
430	565686.3	4222700	0.002258	0.002986	1.07E-03	1.20E-03	3.27E-03	1.07E-03	2.96E-04	5.83E-04	3.50E-04	2.29E-04	3.25E-04	1.60E-04
431	565670.1	4222707	0.002118	0.0028	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.05E-04	1.50E-04
432	565654	4222713	0.001974	0.002611	9.35E-04	1.05E-03	2.86E-03	9.35E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
433	565621.6	4222726	0.001792	0.00237	8.49E-04	9.50E-04	2.60E-03	8.49E-04	2.35E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
434	565605.4	4222733	0.001642	0.002171	7.78E-04	8.70E-04	2.38E-03	7.78E-04	2.16E-04	4.24E-04	2.54E-04	1.67E-04	2.36E-04	1.16E-04
435	565589.3	4222739	0.001494	0.001975	7.08E-04	7.92E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
436	565778.5	4222497	0.005258	0.006954	2.49E-03	2.79E-03	7.62E-03	2.49E-03	6.91E-04	1.36E-03	8.15E-04	5.34E-04	7.56E-04	3.72E-04
437	565778.7	4222488	0.005339	0.007061	2.53E-03	2.83E-03	7.74E-03	2.53E-03	7.01E-04	1.38E-03	8.28E-04	5.43E-04	7.68E-04	3.78E-04
438	565778.9	4222479	0.00541	0.007155	2.56E-03	2.87E-03	7.84E-03	2.56E-03	7.11E-04	1.40E-03	8.39E-04	5.50E-04	7.78E-04	3.83E-04
439	565777.3	4222531	0.004881	0.006455	2.31E-03	2.59E-03	7.08E-03	2.31E-03	6.41E-04	1.26E-03	7.57E-04	4.96E-04	7.02E-04	3.45E-04
440	565770	4222547	0.004761	0.006296	2.26E-03	2.52E-03	6.90E-03	2.26E-03	6.25E-04	1.23E-03	7.38E-04	4.84E-04	6.85E-04	3.37E-04
441	565748.3	4222597	0.004174	0.00552	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.00E-04	2.95E-04
442	565741.1	4222613	0.003898	0.005154	1.85E-03	2.07E-03	5.65E-03	1.85E-03	5.12E-04	1.01E-03	6.04E-04	3.96E-04	5.61E-04	2.76E-04
443	565733.8	4222630	0.003586	0.004743	1.70E-03	1.90E-03	5.20E-03	1.70E-03	4.71E-04	9.26E-04	5.56E-04	3.64E-04	5.16E-04	2.54E-04
444	565726.6	4222646	0.003279	0.004336	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.31E-04	8.47E-04	5.08E-04	3.33E-04	4.72E-04	2.32E-04
445	565719.3	4222663	0.002972	0.003931	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.90E-04	7.68E-04	4.61E-04	3.02E-04	4.28E-04	2.10E-04
446	565712.1	4222679	0.002656	0.003512	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.49E-04	6.86E-04	4.12E-04	2.70E-04	3.82E-04	1.88E-04
447	565692.9	4222708	0.002151	0.002844	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.82E-04	5.56E-04	3.33E-04	2.19E-04	3.09E-04	1.52E-04
448	565684.5	4222711	0.002083	0.002754	9.87E-04	1.10E-03	3.02E-03	9.87E-04	2.73E-04	5.38E-04	3.23E-04	2.12E-04	3.00E-04	1.47E-04
449	565676.1	4222714	0.002013	0.002662	9.54E-04	1.07E-03	2.92E-03	9.54E-04	2.64E-04	5.20E-04	3.12E-04	2.05E-04	2.90E-04	1.42E-04
450	565659.4	4222721	0.001872	0.002476	8.87E-04	9.92E-04	2.71E-03	8.87E-04	2.46E-04	4.84E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
451	565651	4222724	0.001802	0.002383	8.54E-04	9.55E-04	2.61E-03	8.54E-04	2.37E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
452	565625.9	4222734	0.001563	0.002067	7.41E-04	8.29E-04	2.27E-03	7.41E-04	2.05E-04	4.04E-04	2.42E-04	1.59E-04	2.25E-04	1.11E-04

453	565609.1	4222741	0.001563	0.002067	7.40E-04	8.29E-04	2.27E-03	7.40E-04	2.05E-04	4.04E-04	2.42E-04	1.59E-04	2.25E-04	1.11E-04
454	565600.7	4222744	0.00149	0.00197	7.06E-04	7.90E-04	2.16E-03	7.06E-04	1.96E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
455	565584	4222751	0.001351	0.001786	6.40E-04	7.16E-04	1.96E-03	6.40E-04	1.77E-04	3.49E-04	2.09E-04	1.37E-04	1.94E-04	9.55E-05
456	565788.1	4222506	0.004975	0.006579	2.36E-03	2.64E-03	7.21E-03	2.36E-03	6.53E-04	1.29E-03	7.71E-04	5.06E-04	7.16E-04	3.52E-04
457	565788.3	4222497	0.005056	0.006687	2.40E-03	2.68E-03	7.33E-03	2.40E-03	6.64E-04	1.31E-03	7.84E-04	5.14E-04	7.27E-04	3.58E-04
458	565788.6	4222488	0.00513	0.006784	2.43E-03	2.72E-03	7.44E-03	2.43E-03	6.74E-04	1.33E-03	7.95E-04	5.21E-04	7.38E-04	3.63E-04
459	565788.8	4222479	0.005194	0.006868	2.46E-03	2.75E-03	7.53E-03	2.46E-03	6.82E-04	1.34E-03	8.05E-04	5.28E-04	7.47E-04	3.67E-04
460	565762	4222588	0.004196	0.005549	1.99E-03	2.22E-03	6.08E-03	1.99E-03	5.51E-04	1.08E-03	6.50E-04	4.26E-04	6.04E-04	2.97E-04
461	565754.8	4222605	0.003963	0.005241	1.88E-03	2.10E-03	5.75E-03	1.88E-03	5.20E-04	1.02E-03	6.14E-04	4.03E-04	5.70E-04	2.80E-04
462	565751.2	4222613	0.003834	0.00507	1.82E-03	2.03E-03	5.56E-03	1.82E-03	5.04E-04	9.90E-04	5.94E-04	3.90E-04	5.51E-04	2.71E-04
463	565736.8	4222646	0.003261	0.004313	1.55E-03	1.73E-03	4.73E-03	1.55E-03	4.28E-04	8.43E-04	5.06E-04	3.31E-04	4.69E-04	2.31E-04
464	565733.3	4222654	0.003121	0.004127	1.48E-03	1.65E-03	4.52E-03	1.48E-03	4.10E-04	8.06E-04	4.84E-04	3.17E-04	4.49E-04	2.21E-04
465	565726.1	4222670	0.002829	0.003741	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.71E-04	7.31E-04	4.38E-04	2.87E-04	4.07E-04	2.00E-04
466	565718.9	4222687	0.002527	0.003341	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.32E-04	6.53E-04	3.92E-04	2.57E-04	3.63E-04	1.79E-04
467	565699.8	4222715	0.002053	0.002716	9.73E-04	1.09E-03	2.98E-03	9.73E-04	2.70E-04	5.30E-04	3.18E-04	2.09E-04	2.95E-04	1.45E-04
468	565691.4	4222718	0.001989	0.002631	9.42E-04	1.05E-03	2.88E-03	9.42E-04	2.61E-04	5.14E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
469	565683.1	4222721	0.001924	0.002544	9.11E-04	1.02E-03	2.79E-03	9.11E-04	2.53E-04	4.97E-04	2.98E-04	1.96E-04	2.77E-04	1.36E-04
470	565666.5	4222728	0.001791	0.002368	8.48E-04	9.50E-04	2.60E-03	8.48E-04	2.35E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
471	565658.2	4222731	0.001725	0.002281	8.17E-04	9.15E-04	2.50E-03	8.17E-04	2.27E-04	4.46E-04	2.67E-04	1.75E-04	2.48E-04	1.22E-04
472	565624.9	4222745	0.001438	0.001902	6.81E-04	7.62E-04	2.08E-03	6.81E-04	1.89E-04	3.72E-04	2.23E-04	1.46E-04	2.07E-04	1.02E-04
473	565616.6	4222748	0.001522	0.002013	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
474	565599.9	4222755	0.001386	0.001832	6.56E-04	7.35E-04	2.01E-03	6.56E-04	1.82E-04	3.58E-04	2.15E-04	1.41E-04	1.99E-04	9.80E-05
475	565591.6	4222758	0.001321	0.001747	6.26E-04	7.00E-04	1.92E-03	6.26E-04	1.73E-04	3.41E-04	2.05E-04	1.34E-04	1.90E-04	9.34E-05
476	565798.2	4222497	0.004861	0.006429	2.30E-03	2.58E-03	7.05E-03	2.30E-03	6.38E-04	1.26E-03	7.54E-04	4.94E-04	6.99E-04	3.44E-04
477	565798.4	4222488	0.004926	0.006515	2.33E-03	2.61E-03	7.14E-03	2.33E-03	6.47E-04	1.27E-03	7.64E-04	5.01E-04	7.09E-04	3.48E-04
478	565798.6	4222479	0.004985	0.006592	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.07E-04	7.17E-04	3.53E-04
479	565804.2	4222515	0.004603	0.006087	2.18E-03	2.44E-03	6.67E-03	2.18E-03	6.04E-04	1.19E-03	7.14E-04	4.68E-04	6.62E-04	3.26E-04
480	565779.2	4222572	0.004268	0.005644	2.02E-03	2.26E-03	6.19E-03	2.02E-03	5.61E-04	1.10E-03	6.62E-04	4.34E-04	6.14E-04	3.02E-04
481	565775.6	4222580	0.004187	0.005537	1.98E-03	2.22E-03	6.07E-03	1.98E-03	5.50E-04	1.08E-03	6.49E-04	4.25E-04	6.02E-04	2.96E-04
482	565768.5	4222596	0.003993	0.005281	1.89E-03	2.12E-03	5.79E-03	1.89E-03	5.24E-04	1.03E-03	6.19E-04	4.06E-04	5.74E-04	2.82E-04
483	565764.9	4222604	0.003882	0.005135	1.84E-03	2.06E-03	5.63E-03	1.84E-03	5.10E-04	1.00E-03	6.02E-04	3.95E-04	5.58E-04	2.75E-04
484	565757.8	4222621	0.003641	0.004815	1.73E-03	1.93E-03	5.28E-03	1.73E-03	4.78E-04	9.41E-04	5.64E-04	3.70E-04	5.24E-04	2.58E-04
485	565754.2	4222629	0.00351	0.004642	1.66E-03	1.86E-03	5.09E-03	1.66E-03	4.61E-04	9.07E-04	5.44E-04	3.57E-04	5.05E-04	2.48E-04
486	565747.1	4222645	0.00324	0.004285	1.53E-03	1.72E-03	4.70E-03	1.53E-03	4.25E-04	8.37E-04	5.02E-04	3.29E-04	4.66E-04	2.29E-04
487	565739.9	4222661	0.002973	0.003931	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.90E-04	7.68E-04	4.61E-04	3.02E-04	4.28E-04	2.10E-04
488	565732.8	4222678	0.002688	0.003555	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
489	565729.2	4222686	0.002544	0.003364	1.21E-03	1.35E-03	3.69E-03	1.21E-03	3.34E-04	6.57E-04	3.94E-04	2.58E-04	3.66E-04	1.80E-04
490	565706.7	4222722	0.001962	0.002595	9.30E-04	1.04E-03	2.85E-03	9.30E-04	2.58E-04	5.07E-04	3.04E-04	1.99E-04	2.82E-04	1.39E-04
491	565690.1	4222728	0.00184	0.002434	8.72E-04	9.76E-04	2.67E-03	8.72E-04	2.42E-04	4.75E-04	2.85E-04	1.87E-04	2.65E-04	1.30E-04
492	565673.6	4222735	0.001716	0.002269	8.13E-04	9.10E-04	2.49E-03	8.13E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
493	565640.5	4222748	0.001466	0.001939	6.95E-04	7.77E-04	2.13E-03	6.95E-04	1.93E-04	3.79E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
494	565624	4222755	0.001326	0.001754	6.28E-04	7.03E-04	1.92E-03	6.28E-04	1.74E-04	3.43E-04	2.06E-04	1.35E-04	1.91E-04	9.38E-05
495	565607.5	4222761	0.001353	0.001789	6.41E-04	7.17E-04	1.96E-03	6.41E-04	1.78E-04	3.50E-04	2.10E-04	1.37E-04	1.95E-04	9.57E-05
496	565590.9	4222768	0.001233	0.001631	5.84E-04	6.54E-04	1.79E-03	5.84E-04	1.62E-04	3.19E-04	1.91E-04	1.25E-04	1.77E-04	8.72E-05
497	565557.9	4222781	0.001027	0.001359	4.87E-04	5.45E-04	1.49E-03	4.87E-04	1.35E-04	2.65E-04	1.59E-04	1.04E-04	1.48E-04	7.27E-05
498	565808	4222497	0.004669	0.006175	2.21E-03	2.48E-03	6.77E-03	2.21E-03	6.13E-04	1.21E-03	7.24E-04	4.75E-04	6.72E-04	3.30E-04
499	565808.2	4222488	0.004724	0.006247	2.24E-03	2.50E-03	6.85E-03	2.24E-03	6.20E-04	1.22E-03	7.32E-04	4.80E-04	6.79E-04	3.34E-04
500	565808.4	4222479	0.004779	0.00632	2.26E-03	2.53E-03	6.93E-03	2.26E-03	6.28E-04	1.23E-03	7.41E-04	4.86E-04	6.87E-04	3.38E-04
501	565824.3	4222515	0.004274	0.005653	2.03E-03	2.27E-03	6.20E-03	2.03E-03	5.61E-04	1.10E-03	6.63E-04	4.34E-04	6.15E-04	3.02E-04
502	565817.2	4222531	0.004246	0.005615	2.01E-03	2.25E-03	6.16E-03	2.01E-03	5.58E-04	1.10E-03	6.58E-04	4.31E-04	6.11E-04	3.00E-04
503	565803.1	4222563	0.004083	0.0054	1.93E-03	2.16E-03	5.92E-03	1.93E-03	5.36E-04	1.05E-03	6.33E-04	4.15E-04	5.87E-04	2.89E-04
504	565796	4222580	0.003954	0.00523	1.87E-03	2.10E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.13E-04	4.02E-04	5.69E-04	2.80E-04
505	565788.9	4222596	0.003809	0.005037	1.80E-03	2.02E-03	5.52E-03	1.80E-03	5.00E-04	9.84E-04	5.90E-04	3.87E-04	5.48E-04	2.69E-04
506	565785.4	4222604	0.003724	0.004924	1.76E-03	1.97E-03	5.40E-03	1.76E-03	4.89E-04	9.62E-04	5.77E-04	3.78E-04	5.36E-04	2.63E-04
507	565778.3	4222620	0.003522	0.004658	1.67E-03	1.87E-03	5.11E-03	1.67E-03	4.63E-04	9.10E-04	5.46E-04	3.58E-04	5.07E-04	2.49E-04
508	565771.2	4222636	0.003297	0.00436	1.56E-03	1.75E-03	4.78E-03	1.56E-03	4.33E-04	8.52E-04	5.11E-04	3.35E-04	4.74E-04	2.33E-04
509	565757.1	4222668	0.002813	0.00372	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.69E-04	7.27E-04	4.36E-04	2.86E-04	4.05E-04	1.99E-04
510	565750	4222684	0.00256	0.003385	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
511	565743	4222701	0.002307	0.003051	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.03E-04	5.96E-04	3.58E-04	2.34E-04	3.32E-04	1.63E-04
512	565720.7	4222736	0.001799	0.002379	8.52E-04	9.54E-04	2.61E-03	8.52E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
513	565704.3	4222743	0.001687	0.002231	7.99E-04	8.94E-04	2.45E-03	7.99E-04	2.22E-04	4.36E-04	2.62E-04	1.71E-04	2.43E-04	1.19E-04
514	565687.9	4222749	0.001576	0.002084	7.46E-04	8.35E-04	2.28E-03	7.46E-04	2.07E-04	4.07E-04	2.44E-04	1.60E-04	2.27E-04	1.11E-04
515	565655.2	4222762	0.001358	0.001796	6.44E-04	7.20E-04	1.97E-03	6.44E-04	1.78E-04	3.51E-04	2.11E-04	1.38E-04	1.95E-04	9.61E-05
516	565638.9	4222769	0.001251	0.001654	5.93E-04	6.63E-04	1.81E-03	5.93E-04	1.64E-04	3.23E-04	1.94E-04	1.27E-04	1.80E-04	8.84E-05
517	565622.5	4222775	0.001135	0.001501	5.38E-04	6.02E-04	1.64E-03	5.38E-04	1.49E-04	2.93E-04	1.76E-04	1.15E-04	1.63E-04	8.02E-05
518	565606.2	4222782	0.001179	0.001559	5.59E-04	6.25E-04	1.71E-03	5.59E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.34E-05
519	565589.8	4222788	0.001081	0.001429	5.12E-04	5.73E-04	1.57E-03	5.12E-04	1.42E-04	2.79E-04	1.68E-04	1.10E-04	1.55E-04	7.64E-05
520	565557.1	4222801	0.000911	0.001205	4.32E-04	4.83E-04	1.32E-03	4.32E-04	1.20E-04	2.35E-04	1.41E-04	9.26E-05	1.31E-04	6.44E-05
521	565828	4222498	0.004303	0.005691	2.04E-03	2.28E-03	6.24E-03	2.04E-03	5.65E-04	1.11E-03	6.67E-04	4.37E-04	6.19E-04	3.04E-04
522	565828.2	4222489	0.004337	0.005735	2.05E-03	2.30E-03	6.29E-03	2.05E-03	5.70E-04	1.12E-03	6.72E-04	4.41E-04	6.24E-04	3.07E-04
523	565828.4	4222480	0.004383	0.005797	2.08E-03	2.32E-03	6.35E-03	2.08E-03	5.76E-04	1.13E-03	6.79E-04	4.45E-04	6.30E-04	3.10E-04
524	565844.2	4222516	0.003958	0.005235	1.88E-03	2.10E-03	5.74E-03	1.88E-03	5.20E-04	1.02E-03	6.14E-04	4.02E-04	5.69E-04	2.80E-04
525	565840.5	4222524	0.003968	0.005248	1.88E-03	2.10E-03	5.75E-03	1.88E-03	5.21E-04	1.03E-03	6.15E-04	4.03E-04	5.71E-04	2.81E-04
526	565833.3	4222541	0.003951	0.005225	1.87E-03	2.09E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.12E-04	4.02E-04	5.68E-04	2.79E-04
527	565829.7	4222549	0.003922	0.005186	1.86E-03	2.08E-03	5.69E-03	1.86E-03	5.15E-04	1.01E-03	6.08E-04	3.99E-04	5.64E-04	2.77E-04
528	565815.2	4222582	0.003722	0.004923	1.76E-03	1.97E-03	5.40E-03	1.76E-03	4.89E-04	9.62E-04	5.77E-04	3.78E-04	5.35E-04	2.63E-04
529	565807.9	4222598	0.003592	0.00475	1.70E-03	1.90E-03	5.21E-03	1.70E-03	4.72E-04	9.28E-04	5.57E-04	3.65E-04	5.17E-04	2.54E-04
530	565800.7	4222615	0.003438	0.004546	1.63E-03	1.82E-03	4.98E-03	1.63E-03	4.51E-04	8.88E-04	5.33E-04	3.49E-04	4.95E-04	2.43E-04
531	565793.4	4222631	0.003252	0.0043	1.54E-03	1.72E-03	4.71E-03	1.54E-03	4.27E-04	8.40E-04	5.04E-04	3.30E-04	4.68E-04	2.30E-04
532	565786.2	4222648	0.003042	0.004023	1.44E-03	1.61E-03	4.41E-03	1.44E-03	3.99E-04	7.86E-04	4.72E-04	3.09E-04	4.38E-04	2.15E-04
533	565775.3	4222673	0.002703	0.003575	1.28E-03	1.43E-03	3.92E-03	1.28E-03	3.55E-04	6.98E-04	4.19E-04	2.75E-04	3.89E-04	1.91E-04
534	565768.1	4222689	0.00247	0.003267	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.24E-04	6.38E-04	3.83E-04	2.51E-04	3.55E-04	1.75E-04
535	565760.8	4222706	0.002239	0.002961	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
536	565753.6	4222722	0.002014	0.002664	9.54E-04	1.07E-03	2.92E-03	9.54E-04	2.64E-04	5.20E-04	3.12E-04	2.05E-04	2.90E-04	1.42E-04
537	565734.4	4222751	0.001663	0.002199	7.88E-04	8.82E-04	2.41E-03	7.88E-04	2.18E-04	4.30E-04	2.58E-04	1.69E-04	2.39E-04	1.18E-04
538	565726	4222754	0.001611	0.00213	7.63E-04	8.54E-04	2.34E-03	7.63E-04	2.12E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
539	565709.2	4222761	0.001499	0.001982	7.10E-04	7.95E-04	2.17E-03	7.10E-04	1.97E-04	3.87E-04	2.32E-04	1.52E-04	2.16E-04	1.06E-04
540	565700.8	4222764	0.001444	0.00191	6.84E-04	7.66E-04	2.09E-03	6.84E-04	1.90E-04	3.73E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
541	565667.3	4222777	0.001244	0.001645	5.89E-04	6.59E-04	1.80E-03	5.89E-04	1.63E-04	3.21E-04	1.93E-04	1.26E-04	1.79E-04	8.80E-05
542	565650.5	4222784	0.001151	0.001523	5.45E-04	6.10E-04	1.67E-03	5.45E-04	1.51E-04	2.97E-04	1.78E-04	1.17E-04	1.66E-04	8.14E-05
543	565642.1	4222787	0.001106	0.001463	5.24E-04	5.86E-04	1.60E-03	5.24E-04	1.45E-04	2.86E-04	1.71E-04	1.12E-04	1.59E-04	7.82E-05

544	565625.4	4222794	0.001004	0.001328	4.76E-04	5.32E-04	1.46E-03	4.76E-04	1.32E-04	2.59E-04	1.56E-04	1.02E-04	1.44E-04	7.10E-05
545	565617	4222797	0.000987	0.001305	4.68E-04	5.23E-04	1.43E-03	4.68E-04	1.30E-04	2.55E-04	1.53E-04	1.00E-04	1.42E-04	6.98E-05
546	565558.3	4222821	0.000747	0.000988	3.54E-04	3.96E-04	1.08E-03	3.54E-04	9.81E-05	1.93E-04	1.16E-04	7.59E-05	1.07E-04	5.28E-05
547	565848	4222498	0.00398	0.005263	1.89E-03	2.11E-03	5.77E-03	1.89E-03	5.23E-04	1.03E-03	6.17E-04	4.04E-04	5.72E-04	2.81E-04
548	565848.2	4222489	0.00401	0.005303	1.90E-03	2.13E-03	5.81E-03	1.90E-03	5.27E-04	1.04E-03	6.22E-04	4.08E-04	5.77E-04	2.84E-04
549	565848.4	4222480	0.004045	0.005349	1.92E-03	2.14E-03	5.86E-03	1.92E-03	5.31E-04	1.04E-03	6.27E-04	4.11E-04	5.82E-04	2.86E-04
550	565864.2	4222516	0.003686	0.004874	1.75E-03	1.95E-03	5.34E-03	1.75E-03	4.84E-04	9.52E-04	5.71E-04	3.75E-04	5.30E-04	2.61E-04
551	565860.6	4222524	0.003703	0.004897	1.75E-03	1.96E-03	5.37E-03	1.75E-03	4.86E-04	9.57E-04	5.74E-04	3.76E-04	5.33E-04	2.62E-04
552	565853.4	4222541	0.003718	0.004918	1.76E-03	1.97E-03	5.39E-03	1.76E-03	4.88E-04	9.61E-04	5.76E-04	3.78E-04	5.35E-04	2.63E-04
553	565849.9	4222549	0.003706	0.004902	1.76E-03	1.97E-03	5.37E-03	1.76E-03	4.87E-04	9.57E-04	5.75E-04	3.77E-04	5.33E-04	2.62E-04
554	565831.9	4222590	0.003484	0.004607	1.65E-03	1.85E-03	5.05E-03	1.65E-03	4.58E-04	9.00E-04	5.40E-04	3.54E-04	5.01E-04	2.46E-04
555	565828.3	4222598	0.003418	0.00452	1.62E-03	1.81E-03	4.95E-03	1.62E-03	4.49E-04	8.83E-04	5.30E-04	3.47E-04	4.92E-04	2.42E-04
556	565821.2	4222614	0.003282	0.00434	1.55E-03	1.74E-03	4.76E-03	1.55E-03	4.31E-04	8.48E-04	5.09E-04	3.33E-04	4.72E-04	2.32E-04
557	565814	4222631	0.003139	0.004151	1.49E-03	1.66E-03	4.55E-03	1.49E-03	4.12E-04	8.11E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04
558	565810.4	4222639	0.003056	0.004041	1.45E-03	1.62E-03	4.43E-03	1.45E-03	4.01E-04	7.89E-04	4.74E-04	3.11E-04	4.40E-04	2.16E-04
559	565803.2	4222655	0.00287	0.003795	1.36E-03	1.52E-03	4.16E-03	1.36E-03	3.77E-04	7.41E-04	4.45E-04	2.92E-04	4.13E-04	2.03E-04
560	565799.7	4222663	0.002772	0.003666	1.31E-03	1.47E-03	4.02E-03	1.31E-03	3.64E-04	7.16E-04	4.30E-04	2.82E-04	3.99E-04	1.96E-04
561	565788.9	4222688	0.002466	0.003261	1.17E-03	1.31E-03	3.57E-03	1.17E-03	3.24E-04	6.37E-04	3.82E-04	2.51E-04	3.55E-04	1.74E-04
562	565781.7	4222704	0.002257	0.002985	1.07E-03	1.20E-03	3.27E-03	1.07E-03	2.96E-04	5.83E-04	3.50E-04	2.29E-04	3.25E-04	1.60E-04
563	565774.6	4222721	0.002051	0.002712	9.71E-04	1.09E-03	2.97E-03	9.71E-04	2.69E-04	5.30E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
564	565771	4222729	0.001949	0.002578	9.24E-04	1.03E-03	2.83E-03	9.24E-04	2.56E-04	5.04E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
565	565748.3	4222765	0.001534	0.002029	7.27E-04	8.13E-04	2.22E-03	7.27E-04	2.01E-04	3.96E-04	2.38E-04	1.56E-04	2.21E-04	1.08E-04
566	565731.7	4222771	0.001444	0.00191	6.84E-04	7.66E-04	2.09E-03	6.84E-04	1.90E-04	3.73E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
567	565723.5	4222775	0.001394	0.001843	6.60E-04	7.39E-04	2.02E-03	6.60E-04	1.83E-04	3.60E-04	2.16E-04	1.42E-04	2.00E-04	9.86E-05
568	565706.9	4222781	0.001292	0.001709	6.12E-04	6.85E-04	1.87E-03	6.12E-04	1.70E-04	3.34E-04	2.00E-04	1.31E-04	1.86E-04	9.14E-05
569	565682	4222791	0.001158	0.001531	5.49E-04	6.14E-04	1.68E-03	5.49E-04	1.52E-04	2.99E-04	1.80E-04	1.18E-04	1.67E-04	8.19E-05
570	565665.4	4222798	0.001074	0.00142	5.09E-04	5.69E-04	1.56E-03	5.09E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.59E-05
571	565657.1	4222801	0.001034	0.001368	4.90E-04	5.48E-04	1.50E-03	4.90E-04	1.36E-04	2.67E-04	1.60E-04	1.05E-04	1.49E-04	7.31E-05
572	565640.5	4222808	0.000957	0.001266	4.53E-04	5.07E-04	1.39E-03	4.53E-04	1.26E-04	2.47E-04	1.48E-04	9.73E-05	1.38E-04	6.77E-05
573	565607.3	4222821	0.000818	0.001082	3.87E-04	4.34E-04	1.19E-03	3.87E-04	1.07E-04	2.11E-04	1.27E-04	8.31E-05	1.18E-04	5.78E-05
574	565599	4222824	0.000788	0.001042	3.73E-04	4.18E-04	1.14E-03	3.73E-04	1.03E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.57E-05
575	565557.5	4222841	0.000675	0.000893	3.20E-04	3.58E-04	9.79E-04	3.20E-04	8.86E-05	1.74E-04	1.05E-04	6.86E-05	9.71E-05	4.77E-05
576	565868	4222499	0.003707	0.004902	1.76E-03	1.97E-03	5.37E-03	1.76E-03	4.87E-04	9.58E-04	5.75E-04	3.77E-04	5.33E-04	2.62E-04
577	565868.2	4222490	0.003733	0.004936	1.77E-03	1.98E-03	5.41E-03	1.77E-03	4.90E-04	9.64E-04	5.79E-04	3.79E-04	5.37E-04	2.64E-04
578	565868.4	4222481	0.00376	0.004972	1.78E-03	1.99E-03	5.45E-03	1.78E-03	4.94E-04	9.71E-04	5.83E-04	3.82E-04	5.41E-04	2.66E-04
579	565884.2	4222517	0.003455	0.004569	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.92E-04	5.36E-04	3.51E-04	4.97E-04	2.44E-04
580	565877.1	4222533	0.003481	0.004603	1.65E-03	1.85E-03	5.05E-03	1.65E-03	4.57E-04	8.99E-04	5.40E-04	3.54E-04	5.01E-04	2.46E-04
581	565873.6	4222541	0.003486	0.004611	1.65E-03	1.85E-03	5.05E-03	1.65E-03	4.58E-04	9.01E-04	5.40E-04	3.54E-04	5.01E-04	2.47E-04
582	565866.5	4222557	0.003466	0.004584	1.64E-03	1.84E-03	5.02E-03	1.64E-03	4.55E-04	8.95E-04	5.37E-04	3.52E-04	4.99E-04	2.45E-04
583	565859.4	4222573	0.003414	0.004515	1.62E-03	1.81E-03	4.95E-03	1.62E-03	4.48E-04	8.82E-04	5.29E-04	3.47E-04	4.91E-04	2.41E-04
584	565845.1	4222606	0.003226	0.004267	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.33E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
585	565841.6	4222614	0.003161	0.00418	1.50E-03	1.68E-03	4.58E-03	1.50E-03	4.15E-04	8.17E-04	4.90E-04	3.21E-04	4.55E-04	2.24E-04
586	565834.5	4222630	0.003024	0.003999	1.43E-03	1.60E-03	4.38E-03	1.43E-03	3.97E-04	7.81E-04	4.69E-04	3.07E-04	4.35E-04	2.14E-04
587	565827.4	4222646	0.002876	0.003803	1.36E-03	1.52E-03	4.17E-03	1.36E-03	3.78E-04	7.43E-04	4.46E-04	2.92E-04	4.14E-04	2.03E-04
588	565823.8	4222654	0.002795	0.003696	1.32E-03	1.48E-03	4.05E-03	1.32E-03	3.67E-04	7.22E-04	4.33E-04	2.84E-04	4.02E-04	1.98E-04
589	565816.7	4222671	0.002621	0.003466	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.44E-04	6.77E-04	4.06E-04	2.66E-04	3.77E-04	1.85E-04
590	565799	4222711	0.002158	0.002854	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.53E-04
591	565791.9	4222727	0.001976	0.002613	9.36E-04	1.05E-03	2.86E-03	9.36E-04	2.60E-04	5.11E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
592	565784.8	4222743	0.001794	0.002373	8.50E-04	9.51E-04	2.60E-03	8.50E-04	2.36E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
593	565762.3	4222779	0.001414	0.00187	6.70E-04	7.50E-04	2.05E-03	6.70E-04	1.86E-04	3.65E-04	2.19E-04	1.44E-04	2.03E-04	1.00E-04
594	565745.9	4222786	0.001336	0.001767	6.33E-04	7.08E-04	1.94E-03	6.33E-04	1.75E-04	3.45E-04	2.07E-04	1.36E-04	1.92E-04	9.45E-05
595	565729.4	4222792	0.001254	0.001658	5.94E-04	6.65E-04	1.82E-03	5.94E-04	1.65E-04	3.24E-04	1.94E-04	1.27E-04	1.80E-04	8.87E-05
596	565696.6	4222805	0.001087	0.001438	5.15E-04	5.76E-04	1.58E-03	5.15E-04	1.43E-04	2.81E-04	1.69E-04	1.10E-04	1.56E-04	7.69E-05
597	565680.1	4222812	0.001007	0.001332	4.77E-04	5.34E-04	1.46E-03	4.77E-04	1.32E-04	2.60E-04	1.56E-04	1.02E-04	1.45E-04	7.12E-05
598	565663.7	4222819	0.000935	0.001236	4.43E-04	4.96E-04	1.36E-03	4.43E-04	1.23E-04	2.41E-04	1.45E-04	9.50E-05	1.34E-04	6.61E-05
599	565647.2	4222825	0.00087	0.001151	4.12E-04	4.61E-04	1.26E-03	4.12E-04	1.14E-04	2.25E-04	1.35E-04	8.84E-05	1.25E-04	6.15E-05
600	565614.4	4222838	0.00075	0.000992	3.55E-04	3.98E-04	1.09E-03	3.55E-04	9.85E-05	1.94E-04	1.16E-04	7.62E-05	1.08E-04	5.30E-05
601	565556.8	4222861	0.00061	0.000807	2.89E-04	3.24E-04	8.85E-04	2.89E-04	8.02E-05	1.58E-04	9.46E-05	6.20E-05	8.78E-05	4.32E-05
602	565888	4222499	0.003466	0.004584	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.55E-04	8.95E-04	5.37E-04	3.52E-04	4.99E-04	2.45E-04
603	565888.2	4222490	0.003488	0.004613	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.01E-04	5.41E-04	3.54E-04	5.02E-04	2.47E-04
604	565888.4	4222481	0.00351	0.004642	1.66E-03	1.86E-03	5.09E-03	1.66E-03	4.61E-04	9.07E-04	5.44E-04	3.57E-04	5.05E-04	2.48E-04
605	565904.1	4222517	0.003227	0.004268	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.34E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
606	565900.5	4222525	0.003247	0.004294	1.54E-03	1.72E-03	4.71E-03	1.54E-03	4.26E-04	8.39E-04	5.03E-04	3.30E-04	4.67E-04	2.30E-04
607	565893.3	4222542	0.003271	0.004326	1.55E-03	1.73E-03	4.74E-03	1.55E-03	4.30E-04	8.45E-04	5.07E-04	3.32E-04	4.71E-04	2.31E-04
608	565889.6	4222550	0.003269	0.004324	1.55E-03	1.73E-03	4.74E-03	1.55E-03	4.29E-04	8.45E-04	5.07E-04	3.32E-04	4.70E-04	2.31E-04
609	565882.4	4222567	0.003239	0.004283	1.53E-03	1.72E-03	4.70E-03	1.53E-03	4.25E-04	8.37E-04	5.02E-04	3.29E-04	4.66E-04	2.29E-04
610	565875.1	4222583	0.003191	0.00422	1.51E-03	1.69E-03	4.63E-03	1.51E-03	4.19E-04	8.24E-04	4.95E-04	3.24E-04	4.59E-04	2.26E-04
611	565860.6	4222616	0.003016	0.003989	1.43E-03	1.60E-03	4.37E-03	1.43E-03	3.96E-04	7.79E-04	4.68E-04	3.07E-04	4.34E-04	2.13E-04
612	565857	4222625	0.002951	0.003903	1.40E-03	1.56E-03	4.28E-03	1.40E-03	3.88E-04	7.62E-04	4.58E-04	3.00E-04	4.25E-04	2.09E-04
613	565849.7	4222641	0.002813	0.00372	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.69E-04	7.27E-04	4.36E-04	2.86E-04	4.05E-04	1.99E-04
614	565842.5	4222658	0.002672	0.003534	1.27E-03	1.42E-03	3.87E-03	1.27E-03	3.51E-04	6.90E-04	4.14E-04	2.72E-04	3.84E-04	1.89E-04
615	565835.2	4222674	0.00251	0.003319	1.19E-03	1.33E-03	3.64E-03	1.19E-03	3.30E-04	6.48E-04	3.89E-04	2.55E-04	3.61E-04	1.77E-04
616	565828	4222691	0.002329	0.00308	1.10E-03	1.23E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
617	565824.3	4222699	0.002239	0.002962	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
618	565817.1	4222716	0.002073	0.002742	9.82E-04	1.10E-03	3.01E-03	9.82E-04	2.72E-04	5.36E-04	3.21E-04	2.11E-04	2.98E-04	1.47E-04
619	565809.8	4222732	0.001906	0.002521	9.03E-04	1.01E-03	2.76E-03	9.03E-04	2.50E-04	4.92E-04	2.95E-04	1.94E-04	2.74E-04	1.35E-04
620	565802.6	4222749	0.001742	0.002303	8.25E-04	9.23E-04	2.52E-03	8.25E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
621	565795.3	4222765	0.001582	0.002093	7.50E-04	8.39E-04	2.29E-03	7.50E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
622	565776.1	4222794	0.001318	0.001743	6.24E-04	6.99E-04	1.91E-03	6.24E-04	1.73E-04	3.41E-04	2.04E-04	1.34E-04	1.90E-04	9.32E-05
623	565767.7	4222797	0.00128	0.001692	6.06E-04	6.78E-04	1.86E-03	6.06E-04	1.68E-04	3.31E-04	1.98E-04	1.30E-04	1.84E-04	9.05E-05
624	565759.3	4222800	0.001242	0.001642	5.88E-04	6.58E-04	1.80E-03	5.88E-04	1.63E-04	3.21E-04	1.93E-04	1.26E-04	1.79E-04	8.78E-05
625	565742.5	4222807	0.001165	0.00154	5.52E-04	6.17E-04	1.69E-03	5.52E-04	1.53E-04	3.01E-04	1.81E-04	1.18E-04	1.68E-04	8.24E-05
626	565734.1	4222810	0.001124	0.001487	5.33E-04	5.96E-04	1.63E-03	5.33E-04	1.48E-04	2.90E-04	1.74E-04	1.14E-04	1.62E-04	7.95E-05
627	565717.3	4222817	0.001051	0.00139	4.98E-04	5.57E-04	1.52E-03	4.98E-04	1.38E-04	2.71E-04	1.63E-04	1.07E-04	1.51E-04	7.43E-05
628	565708.9	4222820	0.001017	0.001344	4.82E-04	5.39E-04	1.47E-03	4.82E-04	1.33E-04	2.63E-04	1.58E-04	1.03E-04	1.46E-04	7.19E-05
629	565700.5	4222824	0.000981	0.001298	4.65E-04	5.20E-04	1.42E-03	4.65E-04	1.29E-04	2.54E-04	1.52E-04	9.97E-05	1.41E-04	6.94E-05
630	565683.7	4222830	0.000909	0.001202	4.31E-04	4.82E-04	1.32E-03	4.31E-04	1.19E-04	2.35E-04	1.41E-04	9.24E-05	1.31E-04	6.43E-05
631	565675.3	4222834	0.000874	0.001156	4.14E-04	4.64E-04	1.27E-03	4.14E-04	1.15E-04	2.26E-04	1.36E-04	8.89E-05	1.26E-04	6.18E-05
632	565658.5	4222841	0.000812	0.001074	3.85E-04	4.30E-04	1.18E-03	3.85E-04	1.07E-04	2.10E-04	1.26E-04	8.25E-05	1.17E-04	5.74E-05
633	565633.4	4222851	0.00072	0.000952	3.41E-04	3.82E-04	1.04E-03	3.41E-04	9.45E-05	1.86E-04	1.12E-04	7.31E-05	1.04E-04	5.09E-05
634	565625	4222854	0.00069	0.000913	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.06E-05	1.78E-04	1.07E-04	7.01E-05	9.93E-05	4.88E-05

635	565557.8	4222881	0.000556	0.000736	2.64E-04	2.95E-04	8.06E-04	2.64E-04	7.31E-05	1.44E-04	8.62E-05	5.65E-05	8.00E-05	3.93E-05
636	565908	4222500	0.003241	0.004286	1.54E-03	1.72E-03	4.70E-03	1.54E-03	4.26E-04	8.37E-04	5.02E-04	3.29E-04	4.66E-04	2.29E-04
637	565908.2	4222491	0.003264	0.004316	1.55E-03	1.73E-03	4.73E-03	1.55E-03	4.29E-04	8.43E-04	5.06E-04	3.32E-04	4.69E-04	2.31E-04
638	565908.4	4222482	0.003284	0.004343	1.56E-03	1.74E-03	4.76E-03	1.56E-03	4.31E-04	8.48E-04	5.09E-04	3.34E-04	4.72E-04	2.32E-04
639	565924.2	4222518	0.003027	0.004004	1.43E-03	1.61E-03	4.39E-03	1.43E-03	3.98E-04	7.82E-04	4.69E-04	3.08E-04	4.35E-04	2.14E-04
640	565920.6	4222526	0.003044	0.004025	1.44E-03	1.61E-03	4.41E-03	1.44E-03	4.00E-04	7.86E-04	4.72E-04	3.09E-04	4.38E-04	2.15E-04
641	565913.4	4222542	0.00307	0.00406	1.45E-03	1.63E-03	4.45E-03	1.45E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
642	565909.8	4222550	0.003072	0.004063	1.46E-03	1.63E-03	4.45E-03	1.46E-03	4.03E-04	7.94E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
643	565902.6	4222567	0.003052	0.004036	1.45E-03	1.62E-03	4.42E-03	1.45E-03	4.01E-04	7.88E-04	4.73E-04	3.10E-04	4.39E-04	2.16E-04
644	565895.4	4222583	0.003017	0.00399	1.43E-03	1.60E-03	4.37E-03	1.43E-03	3.96E-04	7.79E-04	4.68E-04	3.07E-04	4.34E-04	2.13E-04
645	565891.8	4222591	0.002996	0.003962	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.74E-04	4.64E-04	3.04E-04	4.31E-04	2.12E-04
646	565877.4	4222624	0.00284	0.003756	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.34E-04	4.40E-04	2.89E-04	4.09E-04	2.01E-04
647	565873.8	4222632	0.002782	0.003679	1.32E-03	1.47E-03	4.03E-03	1.32E-03	3.65E-04	7.19E-04	4.31E-04	2.83E-04	4.00E-04	1.97E-04
648	565866.7	4222649	0.002656	0.003512	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.49E-04	6.86E-04	4.12E-04	2.70E-04	3.82E-04	1.88E-04
649	565859.5	4222665	0.002523	0.003337	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.31E-04	6.52E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
650	565855.9	4222673	0.002449	0.003238	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.22E-04	6.33E-04	3.80E-04	2.49E-04	3.52E-04	1.73E-04
651	565848.7	4222690	0.00229	0.003029	1.09E-03	1.21E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
652	565841.5	4222706	0.002133	0.002821	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.51E-04	3.31E-04	2.17E-04	3.07E-04	1.51E-04
653	565837.9	4222714	0.002056	0.00272	9.74E-04	1.09E-03	2.98E-03	9.74E-04	2.70E-04	5.31E-04	3.19E-04	2.09E-04	2.96E-04	1.45E-04
654	565830.7	4222731	0.0019	0.002512	9.00E-04	1.01E-03	2.75E-03	9.00E-04	2.49E-04	4.91E-04	2.94E-04	1.93E-04	2.73E-04	1.34E-04
655	565823.5	4222747	0.001745	0.002308	8.27E-04	9.25E-04	2.53E-03	8.27E-04	2.29E-04	4.51E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
656	565816.3	4222764	0.001598	0.002113	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
657	565812.7	4222772	0.001526	0.002019	7.23E-04	8.09E-04	2.21E-03	7.23E-04	2.00E-04	3.94E-04	2.37E-04	1.55E-04	2.20E-04	1.08E-04
658	565790	4222808	0.001238	0.001637	5.86E-04	6.56E-04	1.79E-03	5.86E-04	1.63E-04	3.20E-04	1.92E-04	1.26E-04	1.78E-04	8.75E-05
659	565781.7	4222811	0.001203	0.001591	5.70E-04	6.38E-04	1.74E-03	5.70E-04	1.58E-04	3.11E-04	1.86E-04	1.22E-04	1.73E-04	8.51E-05
660	565765.1	4222818	0.001132	0.001496	5.36E-04	6.00E-04	1.64E-03	5.36E-04	1.49E-04	2.92E-04	1.75E-04	1.15E-04	1.63E-04	8.00E-05
661	565756.8	4222821	0.001096	0.001449	5.19E-04	5.81E-04	1.59E-03	5.19E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.58E-04	7.75E-05
662	565723.5	4222835	0.000959	0.001268	4.54E-04	5.08E-04	1.39E-03	4.54E-04	1.26E-04	2.48E-04	1.49E-04	9.74E-05	1.38E-04	6.78E-05
663	565715.2	4222838	0.000928	0.001228	4.40E-04	4.92E-04	1.35E-03	4.40E-04	1.22E-04	2.40E-04	1.44E-04	9.43E-05	1.34E-04	6.56E-05
664	565698.5	4222845	0.000867	0.001147	4.11E-04	4.60E-04	1.26E-03	4.11E-04	1.14E-04	2.24E-04	1.34E-04	8.81E-05	1.25E-04	6.13E-05
665	565690.2	4222848	0.000834	0.001103	3.95E-04	4.42E-04	1.21E-03	3.95E-04	1.10E-04	2.16E-04	1.29E-04	8.48E-05	1.20E-04	5.90E-05
666	565673.6	4222854	0.00077	0.001019	3.65E-04	4.08E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.19E-04	7.83E-05	1.11E-04	5.45E-05
667	565648.6	4222864	0.000686	0.000907	3.25E-04	3.64E-04	9.94E-04	3.25E-04	9.01E-05	1.77E-04	1.06E-04	6.97E-05	9.86E-05	4.85E-05
668	565632	4222871	0.000634	0.000838	3.00E-04	3.36E-04	9.19E-04	3.00E-04	8.32E-05	1.64E-04	9.82E-05	6.44E-05	9.12E-05	4.48E-05
669	565557.1	4222901	0.000505	0.000668	2.39E-04	2.68E-04	7.32E-04	2.39E-04	6.63E-05	1.30E-04	7.83E-05	5.13E-05	7.26E-05	3.57E-05
670	565928	4222500	0.003042	0.004023	1.44E-03	1.61E-03	4.41E-03	1.44E-03	3.99E-04	7.86E-04	4.72E-04	3.09E-04	4.38E-04	2.15E-04
671	565928.2	4222491	0.003062	0.004049	1.45E-03	1.62E-03	4.44E-03	1.45E-03	4.02E-04	7.91E-04	4.75E-04	3.11E-04	4.40E-04	2.17E-04
672	565928.4	4222482	0.003078	0.00407	1.46E-03	1.63E-03	4.46E-03	1.46E-03	4.04E-04	7.95E-04	4.77E-04	3.13E-04	4.43E-04	2.18E-04
673	565944.2	4222518	0.002852	0.003772	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.75E-04	7.37E-04	4.42E-04	2.90E-04	4.10E-04	2.02E-04
674	565937.1	4222534	0.002876	0.003804	1.36E-03	1.52E-03	4.17E-03	1.36E-03	3.78E-04	7.43E-04	4.46E-04	2.92E-04	4.14E-04	2.03E-04
675	565929.9	4222551	0.002889	0.00382	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.79E-04	7.46E-04	4.48E-04	2.94E-04	4.16E-04	2.04E-04
676	565922.8	4222567	0.002876	0.003804	1.36E-03	1.52E-03	4.17E-03	1.36E-03	3.78E-04	7.43E-04	4.46E-04	2.92E-04	4.14E-04	2.03E-04
677	565915.7	4222583	0.002849	0.003767	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.36E-04	4.42E-04	2.89E-04	4.10E-04	2.01E-04
678	565908.5	4222599	0.002808	0.003713	1.33E-03	1.49E-03	4.07E-03	1.33E-03	3.69E-04	7.25E-04	4.35E-04	2.85E-04	4.04E-04	1.99E-04
679	565901.4	4222616	0.002751	0.003638	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.61E-04	7.11E-04	4.26E-04	2.80E-04	3.96E-04	1.95E-04
680	565890.7	4222640	0.00262	0.003465	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.44E-04	6.77E-04	4.06E-04	2.66E-04	3.77E-04	1.85E-04
681	565883.6	4222656	0.002507	0.003315	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.48E-04	3.89E-04	2.55E-04	3.61E-04	1.77E-04
682	565876.4	4222673	0.002379	0.003146	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.12E-04	6.15E-04	3.69E-04	2.42E-04	3.42E-04	1.68E-04
683	565869.3	4222689	0.00224	0.002963	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
684	565862.2	4222705	0.0021	0.002777	9.95E-04	1.11E-03	3.04E-03	9.95E-04	2.76E-04	5.42E-04	3.25E-04	2.13E-04	3.02E-04	1.48E-04
685	565858.6	4222713	0.002031	0.002686	9.62E-04	1.08E-03	2.94E-03	9.62E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
686	565844.3	4222746	0.001741	0.002303	8.25E-04	9.23E-04	2.52E-03	8.25E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.50E-04	1.23E-04
687	565837.2	4222762	0.001599	0.002115	7.58E-04	8.48E-04	2.32E-03	7.58E-04	2.10E-04	4.13E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
688	565830.1	4222778	0.001466	0.001939	6.95E-04	7.77E-04	2.13E-03	6.95E-04	1.93E-04	3.79E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
689	565823	4222795	0.001343	0.001776	6.36E-04	7.12E-04	1.95E-03	6.36E-04	1.76E-04	3.47E-04	2.08E-04	1.37E-04	1.93E-04	9.50E-05
690	565804	4222822	0.001155	0.001528	5.47E-04	6.12E-04	1.67E-03	5.47E-04	1.52E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.17E-05
691	565787.5	4222829	0.001101	0.001456	5.22E-04	5.84E-04	1.60E-03	5.22E-04	1.45E-04	2.84E-04	1.71E-04	1.12E-04	1.58E-04	7.79E-05
692	565771	4222836	0.001036	0.00137	4.91E-04	5.49E-04	1.50E-03	4.91E-04	1.36E-04	2.68E-04	1.61E-04	1.05E-04	1.49E-04	7.33E-05
693	565738	4222849	0.000905	0.001197	4.29E-04	4.80E-04	1.31E-03	4.29E-04	1.19E-04	2.34E-04	1.40E-04	9.20E-05	1.30E-04	6.40E-05
694	565721.5	4222855	0.000842	0.001113	3.99E-04	4.46E-04	1.22E-03	3.99E-04	1.11E-04	2.17E-04	1.30E-04	8.55E-05	1.21E-04	5.95E-05
695	565705	4222862	0.000781	0.001032	3.70E-04	4.14E-04	1.13E-03	3.70E-04	1.03E-04	2.02E-04	1.21E-04	7.93E-05	1.12E-04	5.52E-05
696	565688.5	4222868	0.000724	0.000958	3.43E-04	3.84E-04	1.05E-03	3.43E-04	9.51E-05	1.87E-04	1.12E-04	7.36E-05	1.04E-04	5.12E-05
697	565672	4222875	0.000675	0.000892	3.20E-04	3.58E-04	9.78E-04	3.20E-04	8.86E-05	1.74E-04	1.05E-04	6.86E-05	9.71E-05	4.77E-05
698	565655.5	4222882	0.000627	0.000829	2.97E-04	3.32E-04	9.09E-04	2.97E-04	8.23E-05	1.62E-04	9.72E-05	6.37E-05	9.02E-05	4.43E-05
699	565639	4222888	0.000584	0.000772	2.77E-04	3.10E-04	8.46E-04	2.77E-04	7.67E-05	1.51E-04	9.05E-05	5.93E-05	8.40E-05	4.13E-05
700	565948	4222501	0.002862	0.003785	1.36E-03	1.52E-03	4.15E-03	1.36E-03	3.76E-04	7.39E-04	4.44E-04	2.91E-04	4.12E-04	2.02E-04
701	565948.2	4222492	0.002879	0.003807	1.36E-03	1.53E-03	4.17E-03	1.36E-03	3.78E-04	7.44E-04	4.46E-04	2.93E-04	4.14E-04	2.04E-04
702	565948.4	4222483	0.002891	0.003823	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.80E-04	7.47E-04	4.48E-04	2.94E-04	4.16E-04	2.04E-04
703	565964.2	4222518	0.00269	0.003558	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
704	565957.1	4222535	0.002708	0.003581	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
705	565950.1	4222551	0.002718	0.003595	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
706	565946.5	4222559	0.002717	0.003593	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
707	565939.4	4222575	0.002704	0.003576	1.28E-03	1.43E-03	3.92E-03	1.28E-03	3.55E-04	6.99E-04	4.19E-04	2.75E-04	3.89E-04	1.91E-04
708	565932.4	4222591	0.002677	0.003541	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.52E-04	6.92E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
709	565925.3	4222607	0.002637	0.003487	1.25E-03	1.40E-03	3.82E-03	1.25E-03	3.46E-04	6.81E-04	4.09E-04	2.68E-04	3.79E-04	1.86E-04
710	565918.2	4222623	0.00258	0.003412	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.62E-04	3.71E-04	1.82E-04
711	565904	4222656	0.002413	0.003192	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
712	565900.5	4222664	0.00236	0.003121	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.10E-04	3.66E-04	2.40E-04	3.39E-04	1.67E-04
713	565893.4	4222680	0.002244	0.002968	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.95E-04	5.80E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
714	565886.3	4222696	0.002119	0.002802	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.05E-04	1.50E-04
715	565879.3	4222712	0.001988	0.002629	9.42E-04	1.05E-03	2.88E-03	9.42E-04	2.61E-04	5.14E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
716	565872.2	4222728	0.001858	0.002457	8.80E-04	9.85E-04	2.69E-03	8.80E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
717	565858	4222761	0.001589	0.002101	7.53E-04	8.42E-04	2.30E-03	7.53E-04	2.09E-04	4.10E-04	2.46E-04	1.61E-04	2.29E-04	1.12E-04
718	565854.5	4222769	0.001523	0.002014	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
719	565847.4	4222785	0.001397	0.001847	6.62E-04	7.40E-04	2.02E-03	6.62E-04	1.83E-04	3.61E-04	2.17E-04	1.42E-04	2.01E-04	9.88E-05
720	565840.3	4222801	0.001286	0.001701	6.09E-04	6.82E-04	1.86E-03	6.09E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.09E-05
721	565818	4222837	0.00109	0.001441	5.16E-04	5.78E-04	1.58E-03	5.16E-04	1.43E-04	2.81E-04	1.69E-04	1.11E-04	1.57E-04	7.70E-05
722	565801.6	4222843	0.001039	0.001374	4.92E-04	5.51E-04	1.51E-03	4.92E-04	1.36E-04	2.68E-04	1.61E-04	1.06E-04	1.49E-04	7.35E-05
723	565785.2	4222850	0.00098	0.001296	4.64E-04	5.20E-04	1.42E-03	4.64E-04	1.29E-04	2.53E-04	1.52E-04	9.96E-05	1.41E-04	6.93E-05
724	565752.4	4222863	0.000849	0.001123	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.12E-04	2.19E-04	1.32E-04	8.63E-05	1.22E-04	6.01E-05
725	565736.1	4222869	0.000788	0.001043	3.73E-04	4.18E-04	1.14E-03	3.73E-04	1.04E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.58E-05

726	565719.7	4222876	0.000731	0.000967	3.46E-04	3.88E-04	1.06E-03	3.46E-04	9.60E-05	1.89E-04	1.13E-04	7.43E-05	1.05E-04	5.17E-05
727	565703.3	4222882	0.000678	0.000896	3.21E-04	3.59E-04	9.82E-04	3.21E-04	8.90E-05	1.75E-04	1.05E-04	6.89E-05	9.75E-05	4.79E-05
728	565686.9	4222889	0.000635	0.000839	3.01E-04	3.37E-04	9.20E-04	3.01E-04	8.34E-05	1.64E-04	9.84E-05	6.45E-05	9.13E-05	4.49E-05
729	565670.5	4222896	0.000595	0.000787	2.82E-04	3.16E-04	8.63E-04	2.82E-04	7.82E-05	1.54E-04	9.23E-05	6.05E-05	8.56E-05	4.21E-05
730	565654.1	4222902	0.000556	0.000735	2.63E-04	2.95E-04	8.06E-04	2.63E-04	7.30E-05	1.44E-04	8.62E-05	5.65E-05	8.00E-05	3.93E-05
731	565547.7	4222945	0.000421	0.000557	2.00E-04	2.23E-04	6.10E-04	2.00E-04	5.53E-05	1.09E-04	6.53E-05	4.28E-05	6.06E-05	2.98E-05
732	565968	4222501	0.002698	0.003568	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.97E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
733	565968.2	4222492	0.002712	0.003586	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.01E-04	4.20E-04	2.76E-04	3.90E-04	1.92E-04
734	565968.4	4222483	0.002722	0.003599	1.29E-03	1.44E-03	3.95E-03	1.29E-03	3.57E-04	7.03E-04	4.22E-04	2.77E-04	3.91E-04	1.92E-04
735	565984.1	4222519	0.002536	0.003354	1.20E-03	1.34E-03	3.68E-03	1.20E-03	3.33E-04	6.55E-04	3.93E-04	2.58E-04	3.65E-04	1.79E-04
736	565976.9	4222535	0.002554	0.003377	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.35E-04	6.60E-04	3.96E-04	2.60E-04	3.67E-04	1.81E-04
737	565969.7	4222552	0.00256	0.003385	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
738	565962.5	4222568	0.002557	0.003382	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
739	565955.3	4222585	0.00254	0.00336	1.20E-03	1.35E-03	3.68E-03	1.20E-03	3.34E-04	6.56E-04	3.94E-04	2.58E-04	3.65E-04	1.80E-04
740	565948.1	4222601	0.002513	0.003324	1.19E-03	1.33E-03	3.64E-03	1.19E-03	3.30E-04	6.49E-04	3.90E-04	2.55E-04	3.61E-04	1.78E-04
741	565944.5	4222609	0.002495	0.003299	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.44E-04	3.87E-04	2.54E-04	3.59E-04	1.76E-04
742	565937.3	4222626	0.002438	0.003224	1.15E-03	1.29E-03	3.53E-03	1.15E-03	3.20E-04	6.30E-04	3.78E-04	2.48E-04	3.51E-04	1.72E-04
743	565930.1	4222642	0.002375	0.00314	1.13E-03	1.26E-03	3.44E-03	1.13E-03	3.12E-04	6.13E-04	3.68E-04	2.41E-04	3.42E-04	1.68E-04
744	565915.7	4222675	0.002199	0.002909	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.24E-04	3.16E-04	1.56E-04
745	565912.1	4222683	0.002145	0.002837	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.54E-04	3.33E-04	2.18E-04	3.09E-04	1.52E-04
746	565904.9	4222700	0.002031	0.002685	9.62E-04	1.08E-03	2.94E-03	9.62E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
747	565897.7	4222716	0.001908	0.002524	9.04E-04	1.01E-03	2.77E-03	9.04E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
748	565890.5	4222733	0.00178	0.002353	8.43E-04	9.43E-04	2.58E-03	8.43E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
749	565886.9	4222741	0.001715	0.002268	8.12E-04	9.09E-04	2.49E-03	8.12E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
750	565872.5	4222774	0.001456	0.001925	6.90E-04	7.72E-04	2.11E-03	6.90E-04	1.91E-04	3.76E-04	2.26E-04	1.48E-04	2.09E-04	1.03E-04
751	565865.3	4222790	0.001339	0.001771	6.34E-04	7.10E-04	1.94E-03	6.34E-04	1.76E-04	3.46E-04	2.08E-04	1.36E-04	1.93E-04	9.47E-05
752	565858.1	4222807	0.001239	0.001638	5.87E-04	6.57E-04	1.80E-03	5.87E-04	1.63E-04	3.20E-04	1.92E-04	1.26E-04	1.78E-04	8.76E-05
753	565854.5	4222815	0.001186	0.001568	5.62E-04	6.29E-04	1.72E-03	5.62E-04	1.56E-04	3.06E-04	1.84E-04	1.20E-04	1.71E-04	8.39E-05
754	565831.7	4222851	0.001033	0.001366	4.89E-04	5.48E-04	1.50E-03	4.89E-04	1.36E-04	2.67E-04	1.60E-04	1.05E-04	1.49E-04	7.30E-05
755	565823.4	4222854	0.001009	0.001335	4.78E-04	5.35E-04	1.46E-03	4.78E-04	1.33E-04	2.61E-04	1.56E-04	1.03E-04	1.45E-04	7.14E-05
756	565815.1	4222858	0.000982	0.001299	4.65E-04	5.21E-04	1.42E-03	4.65E-04	1.29E-04	2.54E-04	1.52E-04	9.98E-05	1.41E-04	6.95E-05
757	565798.4	4222864	0.000927	0.001226	4.39E-04	4.92E-04	1.34E-03	4.39E-04	1.22E-04	2.39E-04	1.44E-04	9.42E-05	1.33E-04	6.56E-05
758	565790.1	4222868	0.000897	0.001187	4.25E-04	4.76E-04	1.30E-03	4.25E-04	1.18E-04	2.32E-04	1.39E-04	9.12E-05	1.29E-04	6.35E-05
759	565773.4	4222874	0.000829	0.001096	3.93E-04	4.39E-04	1.20E-03	3.93E-04	1.09E-04	2.14E-04	1.28E-04	8.42E-05	1.19E-04	5.86E-05
760	565756.7	4222881	0.000765	0.001012	3.62E-04	4.06E-04	1.11E-03	3.62E-04	1.00E-04	1.98E-04	1.19E-04	7.77E-05	1.10E-04	5.41E-05
761	565748.4	4222884	0.000738	0.000976	3.50E-04	3.91E-04	1.07E-03	3.50E-04	9.70E-05	1.91E-04	1.14E-04	7.50E-05	1.06E-04	5.22E-05
762	565731.7	4222891	0.000687	0.000908	3.25E-04	3.64E-04	9.96E-04	3.25E-04	9.02E-05	1.77E-04	1.06E-04	6.98E-05	9.88E-05	4.86E-05
763	565723.4	4222894	0.000661	0.000874	3.13E-04	3.50E-04	9.58E-04	3.13E-04	8.68E-05	1.71E-04	1.02E-04	6.72E-05	9.51E-05	4.67E-05
764	565698.4	4222904	0.000589	0.000779	2.79E-04	3.12E-04	8.54E-04	2.79E-04	7.73E-05	1.52E-04	9.13E-05	5.98E-05	8.47E-05	4.16E-05
765	565681.7	4222911	0.000554	0.000732	2.62E-04	2.94E-04	8.03E-04	2.62E-04	7.27E-05	1.43E-04	8.59E-05	5.63E-05	7.97E-05	3.92E-05
766	565673.4	4222914	0.000537	0.00071	2.55E-04	2.85E-04	7.79E-04	2.55E-04	7.06E-05	1.39E-04	8.33E-05	5.46E-05	7.73E-05	3.80E-05
767	565656.7	4222921	0.000503	0.000666	2.38E-04	2.67E-04	7.30E-04	2.38E-04	6.61E-05	1.30E-04	7.80E-05	5.12E-05	7.24E-05	3.56E-05
768	565556.7	4222961	0.000396	0.000524	1.88E-04	2.10E-04	5.74E-04	1.88E-04	5.20E-05	1.02E-04	6.14E-05	4.03E-05	5.70E-05	2.80E-05
769	565988	4222502	0.002542	0.003362	1.20E-03	1.35E-03	3.69E-03	1.20E-03	3.34E-04	6.57E-04	3.94E-04	2.58E-04	3.66E-04	1.80E-04
770	565988.2	4222493	0.002557	0.003382	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
771	565988.4	4222484	0.002567	0.003395	1.22E-03	1.36E-03	3.72E-03	1.22E-03	3.37E-04	6.63E-04	3.98E-04	2.61E-04	3.69E-04	1.82E-04
772	566004.2	4222519	0.002389	0.003159	1.13E-03	1.27E-03	3.46E-03	1.13E-03	3.14E-04	6.17E-04	3.70E-04	2.43E-04	3.44E-04	1.69E-04
773	565997	4222536	0.002414	0.003193	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.24E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
774	565989.9	4222552	0.002423	0.003204	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
775	565982.7	4222568	0.002416	0.003195	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.24E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
776	565975.6	4222585	0.002398	0.003171	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.19E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
777	565972	4222593	0.002383	0.003152	1.13E-03	1.26E-03	3.46E-03	1.13E-03	3.13E-04	6.16E-04	3.69E-04	2.42E-04	3.43E-04	1.69E-04
778	565964.8	4222609	0.002352	0.003111	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
779	565961.3	4222617	0.002336	0.003089	1.11E-03	1.24E-03	3.39E-03	1.11E-03	3.07E-04	6.03E-04	3.62E-04	2.37E-04	3.36E-04	1.65E-04
780	565954.1	4222634	0.002288	0.003025	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.00E-04	5.91E-04	3.55E-04	2.32E-04	3.29E-04	1.62E-04
781	565950.5	4222642	0.00226	0.002989	1.07E-03	1.20E-03	3.28E-03	1.07E-03	2.97E-04	5.84E-04	3.50E-04	2.30E-04	3.25E-04	1.60E-04
782	565943.4	4222658	0.0022	0.00291	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.24E-04	3.16E-04	1.56E-04
783	565932.6	4222683	0.002075	0.002745	9.83E-04	1.10E-03	3.01E-03	9.83E-04	2.73E-04	5.36E-04	3.22E-04	2.11E-04	2.99E-04	1.47E-04
784	565929.1	4222691	0.002026	0.00268	9.60E-04	1.07E-03	2.94E-03	9.60E-04	2.66E-04	5.23E-04	3.14E-04	2.06E-04	2.91E-04	1.43E-04
785	565921.9	4222707	0.001922	0.002542	9.11E-04	1.02E-03	2.79E-03	9.11E-04	2.52E-04	4.97E-04	2.98E-04	1.95E-04	2.76E-04	1.36E-04
786	565918.3	4222715	0.001867	0.00247	8.85E-04	9.90E-04	2.71E-03	8.85E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.69E-04	1.32E-04
787	565911.2	4222732	0.001749	0.002314	8.29E-04	9.27E-04	2.54E-03	8.29E-04	2.30E-04	4.52E-04	2.71E-04	1.78E-04	2.52E-04	1.24E-04
788	565907.6	4222740	0.001686	0.00223	7.99E-04	8.94E-04	2.44E-03	7.99E-04	2.21E-04	4.36E-04	2.61E-04	1.71E-04	2.43E-04	1.19E-04
789	565900.5	4222756	0.001564	0.002068	7.41E-04	8.29E-04	2.27E-03	7.41E-04	2.05E-04	4.04E-04	2.42E-04	1.59E-04	2.25E-04	1.11E-04
790	565896.9	4222764	0.001507	0.001992	7.14E-04	7.99E-04	2.18E-03	7.14E-04	1.98E-04	3.89E-04	2.34E-04	1.53E-04	2.17E-04	1.07E-04
791	565882.6	4222797	0.001285	0.001699	6.09E-04	6.81E-04	1.86E-03	6.09E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.09E-05
792	565875.4	4222813	0.001204	0.001592	5.70E-04	6.38E-04	1.75E-03	5.70E-04	1.58E-04	3.11E-04	1.87E-04	1.22E-04	1.73E-04	8.51E-05
793	565871.8	4222821	0.001163	0.001538	5.51E-04	6.17E-04	1.69E-03	5.51E-04	1.53E-04	3.00E-04	1.80E-04	1.18E-04	1.67E-04	8.22E-05
794	565864.7	4222838	0.001094	0.001446	5.18E-04	5.80E-04	1.59E-03	5.18E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.57E-04	7.73E-05
795	565845.7	4222865	0.000977	0.001291	4.63E-04	5.18E-04	1.42E-03	4.63E-04	1.28E-04	2.52E-04	1.51E-04	9.92E-05	1.40E-04	6.91E-05
796	565829.1	4222872	0.000931	0.001231	4.41E-04	4.93E-04	1.35E-03	4.41E-04	1.22E-04	2.40E-04	1.44E-04	9.46E-05	1.34E-04	6.58E-05
797	565812.6	4222879	0.00088	0.001164	4.17E-04	4.66E-04	1.28E-03	4.17E-04	1.16E-04	2.27E-04	1.36E-04	8.94E-05	1.27E-04	6.22E-05
798	565779.5	4222892	0.000764	0.00101	3.62E-04	4.05E-04	1.11E-03	3.62E-04	1.00E-04	1.97E-04	1.18E-04	7.76E-05	1.10E-04	5.40E-05
799	565762.9	4222899	0.000702	0.000928	3.32E-04	3.72E-04	1.02E-03	3.32E-04	9.21E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.96E-05
800	565746.4	4222905	0.000655	0.000866	3.10E-04	3.47E-04	9.49E-04	3.10E-04	8.60E-05	1.69E-04	1.02E-04	6.66E-05	9.42E-05	4.63E-05
801	565696.7	4222925	0.000526	0.000695	2.49E-04	2.79E-04	7.62E-04	2.49E-04	6.91E-05	1.36E-04	8.15E-05	5.34E-05	7.56E-05	3.72E-05
802	565680.2	4222932	0.000494	0.000653	2.34E-04	2.62E-04	7.16E-04	2.34E-04	6.49E-05	1.28E-04	7.66E-05	5.02E-05	7.11E-05	3.49E-05
803	565663.6	4222938	0.000465	0.000615	2.20E-04	2.47E-04	6.75E-04	2.20E-04	6.11E-05	1.20E-04	7.21E-05	4.73E-05	6.69E-05	3.29E-05
804	565556.1	4222981	0.000371	0.000491	1.76E-04	1.97E-04	5.38E-04	1.76E-04	4.87E-05	9.58E-05	5.75E-05	3.77E-05	5.34E-05	2.62E-05
805	566008	4222502	0.002401	0.003175	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.20E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
806	566008.2	4222493	0.002416	0.003195	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.24E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
807	566008.4	4222484	0.002427	0.003209	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.47E-04	3.49E-04	1.72E-04
808	566024.2	4222520	0.002276	0.00301	1.08E-03	1.21E-03	3.30E-03	1.08E-03	2.99E-04	5.88E-04	3.53E-04	2.31E-04	3.27E-04	1.61E-04
809	566017.1	4222536	0.002292	0.003031	1.09E-03	1.22E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
810	566010	4222552	0.002298	0.003039	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.94E-04	3.56E-04	2.34E-04	3.31E-04	1.63E-04
811	566002.9	4222569	0.002286	0.003023	1.08E-03	1.21E-03	3.31E-03	1.08E-03	3.00E-04	5.90E-04	3.54E-04	2.32E-04	3.29E-04	1.62E-04
812	565995.8	4222585	0.002268	0.002999	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.52E-04	2.30E-04	3.26E-04	1.60E-04
813	565992.2	4222593	0.002255	0.002983	1.07E-03	1.20E-03	3.27E-03	1.07E-03	2.96E-04	5.83E-04	3.50E-04	2.29E-04	3.24E-04	1.60E-04
814	565985.1	4222609	0.002225	0.002942	1.05E-03	1.18E-03	3.23E-03	1.05E-03	2.92E-04	5.75E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
815	565978	4222625	0.002196	0.002905	1.04E-03	1.16E-03	3.18E-03	1.04E-03	2.88E-04	5.67E-04	3.40E-04	2.23E-04	3.16E-04	1.55E-04
816	565970.9	4222641	0.002158	0.002854	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.53E-04

817	565963.8	4222658	0.002109	0.002789	9.99E-04	1.12E-03	3.06E-03	9.99E-04	2.77E-04	5.45E-04	3.27E-04	2.14E-04	3.03E-04	1.49E-04
818	565960.2	4222666	0.00208	0.002751	9.85E-04	1.10E-03	3.02E-03	9.85E-04	2.73E-04	5.37E-04	3.22E-04	2.11E-04	2.99E-04	1.47E-04
819	565946	4222698	0.001915	0.002533	9.07E-04	1.02E-03	2.78E-03	9.07E-04	2.52E-04	4.95E-04	2.97E-04	1.95E-04	2.75E-04	1.35E-04
820	565942.5	4222706	0.001869	0.002471	8.85E-04	9.91E-04	2.71E-03	8.85E-04	2.45E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
821	565935.4	4222723	0.001771	0.002342	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.33E-04	4.57E-04	2.74E-04	1.80E-04	2.55E-04	1.25E-04
822	565928.3	4222739	0.001662	0.002198	7.87E-04	8.81E-04	2.41E-03	7.87E-04	2.18E-04	4.29E-04	2.58E-04	1.69E-04	2.39E-04	1.18E-04
823	565924.7	4222747	0.001604	0.002121	7.60E-04	8.50E-04	2.33E-03	7.60E-04	2.11E-04	4.14E-04	2.49E-04	1.63E-04	2.31E-04	1.13E-04
824	565917.6	4222763	0.001492	0.001973	7.07E-04	7.91E-04	2.16E-03	7.07E-04	1.96E-04	3.85E-04	2.31E-04	1.52E-04	2.15E-04	1.06E-04
825	565910.5	4222779	0.001392	0.001841	6.59E-04	7.38E-04	2.02E-03	6.59E-04	1.83E-04	3.60E-04	2.16E-04	1.41E-04	2.00E-04	9.84E-05
826	565896.3	4222812	0.001209	0.001599	5.73E-04	6.41E-04	1.75E-03	5.73E-04	1.59E-04	3.12E-04	1.87E-04	1.23E-04	1.74E-04	8.55E-05
827	565892.7	4222820	0.001171	0.001548	5.55E-04	6.21E-04	1.70E-03	5.55E-04	1.54E-04	3.02E-04	1.81E-04	1.19E-04	1.68E-04	8.28E-05
828	565885.6	4222836	0.001091	0.001443	5.17E-04	5.79E-04	1.58E-03	5.17E-04	1.43E-04	2.82E-04	1.69E-04	1.11E-04	1.57E-04	7.72E-05
829	565878.5	4222852	0.001021	0.001351	4.84E-04	5.41E-04	1.48E-03	4.84E-04	1.34E-04	2.64E-04	1.58E-04	1.04E-04	1.47E-04	7.22E-05
830	565859.7	4222880	0.00092	0.001217	4.36E-04	4.88E-04	1.33E-03	4.36E-04	1.21E-04	2.38E-04	1.43E-04	9.35E-05	1.32E-04	6.51E-05
831	565843.2	4222886	0.00088	0.001163	4.17E-04	4.66E-04	1.28E-03	4.17E-04	1.16E-04	2.27E-04	1.36E-04	8.94E-05	1.27E-04	6.22E-05
832	565826.8	4222893	0.000831	0.001099	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.45E-05	1.20E-04	5.88E-05
833	565793.9	4222906	0.000735	0.000972	3.48E-04	3.90E-04	1.07E-03	3.48E-04	9.66E-05	1.90E-04	1.14E-04	7.47E-05	1.06E-04	5.20E-05
834	565777.4	4222913	0.000677	0.000896	3.21E-04	3.59E-04	9.82E-04	3.21E-04	8.90E-05	1.75E-04	1.05E-04	6.88E-05	9.74E-05	4.79E-05
835	565761	4222919	0.000624	0.000825	2.96E-04	3.31E-04	9.04E-04	2.96E-04	8.19E-05	1.61E-04	9.67E-05	6.34E-05	8.97E-05	4.41E-05
836	565744.6	4222926	0.00058	0.000766	2.75E-04	3.07E-04	8.40E-04	2.75E-04	7.61E-05	1.50E-04	8.98E-05	5.89E-05	8.34E-05	4.10E-05
837	565728.1	4222932	0.000538	0.000711	2.55E-04	2.85E-04	7.80E-04	2.55E-04	7.06E-05	1.39E-04	8.34E-05	5.46E-05	7.73E-05	3.80E-05
838	565711.7	4222939	0.000504	0.000666	2.39E-04	2.67E-04	7.31E-04	2.39E-04	6.62E-05	1.30E-04	7.81E-05	5.12E-05	7.25E-05	3.56E-05
839	566028	4222503	0.00228	0.003016	1.08E-03	1.21E-03	3.31E-03	1.08E-03	2.99E-04	5.89E-04	3.53E-04	2.32E-04	3.28E-04	1.61E-04
840	566028.2	4222494	0.00229	0.003028	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
841	566028.4	4222485	0.002297	0.003038	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.94E-04	3.56E-04	2.33E-04	3.30E-04	1.62E-04
842	566044.1	4222520	0.002171	0.002871	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.85E-04	5.61E-04	3.37E-04	2.21E-04	3.12E-04	1.54E-04
843	566036.9	4222537	0.002183	0.002886	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.87E-04	5.64E-04	3.38E-04	2.22E-04	3.14E-04	1.54E-04
844	566029.7	4222553	0.002181	0.002884	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.22E-04	3.14E-04	1.54E-04
845	566022.5	4222570	0.002163	0.00286	1.02E-03	1.15E-03	3.14E-03	1.02E-03	2.84E-04	5.59E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
846	566015.3	4222586	0.002144	0.002835	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.54E-04	3.32E-04	2.18E-04	3.08E-04	1.52E-04
847	566008	4222603	0.00212	0.002803	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.48E-04	3.29E-04	2.15E-04	3.05E-04	1.50E-04
848	566000.8	4222619	0.002098	0.002774	9.94E-04	1.11E-03	3.04E-03	9.94E-04	2.75E-04	5.42E-04	3.25E-04	2.13E-04	3.02E-04	1.48E-04
849	565993.6	4222636	0.002069	0.002737	9.80E-04	1.10E-03	3.00E-03	9.80E-04	2.72E-04	5.35E-04	3.21E-04	2.10E-04	2.98E-04	1.46E-04
850	565990	4222644	0.002048	0.002709	9.70E-04	1.09E-03	2.97E-03	9.70E-04	2.69E-04	5.29E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
851	565982.8	4222660	0.002003	0.002649	9.49E-04	1.06E-03	2.90E-03	9.49E-04	2.63E-04	5.17E-04	3.11E-04	2.04E-04	2.88E-04	1.42E-04
852	565975.6	4222677	0.001946	0.002573	9.22E-04	1.03E-03	2.82E-03	9.22E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
853	565968.4	4222693	0.001873	0.002477	8.87E-04	9.93E-04	2.72E-03	8.87E-04	2.46E-04	4.84E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
854	565961.1	4222710	0.00179	0.002367	8.48E-04	9.49E-04	2.59E-03	8.48E-04	2.35E-04	4.62E-04	2.77E-04	1.82E-04	2.57E-04	1.27E-04
855	565953.9	4222726	0.0017	0.002248	8.05E-04	9.01E-04	2.46E-03	8.05E-04	2.23E-04	4.39E-04	2.64E-04	1.73E-04	2.45E-04	1.20E-04
856	565946.7	4222743	0.001606	0.002124	7.61E-04	8.52E-04	2.33E-03	7.61E-04	2.11E-04	4.15E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
857	565943.1	4222751	0.001556	0.002057	7.37E-04	8.25E-04	2.26E-03	7.37E-04	2.04E-04	4.02E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
858	565935.9	4222767	0.001459	0.001929	6.91E-04	7.73E-04	2.11E-03	6.91E-04	1.92E-04	3.77E-04	2.26E-04	1.48E-04	2.10E-04	1.03E-04
859	565928.7	4222784	0.001363	0.001803	6.46E-04	7.23E-04	1.98E-03	6.46E-04	1.79E-04	3.52E-04	2.11E-04	1.39E-04	1.96E-04	9.64E-05
860	565914.2	4222817	0.001175	0.001554	5.57E-04	6.23E-04	1.70E-03	5.57E-04	1.54E-04	3.03E-04	1.82E-04	1.19E-04	1.69E-04	8.31E-05
861	565907	4222833	0.001113	0.001472	5.27E-04	5.90E-04	1.61E-03	5.27E-04	1.46E-04	2.88E-04	1.73E-04	1.13E-04	1.60E-04	7.87E-05
862	565899.8	4222850	0.001043	0.00138	4.94E-04	5.53E-04	1.51E-03	4.94E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.38E-05
863	565873.4	4222894	0.000858	0.001135	4.07E-04	4.55E-04	1.24E-03	4.07E-04	1.13E-04	2.22E-04	1.33E-04	8.72E-05	1.23E-04	6.07E-05
864	565856.7	4222901	0.000827	0.001094	3.92E-04	4.39E-04	1.20E-03	3.92E-04	1.09E-04	2.14E-04	1.28E-04	8.41E-05	1.19E-04	5.85E-05
865	565848.4	4222904	0.000806	0.001066	3.82E-04	4.28E-04	1.17E-03	3.82E-04	1.06E-04	2.08E-04	1.25E-04	8.19E-05	1.16E-04	5.70E-05
866	565831.7	4222911	0.000761	0.001006	3.60E-04	4.03E-04	1.10E-03	3.60E-04	9.99E-05	1.97E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05
867	565815	4222918	0.000716	0.000947	3.39E-04	3.80E-04	1.04E-03	3.39E-04	9.41E-05	1.85E-04	1.11E-04	7.28E-05	1.03E-04	5.07E-05
868	565806.6	4222921	0.000694	0.000918	3.29E-04	3.68E-04	1.01E-03	3.29E-04	9.12E-05	1.79E-04	1.08E-04	7.05E-05	9.98E-05	4.91E-05
869	565789.9	4222928	0.000648	0.000858	3.07E-04	3.44E-04	9.40E-04	3.07E-04	8.52E-05	1.68E-04	1.01E-04	6.59E-05	9.33E-05	4.59E-05
870	565781.6	4222931	0.000622	0.000823	2.95E-04	3.30E-04	9.02E-04	2.95E-04	8.17E-05	1.61E-04	9.64E-05	6.32E-05	8.95E-05	4.40E-05
871	565764.9	4222938	0.000572	0.000756	2.71E-04	3.03E-04	8.29E-04	2.71E-04	7.51E-05	1.48E-04	8.87E-05	5.81E-05	8.23E-05	4.04E-05
872	565739.9	4222948	0.000513	0.000679	2.43E-04	2.72E-04	7.44E-04	2.43E-04	6.74E-05	1.33E-04	7.95E-05	5.21E-05	7.38E-05	3.63E-05
873	565731.5	4222951	0.000496	0.000656	2.35E-04	2.63E-04	7.19E-04	2.35E-04	6.51E-05	1.28E-04	7.69E-05	5.04E-05	7.13E-05	3.51E-05
874	565714.8	4222958	0.000468	0.000618	2.22E-04	2.48E-04	6.78E-04	2.22E-04	6.14E-05	1.21E-04	7.25E-05	4.75E-05	6.73E-05	3.31E-05
875	565706.5	4222961	0.000455	0.000601	2.15E-04	2.41E-04	6.59E-04	2.15E-04	5.97E-05	1.17E-04	7.05E-05	4.62E-05	6.54E-05	3.21E-05
876	565689.8	4222968	0.000431	0.00057	2.04E-04	2.28E-04	6.25E-04	2.04E-04	5.66E-05	1.11E-04	6.68E-05	4.38E-05	6.20E-05	3.05E-05
877	565681.4	4222971	0.00042	0.000556	1.99E-04	2.23E-04	6.09E-04	1.99E-04	5.52E-05	1.09E-04	6.51E-05	4.27E-05	6.04E-05	2.97E-05
878	565556.2	4223021	0.000333	0.000441	1.58E-04	1.77E-04	4.83E-04	1.58E-04	4.38E-05	8.61E-05	5.17E-05	3.39E-05	4.79E-05	2.36E-05
879	565539.5	4223028	0.000329	0.000435	1.56E-04	1.74E-04	4.77E-04	1.56E-04	4.32E-05	8.49E-05	5.10E-05	3.34E-05	4.73E-05	2.32E-05
880	566047.7	4222512	0.002162	0.002859	1.02E-03	1.15E-03	3.13E-03	1.02E-03	2.84E-04	5.59E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
881	566047.9	4222503	0.002169	0.002868	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
882	566048.2	4222494	0.002174	0.002875	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.86E-04	5.62E-04	3.37E-04	2.21E-04	3.13E-04	1.54E-04
883	566048.4	4222485	0.002178	0.002881	1.03E-03	1.15E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.21E-04	3.13E-04	1.54E-04
884	566064.1	4222521	0.002072	0.002741	9.82E-04	1.10E-03	3.00E-03	9.82E-04	2.72E-04	5.35E-04	3.21E-04	2.11E-04	2.98E-04	1.47E-04
885	566057	4222537	0.002086	0.002758	9.88E-04	1.11E-03	3.02E-03	9.88E-04	2.74E-04	5.39E-04	3.23E-04	2.12E-04	3.00E-04	1.47E-04
886	566049.8	4222554	0.002082	0.002753	9.86E-04	1.10E-03	3.02E-03	9.86E-04	2.73E-04	5.38E-04	3.23E-04	2.12E-04	2.99E-04	1.47E-04
887	566046.2	4222562	0.00207	0.002738	9.81E-04	1.10E-03	3.00E-03	9.81E-04	2.72E-04	5.35E-04	3.21E-04	2.10E-04	2.98E-04	1.46E-04
888	566039	4222578	0.002041	0.0027	9.67E-04	1.08E-03	2.96E-03	9.67E-04	2.68E-04	5.27E-04	3.16E-04	2.07E-04	2.94E-04	1.44E-04
889	566035.5	4222586	0.002031	0.002687	9.62E-04	1.08E-03	2.95E-03	9.62E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
890	566028.3	4222603	0.00201	0.002658	9.52E-04	1.07E-03	2.91E-03	9.52E-04	2.64E-04	5.19E-04	3.12E-04	2.04E-04	2.89E-04	1.42E-04
891	566024.7	4222611	0.002001	0.002646	9.48E-04	1.06E-03	2.90E-03	9.48E-04	2.63E-04	5.17E-04	3.10E-04	2.03E-04	2.88E-04	1.42E-04
892	566017.5	4222627	0.001983	0.002623	9.40E-04	1.05E-03	2.88E-03	9.40E-04	2.60E-04	5.12E-04	3.07E-04	2.02E-04	2.85E-04	1.40E-04
893	566014	4222635	0.001971	0.002607	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
894	566006.8	4222652	0.001925	0.002546	9.12E-04	1.02E-03	2.79E-03	9.12E-04	2.53E-04	4.97E-04	2.98E-04	1.96E-04	2.77E-04	1.36E-04
895	565999.6	4222668	0.001877	0.002483	8.89E-04	9.95E-04	2.72E-03	8.89E-04	2.47E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
896	565996	4222676	0.001846	0.002441	8.74E-04	9.79E-04	2.68E-03	8.74E-04	2.42E-04	4.77E-04	2.86E-04	1.88E-04	2.66E-04	1.31E-04
897	565988.9	4222693	0.001782	0.002357	8.44E-04	9.45E-04	2.58E-03	8.44E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
898	565985.3	4222701	0.001755	0.00232	8.31E-04	9.30E-04	2.54E-03	8.31E-04	2.30E-04	4.53E-04	2.72E-04	1.78E-04	2.52E-04	1.24E-04
899	565974.5	4222725	0.001655	0.002189	7.84E-04	8.78E-04	2.40E-03	7.84E-04	2.17E-04	4.28E-04	2.57E-04	1.68E-04	2.38E-04	1.17E-04
900	565967.4	4222742	0.00158	0.00209	7.49E-04	8.38E-04	2.29E-03	7.49E-04	2.08E-04	4.08E-04	2.45E-04	1.61E-04	2.27E-04	1.12E-04
901	565963.8	4222750	0.001539	0.002035	7.29E-04	8.16E-04	2.23E-03	7.29E-04	2.02E-04	3.98E-04	2.39E-04	1.56E-04	2.21E-04	1.09E-04
902	565956.6	4222766	0.001454	0.001923	6.89E-04	7.71E-04	2.11E-03	6.89E-04	1.91E-04	3.76E-04	2.25E-04	1.48E-04	2.09E-04	1.03E-04
903	565949.4	4222783	0.001367	0.001808	6.48E-04	7.25E-04	1.98E-03	6.48E-04	1.80E-04	3.53E-04	2.12E-04	1.39E-04	1.97E-04	9.67E-05
904	565945.9	4222791	0.001326	0.001753	6.28E-04	7.03E-04	1.92E-03	6.28E-04	1.74E-04	3.43E-04	2.06E-04	1.35E-04	1.91E-04	9.38E-05
905	565938.7	4222807	0.001246	0.001647	5.90E-04	6.60E-04	1.81E-03	5.90E-04	1.64E-04	3.22E-04	1.93E-04	1.27E-04	1.79E-04	8.81E-05
906	565913.6	4222864	0.000999	0.001322	4.74E-04	5.30E-04	1.45E-03	4.74E-04	1.31E-04	2.58E-04	1.55E-04	1.02E-04	1.44E-04	7.07E-05
907	565906.4	4222881	0.000931	0.001231	4.41E-04	4.94E-04	1.35E-03	4.41E-04	1.22E-04	2.40E-04	1.44E-04	9.46E-05	1.34E-04	6.58E-05

908	565899.3	4222897	0.000863	0.001141	4.09E-04	4.58E-04	1.25E-03	4.09E-04	1.13E-04	2.23E-04	1.34E-04	8.77E-05	1.24E-04	6.10E-05
909	565887.4	4222909	0.000812	0.001074	3.85E-04	4.31E-04	1.18E-03	3.85E-04	1.07E-04	2.10E-04	1.26E-04	8.26E-05	1.17E-04	5.75E-05
910	565879.1	4222912	0.000794	0.00105	3.76E-04	4.21E-04	1.15E-03	3.76E-04	1.04E-04	2.05E-04	1.23E-04	8.07E-05	1.14E-04	5.61E-05
911	565862.5	4222919	0.000756	0.001	3.58E-04	4.01E-04	1.10E-03	3.58E-04	9.93E-05	1.95E-04	1.17E-04	7.69E-05	1.09E-04	5.35E-05
912	565854.2	4222922	0.000736	0.000974	3.49E-04	3.90E-04	1.07E-03	3.49E-04	9.67E-05	1.90E-04	1.14E-04	7.48E-05	1.06E-04	5.21E-05
913	565812.7	4222938	0.00064	0.000846	3.03E-04	3.39E-04	9.27E-04	3.03E-04	8.40E-05	1.65E-04	9.92E-05	6.50E-05	9.20E-05	4.52E-05
914	565796.2	4222945	0.000601	0.000795	2.85E-04	3.19E-04	8.71E-04	2.85E-04	7.89E-05	1.55E-04	9.32E-05	6.11E-05	8.64E-05	4.25E-05
915	565779.6	4222952	0.000558	0.000738	2.64E-04	2.96E-04	8.09E-04	2.64E-04	7.32E-05	1.44E-04	8.65E-05	5.67E-05	8.02E-05	3.94E-05
916	565754.7	4222962	0.0005	0.000662	2.37E-04	2.65E-04	7.25E-04	2.37E-04	6.57E-05	1.29E-04	7.76E-05	5.08E-05	7.20E-05	3.54E-05
917	565746.4	4222965	0.000483	0.000639	2.29E-04	2.56E-04	7.01E-04	2.29E-04	6.35E-05	1.25E-04	7.49E-05	4.91E-05	6.95E-05	3.42E-05
918	565729.8	4222971	0.000454	0.000601	2.15E-04	2.41E-04	6.58E-04	2.15E-04	5.96E-05	1.17E-04	7.04E-05	4.61E-05	6.53E-05	3.21E-05
919	565721.5	4222975	0.000442	0.000584	2.09E-04	2.34E-04	6.40E-04	2.09E-04	5.80E-05	1.14E-04	6.85E-05	4.49E-05	6.35E-05	3.12E-05
920	565704.9	4222981	0.000418	0.000553	1.98E-04	2.22E-04	6.06E-04	1.98E-04	5.49E-05	1.08E-04	6.48E-05	4.25E-05	6.01E-05	2.95E-05
921	565688.3	4222988	0.000398	0.000526	1.88E-04	2.11E-04	5.76E-04	1.88E-04	5.22E-05	1.03E-04	6.16E-05	4.04E-05	5.72E-05	2.81E-05
922	565555.6	4223041	0.000319	0.000421	1.51E-04	1.69E-04	4.62E-04	1.51E-04	4.18E-05	8.23E-05	4.94E-05	3.24E-05	4.58E-05	2.25E-05
923	566067.7	4222513	0.00206	0.002725	9.76E-04	1.09E-03	2.99E-03	9.76E-04	2.71E-04	5.32E-04	3.19E-04	2.09E-04	2.96E-04	1.46E-04
924	566067.9	4222504	0.002064	0.002729	9.78E-04	1.09E-03	2.99E-03	9.78E-04	2.71E-04	5.33E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
925	566068.2	4222495	0.002066	0.002732	9.79E-04	1.10E-03	2.99E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
926	566068.4	4222486	0.002066	0.002733	9.79E-04	1.10E-03	3.00E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
927	566084.2	4222521	0.001972	0.002608	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
928	566077	4222538	0.001988	0.00263	9.42E-04	1.05E-03	2.88E-03	9.42E-04	2.61E-04	5.14E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
929	566069.9	4222554	0.001988	0.002629	9.42E-04	1.05E-03	2.88E-03	9.42E-04	2.61E-04	5.14E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
930	566062.8	4222570	0.001964	0.002597	9.30E-04	1.04E-03	2.85E-03	9.30E-04	2.58E-04	5.07E-04	3.04E-04	2.00E-04	2.82E-04	1.39E-04
931	566055.7	4222586	0.00194	0.002566	9.19E-04	1.03E-03	2.81E-03	9.19E-04	2.55E-04	5.01E-04	3.01E-04	1.97E-04	2.79E-04	1.37E-04
932	566048.5	4222603	0.001918	0.002537	9.09E-04	1.02E-03	2.78E-03	9.09E-04	2.52E-04	4.96E-04	2.97E-04	1.95E-04	2.76E-04	1.36E-04
933	566045	4222611	0.001909	0.002524	9.04E-04	1.01E-03	2.77E-03	9.04E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
934	566037.8	4222627	0.00189	0.002499	8.95E-04	1.00E-03	2.74E-03	8.95E-04	2.48E-04	4.88E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
935	566030.7	4222643	0.001849	0.002446	8.76E-04	9.80E-04	2.68E-03	8.76E-04	2.43E-04	4.78E-04	2.87E-04	1.88E-04	2.66E-04	1.31E-04
936	566023.6	4222660	0.001792	0.00237	8.49E-04	9.50E-04	2.60E-03	8.49E-04	2.35E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
937	566016.5	4222676	0.001747	0.002311	8.28E-04	9.26E-04	2.53E-03	8.28E-04	2.29E-04	4.51E-04	2.71E-04	1.78E-04	2.51E-04	1.24E-04
938	566009.3	4222692	0.001692	0.002237	8.01E-04	8.97E-04	2.45E-03	8.01E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
939	566002.2	4222708	0.001649	0.002181	7.81E-04	8.74E-04	2.39E-03	7.81E-04	2.17E-04	4.26E-04	2.56E-04	1.68E-04	2.37E-04	1.17E-04
940	565988	4222741	0.001544	0.002042	7.31E-04	8.19E-04	2.24E-03	7.31E-04	2.03E-04	3.99E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
941	565980.8	4222757	0.001476	0.001952	6.99E-04	7.83E-04	2.14E-03	6.99E-04	1.94E-04	3.81E-04	2.29E-04	1.50E-04	2.12E-04	1.04E-04
942	565973.7	4222773	0.001404	0.001857	6.65E-04	7.44E-04	2.04E-03	6.65E-04	1.84E-04	3.63E-04	2.18E-04	1.43E-04	2.02E-04	9.93E-05
943	565966.6	4222790	0.001325	0.001752	6.28E-04	7.02E-04	1.92E-03	6.28E-04	1.74E-04	3.42E-04	2.05E-04	1.35E-04	1.91E-04	9.37E-05
944	565959.5	4222806	0.001249	0.001651	5.92E-04	6.62E-04	1.81E-03	5.92E-04	1.64E-04	3.23E-04	1.94E-04	1.27E-04	1.80E-04	8.83E-05
945	565952.3	4222822	0.001178	0.001558	5.58E-04	6.25E-04	1.71E-03	5.58E-04	1.55E-04	3.04E-04	1.83E-04	1.20E-04	1.69E-04	8.33E-05
946	565941.6	4222847	0.001073	0.001419	5.08E-04	5.69E-04	1.56E-03	5.08E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.59E-05
947	565934.5	4222863	0.001013	0.001339	4.80E-04	5.37E-04	1.47E-03	4.80E-04	1.33E-04	2.62E-04	1.57E-04	1.03E-04	1.46E-04	7.16E-05
948	565927.4	4222879	0.000952	0.001259	4.51E-04	5.05E-04	1.38E-03	4.51E-04	1.25E-04	2.46E-04	1.48E-04	9.67E-05	1.37E-04	6.73E-05
949	565920.3	4222895	0.000887	0.001173	4.20E-04	4.70E-04	1.29E-03	4.20E-04	1.16E-04	2.29E-04	1.37E-04	9.01E-05	1.28E-04	6.27E-05
950	565913.1	4222912	0.000819	0.001084	3.88E-04	4.34E-04	1.19E-03	3.88E-04	1.08E-04	2.12E-04	1.27E-04	8.33E-05	1.18E-04	5.79E-05
951	565901.3	4222923	0.000768	0.001015	3.64E-04	4.07E-04	1.11E-03	3.64E-04	1.01E-04	1.98E-04	1.19E-04	7.80E-05	1.10E-04	5.43E-05
952	565884.9	4222930	0.00073	0.000966	3.46E-04	3.87E-04	1.06E-03	3.46E-04	9.59E-05	1.89E-04	1.13E-04	7.42E-05	1.05E-04	5.17E-05
953	565868.4	4222936	0.000693	0.000916	3.28E-04	3.67E-04	1.00E-03	3.28E-04	9.10E-05	1.79E-04	1.07E-04	7.04E-05	9.97E-05	4.90E-05
954	565851.9	4222943	0.000656	0.000867	3.11E-04	3.48E-04	9.51E-04	3.11E-04	8.61E-05	1.69E-04	1.02E-04	6.66E-05	9.43E-05	4.64E-05
955	565835.4	4222949	0.000622	0.000822	2.95E-04	3.30E-04	9.01E-04	2.95E-04	8.17E-05	1.61E-04	9.64E-05	6.32E-05	8.94E-05	4.40E-05
956	565769.4	4222976	0.000488	0.000645	2.31E-04	2.59E-04	7.07E-04	2.31E-04	6.41E-05	1.26E-04	7.56E-05	4.96E-05	7.02E-05	3.45E-05
957	565752.9	4222982	0.000458	0.000605	2.17E-04	2.43E-04	6.64E-04	2.17E-04	6.01E-05	1.18E-04	7.10E-05	4.65E-05	6.58E-05	3.24E-05
958	565736.5	4222989	0.000433	0.000572	2.05E-04	2.29E-04	6.27E-04	2.05E-04	5.68E-05	1.12E-04	6.71E-05	4.40E-05	6.22E-05	3.06E-05
959	565720	4222995	0.000409	0.000541	1.94E-04	2.17E-04	5.93E-04	1.94E-04	5.37E-05	1.06E-04	6.34E-05	4.15E-05	5.88E-05	2.89E-05
960	565703.5	4223002	0.000387	0.000512	1.83E-04	2.05E-04	5.61E-04	1.83E-04	5.08E-05	1.00E-04	6.00E-05	3.93E-05	5.57E-05	2.74E-05
961	565687	4223009	0.000371	0.000491	1.76E-04	1.97E-04	5.38E-04	1.76E-04	4.88E-05	9.59E-05	5.76E-05	3.77E-05	5.34E-05	2.63E-05
962	566082.4	4222571	0.001862	0.002463	8.82E-04	9.87E-04	2.70E-03	8.82E-04	2.45E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
963	566075.2	4222588	0.001852	0.002449	8.77E-04	9.82E-04	2.68E-03	8.77E-04	2.43E-04	4.78E-04	2.87E-04	1.88E-04	2.66E-04	1.31E-04
964	566068	4222604	0.001837	0.00243	8.70E-04	9.74E-04	2.66E-03	8.70E-04	2.41E-04	4.75E-04	2.85E-04	1.87E-04	2.64E-04	1.30E-04
965	566060.8	4222621	0.00182	0.002407	8.62E-04	9.65E-04	2.64E-03	8.62E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
966	566053.5	4222637	0.001799	0.002379	8.52E-04	9.54E-04	2.61E-03	8.52E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
967	566046.3	4222654	0.001738	0.002298	8.23E-04	9.21E-04	2.52E-03	8.23E-04	2.28E-04	4.49E-04	2.69E-04	1.77E-04	2.50E-04	1.23E-04
968	566039.1	4222670	0.001672	0.002211	7.92E-04	8.87E-04	2.42E-03	7.92E-04	2.20E-04	4.32E-04	2.59E-04	1.70E-04	2.41E-04	1.18E-04
969	566031.9	4222687	0.001632	0.002158	7.73E-04	8.65E-04	2.37E-03	7.73E-04	2.14E-04	4.22E-04	2.53E-04	1.66E-04	2.35E-04	1.15E-04
970	566024.6	4222703	0.001597	0.002112	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
971	566017.4	4222720	0.001563	0.002068	7.41E-04	8.29E-04	2.27E-03	7.41E-04	2.05E-04	4.04E-04	2.42E-04	1.59E-04	2.25E-04	1.11E-04
972	566013.8	4222728	0.001543	0.00204	7.31E-04	8.18E-04	2.24E-03	7.31E-04	2.03E-04	3.99E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
973	565999.3	4222761	0.001424	0.001884	6.75E-04	7.55E-04	2.07E-03	6.75E-04	1.87E-04	3.68E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
974	565992.1	4222777	0.001358	0.001796	6.43E-04	7.20E-04	1.97E-03	6.43E-04	1.78E-04	3.51E-04	2.11E-04	1.38E-04	1.95E-04	9.61E-05
975	565984.9	4222794	0.00129	0.001707	6.11E-04	6.84E-04	1.87E-03	6.11E-04	1.69E-04	3.33E-04	2.00E-04	1.31E-04	1.86E-04	9.13E-05
976	565977.7	4222810	0.001219	0.001611	5.77E-04	6.46E-04	1.77E-03	5.77E-04	1.60E-04	3.15E-04	1.89E-04	1.24E-04	1.75E-04	8.62E-05
977	565970.4	4222827	0.001155	0.001527	5.47E-04	6.12E-04	1.67E-03	5.47E-04	1.52E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.16E-05
978	565956	4222860	0.001029	0.001361	4.87E-04	5.46E-04	1.49E-03	4.87E-04	1.35E-04	2.66E-04	1.60E-04	1.05E-04	1.48E-04	7.28E-05
979	565948.8	4222876	0.000968	0.00128	4.59E-04	5.13E-04	1.40E-03	4.59E-04	1.27E-04	2.50E-04	1.50E-04	9.84E-05	1.39E-04	6.85E-05
980	565941.5	4222893	0.000911	0.001204	4.31E-04	4.83E-04	1.32E-03	4.31E-04	1.20E-04	2.35E-04	1.41E-04	9.25E-05	1.31E-04	6.44E-05
981	565934.3	4222909	0.000848	0.001122	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.11E-04	2.19E-04	1.31E-04	8.62E-05	1.22E-04	6.00E-05
982	565927.1	4222926	0.000776	0.001027	3.68E-04	4.12E-04	1.13E-03	3.68E-04	1.02E-04	2.01E-04	1.20E-04	7.89E-05	1.12E-04	5.49E-05
983	565915.1	4222937	0.000726	0.00096	3.44E-04	3.85E-04	1.05E-03	3.44E-04	9.53E-05	1.87E-04	1.12E-04	7.37E-05	1.04E-04	5.13E-05
984	565898.4	4222944	0.00069	0.000912	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.06E-05	1.78E-04	1.07E-04	7.01E-05	9.92E-05	4.88E-05
985	565890.1	4222947	0.000673	0.00089	3.19E-04	3.57E-04	9.75E-04	3.19E-04	8.83E-05	1.74E-04	1.04E-04	6.84E-05	9.68E-05	4.76E-05
986	565873.3	4222954	0.000638	0.000844	3.02E-04	3.38E-04	9.25E-04	3.02E-04	8.38E-05	1.65E-04	9.89E-05	6.48E-05	9.18E-05	4.51E-05
987	565865	4222957	0.000621	0.000821	2.94E-04	3.29E-04	9.00E-04	2.94E-04	8.15E-05	1.60E-04	9.62E-05	6.31E-05	8.93E-05	4.39E-05
988	565848.3	4222964	0.000586	0.000775	2.78E-04	3.11E-04	8.50E-04	2.78E-04	7.70E-05	1.51E-04	9.08E-05	5.96E-05	8.43E-05	4.14E-05
989	565839.9	4222967	0.000569	0.000753	2.70E-04	3.02E-04	8.25E-04	2.70E-04	7.47E-05	1.47E-04	8.82E-05	5.78E-05	8.19E-05	4.03E-05
990	565823.2	4222974	0.000538	0.000712	2.55E-04	2.85E-04	7.80E-04	2.55E-04	7.07E-05	1.39E-04	8.34E-05	5.47E-05	7.74E-05	3.80E-05
991	565814.8	4222977	0.000525	0.000695	2.49E-04	2.78E-04	7.62E-04	2.49E-04	6.90E-05	1.36E-04	8.14E-05	5.34E-05	7.56E-05	3.71E-05
992	565806.5	4222981	0.000513	0.000678	2.43E-04	2.72E-04	7.43E-04	2.43E-04	6.73E-05	1.32E-04	7.95E-05	5.21E-05	7.38E-05	3.63E-05
993	565781.4	4222991	0.00047	0.000622	2.23E-04	2.49E-04	6.82E-04	2.23E-04	6.18E-05	1.22E-04	7.29E-05	4.78E-05	6.77E-05	3.33E-05
994	565764.7	4222997	0.000441	0.000583	2.09E-04	2.34E-04	6.39E-04	2.09E-04	5.79E-05	1.14E-04	6.83E-05	4.48E-05	6.34E-05	3.12E-05
995	565756.3	4223001	0.000429	0.000568	2.03E-04	2.28E-04	6.22E-04	2.03E-04	5.64E-05	1.11E-04	6.65E-05	4.36E-05	6.17E-05	3.03E-05
996	565739.6	4223007	0.000408	0.00054	1.93E-04	2.16E-04	5.92E-04	1.93E-04	5.36E-05	1.05E-04	6.33E-05	4.15E-05	5.87E-05	2.89E-05
997	565731.2	4223011	0.000398	0.000526	1.88E-04	2.11E-04	5.77E-04	1.88E-04	5.22E-05	1.03E-04	6.17E-05	4.04E-05	5.72E-05	2.81E-05
998	565714.5	4223017	0.000377	0.000498	1.78E-04	2.00E-04	5.46E-04	1.78E-04	4.95E-05	9.73E-05	5.84E-05	3.83E-05	5.42E-05	2.66E-05

999	565706.2	4223021	0.000367	0.000486	1.74E-04	1.95E-04	5.32E-04	1.74E-04	4.82E-05	9.49E-05	5.69E-05	3.73E-05	5.28E-05	2.60E-05
1000	565689.4	4223027	0.000353	0.000466	1.67E-04	1.87E-04	5.11E-04	1.67E-04	4.63E-05	9.11E-05	5.47E-05	3.58E-05	5.07E-05	2.49E-05
1001	565681.1	4223031	0.000346	0.000458	1.64E-04	1.84E-04	5.02E-04	1.64E-04	4.55E-05	8.95E-05	5.37E-05	3.52E-05	4.98E-05	2.45E-05
1002	565555.7	4223081	0.000291	0.000385	1.38E-04	1.54E-04	4.22E-04	1.38E-04	3.83E-05	7.53E-05	4.52E-05	2.96E-05	4.19E-05	2.06E-05
1003	565539	4223087	0.000285	0.000377	1.35E-04	1.51E-04	4.13E-04	1.35E-04	3.74E-05	7.36E-05	4.42E-05	2.90E-05	4.10E-05	2.02E-05
1004	565530.6	4223091	0.000282	0.000372	1.33E-04	1.49E-04	4.08E-04	1.33E-04	3.70E-05	7.27E-05	4.36E-05	2.86E-05	4.05E-05	1.99E-05
1005	565552.5	4222461	0.019102	0.025262	9.05E-03	1.01E-02	2.77E-02	9.05E-03	2.51E-03	4.93E-03	2.96E-03	1.94E-03	2.75E-03	1.35E-03
1006	565552.2	4222451	0.020449	0.027044	9.69E-03	1.08E-02	2.96E-02	9.69E-03	2.69E-03	5.28E-03	3.17E-03	2.08E-03	2.94E-03	1.45E-03
1007	565562.3	4222461	0.017783	0.023518	8.43E-03	9.43E-03	2.58E-02	8.43E-03	2.34E-03	4.59E-03	2.76E-03	1.81E-03	2.56E-03	1.26E-03
1008	565562.1	4222451	0.018962	0.025077	8.98E-03	1.01E-02	2.75E-02	8.98E-03	2.49E-03	4.90E-03	2.94E-03	1.93E-03	2.73E-03	1.34E-03
1009	565572.1	4222461	0.016613	0.021971	7.87E-03	8.81E-03	2.41E-02	7.87E-03	2.18E-03	4.29E-03	2.58E-03	1.69E-03	2.39E-03	1.17E-03
1010	565571.9	4222451	0.017638	0.023326	8.36E-03	9.35E-03	2.56E-02	8.36E-03	2.32E-03	4.56E-03	2.73E-03	1.79E-03	2.54E-03	1.25E-03
1011	565582	4222460	0.015561	0.02058	7.37E-03	8.25E-03	2.26E-02	7.37E-03	2.04E-03	4.02E-03	2.41E-03	1.58E-03	2.24E-03	1.10E-03
1012	565581.7	4222451	0.016448	0.021752	7.79E-03	8.72E-03	2.38E-02	7.79E-03	2.16E-03	4.25E-03	2.55E-03	1.67E-03	2.37E-03	1.16E-03
1013	565611.5	4222460	0.012932	0.017102	6.13E-03	6.86E-03	1.87E-02	6.13E-03	1.70E-03	3.34E-03	2.00E-03	1.31E-03	1.86E-03	9.15E-04
1014	565611.2	4222450	0.013504	0.017859	6.40E-03	7.16E-03	1.96E-02	6.40E-03	1.77E-03	3.49E-03	2.09E-03	1.37E-03	1.94E-03	9.55E-04
1015	565621.3	4222459	0.012193	0.016124	5.78E-03	6.46E-03	1.77E-02	5.78E-03	1.60E-03	3.15E-03	1.89E-03	1.24E-03	1.75E-03	8.62E-04
1016	565621.1	4222450	0.012688	0.016779	6.01E-03	6.73E-03	1.84E-02	6.01E-03	1.67E-03	3.28E-03	1.97E-03	1.29E-03	1.83E-03	8.97E-04
1017	565631.2	4222459	0.0115	0.015208	5.45E-03	6.10E-03	1.67E-02	5.45E-03	1.51E-03	2.97E-03	1.78E-03	1.17E-03	1.65E-03	8.13E-04
1018	565630.9	4222449	0.011926	0.015772	5.65E-03	6.32E-03	1.73E-02	5.65E-03	1.57E-03	3.08E-03	1.85E-03	1.21E-03	1.72E-03	8.43E-04
1019	565640.8	4222449	0.011236	0.01486	5.32E-03	5.96E-03	1.63E-02	5.32E-03	1.48E-03	2.90E-03	1.74E-03	1.14E-03	1.62E-03	7.95E-04
1020	565650.6	4222449	0.010596	0.014014	5.02E-03	5.62E-03	1.54E-02	5.02E-03	1.39E-03	2.74E-03	1.64E-03	1.08E-03	1.52E-03	7.49E-04
1021	565660.7	4222458	0.009728	0.012865	4.61E-03	5.16E-03	1.41E-02	4.61E-03	1.28E-03	2.51E-03	1.51E-03	9.89E-04	1.40E-03	6.88E-04
1022	565670.5	4222458	0.009216	0.012188	4.37E-03	4.89E-03	1.34E-02	4.37E-03	1.21E-03	2.38E-03	1.43E-03	9.37E-04	1.33E-03	6.52E-04
1023	565670.3	4222448	0.009455	0.012503	4.48E-03	5.01E-03	1.37E-02	4.48E-03	1.24E-03	2.44E-03	1.47E-03	9.61E-04	1.36E-03	6.69E-04
1024	565680.6	4222468	0.008507	0.01125	4.03E-03	4.51E-03	1.23E-02	4.03E-03	1.12E-03	2.20E-03	1.32E-03	8.64E-04	1.22E-03	6.02E-04
1025	565680.3	4222458	0.008739	0.011557	4.14E-03	4.63E-03	1.27E-02	4.14E-03	1.15E-03	2.26E-03	1.35E-03	8.88E-04	1.26E-03	6.18E-04
1026	565680.1	4222448	0.008946	0.011831	4.24E-03	4.74E-03	1.30E-02	4.24E-03	1.17E-03	2.31E-03	1.39E-03	9.09E-04	1.29E-03	6.33E-04
1027	565690.4	4222467	0.008091	0.0107	3.83E-03	4.29E-03	1.17E-02	3.83E-03	1.06E-03	2.09E-03	1.25E-03	8.22E-04	1.16E-03	5.72E-04
1028	565690.2	4222458	0.008294	0.010969	3.93E-03	4.40E-03	1.20E-02	3.93E-03	1.09E-03	2.14E-03	1.29E-03	8.43E-04	1.19E-03	5.87E-04
1029	565689.9	4222448	0.008473	0.011205	4.01E-03	4.49E-03	1.23E-02	4.01E-03	1.11E-03	2.19E-03	1.31E-03	8.61E-04	1.22E-03	5.99E-04
1030	565700.2	4222467	0.007702	0.010185	3.65E-03	4.08E-03	1.12E-02	3.65E-03	1.01E-03	1.99E-03	1.19E-03	7.83E-04	1.11E-03	5.45E-04
1031	565700	4222457	0.00788	0.010421	3.73E-03	4.18E-03	1.14E-02	3.73E-03	1.03E-03	2.04E-03	1.22E-03	8.01E-04	1.13E-03	5.57E-04
1032	565699.8	4222448	0.008034	0.010625	3.81E-03	4.26E-03	1.16E-02	3.81E-03	1.06E-03	2.08E-03	1.25E-03	8.16E-04	1.16E-03	5.68E-04
1033	565710.1	4222467	0.00734	0.009707	3.48E-03	3.89E-03	1.06E-02	3.48E-03	9.64E-04	1.90E-03	1.14E-03	7.46E-04	1.06E-03	5.19E-04
1034	565709.8	4222457	0.007496	0.009913	3.55E-03	3.97E-03	1.09E-02	3.55E-03	9.84E-04	1.94E-03	1.16E-03	7.62E-04	1.08E-03	5.30E-04
1035	565709.6	4222447	0.007629	0.01009	3.61E-03	4.05E-03	1.11E-02	3.61E-03	1.00E-03	1.97E-03	1.18E-03	7.75E-04	1.10E-03	5.40E-04
1036	565719.9	4222467	0.007003	0.009261	3.32E-03	3.71E-03	1.02E-02	3.32E-03	9.20E-04	1.81E-03	1.09E-03	7.12E-04	1.01E-03	4.95E-04
1037	565719.7	4222457	0.007139	0.009442	3.38E-03	3.79E-03	1.04E-02	3.38E-03	9.38E-04	1.84E-03	1.11E-03	7.26E-04	1.03E-03	5.05E-04
1038	565719.4	4222447	0.007255	0.009595	3.44E-03	3.85E-03	1.05E-02	3.44E-03	9.53E-04	1.87E-03	1.12E-03	7.37E-04	1.04E-03	5.13E-04
1039	565729.8	4222467	0.006687	0.008843	3.17E-03	3.55E-03	9.69E-03	3.17E-03	8.78E-04	1.73E-03	1.04E-03	6.80E-04	9.62E-04	4.73E-04
1040	565729.5	4222457	0.006806	0.009001	3.22E-03	3.61E-03	9.87E-03	3.22E-03	8.94E-04	1.76E-03	1.06E-03	6.92E-04	9.79E-04	4.81E-04
1041	565729.3	4222447	0.006907	0.009134	3.27E-03	3.66E-03	1.00E-02	3.27E-03	9.07E-04	1.78E-03	1.07E-03	7.02E-04	9.93E-04	4.88E-04
1042	565739.6	4222466	0.006389	0.00845	3.03E-03	3.39E-03	9.26E-03	3.03E-03	8.39E-04	1.65E-03	9.90E-04	6.49E-04	9.19E-04	4.52E-04
1043	565739.4	4222457	0.006494	0.008589	3.08E-03	3.44E-03	9.42E-03	3.08E-03	8.53E-04	1.68E-03	1.01E-03	6.60E-04	9.34E-04	4.59E-04
1044	565739.1	4222447	0.006581	0.008703	3.12E-03	3.49E-03	9.54E-03	3.12E-03	8.64E-04	1.70E-03	1.02E-03	6.69E-04	9.47E-04	4.65E-04
1045	565749.2	4222456	0.006202	0.008202	2.94E-03	3.29E-03	8.99E-03	2.94E-03	8.15E-04	1.60E-03	9.61E-04	6.30E-04	8.92E-04	4.39E-04
1046	565748.9	4222447	0.006278	0.008302	2.97E-03	3.33E-03	9.10E-03	2.97E-03	8.24E-04	1.62E-03	9.73E-04	6.38E-04	9.03E-04	4.44E-04
1047	565758.8	4222446	0.005994	0.007926	2.84E-03	3.18E-03	8.69E-03	2.84E-03	7.87E-04	1.55E-03	9.29E-04	6.09E-04	8.62E-04	4.24E-04
1048	565769.1	4222466	0.005598	0.007403	2.65E-03	2.97E-03	8.12E-03	2.65E-03	7.35E-04	1.45E-03	8.68E-04	5.69E-04	8.05E-04	3.96E-04
1049	565778.9	4222465	0.005362	0.007091	2.54E-03	2.84E-03	7.77E-03	2.54E-03	7.04E-04	1.39E-03	8.31E-04	5.45E-04	7.71E-04	3.79E-04
1050	565778.7	4222456	0.005424	0.007173	2.57E-03	2.88E-03	7.86E-03	2.57E-03	7.12E-04	1.40E-03	8.41E-04	5.51E-04	7.80E-04	3.84E-04
1051	565788.8	4222465	0.005281	0.006984	2.50E-03	2.80E-03	7.66E-03	2.50E-03	6.93E-04	1.36E-03	8.19E-04	5.37E-04	7.60E-04	3.73E-04
1052	565788.5	4222455	0.005194	0.006869	2.46E-03	2.75E-03	7.53E-03	2.46E-03	6.82E-04	1.34E-03	8.05E-04	5.28E-04	7.47E-04	3.67E-04
1053	565798.6	4222465	0.005068	0.006702	2.40E-03	2.69E-03	7.35E-03	2.40E-03	6.66E-04	1.31E-03	7.86E-04	5.15E-04	7.29E-04	3.58E-04
1054	565798.4	4222455	0.005116	0.006766	2.42E-03	2.71E-03	7.42E-03	2.42E-03	6.72E-04	1.32E-03	7.93E-04	5.20E-04	7.36E-04	3.62E-04
1055	565798.1	4222445	0.005154	0.006816	2.44E-03	2.73E-03	7.47E-03	2.44E-03	6.77E-04	1.33E-03	7.99E-04	5.24E-04	7.41E-04	3.65E-04
1056	565808.4	4222465	0.004861	0.006429	2.30E-03	2.58E-03	7.05E-03	2.30E-03	6.38E-04	1.26E-03	7.54E-04	4.94E-04	6.99E-04	3.44E-04
1057	565808.2	4222455	0.004907	0.00649	2.33E-03	2.60E-03	7.11E-03	2.33E-03	6.44E-04	1.27E-03	7.61E-04	4.99E-04	7.06E-04	3.47E-04
1058	565808	4222445	0.004941	0.006535	2.34E-03	2.62E-03	7.16E-03	2.34E-03	6.49E-04	1.28E-03	7.66E-04	5.02E-04	7.11E-04	3.49E-04
1059	565828.4	4222464	0.004467	0.005907	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.15E-03	6.92E-04	4.54E-04	6.43E-04	3.16E-04
1060	565828.2	4222454	0.004509	0.005963	2.14E-03	2.39E-03	6.54E-03	2.14E-03	5.92E-04	1.16E-03	6.99E-04	4.58E-04	6.49E-04	3.19E-04
1061	565828	4222445	0.004539	0.006003	2.15E-03	2.41E-03	6.58E-03	2.15E-03	5.96E-04	1.17E-03	7.04E-04	4.61E-04	6.53E-04	3.21E-04
1062	565848.4	4222464	0.00411	0.005436	1.95E-03	2.18E-03	5.96E-03	1.95E-03	5.40E-04	1.06E-03	6.37E-04	4.18E-04	5.91E-04	2.91E-04
1063	565848.2	4222454	0.004144	0.00548	1.96E-03	2.20E-03	6.01E-03	1.96E-03	5.44E-04	1.07E-03	6.42E-04	4.21E-04	5.96E-04	2.93E-04
1064	565848	4222444	0.004169	0.005514	1.98E-03	2.21E-03	6.04E-03	1.98E-03	5.48E-04	1.08E-03	6.46E-04	4.24E-04	6.00E-04	2.95E-04
1065	565868.4	4222472	0.003789	0.005011	1.80E-03	2.01E-03	5.49E-03	1.80E-03	4.98E-04	9.79E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
1066	565868.4	4222463	0.003814	0.005044	1.81E-03	2.02E-03	5.53E-03	1.81E-03	5.01E-04	9.85E-04	5.91E-04	3.88E-04	5.49E-04	2.70E-04
1067	565868.2	4222453	0.003839	0.005077	1.82E-03	2.04E-03	5.57E-03	1.82E-03	5.04E-04	9.92E-04	5.95E-04	3.90E-04	5.52E-04	2.72E-04
1068	565867.9	4222444	0.003859	0.005104	1.83E-03	2.05E-03	5.59E-03	1.83E-03	5.07E-04	9.97E-04	5.98E-04	3.92E-04	5.55E-04	2.73E-04
1069	565888.4	4222472	0.003535	0.004675	1.67E-03	1.87E-03	5.12E-03	1.67E-03	4.64E-04	9.13E-04	5.48E-04	3.59E-04	5.08E-04	2.50E-04
1070	565888.4	4222463	0.003556	0.004703	1.68E-03	1.89E-03	5.16E-03	1.68E-03	4.67E-04	9.19E-04	5.51E-04	3.61E-04	5.11E-04	2.51E-04
1071	565888.2	4222453	0.003576	0.004729	1.69E-03	1.90E-03	5.18E-03	1.69E-03	4.70E-04	9.24E-04	5.54E-04	3.63E-04	5.14E-04	2.53E-04
1072	565887.9	4222443	0.00359	0.004748	1.70E-03	1.90E-03	5.21E-03	1.70E-03	4.71E-04	9.28E-04	5.57E-04	3.65E-04	5.16E-04	2.54E-04
1073	565908.4	4222469	0.003312	0.00438	1.57E-03	1.76E-03	4.80E-03	1.57E-03	4.35E-04	8.56E-04	5.13E-04	3.37E-04	4.76E-04	2.34E-04
1074	565908.2	4222452	0.003337	0.004413	1.58E-03	1.77E-03	4.84E-03	1.58E-03	4.38E-04	8.62E-04	5.17E-04	3.39E-04	4.80E-04	2.36E-04
1075	565907.9	4222443	0.003343	0.004422	1.58E-03	1.77E-03	4.85E-03	1.58E-03	4.39E-04	8.64E-04	5.18E-04	3.40E-04	4.81E-04	2.36E-04
1076	565928.4	4222468	0.003097	0.004095	1.47E-03	1.64E-03	4.49E-03	1.47E-03	4.07E-04	8.00E-04	4.80E-04	3.15E-04	4.45E-04	2.19E-04
1077	565928.2	4222452	0.003114	0.004118	1.48E-03	1.65E-03	4.51E-03	1.48E-03	4.09E-04	8.04E-04	4.83E-04	3.16E-04	4.48E-04	2.20E-04
1078	565927.9	4222442	0.003121	0.004127	1.48E-03	1.65E-03	4.52E-03	1.48E-03	4.10E-04	8.06E-04	4.84E-04	3.17E-04	4.49E-04	2.21E-04
1079	565948.4	4222468	0.002901	0.003837	1.37E-03	1.54E-03	4.21E-03	1.37E-03	3.81E-04	7.50E-04	4.50E-04	2.95E-04	4.17E-04	2.05E-04
1080	565948.2	4222451	0.002912	0.003851	1.38E-03	1.54E-03	4.22E-03	1.38E-03	3.82E-04	7.52E-04	4.51E-04	2.96E-04	4.19E-04	2.06E-04
1081	565947.9	4222442	0.002921	0.003863	1.38E-03	1.55E-03	4.24E-03	1.38E-03	3.84E-04	7.55E-04	4.53E-04	2.97E-04	4.20E-04	2.07E-04
1082	565968.4	4222468	0.00273	0.003611	1.29E-03	1.45E-03	3.96E-03	1.29E-03	3.59E-04	7.05E-04	4.23E-04	2.77E-04	3.93E-04	1.93E-04
1083	565968.2	4222451	0.002739	0.003622	1.30E-03	1.45E-03	3.97E-03	1.30E-03	3.60E-04	7.08E-04	4.25E-04	2.78E-04	3.94E-04	1.94E-04
1084	565967.9	4222441	0.002746	0.003632	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.09E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
1085	565988.4	4222468	0.002574	0.003404	1.22E-03	1.36E-03	3.73E-03	1.22E-03	3.38E-04	6.65E-04	3.99E-04	2.62E-04	3.70E-04	1.82E-04
1086	565988.1	4222450	0.002581	0.003414	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.62E-04	3.71E-04	1.83E-04
1087	565987.9	4222441	0.002587	0.003421	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.68E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
1088	566008.4	4222468	0.002433	0.003218	1.15E-03	1.29E-03	3.53E-03	1.15E-03	3.20E-04	6.29E-04	3.77E-04	2.47E-04	3.50E-04	1.72E-04
1089	566008.1	4222450	0.002439	0.003225	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.20E-04	6.30E-04	3.78E-04	2.48E-04	3.51E-04	1.72E-04

1090	566007.9	4222440	0.002442	0.00323	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.79E-04	2.48E-04	3.51E-04	1.73E-04
1091	566028.4	4222468	0.002308	0.003052	1.09E-03	1.22E-03	3.35E-03	1.09E-03	3.03E-04	5.96E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
1092	566028.1	4222449	0.002314	0.00306	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.98E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
1093	566027.9	4222440	0.002313	0.003059	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.98E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
1094	566048.4	4222467	0.002185	0.00289	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.64E-04	3.39E-04	2.22E-04	3.14E-04	1.55E-04
1095	566048.4	4222459	0.002187	0.002892	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.15E-04	1.55E-04
1096	566048.1	4222449	0.002188	0.002893	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.15E-04	1.55E-04
1097	566047.9	4222439	0.002187	0.002892	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.15E-04	1.55E-04
1098	566068.4	4222467	0.002068	0.002735	9.80E-04	1.10E-03	3.00E-03	9.80E-04	2.72E-04	5.34E-04	3.21E-04	2.10E-04	2.98E-04	1.46E-04
1099	566068.4	4222476	0.002068	0.002735	9.80E-04	1.10E-03	3.00E-03	9.80E-04	2.72E-04	5.34E-04	3.21E-04	2.10E-04	2.97E-04	1.46E-04
1100	566068.4	4222458	0.002068	0.002735	9.80E-04	1.10E-03	3.00E-03	9.80E-04	2.72E-04	5.34E-04	3.21E-04	2.10E-04	2.97E-04	1.46E-04
1101	566068.1	4222448	0.002068	0.002735	9.80E-04	1.10E-03	3.00E-03	9.80E-04	2.72E-04	5.34E-04	3.21E-04	2.10E-04	2.97E-04	1.46E-04
1102	566067.9	4222439	0.002066	0.002733	9.79E-04	1.10E-03	3.00E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
1103	565551.8	4222441	0.022	0.029095	1.04E-02	1.17E-02	3.19E-02	1.04E-02	2.89E-03	5.68E-03	3.41E-03	2.24E-03	3.16E-03	1.56E-03
1104	565561.6	4222440	0.020318	0.02687	9.63E-03	1.08E-02	2.95E-02	9.63E-03	2.67E-03	5.25E-03	3.15E-03	2.06E-03	2.92E-03	1.44E-03
1105	565561.2	4222431	0.021531	0.028474	1.02E-02	1.14E-02	3.12E-02	1.02E-02	2.83E-03	5.56E-03	3.34E-03	2.19E-03	3.10E-03	1.52E-03
1106	565560.7	4222421	0.022726	0.030055	1.08E-02	1.20E-02	3.29E-02	1.08E-02	2.98E-03	5.87E-03	3.52E-03	2.31E-03	3.27E-03	1.61E-03
1107	565571.4	4222440	0.018817	0.024885	8.91E-03	9.98E-03	2.73E-02	8.91E-03	2.47E-03	4.86E-03	2.92E-03	1.91E-03	2.71E-03	1.33E-03
1108	565571	4222430	0.019832	0.026227	9.40E-03	1.05E-02	2.88E-02	9.40E-03	2.60E-03	5.12E-03	3.07E-03	2.02E-03	2.85E-03	1.40E-03
1109	565570.6	4222421	0.020808	0.027518	9.86E-03	1.10E-02	3.02E-02	9.86E-03	2.73E-03	5.38E-03	3.23E-03	2.11E-03	2.99E-03	1.47E-03
1110	565581.3	4222439	0.017473	0.023108	8.28E-03	9.26E-03	2.53E-02	8.28E-03	2.29E-03	4.51E-03	2.71E-03	1.78E-03	2.51E-03	1.24E-03
1111	565580.8	4222430	0.018324	0.024233	8.68E-03	9.72E-03	2.66E-02	8.68E-03	2.41E-03	4.73E-03	2.84E-03	1.86E-03	2.64E-03	1.30E-03
1112	565580.4	4222420	0.019128	0.025297	9.06E-03	1.01E-02	2.77E-02	9.06E-03	2.51E-03	4.94E-03	2.97E-03	1.94E-03	2.75E-03	1.35E-03
1113	565591.1	4222439	0.016264	0.021509	7.71E-03	8.62E-03	2.36E-02	7.71E-03	2.14E-03	4.20E-03	2.52E-03	1.65E-03	2.34E-03	1.15E-03
1114	565590.6	4222429	0.016978	0.022453	8.04E-03	9.00E-03	2.46E-02	8.04E-03	2.23E-03	4.39E-03	2.63E-03	1.73E-03	2.44E-03	1.20E-03
1115	565590.2	4222420	0.017645	0.023335	8.36E-03	9.36E-03	2.56E-02	8.36E-03	2.32E-03	4.56E-03	2.74E-03	1.79E-03	2.54E-03	1.25E-03
1116	565610.7	4222438	0.014178	0.01875	6.72E-03	7.52E-03	2.06E-02	6.72E-03	1.86E-03	3.66E-03	2.20E-03	1.44E-03	2.04E-03	1.00E-03
1117	565610.3	4222429	0.014686	0.019422	6.96E-03	7.79E-03	2.13E-02	6.96E-03	1.93E-03	3.79E-03	2.28E-03	1.49E-03	2.11E-03	1.04E-03
1118	565609.9	4222419	0.015149	0.020035	7.18E-03	8.03E-03	2.20E-02	7.18E-03	1.99E-03	3.91E-03	2.35E-03	1.54E-03	2.18E-03	1.07E-03
1119	565620.6	4222438	0.013274	0.017555	6.29E-03	7.04E-03	1.92E-02	6.29E-03	1.74E-03	3.43E-03	2.06E-03	1.35E-03	1.91E-03	9.39E-04
1120	565620.1	4222428	0.013704	0.018123	6.49E-03	7.27E-03	1.99E-02	6.49E-03	1.80E-03	3.54E-03	2.12E-03	1.39E-03	1.97E-03	9.69E-04
1121	565619.7	4222419	0.014092	0.018637	6.68E-03	7.47E-03	2.04E-02	6.68E-03	1.85E-03	3.64E-03	2.18E-03	1.43E-03	2.03E-03	9.97E-04
1122	565630.4	4222437	0.012434	0.016444	5.89E-03	6.59E-03	1.80E-02	5.89E-03	1.63E-03	3.21E-03	1.93E-03	1.26E-03	1.79E-03	8.79E-04
1123	565630	4222428	0.012795	0.016922	6.06E-03	6.78E-03	1.86E-02	6.06E-03	1.68E-03	3.31E-03	1.98E-03	1.30E-03	1.84E-03	9.05E-04
1124	565629.5	4222418	0.013118	0.017348	6.21E-03	6.96E-03	1.90E-02	6.21E-03	1.72E-03	3.39E-03	2.03E-03	1.33E-03	1.89E-03	9.28E-04
1125	565640.2	4222437	0.011679	0.015445	5.53E-03	6.19E-03	1.69E-02	5.53E-03	1.53E-03	3.02E-03	1.81E-03	1.19E-03	1.68E-03	8.26E-04
1126	565639.8	4222427	0.011986	0.015852	5.68E-03	6.35E-03	1.74E-02	5.68E-03	1.57E-03	3.10E-03	1.86E-03	1.22E-03	1.72E-03	8.48E-04
1127	565639.4	4222418	0.012255	0.016207	5.81E-03	6.50E-03	1.78E-02	5.81E-03	1.61E-03	3.17E-03	1.90E-03	1.25E-03	1.76E-03	8.67E-04
1128	565650.1	4222436	0.010983	0.014524	5.20E-03	5.82E-03	1.59E-02	5.20E-03	1.44E-03	2.84E-03	1.70E-03	1.12E-03	1.58E-03	7.77E-04
1129	565649.6	4222427	0.011242	0.014868	5.33E-03	5.96E-03	1.63E-02	5.33E-03	1.48E-03	2.90E-03	1.74E-03	1.14E-03	1.62E-03	7.95E-04
1130	565649.2	4222417	0.011469	0.015167	5.43E-03	6.08E-03	1.66E-02	5.43E-03	1.51E-03	2.96E-03	1.78E-03	1.17E-03	1.65E-03	8.11E-04
1131	565659.9	4222436	0.010339	0.013673	4.90E-03	5.48E-03	1.50E-02	4.90E-03	1.36E-03	2.67E-03	1.60E-03	1.05E-03	1.49E-03	7.31E-04
1132	565659.4	4222426	0.010559	0.013964	5.00E-03	5.60E-03	1.53E-02	5.00E-03	1.39E-03	2.73E-03	1.64E-03	1.07E-03	1.52E-03	7.47E-04
1133	565659	4222417	0.010751	0.014217	5.09E-03	5.70E-03	1.56E-02	5.09E-03	1.41E-03	2.78E-03	1.67E-03	1.09E-03	1.55E-03	7.60E-04
1134	565669.7	4222435	0.009747	0.01289	4.62E-03	5.17E-03	1.41E-02	4.62E-03	1.28E-03	2.52E-03	1.51E-03	9.91E-04	1.40E-03	6.89E-04
1135	565669.3	4222426	0.009932	0.013136	4.71E-03	5.27E-03	1.44E-02	4.71E-03	1.30E-03	2.57E-03	1.54E-03	1.01E-03	1.43E-03	7.02E-04
1136	565668.8	4222416	0.010095	0.013351	4.78E-03	5.35E-03	1.46E-02	4.78E-03	1.33E-03	2.61E-03	1.56E-03	1.03E-03	1.45E-03	7.14E-04
1137	565679.1	4222425	0.009357	0.012374	4.43E-03	4.96E-03	1.36E-02	4.43E-03	1.23E-03	2.42E-03	1.45E-03	9.51E-04	1.35E-03	6.62E-04
1138	565678.7	4222416	0.009494	0.012556	4.50E-03	5.03E-03	1.38E-02	4.50E-03	1.25E-03	2.45E-03	1.47E-03	9.65E-04	1.37E-03	6.71E-04
1139	565689.4	4222435	0.008694	0.011497	4.12E-03	4.61E-03	1.26E-02	4.12E-03	1.14E-03	2.25E-03	1.35E-03	8.84E-04	1.25E-03	6.15E-04
1140	565688.5	4222415	0.008943	0.011827	4.24E-03	4.74E-03	1.30E-02	4.24E-03	1.17E-03	2.31E-03	1.39E-03	9.09E-04	1.29E-03	6.32E-04
1141	565699.2	4222434	0.008226	0.010878	3.90E-03	4.36E-03	1.19E-02	3.90E-03	1.08E-03	2.12E-03	1.28E-03	8.36E-04	1.18E-03	5.82E-04
1142	565698.8	4222425	0.008339	0.011028	3.95E-03	4.42E-03	1.21E-02	3.95E-03	1.10E-03	2.15E-03	1.29E-03	8.47E-04	1.20E-03	5.90E-04
1143	565709	4222434	0.007796	0.01031	3.69E-03	4.13E-03	1.13E-02	3.69E-03	1.02E-03	2.01E-03	1.21E-03	7.92E-04	1.12E-03	5.51E-04
1144	565708.6	4222424	0.007891	0.010436	3.74E-03	4.18E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.02E-04	1.14E-03	5.58E-04
1145	565708.2	4222415	0.007973	0.010544	3.78E-03	4.23E-03	1.16E-02	3.78E-03	1.05E-03	2.06E-03	1.24E-03	8.10E-04	1.15E-03	5.64E-04
1146	565718.9	4222433	0.0074	0.009787	3.51E-03	3.92E-03	1.07E-02	3.51E-03	9.72E-04	1.91E-03	1.15E-03	7.52E-04	1.06E-03	5.23E-04
1147	565718.4	4222424	0.007482	0.009895	3.54E-03	3.97E-03	1.08E-02	3.54E-03	9.83E-04	1.93E-03	1.16E-03	7.60E-04	1.08E-03	5.29E-04
1148	565718	4222414	0.00755	0.009984	3.58E-03	4.00E-03	1.09E-02	3.58E-03	9.91E-04	1.95E-03	1.17E-03	7.67E-04	1.09E-03	5.34E-04
1149	565728.7	4222433	0.007033	0.009301	3.33E-03	3.73E-03	1.02E-02	3.33E-03	9.24E-04	1.82E-03	1.09E-03	7.15E-04	1.01E-03	4.97E-04
1150	565728.2	4222423	0.007102	0.009393	3.36E-03	3.77E-03	1.03E-02	3.36E-03	9.33E-04	1.83E-03	1.10E-03	7.22E-04	1.02E-03	5.02E-04
1151	565727.8	4222414	0.007159	0.009468	3.39E-03	3.80E-03	1.04E-02	3.39E-03	9.40E-04	1.85E-03	1.11E-03	7.28E-04	1.03E-03	5.06E-04
1152	565738.5	4222432	0.006692	0.00885	3.17E-03	3.55E-03	9.70E-03	3.17E-03	8.79E-04	1.73E-03	1.04E-03	6.80E-04	9.63E-04	4.73E-04
1153	565738.1	4222423	0.00675	0.008927	3.20E-03	3.58E-03	9.79E-03	3.20E-03	8.86E-04	1.74E-03	1.05E-03	6.86E-04	9.71E-04	4.77E-04
1154	565737.6	4222413	0.006797	0.008988	3.22E-03	3.60E-03	9.85E-03	3.22E-03	8.93E-04	1.76E-03	1.05E-03	6.91E-04	9.78E-04	4.81E-04
1155	565748.3	4222432	0.006374	0.008429	3.02E-03	3.38E-03	9.24E-03	3.02E-03	8.37E-04	1.65E-03	9.88E-04	6.48E-04	9.17E-04	4.51E-04
1156	565747.9	4222422	0.006422	0.008494	3.04E-03	3.41E-03	9.31E-03	3.04E-03	8.43E-04	1.66E-03	9.96E-04	6.53E-04	9.24E-04	4.54E-04
1157	565747.5	4222413	0.00646	0.008543	3.06E-03	3.42E-03	9.36E-03	3.06E-03	8.48E-04	1.67E-03	1.00E-03	6.56E-04	9.29E-04	4.57E-04
1158	565758.2	4222431	0.006077	0.008037	2.88E-03	3.22E-03	8.81E-03	2.88E-03	7.98E-04	1.57E-03	9.42E-04	6.18E-04	8.74E-04	4.30E-04
1159	565757.7	4222422	0.006118	0.008091	2.90E-03	3.24E-03	8.87E-03	2.90E-03	8.03E-04	1.58E-03	9.48E-04	6.22E-04	8.80E-04	4.33E-04
1160	565757.3	4222412	0.006147	0.00813	2.91E-03	3.26E-03	8.91E-03	2.91E-03	8.07E-04	1.59E-03	9.53E-04	6.25E-04	8.84E-04	4.35E-04
1161	565768	4222431	0.005799	0.007669	2.75E-03	3.07E-03	8.41E-03	2.75E-03	7.62E-04	1.50E-03	8.99E-04	5.89E-04	8.34E-04	4.10E-04
1162	565767.6	4222421	0.005833	0.007714	2.76E-03	3.09E-03	8.46E-03	2.76E-03	7.66E-04	1.51E-03	9.04E-04	5.93E-04	8.39E-04	4.13E-04
1163	565767.1	4222412	0.005856	0.007745	2.77E-03	3.10E-03	8.49E-03	2.77E-03	7.69E-04	1.51E-03	9.08E-04	5.95E-04	8.42E-04	4.14E-04
1164	565777.8	4222431	0.005537	0.007322	2.62E-03	2.94E-03	8.03E-03	2.62E-03	7.27E-04	1.43E-03	8.58E-04	5.63E-04	7.96E-04	3.92E-04
1165	565777.4	4222421	0.005565	0.00736	2.64E-03	2.95E-03	8.07E-03	2.64E-03	7.31E-04	1.44E-03	8.63E-04	5.66E-04	8.01E-04	3.94E-04
1166	565777	4222411	0.005584	0.007385	2.65E-03	2.96E-03	8.10E-03	2.65E-03	7.33E-04	1.44E-03	8.66E-04	5.67E-04	8.03E-04	3.95E-04
1167	565787.2	4222421	0.005316	0.00703	2.52E-03	2.82E-03	7.71E-03	2.52E-03	6.98E-04	1.37E-03	8.24E-04	5.40E-04	7.65E-04	3.76E-04
1168	565786.8	4222411	0.00533	0.007049	2.53E-03	2.83E-03	7.73E-03	2.53E-03	7.00E-04	1.38E-03	8.26E-04	5.42E-04	7.67E-04	3.77E-04
1169	565796.6	4222411	0.00523	0.006917	2.48E-03	2.77E-03	7.58E-03	2.48E-03	6.87E-04	1.35E-03	8.11E-04	5.32E-04	7.52E-04	3.70E-04
1170	565807.3	4222429	0.004984	0.006591	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.06E-04	7.17E-04	3.52E-04
1171	565827.3	4222428	0.004577	0.006053	2.17E-03	2.43E-03	6.64E-03	2.17E-03	6.01E-04	1.18E-03	7.09E-04	4.65E-04	6.58E-04	3.24E-04
1172	565826.9	4222419	0.004587	0.006067	2.17E-03	2.43E-03	6.65E-03	2.17E-03	6.02E-04	1.19E-03	7.11E-04	4.66E-04	6.60E-04	3.24E-04
1173	565826.4	4222409	0.00459	0.006071	2.17E-03	2.43E-03	6.66E-03	2.17E-03	6.03E-04	1.19E-03	7.12E-04	4.67E-04	6.60E-04	3.25E-04
1174	565847.3	4222427	0.004203	0.005559	1.99E-03	2.23E-03	6.09E-03	1.99E-03	5.52E-04	1.09E-03	6.52E-04	4.27E-04	6.05E-04	2.97E-04
1175	565846.8	4222418	0.004214	0.005573	2.00E-03	2.23E-03	6.11E-03	2.00E-03	5.53E-04	1.09E-03	6.53E-04	4.28E-04	6.06E-04	2.98E-04
1176	565846.4	4222408	0.004218	0.005579	2.00E-03	2.24E-03	6.12E-03	2.00E-03	5.54E-04	1.09E-03	6.54E-04	4.29E-04	6.07E-04	2.98E-04
1177	565867.2	4222427	0.003886	0.005139	1.84E-03	2.06E-03	5.63E-03	1.84E-03	5.10E-04	1.00E-03	6.02E-04	3.95E-04	5.59E-04	2.75E-04
1178	565866.8	4222417	0.003892	0.005147	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.01E-03	6.03E-04	3.96E-04	5.60E-04	2.75E-04
1179	565866.4	4222407	0.003893	0.005148	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.01E-03	6.03E-04	3.96E-04	5.60E-04	2.75E-04
1180	565887.2	4222426	0.003609	0.004773	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.74E-04	9.32E-04	5.60E-04	3.67E-04	5.19E-04	2.55E-04

1181	565886.8	4222416	0.00361	0.004774	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.74E-04	9.33E-04	5.60E-04	3.67E-04	5.19E-04	2.55E-04
1182	565886.4	4222406	0.003607	0.00477	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.74E-04	9.32E-04	5.59E-04	3.67E-04	5.19E-04	2.55E-04
1183	565907.2	4222425	0.003352	0.004433	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.66E-04	5.20E-04	3.41E-04	4.82E-04	2.37E-04
1184	565906.8	4222415	0.003356	0.004438	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
1185	565906.3	4222406	0.003356	0.004438	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
1186	565927.2	4222424	0.003129	0.004138	1.48E-03	1.66E-03	4.54E-03	1.48E-03	4.11E-04	8.08E-04	4.85E-04	3.18E-04	4.50E-04	2.21E-04
1187	565926.8	4222414	0.003133	0.004143	1.48E-03	1.66E-03	4.54E-03	1.48E-03	4.11E-04	8.09E-04	4.86E-04	3.18E-04	4.51E-04	2.22E-04
1188	565926.3	4222405	0.003134	0.004144	1.48E-03	1.66E-03	4.54E-03	1.48E-03	4.12E-04	8.10E-04	4.86E-04	3.18E-04	4.51E-04	2.22E-04
1189	565947.6	4222432	0.002928	0.003872	1.39E-03	1.55E-03	4.24E-03	1.39E-03	3.84E-04	7.56E-04	4.54E-04	2.98E-04	4.21E-04	2.07E-04
1190	565947.2	4222423	0.002933	0.003879	1.39E-03	1.55E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.07E-04
1191	565946.7	4222413	0.002935	0.003881	1.39E-03	1.56E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.08E-04
1192	565946.3	4222404	0.002934	0.003881	1.39E-03	1.56E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.08E-04
1193	565967.6	4222432	0.002751	0.003639	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.61E-04	7.11E-04	4.27E-04	2.80E-04	3.96E-04	1.95E-04
1194	565967.1	4222422	0.002754	0.003641	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.62E-04	7.11E-04	4.27E-04	2.80E-04	3.96E-04	1.95E-04
1195	565966.7	4222412	0.002751	0.003639	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.61E-04	7.11E-04	4.27E-04	2.80E-04	3.96E-04	1.95E-04
1196	565966.3	4222403	0.002747	0.003633	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
1197	565987.6	4222431	0.002591	0.003427	1.23E-03	1.37E-03	3.76E-03	1.23E-03	3.40E-04	6.69E-04	4.02E-04	2.63E-04	3.73E-04	1.83E-04
1198	565987.1	4222421	0.002592	0.003427	1.23E-03	1.37E-03	3.76E-03	1.23E-03	3.40E-04	6.69E-04	4.02E-04	2.63E-04	3.73E-04	1.83E-04
1199	565986.7	4222412	0.002588	0.003422	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.69E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
1200	565986.3	4222402	0.002583	0.003416	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.62E-04	3.72E-04	1.83E-04
1201	566007.5	4222430	0.002445	0.003234	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.21E-04	6.32E-04	3.79E-04	2.49E-04	3.52E-04	1.73E-04
1202	566007.1	4222420	0.002444	0.003232	1.16E-03	1.30E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.79E-04	2.48E-04	3.52E-04	1.73E-04
1203	566006.7	4222411	0.00244	0.003227	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.20E-04	6.30E-04	3.78E-04	2.48E-04	3.51E-04	1.73E-04
1204	566006.2	4222401	0.002435	0.00322	1.15E-03	1.29E-03	3.53E-03	1.15E-03	3.20E-04	6.29E-04	3.77E-04	2.47E-04	3.50E-04	1.72E-04
1205	566027.5	4222429	0.002312	0.003058	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.97E-04	3.58E-04	2.35E-04	3.33E-04	1.64E-04
1206	566027.1	4222419	0.002308	0.003052	1.09E-03	1.22E-03	3.35E-03	1.09E-03	3.03E-04	5.96E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
1207	566026.7	4222410	0.002301	0.003043	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.02E-04	5.94E-04	3.57E-04	2.34E-04	3.31E-04	1.63E-04
1208	566026.2	4222400	0.002293	0.003032	1.09E-03	1.22E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
1209	566047.5	4222428	0.002185	0.002889	1.03E-03	1.16E-03	3.17E-03	1.03E-03	2.87E-04	5.64E-04	3.39E-04	2.22E-04	3.14E-04	1.54E-04
1210	566047.1	4222418	0.00218	0.002884	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.22E-04	3.14E-04	1.54E-04
1211	566046.6	4222409	0.002174	0.002876	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.86E-04	5.62E-04	3.37E-04	2.21E-04	3.13E-04	1.54E-04
1212	566046.2	4222399	0.002167	0.002866	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
1213	566067.5	4222427	0.002064	0.00273	9.78E-04	1.09E-03	2.99E-03	9.78E-04	2.71E-04	5.33E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
1214	566067	4222417	0.002061	0.002726	9.77E-04	1.09E-03	2.99E-03	9.77E-04	2.71E-04	5.33E-04	3.20E-04	2.09E-04	2.97E-04	1.46E-04
1215	565560.4	4222408	0.024141	0.031926	1.14E-02	1.28E-02	3.50E-02	1.14E-02	3.17E-03	6.24E-03	3.74E-03	2.45E-03	3.47E-03	1.71E-03
1216	565570.3	4222408	0.02192	0.02899	1.04E-02	1.16E-02	3.18E-02	1.04E-02	2.88E-03	5.66E-03	3.40E-03	2.23E-03	3.15E-03	1.55E-03
1217	565580.1	4222408	0.02001	0.026463	9.48E-03	1.06E-02	2.90E-02	9.48E-03	2.63E-03	5.17E-03	3.10E-03	2.03E-03	2.88E-03	1.42E-03
1218	565589.9	4222408	0.018351	0.024269	8.69E-03	9.73E-03	2.66E-02	8.69E-03	2.41E-03	4.74E-03	2.84E-03	1.86E-03	2.64E-03	1.30E-03
1219	565619.5	4222407	0.014458	0.019121	6.85E-03	7.67E-03	2.10E-02	6.85E-03	1.90E-03	3.74E-03	2.24E-03	1.47E-03	2.08E-03	1.02E-03
1220	565629.3	4222407	0.013408	0.017732	6.35E-03	7.11E-03	1.94E-02	6.35E-03	1.76E-03	3.46E-03	2.08E-03	1.36E-03	1.93E-03	9.48E-04
1221	565639.1	4222407	0.012489	0.016517	5.92E-03	6.62E-03	1.81E-02	5.92E-03	1.64E-03	3.23E-03	1.94E-03	1.27E-03	1.80E-03	8.83E-04
1222	565649	4222406	0.011657	0.015416	5.52E-03	6.18E-03	1.69E-02	5.52E-03	1.53E-03	3.01E-03	1.81E-03	1.18E-03	1.68E-03	8.24E-04
1223	565658.8	4222406	0.010903	0.014419	5.17E-03	5.78E-03	1.58E-02	5.17E-03	1.43E-03	2.82E-03	1.69E-03	1.11E-03	1.57E-03	7.71E-04
1224	565668.6	4222406	0.010219	0.013515	4.84E-03	5.42E-03	1.48E-02	4.84E-03	1.34E-03	2.64E-03	1.58E-03	1.04E-03	1.47E-03	7.23E-04
1225	565678.5	4222406	0.009594	0.012689	4.55E-03	5.09E-03	1.39E-02	4.55E-03	1.26E-03	2.48E-03	1.49E-03	9.75E-04	1.38E-03	6.79E-04
1226	565688.3	4222405	0.009022	0.011932	4.27E-03	4.78E-03	1.31E-02	4.27E-03	1.18E-03	2.33E-03	1.40E-03	9.17E-04	1.30E-03	6.38E-04
1227	565698.1	4222405	0.008499	0.011239	4.03E-03	4.51E-03	1.23E-02	4.03E-03	1.12E-03	2.20E-03	1.32E-03	8.64E-04	1.22E-03	6.01E-04
1228	565717.8	4222405	0.007588	0.010035	3.59E-03	4.02E-03	1.10E-02	3.59E-03	9.96E-04	1.96E-03	1.18E-03	7.71E-04	1.09E-03	5.37E-04
1229	565727.7	4222405	0.007188	0.009506	3.41E-03	3.81E-03	1.04E-02	3.41E-03	9.44E-04	1.86E-03	1.11E-03	7.30E-04	1.03E-03	5.08E-04
1230	565737.6	4222400	0.006818	0.009017	3.23E-03	3.62E-03	9.89E-03	3.23E-03	8.95E-04	1.76E-03	1.06E-03	6.93E-04	9.81E-04	4.82E-04
1231	565747.4	4222400	0.006472	0.008559	3.07E-03	3.43E-03	9.38E-03	3.07E-03	8.50E-04	1.67E-03	1.00E-03	6.58E-04	9.31E-04	4.58E-04
1232	565757.2	4222400	0.006152	0.008136	2.91E-03	3.26E-03	8.92E-03	2.91E-03	8.08E-04	1.59E-03	9.54E-04	6.25E-04	8.85E-04	4.35E-04
1233	565767.1	4222400	0.005856	0.007744	2.77E-03	3.10E-03	8.49E-03	2.77E-03	7.69E-04	1.51E-03	9.08E-04	5.95E-04	8.42E-04	4.14E-04
1234	565776.9	4222400	0.005581	0.00738	2.64E-03	2.96E-03	8.09E-03	2.64E-03	7.33E-04	1.44E-03	8.65E-04	5.67E-04	8.03E-04	3.95E-04
1235	565786.7	4222400	0.005325	0.007042	2.52E-03	2.82E-03	7.72E-03	2.52E-03	6.99E-04	1.38E-03	8.25E-04	5.41E-04	7.66E-04	3.77E-04
1236	565796.6	4222400	0.005221	0.006904	2.47E-03	2.77E-03	7.57E-03	2.47E-03	6.86E-04	1.35E-03	8.09E-04	5.31E-04	7.51E-04	3.69E-04
1237	565806.4	4222400	0.004996	0.006607	2.37E-03	2.65E-03	7.24E-03	2.37E-03	6.56E-04	1.29E-03	7.74E-04	5.08E-04	7.19E-04	3.53E-04
1238	565560.8	4222399	0.024934	0.032976	1.18E-02	1.32E-02	3.62E-02	1.18E-02	3.27E-03	6.44E-03	3.87E-03	2.53E-03	3.59E-03	1.76E-03
1239	565570.6	4222400	0.022468	0.029714	1.06E-02	1.19E-02	3.26E-02	1.06E-02	2.95E-03	5.80E-03	3.48E-03	2.28E-03	3.23E-03	1.59E-03
1240	565581.1	4222394	0.020598	0.02724	9.76E-03	1.09E-02	2.99E-02	9.76E-03	2.71E-03	5.32E-03	3.19E-03	2.09E-03	2.96E-03	1.46E-03
1241	565590.9	4222394	0.018767	0.024819	8.89E-03	9.95E-03	2.72E-02	8.89E-03	2.46E-03	4.85E-03	2.91E-03	1.91E-03	2.70E-03	1.33E-03
1242	565620.3	4222397	0.014589	0.019294	6.91E-03	7.74E-03	2.12E-02	6.91E-03	1.92E-03	3.77E-03	2.26E-03	1.48E-03	2.10E-03	1.03E-03
1243	565630.1	4222398	0.013487	0.017836	6.39E-03	7.15E-03	1.96E-02	6.39E-03	1.77E-03	3.48E-03	2.09E-03	1.37E-03	1.94E-03	9.54E-04
1244	565925.2	4222433	0.00315	0.004166	1.49E-03	1.67E-03	4.57E-03	1.49E-03	4.14E-04	8.14E-04	4.88E-04	3.20E-04	4.53E-04	2.23E-04
1245	565561.7	4222389	0.025428	0.033628	1.20E-02	1.35E-02	3.69E-02	1.20E-02	3.34E-03	6.57E-03	3.94E-03	2.58E-03	3.66E-03	1.80E-03
1246	565571.5	4222389	0.022871	0.030247	1.08E-02	1.21E-02	3.32E-02	1.08E-02	3.00E-03	5.91E-03	3.55E-03	2.32E-03	3.29E-03	1.62E-03
1247	565581.7	4222381	0.020918	0.027664	9.91E-03	1.11E-02	3.03E-02	9.91E-03	2.75E-03	5.40E-03	3.24E-03	2.13E-03	3.01E-03	1.48E-03
1248	565591.5	4222381	0.019019	0.025153	9.01E-03	1.01E-02	2.76E-02	9.01E-03	2.50E-03	4.91E-03	2.95E-03	1.93E-03	2.74E-03	1.35E-03
1249	565621	4222383	0.014697	0.019437	6.96E-03	7.79E-03	2.13E-02	6.96E-03	1.93E-03	3.80E-03	2.28E-03	1.49E-03	2.11E-03	1.04E-03
1250	565630.9	4222383	0.013573	0.017951	6.43E-03	7.20E-03	1.97E-02	6.43E-03	1.78E-03	3.51E-03	2.10E-03	1.38E-03	1.95E-03	9.60E-04
1251	565640.4	4222392	0.012566	0.016618	5.95E-03	6.66E-03	1.82E-02	5.95E-03	1.65E-03	3.25E-03	1.95E-03	1.28E-03	1.81E-03	8.89E-04
1252	565650.2	4222392	0.011699	0.015472	5.54E-03	6.20E-03	1.70E-02	5.54E-03	1.54E-03	3.02E-03	1.81E-03	1.19E-03	1.68E-03	8.27E-04
1253	565659.7	4222397	0.010917	0.014437	5.17E-03	5.79E-03	1.58E-02	5.17E-03	1.43E-03	2.82E-03	1.69E-03	1.11E-03	1.57E-03	7.72E-04
1254	565660.3	4222384	0.010918	0.014439	5.17E-03	5.79E-03	1.58E-02	5.17E-03	1.43E-03	2.82E-03	1.69E-03	1.11E-03	1.57E-03	7.72E-04
1255	565669.9	4222393	0.010217	0.013512	4.84E-03	5.42E-03	1.48E-02	4.84E-03	1.34E-03	2.64E-03	1.58E-03	1.04E-03	1.47E-03	7.23E-04
1256	565679.7	4222393	0.009578	0.012667	4.54E-03	5.08E-03	1.39E-02	4.54E-03	1.26E-03	2.47E-03	1.48E-03	9.73E-04	1.38E-03	6.77E-04
1257	565689.5	4222394	0.008997	0.011898	4.26E-03	4.77E-03	1.30E-02	4.26E-03	1.18E-03	2.32E-03	1.39E-03	9.14E-04	1.29E-03	6.36E-04
1258	565699.3	4222394	0.008467	0.011197	4.01E-03	4.49E-03	1.23E-02	4.01E-03	1.11E-03	2.19E-03	1.31E-03	8.60E-04	1.22E-03	5.99E-04
1259	565709.2	4222394	0.007986	0.010562	3.78E-03	4.23E-03	1.16E-02	3.78E-03	1.05E-03	2.06E-03	1.24E-03	8.12E-04	1.15E-03	5.65E-04
1260	565728.8	4222395	0.007148	0.009454	3.39E-03	3.79E-03	1.04E-02	3.39E-03	9.39E-04	1.85E-03	1.11E-03	7.26E-04	1.03E-03	5.06E-04
1261	565739	4222387	0.006752	0.008929	3.20E-03	3.58E-03	9.79E-03	3.20E-03	8.87E-04	1.74E-03	1.05E-03	6.86E-04	9.71E-04	4.77E-04
1262	565748.8	4222388	0.006408	0.008474	3.04E-03	3.40E-03	9.29E-03	3.04E-03	8.42E-04	1.66E-03	9.93E-04	6.51E-04	9.22E-04	4.53E-04
1263	565758.7	4222388	0.00609	0.008054	2.89E-03	3.23E-03	8.83E-03	2.89E-03	8.00E-04	1.57E-03	9.44E-04	6.19E-04	8.76E-04	4.31E-04
1264	565768.5	4222388	0.005797	0.007666	2.75E-03	3.07E-03	8.40E-03	2.75E-03	7.61E-04	1.50E-03	8.99E-04	5.89E-04	8.34E-04	4.10E-04
1265	565778.3	4222389	0.005525	0.007306	2.62E-03	2.93E-03	8.01E-03	2.62E-03	7.26E-04	1.43E-03	8.56E-04	5.61E-04	7.95E-04	3.91E-04
1266	565788.2	4222389	0.005272	0.006973	2.50E-03	2.80E-03	7.64E-03	2.50E-03	6.92E-04	1.36E-03	8.17E-04	5.36E-04	7.58E-04	3.73E-04
1267	565798	4222390	0.005168	0.006834	2.45E-03	2.74E-03	7.49E-03	2.45E-03	6.79E-04	1.34E-03	8.01E-04	5.25E-04	7.43E-04	3.65E-04
1268	565807.8	4222390	0.004946	0.00654	2.34E-03	2.62E-03	7.17E-03	2.34E-03	6.49E-04	1.28E-03	7.67E-04	5.03E-04	7.11E-04	3.50E-04
1269	565847.8	4222392	0.004176	0.005522	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.01E-04	2.95E-04
1270	565867.8	4222392	0.003856	0.005099	1.83E-03	2.04E-03	5.59E-03	1.83E-03	5.06E-04	9.96E-04	5.98E-04	3.92E-04	5.55E-04	2.73E-04
1271	565887.7	4222393	0.003572	0.004724	1.69E-03	1.89E-03	5.18E-03	1.69E-03	4.69E-04	9.23E-04	5.54E-04	3.63E-04	5.14E-04	2.53E-04

1272	565907.7	4222394	0.003329	0.004402	1.58E-03	1.76E-03	4.83E-03	1.58E-03	4.37E-04	8.60E-04	5.16E-04	3.38E-04	4.79E-04	2.35E-04
1273	565927.7	4222395	0.003111	0.004115	1.47E-03	1.65E-03	4.51E-03	1.47E-03	4.09E-04	8.04E-04	4.82E-04	3.16E-04	4.48E-04	2.20E-04
1274	565562.1	4222378	0.025889	0.034238	1.23E-02	1.37E-02	3.75E-02	1.23E-02	3.40E-03	6.69E-03	4.01E-03	2.63E-03	3.72E-03	1.83E-03
1275	565562	4222368	0.026218	0.034674	1.24E-02	1.39E-02	3.80E-02	1.24E-02	3.44E-03	6.77E-03	4.06E-03	2.66E-03	3.77E-03	1.85E-03
1276	565562	4222358	0.026357	0.034857	1.25E-02	1.40E-02	3.82E-02	1.25E-02	3.46E-03	6.81E-03	4.09E-03	2.68E-03	3.79E-03	1.86E-03
1277	565562	4222348	0.026304	0.034786	1.25E-02	1.39E-02	3.81E-02	1.25E-02	3.45E-03	6.80E-03	4.08E-03	2.67E-03	3.78E-03	1.86E-03
1278	565561.9	4222338	0.026058	0.034462	1.23E-02	1.38E-02	3.78E-02	1.23E-02	3.42E-03	6.73E-03	4.04E-03	2.65E-03	3.75E-03	1.84E-03
1279	565561.9	4222328	0.025622	0.033885	1.21E-02	1.36E-02	3.71E-02	1.21E-02	3.36E-03	6.62E-03	3.97E-03	2.60E-03	3.69E-03	1.81E-03
1280	565561.8	4222318	0.025	0.033062	1.18E-02	1.33E-02	3.62E-02	1.18E-02	3.28E-03	6.46E-03	3.88E-03	2.54E-03	3.60E-03	1.77E-03
1281	565571.9	4222378	0.023231	0.030722	1.10E-02	1.23E-02	3.37E-02	1.10E-02	3.05E-03	6.00E-03	3.60E-03	2.36E-03	3.34E-03	1.64E-03
1282	565571.9	4222368	0.023465	0.031033	1.11E-02	1.24E-02	3.40E-02	1.11E-02	3.08E-03	6.06E-03	3.64E-03	2.38E-03	3.38E-03	1.66E-03
1283	565571.8	4222358	0.023539	0.03113	1.12E-02	1.25E-02	3.41E-02	1.12E-02	3.09E-03	6.08E-03	3.65E-03	2.39E-03	3.39E-03	1.66E-03
1284	565571.8	4222348	0.023449	0.031011	1.11E-02	1.24E-02	3.40E-02	1.11E-02	3.08E-03	6.06E-03	3.64E-03	2.38E-03	3.37E-03	1.66E-03
1285	565571.8	4222338	0.023195	0.030676	1.10E-02	1.23E-02	3.36E-02	1.10E-02	3.05E-03	5.99E-03	3.60E-03	2.36E-03	3.34E-03	1.64E-03
1286	565571.7	4222328	0.022782	0.030128	1.08E-02	1.21E-02	3.30E-02	1.08E-02	2.99E-03	5.89E-03	3.53E-03	2.32E-03	3.28E-03	1.61E-03
1287	565571.7	4222318	0.022204	0.029365	1.05E-02	1.18E-02	3.22E-02	1.05E-02	2.92E-03	5.74E-03	3.44E-03	2.26E-03	3.19E-03	1.57E-03
1288	565571.6	4222308	0.021472	0.028397	1.02E-02	1.14E-02	3.11E-02	1.02E-02	2.82E-03	5.55E-03	3.33E-03	2.18E-03	3.09E-03	1.52E-03
1289	565571.6	4222299	0.020592	0.027232	9.76E-03	1.09E-02	2.99E-02	9.76E-03	2.70E-03	5.32E-03	3.19E-03	2.09E-03	2.96E-03	1.46E-03
1290	565581.7	4222368	0.021153	0.027974	1.00E-02	1.12E-02	3.07E-02	1.00E-02	2.78E-03	5.46E-03	3.28E-03	2.15E-03	3.04E-03	1.50E-03
1291	565581.7	4222358	0.021177	0.028007	1.00E-02	1.12E-02	3.07E-02	1.00E-02	2.78E-03	5.47E-03	3.28E-03	2.15E-03	3.05E-03	1.50E-03
1292	565581.6	4222348	0.021062	0.027855	9.98E-03	1.12E-02	3.05E-02	9.98E-03	2.77E-03	5.44E-03	3.27E-03	2.14E-03	3.03E-03	1.49E-03
1293	565581.6	4222338	0.02081	0.027521	9.86E-03	1.10E-02	3.02E-02	9.86E-03	2.73E-03	5.38E-03	3.23E-03	2.11E-03	2.99E-03	1.47E-03
1294	565581.6	4222328	0.020417	0.027001	9.67E-03	1.08E-02	2.96E-02	9.67E-03	2.68E-03	5.27E-03	3.17E-03	2.07E-03	2.94E-03	1.44E-03
1295	565581.5	4222318	0.019889	0.026303	9.42E-03	1.05E-02	2.88E-02	9.42E-03	2.61E-03	5.14E-03	3.08E-03	2.02E-03	2.86E-03	1.41E-03
1296	565581.5	4222308	0.019233	0.025436	9.11E-03	1.02E-02	2.79E-02	9.11E-03	2.53E-03	4.97E-03	2.98E-03	1.95E-03	2.77E-03	1.36E-03
1297	565581.4	4222298	0.018459	0.024411	8.75E-03	9.79E-03	2.68E-02	8.75E-03	2.42E-03	4.77E-03	2.86E-03	1.88E-03	2.66E-03	1.31E-03
1298	565591.6	4222368	0.019183	0.025369	9.09E-03	1.02E-02	2.78E-02	9.09E-03	2.52E-03	4.96E-03	2.97E-03	1.95E-03	2.76E-03	1.36E-03
1299	565591.5	4222358	0.019171	0.025353	9.08E-03	1.02E-02	2.78E-02	9.08E-03	2.52E-03	4.95E-03	2.97E-03	1.95E-03	2.76E-03	1.36E-03
1300	565591.5	4222348	0.019042	0.025183	9.02E-03	1.01E-02	2.76E-02	9.02E-03	2.50E-03	4.92E-03	2.95E-03	1.94E-03	2.74E-03	1.35E-03
1301	565591.4	4222338	0.018791	0.024851	8.90E-03	9.96E-03	2.72E-02	8.90E-03	2.47E-03	4.85E-03	2.91E-03	1.91E-03	2.70E-03	1.33E-03
1302	565591.4	4222328	0.018428	0.024371	8.73E-03	9.77E-03	2.67E-02	8.73E-03	2.42E-03	4.76E-03	2.86E-03	1.87E-03	2.65E-03	1.30E-03
1303	565591.4	4222318	0.017954	0.023744	8.51E-03	9.52E-03	2.60E-02	8.51E-03	2.36E-03	4.64E-03	2.78E-03	1.82E-03	2.58E-03	1.27E-03
1304	565591.3	4222308	0.017376	0.022979	8.23E-03	9.21E-03	2.52E-02	8.23E-03	2.28E-03	4.49E-03	2.69E-03	1.77E-03	2.50E-03	1.23E-03
1305	565591.3	4222298	0.016696	0.022081	7.91E-03	8.85E-03	2.42E-02	7.91E-03	2.19E-03	4.31E-03	2.59E-03	1.70E-03	2.40E-03	1.18E-03
1306	565601.2	4222328	0.016735	0.022132	7.93E-03	8.87E-03	2.43E-02	7.93E-03	2.20E-03	4.32E-03	2.59E-03	1.70E-03	2.41E-03	1.18E-03
1307	565601.2	4222318	0.016312	0.021573	7.73E-03	8.65E-03	2.36E-02	7.73E-03	2.14E-03	4.21E-03	2.53E-03	1.66E-03	2.35E-03	1.15E-03
1308	565601.2	4222308	0.015801	0.020897	7.49E-03	8.38E-03	2.29E-02	7.49E-03	2.08E-03	4.08E-03	2.45E-03	1.61E-03	2.27E-03	1.12E-03
1309	565601.1	4222298	0.015205	0.020108	7.20E-03	8.06E-03	2.20E-02	7.20E-03	2.00E-03	3.93E-03	2.36E-03	1.55E-03	2.19E-03	1.08E-03
1310	565621.1	4222368	0.014723	0.019471	6.98E-03	7.81E-03	2.13E-02	6.98E-03	1.93E-03	3.80E-03	2.28E-03	1.50E-03	2.12E-03	1.04E-03
1311	565621	4222358	0.014654	0.019379	6.94E-03	7.77E-03	2.12E-02	6.94E-03	1.92E-03	3.79E-03	2.27E-03	1.49E-03	2.11E-03	1.04E-03
1312	565621	4222338	0.014292	0.0189	6.77E-03	7.58E-03	2.07E-02	6.77E-03	1.88E-03	3.69E-03	2.22E-03	1.45E-03	2.06E-03	1.01E-03
1313	565620.9	4222328	0.014016	0.018535	6.64E-03	7.43E-03	2.03E-02	6.64E-03	1.84E-03	3.62E-03	2.17E-03	1.42E-03	2.02E-03	9.91E-04
1314	565620.9	4222318	0.013673	0.018083	6.48E-03	7.25E-03	1.98E-02	6.48E-03	1.80E-03	3.53E-03	2.12E-03	1.39E-03	1.97E-03	9.67E-04
1315	565620.8	4222308	0.013263	0.017541	6.28E-03	7.03E-03	1.92E-02	6.28E-03	1.74E-03	3.43E-03	2.06E-03	1.35E-03	1.91E-03	9.38E-04
1316	565620.8	4222298	0.0128	0.016927	6.06E-03	6.79E-03	1.86E-02	6.06E-03	1.68E-03	3.31E-03	1.98E-03	1.30E-03	1.84E-03	9.05E-04
1317	565630.9	4222367	0.013585	0.017965	6.44E-03	7.20E-03	1.97E-02	6.44E-03	1.78E-03	3.51E-03	2.11E-03	1.38E-03	1.95E-03	9.61E-04
1318	565630.9	4222358	0.013509	0.017865	6.40E-03	7.16E-03	1.96E-02	6.40E-03	1.77E-03	3.49E-03	2.09E-03	1.37E-03	1.94E-03	9.55E-04
1319	565630.8	4222338	0.013163	0.017408	6.24E-03	6.98E-03	1.91E-02	6.24E-03	1.73E-03	3.40E-03	2.04E-03	1.34E-03	1.89E-03	9.31E-04
1320	565630.8	4222328	0.0129	0.01706	6.11E-03	6.84E-03	1.87E-02	6.11E-03	1.69E-03	3.33E-03	2.00E-03	1.31E-03	1.86E-03	9.12E-04
1321	565630.7	4222318	0.012583	0.01664	5.96E-03	6.67E-03	1.82E-02	5.96E-03	1.65E-03	3.25E-03	1.95E-03	1.28E-03	1.81E-03	8.90E-04
1322	565630.7	4222308	0.012215	0.016154	5.79E-03	6.48E-03	1.77E-02	5.79E-03	1.60E-03	3.16E-03	1.89E-03	1.24E-03	1.76E-03	8.64E-04
1323	565630.6	4222298	0.011804	0.01561	5.59E-03	6.26E-03	1.71E-02	5.59E-03	1.55E-03	3.05E-03	1.83E-03	1.20E-03	1.70E-03	8.35E-04
1324	565640.8	4222377	0.012594	0.016656	5.97E-03	6.68E-03	1.83E-02	5.97E-03	1.65E-03	3.25E-03	1.95E-03	1.28E-03	1.81E-03	8.91E-04
1325	565640.8	4222367	0.012578	0.016634	5.96E-03	6.67E-03	1.82E-02	5.96E-03	1.65E-03	3.25E-03	1.95E-03	1.28E-03	1.81E-03	8.90E-04
1326	565640.6	4222338	0.012171	0.016095	5.77E-03	6.45E-03	1.76E-02	5.77E-03	1.60E-03	3.14E-03	1.89E-03	1.24E-03	1.75E-03	8.61E-04
1327	565640.6	4222328	0.011931	0.015778	5.65E-03	6.33E-03	1.73E-02	5.65E-03	1.57E-03	3.08E-03	1.85E-03	1.21E-03	1.72E-03	8.44E-04
1328	565640.5	4222318	0.011644	0.015399	5.52E-03	6.17E-03	1.69E-02	5.52E-03	1.53E-03	3.01E-03	1.81E-03	1.18E-03	1.67E-03	8.23E-04
1329	565640.5	4222308	0.011315	0.014964	5.36E-03	6.00E-03	1.64E-02	5.36E-03	1.49E-03	2.92E-03	1.75E-03	1.15E-03	1.63E-03	8.00E-04
1330	565640.5	4222298	0.010951	0.014482	5.19E-03	5.81E-03	1.59E-02	5.19E-03	1.44E-03	2.83E-03	1.70E-03	1.11E-03	1.58E-03	7.74E-04
1331	565650.6	4222377	0.011704	0.015479	5.55E-03	6.21E-03	1.70E-02	5.55E-03	1.54E-03	3.02E-03	1.81E-03	1.19E-03	1.68E-03	8.28E-04
1332	565650.6	4222367	0.011676	0.015441	5.53E-03	6.19E-03	1.69E-02	5.53E-03	1.53E-03	3.02E-03	1.81E-03	1.19E-03	1.68E-03	8.26E-04
1333	565650.4	4222328	0.011068	0.014637	5.24E-03	5.87E-03	1.60E-02	5.24E-03	1.45E-03	2.86E-03	1.72E-03	1.12E-03	1.59E-03	7.83E-04
1334	565650.4	4222318	0.010811	0.014298	5.12E-03	5.73E-03	1.57E-02	5.12E-03	1.42E-03	2.79E-03	1.68E-03	1.10E-03	1.56E-03	7.65E-04
1335	565650.3	4222308	0.01052	0.013913	4.98E-03	5.58E-03	1.53E-02	4.98E-03	1.38E-03	2.72E-03	1.63E-03	1.07E-03	1.51E-03	7.44E-04
1336	565650.3	4222298	0.010196	0.013484	4.83E-03	5.41E-03	1.48E-02	4.83E-03	1.34E-03	2.63E-03	1.58E-03	1.04E-03	1.47E-03	7.21E-04
1337	565660.4	4222367	0.010867	0.014371	5.15E-03	5.76E-03	1.58E-02	5.15E-03	1.43E-03	2.81E-03	1.68E-03	1.10E-03	1.56E-03	7.69E-04
1338	565660.3	4222338	0.010495	0.01388	4.97E-03	5.56E-03	1.52E-02	4.97E-03	1.38E-03	2.71E-03	1.63E-03	1.07E-03	1.51E-03	7.42E-04
1339	565660.3	4222328	0.010299	0.013621	4.88E-03	5.46E-03	1.49E-02	4.88E-03	1.35E-03	2.66E-03	1.60E-03	1.05E-03	1.48E-03	7.28E-04
1340	565660.2	4222318	0.010071	0.013319	4.77E-03	5.34E-03	1.46E-02	4.77E-03	1.32E-03	2.60E-03	1.56E-03	1.02E-03	1.45E-03	7.12E-04
1341	565660.2	4222308	0.009813	0.012977	4.65E-03	5.20E-03	1.42E-02	4.65E-03	1.29E-03	2.54E-03	1.52E-03	9.97E-04	1.41E-03	6.94E-04
1342	565660.1	4222298	0.009524	0.012595	4.51E-03	5.05E-03	1.38E-02	4.51E-03	1.25E-03	2.46E-03	1.48E-03	9.68E-04	1.37E-03	6.74E-04
1343	565670.3	4222377	0.010186	0.013471	4.83E-03	5.40E-03	1.48E-02	4.83E-03	1.34E-03	2.63E-03	1.58E-03	1.04E-03	1.47E-03	7.20E-04
1344	565670.3	4222367	0.010141	0.013411	4.80E-03	5.38E-03	1.47E-02	4.80E-03	1.33E-03	2.62E-03	1.57E-03	1.03E-03	1.46E-03	7.17E-04
1345	565670.2	4222357	0.010059	0.013303	4.77E-03	5.33E-03	1.46E-02	4.77E-03	1.32E-03	2.60E-03	1.56E-03	1.02E-03	1.45E-03	7.11E-04
1346	565670.2	4222348	0.009941	0.013147	4.71E-03	5.27E-03	1.44E-02	4.71E-03	1.31E-03	2.57E-03	1.54E-03	1.01E-03	1.43E-03	7.03E-04
1347	565670.1	4222338	0.009789	0.012946	4.64E-03	5.19E-03	1.42E-02	4.64E-03	1.29E-03	2.53E-03	1.52E-03	9.95E-04	1.41E-03	6.92E-04
1348	565670.1	4222328	0.009613	0.012713	4.55E-03	5.10E-03	1.39E-02	4.55E-03	1.26E-03	2.48E-03	1.49E-03	9.77E-04	1.38E-03	6.80E-04
1349	565670.1	4222318	0.00941	0.012444	4.46E-03	4.99E-03	1.36E-02	4.46E-03	1.24E-03	2.43E-03	1.46E-03	9.56E-04	1.35E-03	6.65E-04
1350	565670	4222308	0.00918	0.012141	4.35E-03	4.87E-03	1.33E-02	4.35E-03	1.21E-03	2.37E-03	1.42E-03	9.33E-04	1.32E-03	6.49E-04
1351	565670	4222298	0.008922	0.011799	4.23E-03	4.73E-03	1.29E-02	4.23E-03	1.17E-03	2.30E-03	1.38E-03	9.07E-04	1.28E-03	6.31E-04
1352	565680.2	4222377	0.009539	0.012615	4.52E-03	5.06E-03	1.38E-02	4.52E-03	1.25E-03	2.46E-03	1.48E-03	9.69E-04	1.37E-03	6.75E-04
1353	565680.1	4222367	0.009492	0.012553	4.50E-03	5.03E-03	1.38E-02	4.50E-03	1.25E-03	2.45E-03	1.47E-03	9.65E-04	1.37E-03	6.71E-04
1354	565680.1	4222357	0.009412	0.012448	4.46E-03	4.99E-03	1.36E-02	4.46E-03	1.24E-03	2.43E-03	1.46E-03	9.57E-04	1.35E-03	6.66E-04
1355	565680	4222348	0.009301	0.012301	4.41E-03	4.93E-03	1.35E-02	4.41E-03	1.22E-03	2.40E-03	1.44E-03	9.45E-04	1.34E-03	6.58E-04
1356	565680	4222338	0.009161	0.012116	4.34E-03	4.86E-03	1.33E-02	4.34E-03	1.20E-03	2.37E-03	1.42E-03	9.31E-04	1.32E-03	6.48E-04
1357	565679.9	4222328	0.009	0.011903	4.26E-03	4.77E-03	1.30E-02	4.26E-03	1.18E-03	2.33E-03	1.40E-03	9.15E-04	1.29E-03	6.37E-04
1358	565679.9	4222318	0.008815	0.011658	4.18E-03	4.67E-03	1.28E-02	4.18E-03	1.16E-03	2.28E-03	1.37E-03	8.96E-04	1.27E-03	6.23E-04
1359	565679.9	4222308	0.008608	0.011384	4.08E-03	4.56E-03	1.25E-02	4.08E-03	1.13E-03	2.22E-03	1.33E-03	8.75E-04	1.24E-03	6.09E-04
1360	565679.8	4222298	0.008376	0.011077	3.97E-03	4.44E-03	1.21E-02	3.97E-03	1.10E-03	2.16E-03	1.30E-03	8.51E-04	1.20E-03	5.92E-04
1361	565690	4222377	0.008954	0.011841	4.24E-03	4.75E-03	1.30E-02	4.24E-03	1.18E-03	2.31E-03	1.39E-03	9.10E-04	1.29E-03	6.33E-04
1362	565689.9	4222367	0.008908	0.011781	4.22E-03	4.72E-03	1.29E-02	4.22E-03	1.17E-03	2.30E-03	1.38E-03	9.05E-04	1.28E-03	6.30E-04

1363	565689.9	4222357	0.008831	0.011679	4.18E-03	4.68E-03	1.28E-02	4.18E-03	1.16E-03	2.28E-03	1.37E-03	8.97E-04	1.27E-03	6.25E-04
1364	565689.9	4222347	0.008727	0.011542	4.13E-03	4.63E-03	1.27E-02	4.13E-03	1.15E-03	2.25E-03	1.35E-03	8.87E-04	1.26E-03	6.17E-04
1365	565689.8	4222338	0.008598	0.011371	4.07E-03	4.56E-03	1.25E-02	4.07E-03	1.13E-03	2.22E-03	1.33E-03	8.74E-04	1.24E-03	6.08E-04
1366	565689.8	4222328	0.008449	0.011174	4.00E-03	4.48E-03	1.22E-02	4.00E-03	1.11E-03	2.18E-03	1.31E-03	8.59E-04	1.22E-03	5.98E-04
1367	565689.7	4222318	0.008279	0.010949	3.92E-03	4.39E-03	1.20E-02	3.92E-03	1.09E-03	2.14E-03	1.28E-03	8.41E-04	1.19E-03	5.85E-04
1368	565689.7	4222308	0.008089	0.010698	3.83E-03	4.29E-03	1.17E-02	3.83E-03	1.06E-03	2.09E-03	1.25E-03	8.22E-04	1.16E-03	5.72E-04
1369	565689.7	4222298	0.00788	0.010422	3.73E-03	4.18E-03	1.14E-02	3.73E-03	1.03E-03	2.04E-03	1.22E-03	8.01E-04	1.13E-03	5.57E-04
1370	565699.8	4222377	0.008422	0.011138	3.99E-03	4.47E-03	1.22E-02	3.99E-03	1.11E-03	2.18E-03	1.31E-03	8.56E-04	1.21E-03	5.96E-04
1371	565699.8	4222367	0.008378	0.01108	3.97E-03	4.44E-03	1.21E-02	3.97E-03	1.10E-03	2.16E-03	1.30E-03	8.51E-04	1.21E-03	5.93E-04
1372	565699.7	4222357	0.008305	0.010983	3.93E-03	4.40E-03	1.20E-02	3.93E-03	1.09E-03	2.15E-03	1.29E-03	8.44E-04	1.19E-03	5.87E-04
1373	565699.7	4222347	0.008208	0.010855	3.89E-03	4.35E-03	1.19E-02	3.89E-03	1.08E-03	2.12E-03	1.27E-03	8.34E-04	1.18E-03	5.80E-04
1374	565699.7	4222338	0.008089	0.010698	3.83E-03	4.29E-03	1.17E-02	3.83E-03	1.06E-03	2.09E-03	1.25E-03	8.22E-04	1.16E-03	5.72E-04
1375	565699.6	4222328	0.007951	0.010515	3.77E-03	4.22E-03	1.15E-02	3.77E-03	1.04E-03	2.05E-03	1.23E-03	8.08E-04	1.14E-03	5.62E-04
1376	565699.6	4222318	0.007794	0.010307	3.69E-03	4.13E-03	1.13E-02	3.69E-03	1.02E-03	2.01E-03	1.21E-03	7.92E-04	1.12E-03	5.51E-04
1377	565699.5	4222308	0.00762	0.010078	3.61E-03	4.04E-03	1.10E-02	3.61E-03	1.00E-03	1.97E-03	1.18E-03	7.74E-04	1.10E-03	5.39E-04
1378	565699.5	4222298	0.007431	0.009827	3.52E-03	3.94E-03	1.08E-02	3.52E-03	9.76E-04	1.92E-03	1.15E-03	7.55E-04	1.07E-03	5.26E-04
1379	565709.7	4222377	0.007937	0.010496	3.76E-03	4.21E-03	1.15E-02	3.76E-03	1.04E-03	2.05E-03	1.23E-03	8.07E-04	1.14E-03	5.61E-04
1380	565709.6	4222367	0.007893	0.010438	3.74E-03	4.18E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.02E-04	1.14E-03	5.58E-04
1381	565709.6	4222357	0.007823	0.010346	3.71E-03	4.15E-03	1.13E-02	3.71E-03	1.03E-03	2.02E-03	1.21E-03	7.95E-04	1.13E-03	5.53E-04
1382	565709.5	4222347	0.007733	0.010226	3.66E-03	4.10E-03	1.12E-02	3.66E-03	1.02E-03	2.00E-03	1.20E-03	7.86E-04	1.11E-03	5.47E-04
1383	565709.5	4222337	0.007623	0.010081	3.61E-03	4.04E-03	1.11E-02	3.61E-03	1.00E-03	1.97E-03	1.18E-03	7.75E-04	1.10E-03	5.39E-04
1384	565709.5	4222328	0.007496	0.009913	3.55E-03	3.97E-03	1.09E-02	3.55E-03	9.84E-04	1.94E-03	1.16E-03	7.62E-04	1.08E-03	5.30E-04
1385	565709.4	4222318	0.007352	0.009723	3.48E-03	3.90E-03	1.07E-02	3.48E-03	9.66E-04	1.90E-03	1.14E-03	7.47E-04	1.06E-03	5.20E-04
1386	565709.4	4222308	0.007193	0.009513	3.41E-03	3.81E-03	1.04E-02	3.41E-03	9.45E-04	1.86E-03	1.12E-03	7.31E-04	1.03E-03	5.09E-04
1387	565719.5	4222377	0.007493	0.009909	3.55E-03	3.97E-03	1.09E-02	3.55E-03	9.84E-04	1.94E-03	1.16E-03	7.61E-04	1.08E-03	5.30E-04
1388	565719.5	4222367	0.007448	0.00985	3.53E-03	3.95E-03	1.08E-02	3.53E-03	9.78E-04	1.92E-03	1.15E-03	7.57E-04	1.07E-03	5.27E-04
1389	565719.4	4222357	0.007382	0.009762	3.50E-03	3.91E-03	1.07E-02	3.50E-03	9.69E-04	1.91E-03	1.14E-03	7.50E-04	1.06E-03	5.22E-04
1390	565719.4	4222347	0.007297	0.009651	3.46E-03	3.87E-03	1.06E-02	3.46E-03	9.58E-04	1.89E-03	1.13E-03	7.42E-04	1.05E-03	5.16E-04
1391	565719.3	4222337	0.007197	0.009517	3.41E-03	3.82E-03	1.04E-02	3.41E-03	9.45E-04	1.86E-03	1.12E-03	7.31E-04	1.04E-03	5.09E-04
1392	565719.3	4222328	0.00708	0.009363	3.35E-03	3.75E-03	1.03E-02	3.35E-03	9.30E-04	1.83E-03	1.10E-03	7.19E-04	1.02E-03	5.01E-04
1393	565719.3	4222318	0.006948	0.009189	3.29E-03	3.68E-03	1.01E-02	3.29E-03	9.13E-04	1.80E-03	1.08E-03	7.06E-04	9.99E-04	4.91E-04
1394	565729.3	4222367	0.007041	0.009312	3.34E-03	3.73E-03	1.02E-02	3.34E-03	9.25E-04	1.82E-03	1.09E-03	7.16E-04	1.01E-03	4.98E-04
1395	565729.3	4222357	0.006978	0.009229	3.31E-03	3.70E-03	1.01E-02	3.31E-03	9.16E-04	1.80E-03	1.08E-03	7.09E-04	1.00E-03	4.94E-04
1396	565729.2	4222347	0.0069	0.009125	3.27E-03	3.66E-03	1.00E-02	3.27E-03	9.06E-04	1.78E-03	1.07E-03	7.01E-04	9.93E-04	4.88E-04
1397	565729.2	4222337	0.006807	0.009002	3.22E-03	3.61E-03	9.87E-03	3.22E-03	8.94E-04	1.76E-03	1.06E-03	6.92E-04	9.79E-04	4.81E-04
1398	565729.1	4222328	0.006699	0.00886	3.17E-03	3.55E-03	9.71E-03	3.17E-03	8.80E-04	1.73E-03	1.04E-03	6.81E-04	9.64E-04	4.74E-04
1399	565729	4222298	0.006306	0.00834	2.99E-03	3.34E-03	9.14E-03	2.99E-03	8.28E-04	1.63E-03	9.78E-04	6.41E-04	9.07E-04	4.46E-04
1400	565739.1	4222357	0.006609	0.00874	3.13E-03	3.50E-03	9.58E-03	3.13E-03	8.68E-04	1.71E-03	1.02E-03	6.72E-04	9.51E-04	4.67E-04
1401	565739.1	4222347	0.006536	0.008643	3.10E-03	3.47E-03	9.48E-03	3.10E-03	8.58E-04	1.69E-03	1.01E-03	6.64E-04	9.40E-04	4.62E-04
1402	565739	4222337	0.006449	0.008529	3.06E-03	3.42E-03	9.35E-03	3.06E-03	8.47E-04	1.67E-03	1.00E-03	6.55E-04	9.28E-04	4.56E-04
1403	565738.9	4222308	0.006121	0.008095	2.90E-03	3.25E-03	8.87E-03	2.90E-03	8.04E-04	1.58E-03	9.49E-04	6.22E-04	8.80E-04	4.33E-04
1404	565738.9	4222298	0.005991	0.007924	2.84E-03	3.18E-03	8.69E-03	2.84E-03	7.87E-04	1.55E-03	9.29E-04	6.09E-04	8.62E-04	4.24E-04
1405	565749	4222377	0.006368	0.008422	3.02E-03	3.38E-03	9.23E-03	3.02E-03	8.36E-04	1.65E-03	9.87E-04	6.47E-04	9.16E-04	4.50E-04
1406	565748.9	4222347	0.006201	0.008201	2.94E-03	3.29E-03	8.99E-03	2.94E-03	8.14E-04	1.60E-03	9.61E-04	6.30E-04	8.92E-04	4.39E-04
1407	565748.8	4222318	0.00593	0.007842	2.81E-03	3.14E-03	8.60E-03	2.81E-03	7.79E-04	1.53E-03	9.19E-04	6.03E-04	8.53E-04	4.19E-04
1408	565748.7	4222308	0.00582	0.007697	2.76E-03	3.09E-03	8.44E-03	2.76E-03	7.64E-04	1.50E-03	9.02E-04	5.91E-04	8.37E-04	4.12E-04
1409	565748.7	4222298	0.005701	0.00754	2.70E-03	3.02E-03	8.27E-03	2.70E-03	7.49E-04	1.47E-03	8.84E-04	5.79E-04	8.20E-04	4.03E-04
1410	565758.9	4222377	0.00605	0.008002	2.87E-03	3.21E-03	8.77E-03	2.87E-03	7.95E-04	1.56E-03	9.38E-04	6.15E-04	8.70E-04	4.28E-04
1411	565758.8	4222367	0.006009	0.007947	2.85E-03	3.19E-03	8.71E-03	2.85E-03	7.89E-04	1.55E-03	9.32E-04	6.11E-04	8.64E-04	4.25E-04
1412	565758.7	4222327	0.005736	0.007585	2.72E-03	3.04E-03	8.32E-03	2.72E-03	7.53E-04	1.48E-03	8.89E-04	5.83E-04	8.25E-04	4.06E-04
1413	565758.6	4222318	0.005643	0.007463	2.67E-03	2.99E-03	8.18E-03	2.67E-03	7.41E-04	1.46E-03	8.75E-04	5.73E-04	8.12E-04	3.99E-04
1414	565758.6	4222308	0.005542	0.007329	2.63E-03	2.94E-03	8.03E-03	2.63E-03	7.28E-04	1.43E-03	8.59E-04	5.63E-04	7.97E-04	3.92E-04
1415	565758.5	4222298	0.005434	0.007186	2.57E-03	2.88E-03	7.88E-03	2.57E-03	7.14E-04	1.40E-03	8.42E-04	5.52E-04	7.82E-04	3.84E-04
1416	565768.7	4222377	0.005757	0.007613	2.73E-03	3.05E-03	8.35E-03	2.73E-03	7.56E-04	1.49E-03	8.92E-04	5.85E-04	8.28E-04	4.07E-04
1417	565768.7	4222367	0.005718	0.007562	2.71E-03	3.03E-03	8.29E-03	2.71E-03	7.51E-04	1.48E-03	8.86E-04	5.81E-04	8.22E-04	4.04E-04
1418	565768.5	4222327	0.005464	0.007226	2.59E-03	2.90E-03	7.92E-03	2.59E-03	7.18E-04	1.41E-03	8.47E-04	5.55E-04	7.86E-04	3.86E-04
1419	565768.5	4222317	0.005379	0.007114	2.55E-03	2.85E-03	7.80E-03	2.55E-03	7.06E-04	1.39E-03	8.34E-04	5.47E-04	7.74E-04	3.80E-04
1420	565768.4	4222308	0.005287	0.006992	2.50E-03	2.80E-03	7.67E-03	2.50E-03	6.94E-04	1.37E-03	8.20E-04	5.37E-04	7.61E-04	3.74E-04
1421	565768.4	4222298	0.005187	0.00686	2.46E-03	2.75E-03	7.52E-03	2.46E-03	6.81E-04	1.34E-03	8.04E-04	5.27E-04	7.46E-04	3.67E-04
1422	565778.5	4222377	0.005485	0.007254	2.60E-03	2.91E-03	7.95E-03	2.60E-03	7.20E-04	1.42E-03	8.50E-04	5.57E-04	7.89E-04	3.88E-04
1423	565778.5	4222367	0.005448	0.007205	2.58E-03	2.89E-03	7.90E-03	2.58E-03	7.15E-04	1.41E-03	8.45E-04	5.54E-04	7.84E-04	3.85E-04
1424	565778.5	4222357	0.005401	0.007143	2.56E-03	2.86E-03	7.83E-03	2.56E-03	7.09E-04	1.40E-03	8.37E-04	5.49E-04	7.77E-04	3.82E-04
1425	565778.4	4222337	0.005282	0.006986	2.50E-03	2.80E-03	7.66E-03	2.50E-03	6.94E-04	1.36E-03	8.19E-04	5.37E-04	7.60E-04	3.74E-04
1426	565778.3	4222327	0.005213	0.006894	2.47E-03	2.76E-03	7.56E-03	2.47E-03	6.85E-04	1.35E-03	8.08E-04	5.30E-04	7.50E-04	3.69E-04
1427	565778.3	4222317	0.005136	0.006792	2.43E-03	2.72E-03	7.45E-03	2.43E-03	6.75E-04	1.33E-03	7.96E-04	5.22E-04	7.39E-04	3.63E-04
1428	565778.2	4222308	0.005052	0.006682	2.39E-03	2.68E-03	7.32E-03	2.39E-03	6.64E-04	1.31E-03	7.83E-04	5.13E-04	7.27E-04	3.57E-04
1429	565778.2	4222298	0.004961	0.00656	2.35E-03	2.63E-03	7.19E-03	2.35E-03	6.51E-04	1.28E-03	7.69E-04	5.04E-04	7.14E-04	3.51E-04
1430	565788.4	4222377	0.005233	0.006921	2.48E-03	2.77E-03	7.59E-03	2.48E-03	6.87E-04	1.35E-03	8.11E-04	5.32E-04	7.53E-04	3.70E-04
1431	565788.3	4222367	0.005198	0.006874	2.46E-03	2.76E-03	7.54E-03	2.46E-03	6.83E-04	1.34E-03	8.06E-04	5.28E-04	7.48E-04	3.68E-04
1432	565788.3	4222357	0.005154	0.006816	2.44E-03	2.73E-03	7.47E-03	2.44E-03	6.77E-04	1.33E-03	7.99E-04	5.24E-04	7.41E-04	3.64E-04
1433	565788.3	4222347	0.005102	0.006748	2.42E-03	2.71E-03	7.40E-03	2.42E-03	6.70E-04	1.32E-03	7.91E-04	5.19E-04	7.34E-04	3.61E-04
1434	565788.2	4222337	0.005043	0.006669	2.39E-03	2.67E-03	7.31E-03	2.39E-03	6.62E-04	1.30E-03	7.82E-04	5.12E-04	7.25E-04	3.57E-04
1435	565788.2	4222327	0.00498	0.006586	2.36E-03	2.64E-03	7.22E-03	2.36E-03	6.54E-04	1.29E-03	7.72E-04	5.06E-04	7.16E-04	3.52E-04
1436	565788.1	4222317	0.00491	0.006494	2.33E-03	2.60E-03	7.12E-03	2.33E-03	6.45E-04	1.27E-03	7.61E-04	4.99E-04	7.06E-04	3.47E-04
1437	565788.1	4222308	0.004834	0.006393	2.29E-03	2.56E-03	7.01E-03	2.29E-03	6.35E-04	1.25E-03	7.49E-04	4.91E-04	6.95E-04	3.42E-04
1438	565788	4222298	0.004749	0.006281	2.25E-03	2.52E-03	6.89E-03	2.25E-03	6.24E-04	1.23E-03	7.36E-04	4.83E-04	6.83E-04	3.36E-04
1439	565798.2	4222377	0.005123	0.006776	2.43E-03	2.72E-03	7.43E-03	2.43E-03	6.73E-04	1.32E-03	7.94E-04	5.21E-04	7.37E-04	3.62E-04
1440	565798.2	4222367	0.005085	0.006725	2.41E-03	2.70E-03	7.37E-03	2.41E-03	6.68E-04	1.31E-03	7.88E-04	5.17E-04	7.31E-04	3.60E-04
1441	565798.1	4222357	0.00504	0.006665	2.39E-03	2.67E-03	7.31E-03	2.39E-03	6.62E-04	1.30E-03	7.81E-04	5.12E-04	7.25E-04	3.56E-04
1442	565798.1	4222347	0.004987	0.006595	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.07E-04	7.17E-04	3.53E-04
1443	565798	4222337	0.004823	0.006378	2.28E-03	2.56E-03	6.99E-03	2.28E-03	6.33E-04	1.25E-03	7.48E-04	4.90E-04	6.94E-04	3.41E-04
1444	565798	4222327	0.004764	0.0063	2.26E-03	2.53E-03	6.91E-03	2.26E-03	6.26E-04	1.23E-03	7.39E-04	4.84E-04	6.85E-04	3.37E-04
1445	565798	4222317	0.0047	0.006215	2.23E-03	2.49E-03	6.81E-03	2.23E-03	6.17E-04	1.21E-03	7.29E-04	4.78E-04	6.76E-04	3.32E-04
1446	565797.9	4222307	0.004629	0.006122	2.19E-03	2.45E-03	6.71E-03	2.19E-03	6.08E-04	1.20E-03	7.18E-04	4.70E-04	6.66E-04	3.27E-04
1447	565797.9	4222298	0.004551	0.006018	2.16E-03	2.41E-03	6.60E-03	2.16E-03	5.98E-04	1.18E-03	7.05E-04	4.62E-04	6.55E-04	3.22E-04
1448	565808.1	4222377	0.004902	0.006482	2.32E-03	2.60E-03	7.11E-03	2.32E-03	6.44E-04	1.27E-03	7.60E-04	4.98E-04	7.05E-04	3.47E-04
1449	565808	4222367	0.004865	0.006434	2.31E-03	2.58E-03	7.05E-03	2.31E-03	6.39E-04	1.26E-03	7.54E-04	4.94E-04	7.00E-04	3.44E-04
1450	565808	4222357	0.004823	0.006379	2.29E-03	2.56E-03	6.99E-03	2.29E-03	6.33E-04	1.25E-03	7.48E-04	4.90E-04	6.94E-04	3.41E-04
1451	565807.9	4222347	0.004774	0.006314	2.26E-03	2.53E-03	6.92E-03	2.26E-03	6.27E-04	1.23E-03	7.40E-04	4.85E-04	6.87E-04	3.38E-04
1452	565807.9	4222337	0.004719	0.006241	2.24E-03	2.50E-03	6.84E-03	2.24E-03	6.20E-04	1.22E-03	7.32E-04	4.80E-04	6.79E-04	3.34E-04
1453	565807.8	4222327	0.004564	0.006035	2.16E-03	2.42E-03	6.62E-03	2.16E-03	5.99E-04	1.18E-03	7.07E-04	4.64E-04	6.56E-04	3.23E-04

1454	565807.8	4222317	0.004503	0.005955	2.13E-03	2.39E-03	6.53E-03	2.13E-03	5.91E-04	1.16E-03	6.98E-04	4.58E-04	6.48E-04	3.18E-04
1455	565807.8	4222307	0.004436	0.005867	2.10E-03	2.35E-03	6.43E-03	2.10E-03	5.83E-04	1.15E-03	6.88E-04	4.51E-04	6.38E-04	3.14E-04
1456	565807.7	4222298	0.004364	0.005771	2.07E-03	2.31E-03	6.33E-03	2.07E-03	5.73E-04	1.13E-03	6.76E-04	4.43E-04	6.28E-04	3.09E-04
1457	565828.1	4222377	0.004494	0.005943	2.13E-03	2.38E-03	6.52E-03	2.13E-03	5.90E-04	1.16E-03	6.97E-04	4.57E-04	6.46E-04	3.18E-04
1458	565828	4222367	0.004462	0.005901	2.11E-03	2.37E-03	6.47E-03	2.11E-03	5.86E-04	1.15E-03	6.92E-04	4.53E-04	6.42E-04	3.16E-04
1459	565828	4222357	0.004426	0.005854	2.10E-03	2.35E-03	6.42E-03	2.10E-03	5.81E-04	1.14E-03	6.86E-04	4.50E-04	6.37E-04	3.13E-04
1460	565827.9	4222347	0.004385	0.005799	2.08E-03	2.32E-03	6.36E-03	2.08E-03	5.76E-04	1.13E-03	6.80E-04	4.46E-04	6.31E-04	3.10E-04
1461	565827.9	4222337	0.004337	0.005736	2.05E-03	2.30E-03	6.29E-03	2.05E-03	5.70E-04	1.12E-03	6.72E-04	4.41E-04	6.24E-04	3.07E-04
1462	565827.8	4222327	0.004283	0.005665	2.03E-03	2.27E-03	6.21E-03	2.03E-03	5.63E-04	1.11E-03	6.64E-04	4.35E-04	6.16E-04	3.03E-04
1463	565827.8	4222317	0.004224	0.005587	2.00E-03	2.24E-03	6.12E-03	2.00E-03	5.55E-04	1.09E-03	6.55E-04	4.29E-04	6.08E-04	2.99E-04
1464	565848	4222357	0.004081	0.005396	1.93E-03	2.16E-03	5.92E-03	1.93E-03	5.36E-04	1.05E-03	6.33E-04	4.15E-04	5.87E-04	2.89E-04
1465	565847.9	4222347	0.004042	0.005346	1.92E-03	2.14E-03	5.86E-03	1.92E-03	5.31E-04	1.04E-03	6.27E-04	4.11E-04	5.81E-04	2.86E-04
1466	565847.9	4222337	0.004	0.00529	1.90E-03	2.12E-03	5.80E-03	1.90E-03	5.25E-04	1.03E-03	6.20E-04	4.06E-04	5.75E-04	2.83E-04
1467	565847.8	4222307	0.003846	0.005087	1.82E-03	2.04E-03	5.58E-03	1.82E-03	5.05E-04	9.94E-04	5.96E-04	3.91E-04	5.53E-04	2.72E-04
1468	565847.7	4222297	0.003788	0.005009	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.79E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
1469	565868.1	4222376	0.003825	0.005058	1.81E-03	2.03E-03	5.55E-03	1.81E-03	5.02E-04	9.88E-04	5.93E-04	3.89E-04	5.50E-04	2.70E-04
1470	565868	4222366	0.003803	0.005029	1.80E-03	2.02E-03	5.51E-03	1.80E-03	4.99E-04	9.82E-04	5.90E-04	3.86E-04	5.47E-04	2.69E-04
1471	565867.8	4222327	0.00366	0.004841	1.73E-03	1.94E-03	5.31E-03	1.73E-03	4.81E-04	9.46E-04	5.67E-04	3.72E-04	5.27E-04	2.59E-04
1472	565867.8	4222317	0.003617	0.004784	1.71E-03	1.92E-03	5.24E-03	1.71E-03	4.75E-04	9.34E-04	5.61E-04	3.68E-04	5.20E-04	2.56E-04
1473	565867.8	4222307	0.00357	0.004722	1.69E-03	1.89E-03	5.18E-03	1.69E-03	4.69E-04	9.22E-04	5.53E-04	3.63E-04	5.14E-04	2.53E-04
1474	565867.7	4222297	0.003519	0.004654	1.67E-03	1.87E-03	5.10E-03	1.67E-03	4.62E-04	9.09E-04	5.46E-04	3.58E-04	5.06E-04	2.49E-04
1475	565888.1	4222376	0.003543	0.004686	1.68E-03	1.88E-03	5.14E-03	1.68E-03	4.65E-04	9.15E-04	5.49E-04	3.60E-04	5.10E-04	2.51E-04
1476	565888	4222366	0.003524	0.00466	1.67E-03	1.87E-03	5.11E-03	1.67E-03	4.63E-04	9.10E-04	5.46E-04	3.58E-04	5.07E-04	2.49E-04
1477	565888	4222357	0.003497	0.004625	1.66E-03	1.85E-03	5.07E-03	1.66E-03	4.59E-04	9.04E-04	5.42E-04	3.55E-04	5.03E-04	2.47E-04
1478	565887.8	4222327	0.003402	0.004498	1.61E-03	1.80E-03	4.93E-03	1.61E-03	4.47E-04	8.79E-04	5.27E-04	3.46E-04	4.89E-04	2.41E-04
1479	565887.8	4222317	0.003365	0.00445	1.59E-03	1.78E-03	4.88E-03	1.59E-03	4.42E-04	8.69E-04	5.22E-04	3.42E-04	4.84E-04	2.38E-04
1480	565887.8	4222307	0.003325	0.004398	1.58E-03	1.76E-03	4.82E-03	1.58E-03	4.37E-04	8.59E-04	5.16E-04	3.38E-04	4.78E-04	2.35E-04
1481	565887.7	4222297	0.003281	0.004339	1.55E-03	1.74E-03	4.76E-03	1.55E-03	4.31E-04	8.48E-04	5.09E-04	3.33E-04	4.72E-04	2.32E-04
1482	565907.9	4222385	0.003313	0.004381	1.57E-03	1.76E-03	4.80E-03	1.57E-03	4.35E-04	8.56E-04	5.14E-04	3.37E-04	4.77E-04	2.34E-04
1483	565908.1	4222376	0.003295	0.004357	1.56E-03	1.75E-03	4.78E-03	1.56E-03	4.33E-04	8.51E-04	5.11E-04	3.35E-04	4.74E-04	2.33E-04
1484	565908	4222366	0.003274	0.00433	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
1485	565908	4222356	0.003254	0.004304	1.54E-03	1.73E-03	4.72E-03	1.54E-03	4.27E-04	8.41E-04	5.04E-04	3.31E-04	4.68E-04	2.30E-04
1486	565907.9	4222347	0.003231	0.004273	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.35E-04	5.01E-04	3.28E-04	4.65E-04	2.28E-04
1487	565907.9	4222337	0.003204	0.004238	1.52E-03	1.70E-03	4.65E-03	1.52E-03	4.21E-04	8.28E-04	4.97E-04	3.26E-04	4.61E-04	2.27E-04
1488	565907.8	4222327	0.003173	0.004196	1.50E-03	1.68E-03	4.60E-03	1.50E-03	4.17E-04	8.20E-04	4.92E-04	3.22E-04	4.56E-04	2.24E-04
1489	565907.7	4222297	0.003062	0.00405	1.45E-03	1.62E-03	4.44E-03	1.45E-03	4.02E-04	7.91E-04	4.75E-04	3.11E-04	4.40E-04	2.17E-04
1490	565927.9	4222385	0.003096	0.004094	1.47E-03	1.64E-03	4.49E-03	1.47E-03	4.07E-04	8.00E-04	4.80E-04	3.15E-04	4.45E-04	2.19E-04
1491	565928.1	4222376	0.003077	0.00407	1.46E-03	1.63E-03	4.46E-03	1.46E-03	4.04E-04	7.95E-04	4.77E-04	3.13E-04	4.43E-04	2.18E-04
1492	565928	4222366	0.003058	0.004044	1.45E-03	1.62E-03	4.43E-03	1.45E-03	4.02E-04	7.90E-04	4.74E-04	3.11E-04	4.40E-04	2.16E-04
1493	565928	4222356	0.003039	0.004018	1.44E-03	1.61E-03	4.41E-03	1.44E-03	3.99E-04	7.85E-04	4.71E-04	3.09E-04	4.37E-04	2.15E-04
1494	565927.9	4222346	0.003017	0.00399	1.43E-03	1.60E-03	4.37E-03	1.43E-03	3.96E-04	7.79E-04	4.68E-04	3.07E-04	4.34E-04	2.13E-04
1495	565927.9	4222337	0.002992	0.003957	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.73E-04	4.64E-04	3.04E-04	4.30E-04	2.12E-04
1496	565927.8	4222327	0.002964	0.003919	1.40E-03	1.57E-03	4.30E-03	1.40E-03	3.89E-04	7.66E-04	4.59E-04	3.01E-04	4.26E-04	2.10E-04
1497	565927.8	4222317	0.002933	0.003878	1.39E-03	1.55E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.07E-04
1498	565927.8	4222307	0.0029	0.003835	1.37E-03	1.54E-03	4.20E-03	1.37E-03	3.81E-04	7.49E-04	4.49E-04	2.95E-04	4.17E-04	2.05E-04
1499	565947.9	4222386	0.002899	0.003834	1.37E-03	1.54E-03	4.20E-03	1.37E-03	3.81E-04	7.49E-04	4.49E-04	2.95E-04	4.17E-04	2.05E-04
1500	565948.1	4222376	0.002882	0.003811	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.78E-04	7.44E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
1501	565948	4222366	0.002864	0.003788	1.36E-03	1.52E-03	4.15E-03	1.36E-03	3.76E-04	7.40E-04	4.44E-04	2.91E-04	4.12E-04	2.03E-04
1502	565948	4222356	0.002844	0.003762	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.74E-04	7.35E-04	4.41E-04	2.89E-04	4.09E-04	2.01E-04
1503	565947.9	4222346	0.002823	0.003733	1.34E-03	1.50E-03	4.09E-03	1.34E-03	3.71E-04	7.29E-04	4.38E-04	2.87E-04	4.06E-04	2.00E-04
1504	565947.9	4222336	0.002799	0.003701	1.33E-03	1.48E-03	4.06E-03	1.33E-03	3.68E-04	7.23E-04	4.34E-04	2.84E-04	4.03E-04	1.98E-04
1505	565947.8	4222327	0.002773	0.003667	1.31E-03	1.47E-03	4.02E-03	1.31E-03	3.64E-04	7.16E-04	4.30E-04	2.82E-04	3.99E-04	1.96E-04
1506	565947.8	4222317	0.002745	0.003631	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.09E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
1507	565947.8	4222307	0.002716	0.003592	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
1508	565947.7	4222297	0.002685	0.00355	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.53E-04	6.94E-04	4.16E-04	2.73E-04	3.86E-04	1.90E-04
1509	565967.9	4222383	0.002709	0.003582	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
1510	565968	4222366	0.002681	0.003546	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.52E-04	6.93E-04	4.16E-04	2.73E-04	3.86E-04	1.90E-04
1511	565968	4222356	0.002664	0.003523	1.26E-03	1.41E-03	3.86E-03	1.26E-03	3.50E-04	6.88E-04	4.13E-04	2.71E-04	3.83E-04	1.88E-04
1512	565967.9	4222346	0.002644	0.003497	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.83E-04	4.10E-04	2.69E-04	3.80E-04	1.87E-04
1513	565967.9	4222336	0.002623	0.003468	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.44E-04	6.78E-04	4.07E-04	2.67E-04	3.77E-04	1.85E-04
1514	565967.8	4222327	0.002599	0.003438	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.41E-04	6.72E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
1515	565967.8	4222317	0.002575	0.003405	1.22E-03	1.37E-03	3.73E-03	1.22E-03	3.38E-04	6.65E-04	3.99E-04	2.62E-04	3.70E-04	1.82E-04
1516	565967.8	4222307	0.002548	0.00337	1.21E-03	1.35E-03	3.69E-03	1.21E-03	3.35E-04	6.58E-04	3.95E-04	2.59E-04	3.67E-04	1.80E-04
1517	565967.7	4222297	0.002521	0.003333	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
1518	565987.9	4222383	0.002548	0.00337	1.21E-03	1.35E-03	3.69E-03	1.21E-03	3.35E-04	6.58E-04	3.95E-04	2.59E-04	3.67E-04	1.80E-04
1519	565988	4222366	0.002523	0.003337	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.31E-04	6.52E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
1520	565988	4222356	0.002507	0.003315	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.48E-04	3.89E-04	2.55E-04	3.61E-04	1.77E-04
1521	565987.9	4222346	0.002489	0.003292	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.43E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
1522	565987.9	4222336	0.00247	0.003266	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.24E-04	6.38E-04	3.83E-04	2.51E-04	3.55E-04	1.75E-04
1523	565987.8	4222326	0.002449	0.003239	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.22E-04	6.33E-04	3.80E-04	2.49E-04	3.52E-04	1.73E-04
1524	565987.8	4222317	0.002427	0.003209	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.47E-04	3.49E-04	1.72E-04
1525	565987.8	4222307	0.002403	0.003178	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.16E-04	6.21E-04	3.72E-04	2.44E-04	3.46E-04	1.70E-04
1526	565987.7	4222297	0.002378	0.003145	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.12E-04	6.14E-04	3.69E-04	2.42E-04	3.42E-04	1.68E-04
1527	566007.9	4222383	0.002403	0.003178	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.16E-04	6.21E-04	3.73E-04	2.44E-04	3.46E-04	1.70E-04
1528	566008	4222366	0.00238	0.003147	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.13E-04	6.15E-04	3.69E-04	2.42E-04	3.42E-04	1.68E-04
1529	566008	4222356	0.002365	0.003128	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.11E-04	6.11E-04	3.67E-04	2.40E-04	3.40E-04	1.67E-04
1530	566007.9	4222346	0.002349	0.003106	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.08E-04	6.07E-04	3.64E-04	2.39E-04	3.38E-04	1.66E-04
1531	566007.9	4222336	0.002331	0.003083	1.10E-03	1.24E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
1532	566007.8	4222326	0.002313	0.003058	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.97E-04	3.58E-04	2.35E-04	3.33E-04	1.64E-04
1533	566007.8	4222316	0.002293	0.003032	1.09E-03	1.22E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
1534	566007.8	4222307	0.002271	0.003004	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.87E-04	3.52E-04	2.31E-04	3.27E-04	1.61E-04
1535	566007.7	4222297	0.002249	0.002974	1.07E-03	1.19E-03	3.26E-03	1.07E-03	2.95E-04	5.81E-04	3.49E-04	2.29E-04	3.23E-04	1.59E-04
1536	566027.9	4222383	0.002263	0.002993	1.07E-03	1.20E-03	3.28E-03	1.07E-03	2.97E-04	5.85E-04	3.51E-04	2.30E-04	3.26E-04	1.60E-04
1537	566028	4222366	0.002242	0.002964	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.48E-04	2.28E-04	3.22E-04	1.59E-04
1538	566028	4222356	0.002228	0.002947	1.06E-03	1.18E-03	3.23E-03	1.06E-03	2.93E-04	5.76E-04	3.45E-04	2.26E-04	3.21E-04	1.58E-04
1539	566027.9	4222346	0.002214	0.002927	1.05E-03	1.17E-03	3.21E-03	1.05E-03	2.91E-04	5.72E-04	3.43E-04	2.25E-04	3.18E-04	1.57E-04
1540	566027.9	4222336	0.002198	0.002906	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.23E-04	3.16E-04	1.55E-04
1541	566027.8	4222326	0.002181	0.002884	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.22E-04	3.14E-04	1.54E-04
1542	566047.9	4222384	0.002139	0.002829	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
1543	566048	4222366	0.002115	0.002797	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.46E-04	3.28E-04	2.15E-04	3.04E-04	1.50E-04
1544	566047.8	4222326	0.002066	0.002733	9.79E-04	1.10E-03	3.00E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04

1545	566047.8	4222316	0.00205	0.002711	9.71E-04	1.09E-03	2.97E-03	9.71E-04	2.69E-04	5.30E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
1546	566047.8	4222306	0.002032	0.002688	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.07E-04	2.92E-04	1.44E-04
1547	566047.7	4222297	0.002012	0.00266	9.53E-04	1.07E-03	2.92E-03	9.53E-04	2.64E-04	5.20E-04	3.12E-04	2.04E-04	2.89E-04	1.42E-04
1548	566068	4222366	0.001998	0.002642	9.47E-04	1.06E-03	2.90E-03	9.47E-04	2.62E-04	5.16E-04	3.10E-04	2.03E-04	2.87E-04	1.41E-04
1549	566068	4222356	0.001992	0.002634	9.44E-04	1.06E-03	2.89E-03	9.44E-04	2.62E-04	5.15E-04	3.09E-04	2.02E-04	2.87E-04	1.41E-04
1550	566067.9	4222346	0.001985	0.002625	9.40E-04	1.05E-03	2.88E-03	9.40E-04	2.61E-04	5.13E-04	3.08E-04	2.02E-04	2.85E-04	1.40E-04
1551	566067.9	4222336	0.001976	0.002613	9.36E-04	1.05E-03	2.86E-03	9.36E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
1552	566067.8	4222326	0.001961	0.002594	9.29E-04	1.04E-03	2.84E-03	9.29E-04	2.58E-04	5.07E-04	3.04E-04	1.99E-04	2.82E-04	1.39E-04
1553	566067.8	4222316	0.001946	0.002573	9.22E-04	1.03E-03	2.82E-03	9.22E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
1554	566067.8	4222306	0.001929	0.002551	9.14E-04	1.02E-03	2.80E-03	9.14E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
1555	566067.7	4222296	0.001908	0.002523	9.04E-04	1.01E-03	2.77E-03	9.04E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.74E-04	1.35E-04
1556	566087.9	4222384	0.001909	0.002525	9.05E-04	1.01E-03	2.77E-03	9.05E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
1557	566088	4222366	0.00189	0.002499	8.95E-04	1.00E-03	2.74E-03	8.95E-04	2.48E-04	4.88E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
1558	566088	4222356	0.001885	0.002493	8.93E-04	9.99E-04	2.73E-03	8.93E-04	2.48E-04	4.87E-04	2.92E-04	1.92E-04	2.71E-04	1.33E-04
1559	566087.9	4222346	0.001879	0.002485	8.90E-04	9.96E-04	2.72E-03	8.90E-04	2.47E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
1560	566087.9	4222336	0.001871	0.002475	8.87E-04	9.92E-04	2.71E-03	8.87E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
1561	566087.8	4222326	0.001855	0.002453	8.79E-04	9.83E-04	2.69E-03	8.79E-04	2.44E-04	4.79E-04	2.88E-04	1.88E-04	2.67E-04	1.31E-04
1562	566087.8	4222316	0.001837	0.00243	8.70E-04	9.74E-04	2.66E-03	8.70E-04	2.41E-04	4.75E-04	2.85E-04	1.87E-04	2.64E-04	1.30E-04
1563	566087.8	4222306	0.001818	0.002405	8.61E-04	9.64E-04	2.64E-03	8.61E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
1564	566087.7	4222296	0.001798	0.002378	8.52E-04	9.53E-04	2.61E-03	8.52E-04	2.36E-04	4.64E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
1565	566107.9	4222384	0.001811	0.002395	8.58E-04	9.60E-04	2.63E-03	8.58E-04	2.38E-04	4.68E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
1566	566108	4222365	0.00179	0.002367	8.48E-04	9.49E-04	2.59E-03	8.48E-04	2.35E-04	4.62E-04	2.77E-04	1.82E-04	2.57E-04	1.27E-04
1567	566108	4222356	0.001783	0.002358	8.45E-04	9.46E-04	2.59E-03	8.45E-04	2.34E-04	4.61E-04	2.76E-04	1.81E-04	2.57E-04	1.26E-04
1568	566107.9	4222346	0.001776	0.002349	8.41E-04	9.42E-04	2.57E-03	8.41E-04	2.33E-04	4.59E-04	2.75E-04	1.80E-04	2.55E-04	1.26E-04
1569	566107.9	4222336	0.001767	0.002337	8.37E-04	9.37E-04	2.56E-03	8.37E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
1570	566107.8	4222326	0.00175	0.002315	8.29E-04	9.28E-04	2.54E-03	8.29E-04	2.30E-04	4.52E-04	2.71E-04	1.78E-04	2.52E-04	1.24E-04
1571	566107.8	4222316	0.001732	0.002291	8.21E-04	9.18E-04	2.51E-03	8.21E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
1572	565571.6	4222289	0.019638	0.025971	9.30E-03	1.04E-02	2.85E-02	9.30E-03	2.58E-03	5.07E-03	3.04E-03	2.00E-03	2.82E-03	1.39E-03
1573	565571.6	4222280	0.018567	0.024555	8.80E-03	9.84E-03	2.69E-02	8.80E-03	2.44E-03	4.80E-03	2.88E-03	1.89E-03	2.67E-03	1.31E-03
1574	565571.5	4222270	0.017418	0.023035	8.25E-03	9.23E-03	2.53E-02	8.25E-03	2.29E-03	4.50E-03	2.70E-03	1.77E-03	2.51E-03	1.23E-03
1575	565571.5	4222261	0.016216	0.021445	7.68E-03	8.60E-03	2.35E-02	7.68E-03	2.13E-03	4.19E-03	2.51E-03	1.65E-03	2.33E-03	1.15E-03
1576	565571.5	4222252	0.014998	0.019835	7.11E-03	7.95E-03	2.17E-02	7.11E-03	1.97E-03	3.87E-03	2.33E-03	1.52E-03	2.16E-03	1.06E-03
1577	565571.5	4222242	0.013798	0.018248	6.54E-03	7.32E-03	2.00E-02	6.54E-03	1.81E-03	3.56E-03	2.14E-03	1.40E-03	1.98E-03	9.76E-04
1578	565571.4	4222233	0.012642	0.016718	5.99E-03	6.70E-03	1.83E-02	5.99E-03	1.66E-03	3.27E-03	1.96E-03	1.28E-03	1.82E-03	8.94E-04
1579	565581.4	4222289	0.017633	0.02332	8.35E-03	9.35E-03	2.56E-02	8.35E-03	2.32E-03	4.56E-03	2.73E-03	1.79E-03	2.54E-03	1.25E-03
1580	565581.4	4222280	0.016719	0.022111	7.92E-03	8.86E-03	2.42E-02	7.92E-03	2.20E-03	4.32E-03	2.59E-03	1.70E-03	2.41E-03	1.18E-03
1581	565581.4	4222270	0.015746	0.020825	7.46E-03	8.35E-03	2.28E-02	7.46E-03	2.07E-03	4.07E-03	2.44E-03	1.60E-03	2.27E-03	1.11E-03
1582	565581.3	4222261	0.014738	0.019491	6.98E-03	7.81E-03	2.14E-02	6.98E-03	1.94E-03	3.81E-03	2.28E-03	1.50E-03	2.12E-03	1.04E-03
1583	565581.3	4222252	0.013719	0.018143	6.50E-03	7.27E-03	1.99E-02	6.50E-03	1.80E-03	3.54E-03	2.13E-03	1.39E-03	1.97E-03	9.70E-04
1584	565581.3	4222242	0.012715	0.016815	6.02E-03	6.74E-03	1.84E-02	6.02E-03	1.67E-03	3.28E-03	1.97E-03	1.29E-03	1.83E-03	8.99E-04
1585	565581.3	4222233	0.01174	0.015526	5.56E-03	6.22E-03	1.70E-02	5.56E-03	1.54E-03	3.03E-03	1.82E-03	1.19E-03	1.69E-03	8.30E-04
1586	565591.3	4222289	0.015982	0.021136	7.57E-03	8.47E-03	2.32E-02	7.57E-03	2.10E-03	4.13E-03	2.48E-03	1.62E-03	2.30E-03	1.13E-03
1587	565591.2	4222280	0.015197	0.020098	7.20E-03	8.06E-03	2.20E-02	7.20E-03	2.00E-03	3.93E-03	2.36E-03	1.54E-03	2.19E-03	1.07E-03
1588	565591.2	4222270	0.014366	0.018999	6.81E-03	7.62E-03	2.08E-02	6.81E-03	1.89E-03	3.71E-03	2.23E-03	1.46E-03	2.07E-03	1.02E-03
1589	565591.2	4222261	0.013511	0.017868	6.40E-03	7.16E-03	1.96E-02	6.40E-03	1.77E-03	3.49E-03	2.09E-03	1.37E-03	1.94E-03	9.55E-04
1590	565591.2	4222252	0.012647	0.016725	5.99E-03	6.71E-03	1.83E-02	5.99E-03	1.66E-03	3.27E-03	1.96E-03	1.29E-03	1.82E-03	8.94E-04
1591	565591.1	4222242	0.01179	0.015593	5.59E-03	6.25E-03	1.71E-02	5.59E-03	1.55E-03	3.05E-03	1.83E-03	1.20E-03	1.70E-03	8.34E-04
1592	565591.1	4222233	0.010957	0.014491	5.19E-03	5.81E-03	1.59E-02	5.19E-03	1.44E-03	2.83E-03	1.70E-03	1.11E-03	1.58E-03	7.75E-04
1593	565601.1	4222289	0.014586	0.019289	6.91E-03	7.73E-03	2.11E-02	6.91E-03	1.92E-03	3.77E-03	2.26E-03	1.48E-03	2.10E-03	1.03E-03
1594	565601.1	4222280	0.013907	0.018392	6.59E-03	7.37E-03	2.02E-02	6.59E-03	1.83E-03	3.59E-03	2.16E-03	1.41E-03	2.00E-03	9.84E-04
1595	565601	4222270	0.013193	0.017447	6.25E-03	6.99E-03	1.91E-02	6.25E-03	1.73E-03	3.41E-03	2.05E-03	1.34E-03	1.90E-03	9.33E-04
1596	565601	4222261	0.012458	0.016475	5.90E-03	6.61E-03	1.81E-02	5.90E-03	1.64E-03	3.22E-03	1.93E-03	1.27E-03	1.79E-03	8.81E-04
1597	565601	4222251	0.011718	0.015496	5.55E-03	6.21E-03	1.70E-02	5.55E-03	1.54E-03	3.03E-03	1.82E-03	1.19E-03	1.69E-03	8.29E-04
1598	565601	4222242	0.010981	0.014522	5.20E-03	5.82E-03	1.59E-02	5.20E-03	1.44E-03	2.84E-03	1.70E-03	1.12E-03	1.58E-03	7.77E-04
1599	565601	4222233	0.01026	0.013569	4.86E-03	5.44E-03	1.49E-02	4.86E-03	1.35E-03	2.65E-03	1.59E-03	1.04E-03	1.48E-03	7.26E-04
1600	565620.8	4222289	0.012326	0.016301	5.84E-03	6.54E-03	1.79E-02	5.84E-03	1.62E-03	3.18E-03	1.91E-03	1.25E-03	1.77E-03	8.72E-04
1601	565620.7	4222280	0.011811	0.01562	5.60E-03	6.26E-03	1.71E-02	5.60E-03	1.55E-03	3.05E-03	1.83E-03	1.20E-03	1.70E-03	8.35E-04
1602	565630.6	4222289	0.011388	0.01506	5.40E-03	6.04E-03	1.65E-02	5.40E-03	1.50E-03	2.94E-03	1.77E-03	1.16E-03	1.64E-03	8.05E-04
1603	565630.6	4222280	0.010937	0.014464	5.18E-03	5.80E-03	1.59E-02	5.18E-03	1.44E-03	2.83E-03	1.70E-03	1.11E-03	1.57E-03	7.73E-04
1604	565630.6	4222270	0.010468	0.013843	4.96E-03	5.55E-03	1.52E-02	4.96E-03	1.37E-03	2.70E-03	1.62E-03	1.06E-03	1.51E-03	7.40E-04
1605	565630.5	4222261	0.009986	0.013206	4.73E-03	5.29E-03	1.45E-02	4.73E-03	1.31E-03	2.58E-03	1.55E-03	1.01E-03	1.44E-03	7.06E-04
1606	565630.5	4222233	0.008528	0.011278	4.04E-03	4.52E-03	1.24E-02	4.04E-03	1.12E-03	2.20E-03	1.32E-03	8.67E-04	1.23E-03	6.03E-04
1607	565640.4	4222289	0.010584	0.013997	5.01E-03	5.61E-03	1.53E-02	5.01E-03	1.39E-03	2.73E-03	1.64E-03	1.08E-03	1.52E-03	7.49E-04
1608	565640.4	4222280	0.010186	0.013471	4.83E-03	5.40E-03	1.48E-02	4.83E-03	1.34E-03	2.63E-03	1.58E-03	1.04E-03	1.47E-03	7.20E-04
1609	565640.4	4222270	0.009773	0.012925	4.63E-03	5.18E-03	1.42E-02	4.63E-03	1.28E-03	2.52E-03	1.52E-03	9.93E-04	1.41E-03	6.91E-04
1610	565640.4	4222261	0.009349	0.012364	4.43E-03	4.96E-03	1.36E-02	4.43E-03	1.23E-03	2.42E-03	1.45E-03	9.50E-04	1.34E-03	6.61E-04
1611	565640.3	4222233	0.00806	0.010659	3.82E-03	4.27E-03	1.17E-02	3.82E-03	1.06E-03	2.08E-03	1.25E-03	8.19E-04	1.16E-03	5.70E-04
1612	565650.3	4222289	0.009871	0.013054	4.68E-03	5.23E-03	1.43E-02	4.68E-03	1.30E-03	2.55E-03	1.53E-03	1.00E-03	1.42E-03	6.98E-04
1613	565650.3	4222280	0.00952	0.01259	4.51E-03	5.05E-03	1.38E-02	4.51E-03	1.25E-03	2.46E-03	1.48E-03	9.67E-04	1.37E-03	6.73E-04
1614	565650.2	4222270	0.009154	0.012106	4.34E-03	4.85E-03	1.33E-02	4.34E-03	1.20E-03	2.36E-03	1.42E-03	9.30E-04	1.32E-03	6.47E-04
1615	565650.2	4222261	0.008778	0.011608	4.16E-03	4.65E-03	1.27E-02	4.16E-03	1.15E-03	2.27E-03	1.36E-03	8.92E-04	1.26E-03	6.21E-04
1616	565650.1	4222233	0.007632	0.010093	3.62E-03	4.05E-03	1.11E-02	3.62E-03	1.00E-03	1.97E-03	1.18E-03	7.76E-04	1.10E-03	5.40E-04
1617	565660.1	4222289	0.009235	0.012213	4.38E-03	4.90E-03	1.34E-02	4.38E-03	1.21E-03	2.39E-03	1.43E-03	9.39E-04	1.33E-03	6.53E-04
1618	565660.1	4222280	0.008923	0.0118	4.23E-03	4.73E-03	1.29E-02	4.23E-03	1.17E-03	2.31E-03	1.38E-03	9.07E-04	1.28E-03	6.31E-04
1619	565660.1	4222270	0.008597	0.01137	4.07E-03	4.56E-03	1.25E-02	4.07E-03	1.13E-03	2.22E-03	1.33E-03	8.74E-04	1.24E-03	6.08E-04
1620	565660.1	4222261	0.008263	0.010927	3.91E-03	4.38E-03	1.20E-02	3.91E-03	1.09E-03	2.13E-03	1.28E-03	8.40E-04	1.19E-03	5.84E-04
1621	565660	4222242	0.007581	0.010026	3.59E-03	4.02E-03	1.10E-02	3.59E-03	9.96E-04	1.96E-03	1.18E-03	7.70E-04	1.09E-03	5.36E-04
1622	565660	4222233	0.00724	0.009574	3.43E-03	3.84E-03	1.05E-02	3.43E-03	9.51E-04	1.87E-03	1.12E-03	7.36E-04	1.04E-03	5.12E-04
1623	565670	4222289	0.008665	0.01146	4.11E-03	4.59E-03	1.26E-02	4.11E-03	1.14E-03	2.24E-03	1.34E-03	8.81E-04	1.25E-03	6.13E-04
1624	565669.9	4222280	0.008386	0.01109	3.97E-03	4.45E-03	1.22E-02	3.97E-03	1.10E-03	2.17E-03	1.30E-03	8.52E-04	1.21E-03	5.93E-04
1625	565669.9	4222270	0.008095	0.010705	3.84E-03	4.29E-03	1.17E-02	3.84E-03	1.06E-03	2.09E-03	1.25E-03	8.23E-04	1.16E-03	5.72E-04
1626	565669.8	4222242	0.007186	0.009503	3.40E-03	3.81E-03	1.04E-02	3.40E-03	9.44E-04	1.86E-03	1.11E-03	7.30E-04	1.03E-03	5.08E-04
1627	565669.8	4222232	0.006879	0.009097	3.26E-03	3.65E-03	9.97E-03	3.26E-03	9.03E-04	1.78E-03	1.07E-03	6.99E-04	9.89E-04	4.86E-04
1628	565679.8	4222289	0.008146	0.010773	3.86E-03	4.32E-03	1.18E-02	3.86E-03	1.07E-03	2.10E-03	1.26E-03	8.28E-04	1.17E-03	5.76E-04
1629	565679.8	4222280	0.007896	0.010442	3.74E-03	4.19E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.02E-04	1.14E-03	5.58E-04
1630	565679.8	4222270	0.007635	0.010098	3.62E-03	4.05E-03	1.11E-02	3.62E-03	1.00E-03	1.97E-03	1.18E-03	7.76E-04	1.10E-03	5.40E-04
1631	565679.7	4222251	0.007095	0.009383	3.36E-03	3.76E-03	1.03E-02	3.36E-03	9.32E-04	1.83E-03	1.10E-03	7.21E-04	1.02E-03	5.02E-04
1632	565679.7	4222242	0.00682	0.009019	3.23E-03	3.62E-03	9.89E-03	3.23E-03	8.96E-04	1.76E-03	1.06E-03	6.93E-04	9.81E-04	4.82E-04
1633	565679.7	4222232	0.006543	0.008653	3.10E-03	3.47E-03	9.49E-03	3.10E-03	8.59E-04	1.69E-03	1.01E-03	6.65E-04	9.41E-04	4.63E-04
1634	565689.6	4222289	0.007674	0.010148	3.64E-03	4.07E-03	1.11E-02	3.64E-03	1.01E-03	1.98E-03	1.19E-03	7.80E-04	1.10E-03	5.43E-04
1635	565689.6	4222280	0.007449	0.009851	3.53E-03	3.95E-03	1.08E-02	3.53E-03	9.78E-04	1.92E-03	1.15E-03	7.57E-04	1.07E-03	5.27E-04

1636	565689.6	4222261	0.006975	0.009224	3.30E-03	3.70E-03	1.01E-02	3.30E-03	9.16E-04	1.80E-03	1.08E-03	7.09E-04	1.00E-03	4.93E-04
1637	565689.5	4222251	0.006729	0.0089	3.19E-03	3.57E-03	9.76E-03	3.19E-03	8.84E-04	1.74E-03	1.04E-03	6.84E-04	9.68E-04	4.76E-04
1638	565689.5	4222242	0.006481	0.008571	3.07E-03	3.44E-03	9.40E-03	3.07E-03	8.51E-04	1.67E-03	1.00E-03	6.59E-04	9.32E-04	4.58E-04
1639	565689.5	4222232	0.006231	0.008241	2.95E-03	3.30E-03	9.03E-03	2.95E-03	8.18E-04	1.61E-03	9.66E-04	6.33E-04	8.96E-04	4.41E-04
1640	565699.4	4222270	0.006832	0.009035	3.24E-03	3.62E-03	9.90E-03	3.24E-03	8.97E-04	1.76E-03	1.06E-03	6.94E-04	9.83E-04	4.83E-04
1641	565699.4	4222261	0.006615	0.008748	3.13E-03	3.51E-03	9.59E-03	3.13E-03	8.69E-04	1.71E-03	1.03E-03	6.72E-04	9.52E-04	4.68E-04
1642	565699.4	4222251	0.006393	0.008455	3.03E-03	3.39E-03	9.27E-03	3.03E-03	8.40E-04	1.65E-03	9.91E-04	6.50E-04	9.20E-04	4.52E-04
1643	565699.4	4222242	0.006168	0.008158	2.92E-03	3.27E-03	8.94E-03	2.92E-03	8.10E-04	1.59E-03	9.56E-04	6.27E-04	8.87E-04	4.36E-04
1644	565699.3	4222232	0.005942	0.007858	2.82E-03	3.15E-03	8.61E-03	2.82E-03	7.80E-04	1.54E-03	9.21E-04	6.04E-04	8.55E-04	4.20E-04
1645	565709.3	4222279	0.006671	0.008822	3.16E-03	3.54E-03	9.67E-03	3.16E-03	8.76E-04	1.72E-03	1.03E-03	6.78E-04	9.60E-04	4.72E-04
1646	565709.3	4222270	0.006481	0.008571	3.07E-03	3.44E-03	9.40E-03	3.07E-03	8.51E-04	1.67E-03	1.00E-03	6.59E-04	9.32E-04	4.58E-04
1647	565709.2	4222261	0.006284	0.008311	2.98E-03	3.33E-03	9.11E-03	2.98E-03	8.25E-04	1.62E-03	9.74E-04	6.39E-04	9.04E-04	4.44E-04
1648	565709.2	4222251	0.006083	0.008045	2.88E-03	3.23E-03	8.82E-03	2.88E-03	7.99E-04	1.57E-03	9.43E-04	6.18E-04	8.75E-04	4.30E-04
1649	565709.2	4222242	0.00588	0.007776	2.79E-03	3.12E-03	8.52E-03	2.79E-03	7.72E-04	1.52E-03	9.11E-04	5.98E-04	8.46E-04	4.16E-04
1650	565709.2	4222232	0.005674	0.007503	2.69E-03	3.01E-03	8.23E-03	2.69E-03	7.45E-04	1.47E-03	8.80E-04	5.77E-04	8.16E-04	4.01E-04
1651	565719.2	4222289	0.006496	0.008591	3.08E-03	3.44E-03	9.42E-03	3.08E-03	8.53E-04	1.68E-03	1.01E-03	6.60E-04	9.34E-04	4.59E-04
1652	565719.1	4222279	0.00633	0.008372	3.00E-03	3.36E-03	9.18E-03	3.00E-03	8.31E-04	1.64E-03	9.81E-04	6.43E-04	9.11E-04	4.48E-04
1653	565719.1	4222270	0.006158	0.008144	2.92E-03	3.26E-03	8.93E-03	2.92E-03	8.09E-04	1.59E-03	9.55E-04	6.26E-04	8.86E-04	4.35E-04
1654	565719.1	4222261	0.00598	0.007908	2.83E-03	3.17E-03	8.67E-03	2.83E-03	7.85E-04	1.54E-03	9.27E-04	6.08E-04	8.60E-04	4.23E-04
1655	565719.1	4222251	0.005797	0.007667	2.75E-03	3.07E-03	8.40E-03	2.75E-03	7.61E-04	1.50E-03	8.99E-04	5.89E-04	8.34E-04	4.10E-04
1656	565719	4222242	0.005612	0.007421	2.66E-03	2.98E-03	8.14E-03	2.66E-03	7.37E-04	1.45E-03	8.70E-04	5.70E-04	8.07E-04	3.97E-04
1657	565719	4222232	0.005424	0.007173	2.57E-03	2.88E-03	7.86E-03	2.57E-03	7.12E-04	1.40E-03	8.41E-04	5.51E-04	7.80E-04	3.84E-04
1658	565729	4222289	0.006168	0.008157	2.92E-03	3.27E-03	8.94E-03	2.92E-03	8.10E-04	1.59E-03	9.56E-04	6.27E-04	8.87E-04	4.36E-04
1659	565729	4222279	0.006018	0.007958	2.85E-03	3.19E-03	8.72E-03	2.85E-03	7.90E-04	1.55E-03	9.33E-04	6.12E-04	8.66E-04	4.26E-04
1660	565728.9	4222270	0.00586	0.00775	2.78E-03	3.11E-03	8.50E-03	2.78E-03	7.70E-04	1.51E-03	9.08E-04	5.96E-04	8.43E-04	4.14E-04
1661	565728.9	4222261	0.005698	0.007535	2.70E-03	3.02E-03	8.26E-03	2.70E-03	7.48E-04	1.47E-03	8.83E-04	5.79E-04	8.20E-04	4.03E-04
1662	565728.9	4222251	0.005532	0.007316	2.62E-03	2.93E-03	8.02E-03	2.62E-03	7.26E-04	1.43E-03	8.58E-04	5.62E-04	7.96E-04	3.91E-04
1663	565728.9	4222242	0.005362	0.007092	2.54E-03	2.84E-03	7.77E-03	2.54E-03	7.04E-04	1.39E-03	8.31E-04	5.45E-04	7.71E-04	3.79E-04
1664	565728.9	4222232	0.005191	0.006865	2.46E-03	2.75E-03	7.53E-03	2.46E-03	6.82E-04	1.34E-03	8.05E-04	5.28E-04	7.47E-04	3.67E-04
1665	565738.8	4222289	0.005866	0.007758	2.78E-03	3.11E-03	8.50E-03	2.78E-03	7.70E-04	1.52E-03	9.09E-04	5.96E-04	8.44E-04	4.15E-04
1666	565738.8	4222279	0.005728	0.007576	2.71E-03	3.04E-03	8.31E-03	2.71E-03	7.52E-04	1.48E-03	8.88E-04	5.82E-04	8.24E-04	4.05E-04
1667	565738.8	4222270	0.005585	0.007386	2.65E-03	2.96E-03	8.10E-03	2.65E-03	7.33E-04	1.44E-03	8.66E-04	5.68E-04	8.03E-04	3.95E-04
1668	565738.8	4222261	0.005437	0.00719	2.58E-03	2.88E-03	7.88E-03	2.58E-03	7.14E-04	1.40E-03	8.43E-04	5.53E-04	7.82E-04	3.85E-04
1669	565738.7	4222251	0.005285	0.00699	2.50E-03	2.80E-03	7.66E-03	2.50E-03	6.94E-04	1.37E-03	8.19E-04	5.37E-04	7.60E-04	3.74E-04
1670	565738.7	4222242	0.00513	0.006784	2.43E-03	2.72E-03	7.44E-03	2.43E-03	6.74E-04	1.33E-03	7.95E-04	5.21E-04	7.38E-04	3.63E-04
1671	565738.7	4222232	0.004973	0.006577	2.36E-03	2.64E-03	7.21E-03	2.36E-03	6.53E-04	1.28E-03	7.71E-04	5.05E-04	7.15E-04	3.52E-04
1672	565748.7	4222289	0.005587	0.007389	2.65E-03	2.96E-03	8.10E-03	2.65E-03	7.34E-04	1.44E-03	8.66E-04	5.68E-04	8.04E-04	3.95E-04
1673	565748.6	4222279	0.005461	0.007222	2.59E-03	2.90E-03	7.92E-03	2.59E-03	7.17E-04	1.41E-03	8.47E-04	5.55E-04	7.86E-04	3.86E-04
1674	565748.6	4222270	0.00533	0.007049	2.53E-03	2.83E-03	7.73E-03	2.53E-03	7.00E-04	1.38E-03	8.26E-04	5.42E-04	7.67E-04	3.77E-04
1675	565748.6	4222261	0.005195	0.00687	2.46E-03	2.75E-03	7.53E-03	2.46E-03	6.82E-04	1.34E-03	8.05E-04	5.28E-04	7.47E-04	3.67E-04
1676	565748.6	4222251	0.005056	0.006686	2.40E-03	2.68E-03	7.33E-03	2.40E-03	6.64E-04	1.31E-03	7.84E-04	5.14E-04	7.27E-04	3.58E-04
1677	565748.6	4222242	0.004913	0.006498	2.33E-03	2.61E-03	7.12E-03	2.33E-03	6.45E-04	1.27E-03	7.62E-04	4.99E-04	7.07E-04	3.47E-04
1678	565748.5	4222232	0.004769	0.006307	2.26E-03	2.53E-03	6.91E-03	2.26E-03	6.26E-04	1.23E-03	7.39E-04	4.85E-04	6.86E-04	3.37E-04
1679	565758.5	4222279	0.005213	0.006895	2.47E-03	2.76E-03	7.56E-03	2.47E-03	6.85E-04	1.35E-03	8.08E-04	5.30E-04	7.50E-04	3.69E-04
1680	565758.5	4222270	0.005093	0.006736	2.41E-03	2.70E-03	7.38E-03	2.41E-03	6.69E-04	1.32E-03	7.90E-04	5.18E-04	7.33E-04	3.60E-04
1681	565758.4	4222261	0.004969	0.006572	2.35E-03	2.63E-03	7.20E-03	2.35E-03	6.53E-04	1.28E-03	7.70E-04	5.05E-04	7.15E-04	3.51E-04
1682	565758.4	4222251	0.004842	0.006403	2.29E-03	2.57E-03	7.02E-03	2.29E-03	6.36E-04	1.25E-03	7.51E-04	4.92E-04	6.96E-04	3.42E-04
1683	565758.4	4222242	0.004711	0.00623	2.23E-03	2.50E-03	6.83E-03	2.23E-03	6.19E-04	1.22E-03	7.30E-04	4.79E-04	6.78E-04	3.33E-04
1684	565768.3	4222289	0.005091	0.006733	2.41E-03	2.70E-03	7.38E-03	2.41E-03	6.69E-04	1.32E-03	7.89E-04	5.17E-04	7.32E-04	3.60E-04
1685	565768.3	4222279	0.004985	0.006593	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.07E-04	7.17E-04	3.53E-04
1686	565768.3	4222270	0.004875	0.006447	2.31E-03	2.58E-03	7.07E-03	2.31E-03	6.40E-04	1.26E-03	7.56E-04	4.95E-04	7.01E-04	3.45E-04
1687	565768.3	4222261	0.004761	0.006296	2.26E-03	2.52E-03	6.90E-03	2.26E-03	6.25E-04	1.23E-03	7.38E-04	4.84E-04	6.85E-04	3.37E-04
1688	565768.3	4222251	0.004643	0.00614	2.20E-03	2.46E-03	6.73E-03	2.20E-03	6.10E-04	1.20E-03	7.20E-04	4.72E-04	6.68E-04	3.28E-04
1689	565778.2	4222289	0.004872	0.006443	2.31E-03	2.58E-03	7.06E-03	2.31E-03	6.40E-04	1.26E-03	7.55E-04	4.95E-04	7.01E-04	3.45E-04
1690	565778.2	4222279	0.004774	0.006314	2.26E-03	2.53E-03	6.92E-03	2.26E-03	6.27E-04	1.23E-03	7.40E-04	4.85E-04	6.87E-04	3.38E-04
1691	565778.1	4222270	0.004673	0.00618	2.21E-03	2.48E-03	6.77E-03	2.21E-03	6.14E-04	1.21E-03	7.24E-04	4.75E-04	6.72E-04	3.30E-04
1692	565778.1	4222260	0.004567	0.00604	2.16E-03	2.42E-03	6.62E-03	2.16E-03	6.00E-04	1.18E-03	7.08E-04	4.64E-04	6.57E-04	3.23E-04
1693	565778	4222232	0.004234	0.0056	2.01E-03	2.25E-03	6.14E-03	2.01E-03	5.56E-04	1.09E-03	6.56E-04	4.30E-04	6.09E-04	2.99E-04
1694	565788	4222289	0.004668	0.006173	2.21E-03	2.47E-03	6.77E-03	2.21E-03	6.13E-04	1.21E-03	7.24E-04	4.74E-04	6.71E-04	3.30E-04
1695	565788	4222279	0.004578	0.006054	2.17E-03	2.43E-03	6.64E-03	2.17E-03	6.01E-04	1.18E-03	7.10E-04	4.65E-04	6.58E-04	3.24E-04
1696	565787.9	4222242	0.004183	0.005532	1.98E-03	2.22E-03	6.06E-03	1.98E-03	5.49E-04	1.08E-03	6.48E-04	4.25E-04	6.02E-04	2.96E-04
1697	565787.9	4222232	0.004078	0.005393	1.93E-03	2.16E-03	5.91E-03	1.93E-03	5.36E-04	1.05E-03	6.32E-04	4.14E-04	5.87E-04	2.88E-04
1698	565797.9	4222289	0.004476	0.005919	2.12E-03	2.37E-03	6.49E-03	2.12E-03	5.88E-04	1.16E-03	6.94E-04	4.55E-04	6.44E-04	3.17E-04
1699	565797.8	4222251	0.004122	0.005452	1.95E-03	2.19E-03	5.98E-03	1.95E-03	5.41E-04	1.06E-03	6.39E-04	4.19E-04	5.93E-04	2.92E-04
1700	565797.7	4222242	0.004027	0.005326	1.91E-03	2.14E-03	5.84E-03	1.91E-03	5.29E-04	1.04E-03	6.24E-04	4.09E-04	5.79E-04	2.85E-04
1701	565797.7	4222232	0.00393	0.005197	1.86E-03	2.08E-03	5.70E-03	1.86E-03	5.16E-04	1.02E-03	6.09E-04	3.99E-04	5.65E-04	2.78E-04
1702	565807.6	4222260	0.004053	0.00536	1.92E-03	2.15E-03	5.88E-03	1.92E-03	5.32E-04	1.05E-03	6.28E-04	4.12E-04	5.83E-04	2.87E-04
1703	565807.6	4222251	0.003967	0.005246	1.88E-03	2.10E-03	5.75E-03	1.88E-03	5.21E-04	1.02E-03	6.15E-04	4.03E-04	5.71E-04	2.81E-04
1704	565807.6	4222242	0.003879	0.005129	1.84E-03	2.06E-03	5.62E-03	1.84E-03	5.09E-04	1.00E-03	6.01E-04	3.94E-04	5.58E-04	2.74E-04
1705	565807.6	4222232	0.003788	0.00501	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.79E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
1706	565827.7	4222289	0.00403	0.00533	1.91E-03	2.14E-03	5.84E-03	1.91E-03	5.29E-04	1.04E-03	6.25E-04	4.10E-04	5.80E-04	2.85E-04
1707	565827.7	4222279	0.003959	0.005236	1.88E-03	2.10E-03	5.74E-03	1.88E-03	5.20E-04	1.02E-03	6.14E-04	4.02E-04	5.69E-04	2.80E-04
1708	565827.7	4222270	0.003885	0.005138	1.84E-03	2.06E-03	5.63E-03	1.84E-03	5.10E-04	1.00E-03	6.02E-04	3.95E-04	5.59E-04	2.75E-04
1709	565827.6	4222260	0.003808	0.005036	1.80E-03	2.02E-03	5.52E-03	1.80E-03	5.00E-04	9.84E-04	5.90E-04	3.87E-04	5.48E-04	2.69E-04
1710	565827.6	4222251	0.003729	0.004932	1.77E-03	1.98E-03	5.41E-03	1.77E-03	4.90E-04	9.63E-04	5.78E-04	3.79E-04	5.36E-04	2.64E-04
1711	565827.6	4222242	0.003648	0.004824	1.73E-03	1.93E-03	5.29E-03	1.73E-03	4.79E-04	9.42E-04	5.65E-04	3.71E-04	5.25E-04	2.58E-04
1712	565827.6	4222232	0.003564	0.004714	1.69E-03	1.89E-03	5.17E-03	1.69E-03	4.68E-04	9.21E-04	5.53E-04	3.62E-04	5.13E-04	2.52E-04
1713	565847.7	4222289	0.003732	0.004936	1.77E-03	1.98E-03	5.41E-03	1.77E-03	4.90E-04	9.64E-04	5.79E-04	3.79E-04	5.37E-04	2.64E-04
1714	565847.7	4222279	0.003671	0.004854	1.74E-03	1.95E-03	5.32E-03	1.74E-03	4.82E-04	9.48E-04	5.69E-04	3.73E-04	5.28E-04	2.60E-04
1715	565847.7	4222270	0.003606	0.004769	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.74E-04	9.32E-04	5.59E-04	3.66E-04	5.19E-04	2.55E-04
1716	565847.6	4222260	0.003539	0.004681	1.68E-03	1.88E-03	5.13E-03	1.68E-03	4.65E-04	9.14E-04	5.49E-04	3.60E-04	5.09E-04	2.50E-04
1717	565847.6	4222251	0.003471	0.00459	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.97E-04	5.38E-04	3.53E-04	4.99E-04	2.45E-04
1718	565847.6	4222241	0.003399	0.004496	1.61E-03	1.80E-03	4.93E-03	1.61E-03	4.46E-04	8.78E-04	5.27E-04	3.45E-04	4.89E-04	2.40E-04
1719	565847.6	4222232	0.003327	0.004399	1.58E-03	1.76E-03	4.82E-03	1.58E-03	4.37E-04	8.59E-04	5.16E-04	3.38E-04	4.79E-04	2.35E-04
1720	565867.7	4222289	0.003471	0.004591	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.97E-04	5.38E-04	3.53E-04	4.99E-04	2.45E-04
1721	565867.7	4222279	0.003417	0.00452	1.62E-03	1.81E-03	4.95E-03	1.62E-03	4.49E-04	8.83E-04	5.30E-04	3.47E-04	4.92E-04	2.42E-04
1722	565867.7	4222270	0.003361	0.004445	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.68E-04	5.21E-04	3.42E-04	4.83E-04	2.38E-04
1723	565867.6	4222260	0.003303	0.004368	1.56E-03	1.75E-03	4.79E-03	1.56E-03	4.34E-04	8.53E-04	5.12E-04	3.36E-04	4.75E-04	2.34E-04
1724	565867.6	4222251	0.003243	0.004288	1.54E-03	1.72E-03	4.70E-03	1.54E-03	4.26E-04	8.38E-04	5.03E-04	3.30E-04	4.66E-04	2.29E-04
1725	565887.7	4222279	0.003192	0.004221	1.51E-03	1.69E-03	4.63E-03	1.51E-03	4.19E-04	8.25E-04	4.95E-04	3.24E-04	4.59E-04	2.26E-04
1726	565887.7	4222270	0.003142	0.004155	1.49E-03	1.67E-03	4.56E-03	1.49E-03	4.13E-04	8.12E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04

1727	565887.6	4222241	0.002983	0.003945	1.41E-03	1.58E-03	4.33E-03	1.41E-03	3.92E-04	7.71E-04	4.62E-04	3.03E-04	4.29E-04	2.11E-04
1728	565887.6	4222232	0.002927	0.003871	1.39E-03	1.55E-03	4.24E-03	1.39E-03	3.84E-04	7.56E-04	4.54E-04	2.97E-04	4.21E-04	2.07E-04
1729	565907.6	4222260	0.002895	0.003828	1.37E-03	1.53E-03	4.20E-03	1.37E-03	3.80E-04	7.48E-04	4.49E-04	2.94E-04	4.16E-04	2.05E-04
1730	565907.6	4222251	0.002848	0.003766	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.36E-04	4.42E-04	2.89E-04	4.10E-04	2.01E-04
1731	565907.6	4222241	0.0028	0.003702	1.33E-03	1.48E-03	4.06E-03	1.33E-03	3.68E-04	7.23E-04	4.34E-04	2.85E-04	4.03E-04	1.98E-04
1732	565907.6	4222232	0.00275	0.003637	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.96E-04	1.94E-04
1733	565927.7	4222279	0.002795	0.003696	1.32E-03	1.48E-03	4.05E-03	1.32E-03	3.67E-04	7.22E-04	4.33E-04	2.84E-04	4.02E-04	1.98E-04
1734	565927.7	4222270	0.002756	0.003645	1.31E-03	1.46E-03	4.00E-03	1.31E-03	3.62E-04	7.12E-04	4.27E-04	2.80E-04	3.96E-04	1.95E-04
1735	565927.6	4222260	0.002716	0.003592	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
1736	565927.6	4222251	0.002675	0.003537	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.51E-04	6.91E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
1737	565927.6	4222241	0.002632	0.003481	1.25E-03	1.40E-03	3.82E-03	1.25E-03	3.46E-04	6.80E-04	4.08E-04	2.67E-04	3.79E-04	1.86E-04
1738	565927.6	4222232	0.002588	0.003422	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.68E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
1739	565947.6	4222260	0.002553	0.003376	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.35E-04	6.60E-04	3.96E-04	2.59E-04	3.67E-04	1.81E-04
1740	565947.6	4222251	0.002516	0.003327	1.19E-03	1.33E-03	3.65E-03	1.19E-03	3.30E-04	6.50E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
1741	565947.6	4222241	0.002478	0.003277	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.40E-04	3.84E-04	2.52E-04	3.56E-04	1.75E-04
1742	565947.6	4222232	0.002438	0.003225	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.20E-04	6.30E-04	3.78E-04	2.48E-04	3.51E-04	1.72E-04
1743	565967.7	4222279	0.002466	0.003261	1.17E-03	1.31E-03	3.57E-03	1.17E-03	3.24E-04	6.37E-04	3.82E-04	2.51E-04	3.55E-04	1.74E-04
1744	565987.7	4222288	0.002355	0.003114	1.12E-03	1.25E-03	3.41E-03	1.12E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.39E-04	1.67E-04
1745	565987.7	4222279	0.002329	0.00308	1.10E-03	1.23E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
1746	565987.7	4222269	0.0023	0.003041	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.94E-04	3.56E-04	2.34E-04	3.31E-04	1.63E-04
1747	565987.6	4222260	0.002269	0.003001	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.52E-04	2.31E-04	3.26E-04	1.60E-04
1748	566007.6	4222260	0.002147	0.00284	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.55E-04	3.33E-04	2.18E-04	3.09E-04	1.52E-04
1749	566007.6	4222251	0.002116	0.002799	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.04E-04	1.50E-04
1750	566007.6	4222241	0.002087	0.00276	9.89E-04	1.11E-03	3.03E-03	9.89E-04	2.74E-04	5.39E-04	3.23E-04	2.12E-04	3.00E-04	1.48E-04
1751	566027.7	4222279	0.002083	0.002755	9.87E-04	1.10E-03	3.02E-03	9.87E-04	2.74E-04	5.38E-04	3.23E-04	2.12E-04	3.00E-04	1.47E-04
1752	566027.7	4222269	0.00206	0.002724	9.76E-04	1.09E-03	2.99E-03	9.76E-04	2.71E-04	5.32E-04	3.19E-04	2.09E-04	2.96E-04	1.46E-04
1753	566027.6	4222260	0.002036	0.002692	9.65E-04	1.08E-03	2.95E-03	9.65E-04	2.67E-04	5.26E-04	3.16E-04	2.07E-04	2.93E-04	1.44E-04
1754	566027.6	4222250	0.002011	0.00266	9.53E-04	1.07E-03	2.92E-03	9.53E-04	2.64E-04	5.20E-04	3.12E-04	2.04E-04	2.89E-04	1.42E-04
1755	566027.6	4222241	0.001984	0.002623	9.40E-04	1.05E-03	2.88E-03	9.40E-04	2.61E-04	5.12E-04	3.08E-04	2.02E-04	2.85E-04	1.40E-04
1756	566027.6	4222232	0.001954	0.002585	9.26E-04	1.04E-03	2.83E-03	9.26E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
1757	566047.7	4222279	0.001971	0.002607	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
1758	566047.7	4222269	0.001949	0.002578	9.23E-04	1.03E-03	2.83E-03	9.23E-04	2.56E-04	5.04E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
1759	566047.6	4222260	0.001926	0.002547	9.12E-04	1.02E-03	2.79E-03	9.12E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
1760	566047.6	4222250	0.001902	0.002515	9.01E-04	1.01E-03	2.76E-03	9.01E-04	2.50E-04	4.91E-04	2.95E-04	1.93E-04	2.74E-04	1.35E-04
1761	566047.6	4222241	0.001876	0.002481	8.89E-04	9.94E-04	2.72E-03	8.89E-04	2.46E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
1762	566047.6	4222232	0.001847	0.002443	8.75E-04	9.79E-04	2.68E-03	8.75E-04	2.43E-04	4.77E-04	2.86E-04	1.88E-04	2.66E-04	1.31E-04
1763	566067.7	4222279	0.001866	0.002468	8.84E-04	9.89E-04	2.71E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
1764	566067.7	4222269	0.001843	0.002437	8.73E-04	9.77E-04	2.67E-03	8.73E-04	2.42E-04	4.76E-04	2.86E-04	1.87E-04	2.65E-04	1.30E-04
1765	566067.6	4222260	0.001818	0.002405	8.62E-04	9.64E-04	2.64E-03	8.62E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
1766	566067.6	4222250	0.001793	0.002372	8.50E-04	9.51E-04	2.60E-03	8.50E-04	2.36E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
1767	566087.7	4222279	0.001758	0.002325	8.33E-04	9.32E-04	2.55E-03	8.33E-04	2.31E-04	4.54E-04	2.73E-04	1.79E-04	2.53E-04	1.24E-04
1768	566087.6	4222241	0.001665	0.002201	7.89E-04	8.83E-04	2.41E-03	7.89E-04	2.19E-04	4.30E-04	2.58E-04	1.69E-04	2.39E-04	1.18E-04
1769	566087.6	4222231	0.001639	0.002168	7.77E-04	8.69E-04	2.38E-03	7.77E-04	2.15E-04	4.23E-04	2.54E-04	1.67E-04	2.36E-04	1.16E-04
1770	566107.7	4222269	0.001643	0.002173	7.78E-04	8.71E-04	2.38E-03	7.78E-04	2.16E-04	4.24E-04	2.55E-04	1.67E-04	2.36E-04	1.16E-04
1771	566107.6	4222260	0.001622	0.002144	7.68E-04	8.60E-04	2.35E-03	7.68E-04	2.13E-04	4.19E-04	2.51E-04	1.65E-04	2.33E-04	1.15E-04
1772	566107.6	4222250	0.001599	0.002115	7.58E-04	8.48E-04	2.32E-03	7.58E-04	2.10E-04	4.13E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
1773	566107.6	4222241	0.001577	0.002085	7.47E-04	8.36E-04	2.29E-03	7.47E-04	2.07E-04	4.07E-04	2.44E-04	1.60E-04	2.27E-04	1.11E-04
1774	566107.6	4222231	0.001553	0.002054	7.36E-04	8.23E-04	2.25E-03	7.36E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.23E-04	1.10E-04
1775	565574.7	4222217	0.010628	0.014056	5.04E-03	5.63E-03	1.54E-02	5.04E-03	1.40E-03	2.75E-03	1.65E-03	1.08E-03	1.53E-03	7.52E-04
1776	565576.2	4222197	0.008744	0.011564	4.14E-03	4.64E-03	1.27E-02	4.14E-03	1.15E-03	2.26E-03	1.36E-03	8.89E-04	1.26E-03	6.18E-04
1777	565579.9	4222206	0.009321	0.012327	4.42E-03	4.94E-03	1.35E-02	4.42E-03	1.22E-03	2.41E-03	1.44E-03	9.47E-04	1.34E-03	6.59E-04
1778	565583.7	4222215	0.009884	0.013072	4.68E-03	5.24E-03	1.43E-02	4.68E-03	1.30E-03	2.55E-03	1.53E-03	1.00E-03	1.42E-03	6.99E-04
1779	565587.4	4222224	0.010436	0.013802	4.94E-03	5.53E-03	1.51E-02	4.94E-03	1.37E-03	2.70E-03	1.62E-03	1.06E-03	1.50E-03	7.38E-04
1780	565575.6	4222172	0.006944	0.009183	3.29E-03	3.68E-03	1.01E-02	3.29E-03	9.12E-04	1.79E-03	1.08E-03	7.06E-04	9.99E-04	4.91E-04
1781	565579.2	4222181	0.007422	0.009815	3.52E-03	3.94E-03	1.08E-02	3.52E-03	9.75E-04	1.92E-03	1.15E-03	7.54E-04	1.07E-03	5.25E-04
1782	565582.8	4222189	0.007912	0.010464	3.75E-03	4.20E-03	1.15E-02	3.75E-03	1.04E-03	2.04E-03	1.23E-03	8.04E-04	1.14E-03	5.60E-04
1783	565586.5	4222198	0.008407	0.011119	3.98E-03	4.46E-03	1.22E-02	3.98E-03	1.10E-03	2.17E-03	1.30E-03	8.54E-04	1.21E-03	5.95E-04
1784	565590.1	4222207	0.008897	0.011766	4.21E-03	4.72E-03	1.29E-02	4.21E-03	1.17E-03	2.30E-03	1.38E-03	9.04E-04	1.28E-03	6.29E-04
1785	565593.7	4222215	0.009372	0.012394	4.44E-03	4.97E-03	1.36E-02	4.44E-03	1.23E-03	2.42E-03	1.45E-03	9.52E-04	1.35E-03	6.63E-04
1786	565597.3	4222224	0.009831	0.013001	4.66E-03	5.21E-03	1.43E-02	4.66E-03	1.29E-03	2.54E-03	1.52E-03	9.99E-04	1.41E-03	6.95E-04
1787	565582.5	4222165	0.006379	0.008436	3.02E-03	3.38E-03	9.25E-03	3.02E-03	8.38E-04	1.65E-03	9.89E-04	6.48E-04	9.18E-04	4.51E-04
1788	565586	4222173	0.006792	0.008982	3.22E-03	3.60E-03	9.85E-03	3.22E-03	8.92E-04	1.75E-03	1.05E-03	6.90E-04	9.77E-04	4.80E-04
1789	565589.5	4222182	0.007213	0.009539	3.42E-03	3.82E-03	1.05E-02	3.42E-03	9.47E-04	1.86E-03	1.12E-03	7.33E-04	1.04E-03	5.10E-04
1790	565593.1	4222190	0.007638	0.010102	3.62E-03	4.05E-03	1.11E-02	3.62E-03	1.00E-03	1.97E-03	1.18E-03	7.76E-04	1.10E-03	5.40E-04
1791	565596.6	4222199	0.008063	0.010663	3.82E-03	4.28E-03	1.17E-02	3.82E-03	1.06E-03	2.08E-03	1.25E-03	8.19E-04	1.16E-03	5.70E-04
1792	565600.2	4222207	0.008481	0.011216	4.02E-03	4.50E-03	1.23E-02	4.02E-03	1.11E-03	2.19E-03	1.31E-03	8.62E-04	1.22E-03	6.00E-04
1793	565603.7	4222216	0.008885	0.01175	4.21E-03	4.71E-03	1.29E-02	4.21E-03	1.17E-03	2.30E-03	1.38E-03	9.03E-04	1.28E-03	6.28E-04
1794	565607.2	4222224	0.009269	0.012258	4.39E-03	4.91E-03	1.34E-02	4.39E-03	1.22E-03	2.39E-03	1.44E-03	9.42E-04	1.33E-03	6.56E-04
1795	565577.5	4222146	0.005496	0.007269	2.60E-03	2.91E-03	7.97E-03	2.60E-03	7.22E-04	1.42E-03	8.52E-04	5.59E-04	7.91E-04	3.89E-04
1796	565589.3	4222158	0.005891	0.007791	2.79E-03	3.12E-03	8.54E-03	2.79E-03	7.74E-04	1.52E-03	9.13E-04	5.99E-04	8.47E-04	4.17E-04
1797	565592.8	4222166	0.00625	0.008266	2.96E-03	3.31E-03	9.06E-03	2.96E-03	8.21E-04	1.61E-03	9.69E-04	6.35E-04	8.99E-04	4.42E-04
1798	565599.8	4222183	0.006986	0.009239	3.31E-03	3.70E-03	1.01E-02	3.31E-03	9.17E-04	1.80E-03	1.08E-03	7.10E-04	1.00E-03	4.94E-04
1799	565603.2	4222191	0.007357	0.00973	3.49E-03	3.90E-03	1.07E-02	3.49E-03	9.66E-04	1.90E-03	1.14E-03	7.48E-04	1.06E-03	5.20E-04
1800	565610.2	4222208	0.008083	0.01069	3.83E-03	4.29E-03	1.17E-02	3.83E-03	1.06E-03	2.09E-03	1.25E-03	8.21E-04	1.16E-03	5.72E-04
1801	565583.7	4222139	0.005112	0.006761	2.42E-03	2.71E-03	7.41E-03	2.42E-03	6.71E-04	1.32E-03	7.93E-04	5.20E-04	7.35E-04	3.62E-04
1802	565596.6	4222151	0.005498	0.007271	2.60E-03	2.92E-03	7.97E-03	2.60E-03	7.22E-04	1.42E-03	8.52E-04	5.59E-04	7.91E-04	3.89E-04
1803	565600.3	4222160	0.005843	0.007727	2.77E-03	3.10E-03	8.47E-03	2.77E-03	7.67E-04	1.51E-03	9.06E-04	5.94E-04	8.40E-04	4.13E-04
1804	565604.1	4222169	0.006197	0.008195	2.94E-03	3.29E-03	8.98E-03	2.94E-03	8.14E-04	1.60E-03	9.61E-04	6.30E-04	8.91E-04	4.38E-04
1805	565607.9	4222178	0.006555	0.008669	3.11E-03	3.48E-03	9.50E-03	3.11E-03	8.61E-04	1.69E-03	1.02E-03	6.66E-04	9.43E-04	4.64E-04
1806	565611.6	4222187	0.006914	0.009144	3.28E-03	3.67E-03	1.00E-02	3.28E-03	9.08E-04	1.79E-03	1.07E-03	7.03E-04	9.95E-04	4.89E-04
1807	565626.7	4222224	0.008241	0.010899	3.90E-03	4.37E-03	1.19E-02	3.90E-03	1.08E-03	2.13E-03	1.28E-03	8.38E-04	1.19E-03	5.83E-04
1808	565582	4222128	0.004715	0.006235	2.23E-03	2.50E-03	6.84E-03	2.23E-03	6.19E-04	1.22E-03	7.31E-04	4.79E-04	6.78E-04	3.33E-04
1809	565590.9	4222132	0.004776	0.006316	2.26E-03	2.53E-03	6.92E-03	2.26E-03	6.27E-04	1.23E-03	7.40E-04	4.85E-04	6.87E-04	3.38E-04
1810	565603.4	4222144	0.005116	0.006766	2.42E-03	2.71E-03	7.42E-03	2.42E-03	6.72E-04	1.32E-03	7.93E-04	5.20E-04	7.36E-04	3.62E-04
1811	565607.1	4222153	0.005418	0.007165	2.57E-03	2.87E-03	7.85E-03	2.57E-03	7.11E-04	1.40E-03	8.40E-04	5.51E-04	7.79E-04	3.83E-04
1812	565610.8	4222162	0.005727	0.007574	2.71E-03	3.04E-03	8.30E-03	2.71E-03	7.52E-04	1.48E-03	8.88E-04	5.82E-04	8.24E-04	4.05E-04
1813	565614.5	4222171	0.006041	0.00799	2.86E-03	3.20E-03	8.76E-03	2.86E-03	7.93E-04	1.56E-03	9.37E-04	6.14E-04	8.69E-04	4.27E-04
1814	565629.2	4222206	0.007267	0.00961	3.44E-03	3.85E-03	1.05E-02	3.44E-03	9.54E-04	1.88E-03	1.13E-03	7.38E-04	1.05E-03	5.14E-04
1815	565632.9	4222215	0.00755	0.009984	3.58E-03	4.00E-03	1.09E-02	3.58E-03	9.91E-04	1.95E-03	1.17E-03	7.67E-04	1.09E-03	5.34E-04
1816	565636.6	4222224	0.007815	0.010335	3.70E-03	4.14E-03	1.13E-02	3.70E-03	1.03E-03	2.02E-03	1.21E-03	7.94E-04	1.12E-03	5.53E-04
1817	565580.6	4222118	0.004357	0.005762	2.06E-03	2.31E-03	6.32E-03	2.06E-03	5.72E-04	1.13E-03	6.75E-04	4.43E-04	6.27E-04	3.08E-04

1818	565589.3	4222121	0.00442	0.005846	2.09E-03	2.34E-03	6.41E-03	2.09E-03	5.81E-04	1.14E-03	6.85E-04	4.49E-04	6.36E-04	3.13E-04
1819	565598	4222125	0.004474	0.005917	2.12E-03	2.37E-03	6.49E-03	2.12E-03	5.88E-04	1.16E-03	6.94E-04	4.55E-04	6.44E-04	3.16E-04
1820	565610.3	4222137	0.004775	0.006315	2.26E-03	2.53E-03	6.92E-03	2.26E-03	6.27E-04	1.23E-03	7.40E-04	4.85E-04	6.87E-04	3.38E-04
1821	565613.9	4222146	0.005042	0.006669	2.39E-03	2.67E-03	7.31E-03	2.39E-03	6.62E-04	1.30E-03	7.82E-04	5.12E-04	7.25E-04	3.57E-04
1822	565632	4222189	0.006422	0.008493	3.04E-03	3.40E-03	9.31E-03	3.04E-03	8.43E-04	1.66E-03	9.96E-04	6.53E-04	9.24E-04	4.54E-04
1823	565635.7	4222198	0.00669	0.008848	3.17E-03	3.55E-03	9.70E-03	3.17E-03	8.79E-04	1.73E-03	1.04E-03	6.80E-04	9.62E-04	4.73E-04
1824	565639.3	4222206	0.006948	0.009188	3.29E-03	3.68E-03	1.01E-02	3.29E-03	9.12E-04	1.79E-03	1.08E-03	7.06E-04	9.99E-04	4.91E-04
1825	565642.9	4222215	0.007192	0.009511	3.41E-03	3.81E-03	1.04E-02	3.41E-03	9.45E-04	1.86E-03	1.11E-03	7.31E-04	1.03E-03	5.09E-04
1826	565646.5	4222224	0.007421	0.009814	3.52E-03	3.93E-03	1.08E-02	3.52E-03	9.75E-04	1.92E-03	1.15E-03	7.54E-04	1.07E-03	5.25E-04
1827	565587.9	4222111	0.004098	0.00542	1.94E-03	2.17E-03	5.94E-03	1.94E-03	5.38E-04	1.06E-03	6.35E-04	4.16E-04	5.90E-04	2.90E-04
1828	565596.5	4222114	0.004155	0.005495	1.97E-03	2.20E-03	6.02E-03	1.97E-03	5.46E-04	1.07E-03	6.44E-04	4.22E-04	5.98E-04	2.94E-04
1829	565605	4222118	0.004202	0.005556	1.99E-03	2.23E-03	6.09E-03	1.99E-03	5.52E-04	1.09E-03	6.51E-04	4.27E-04	6.04E-04	2.97E-04
1830	565617.2	4222130	0.004469	0.005911	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.15E-03	6.93E-04	4.54E-04	6.43E-04	3.16E-04
1831	565635	4222173	0.005695	0.007532	2.70E-03	3.02E-03	8.26E-03	2.70E-03	7.48E-04	1.47E-03	8.83E-04	5.79E-04	8.19E-04	4.03E-04
1832	565638.6	4222181	0.005943	0.007859	2.82E-03	3.15E-03	8.62E-03	2.82E-03	7.80E-04	1.54E-03	9.21E-04	6.04E-04	8.55E-04	4.20E-04
1833	565642.2	4222190	0.006185	0.00818	2.93E-03	3.28E-03	8.97E-03	2.93E-03	8.12E-04	1.60E-03	9.59E-04	6.29E-04	8.90E-04	4.37E-04
1834	565645.7	4222198	0.00642	0.00849	3.04E-03	3.40E-03	9.31E-03	3.04E-03	8.43E-04	1.66E-03	9.95E-04	6.52E-04	9.23E-04	4.54E-04
1835	565649.3	4222207	0.006644	0.008787	3.15E-03	3.52E-03	9.63E-03	3.15E-03	8.73E-04	1.72E-03	1.03E-03	6.75E-04	9.56E-04	4.70E-04
1836	565652.9	4222215	0.006858	0.009069	3.25E-03	3.64E-03	9.94E-03	3.25E-03	9.01E-04	1.77E-03	1.06E-03	6.97E-04	9.86E-04	4.85E-04
1837	565656.4	4222224	0.007057	0.009333	3.34E-03	3.74E-03	1.02E-02	3.34E-03	9.27E-04	1.82E-03	1.09E-03	7.17E-04	1.02E-03	4.99E-04
1838	565593.2	4222103	0.003851	0.005093	1.82E-03	2.04E-03	5.58E-03	1.82E-03	5.06E-04	9.95E-04	5.97E-04	3.91E-04	5.54E-04	2.72E-04
1839	565602.4	4222107	0.003906	0.005165	1.85E-03	2.07E-03	5.66E-03	1.85E-03	5.13E-04	1.01E-03	6.05E-04	3.97E-04	5.62E-04	2.76E-04
1840	565611.5	4222111	0.003952	0.005226	1.87E-03	2.10E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.13E-04	4.02E-04	5.68E-04	2.79E-04
1841	565639.5	4222160	0.005158	0.006822	2.44E-03	2.73E-03	7.48E-03	2.44E-03	6.77E-04	1.33E-03	8.00E-04	5.24E-04	7.42E-04	3.65E-04
1842	565643.3	4222169	0.0054	0.007142	2.56E-03	2.86E-03	7.83E-03	2.56E-03	7.09E-04	1.40E-03	8.37E-04	5.49E-04	7.77E-04	3.82E-04
1843	565647.1	4222178	0.005638	0.007457	2.67E-03	2.99E-03	8.17E-03	2.67E-03	7.40E-04	1.46E-03	8.74E-04	5.73E-04	8.11E-04	3.99E-04
1844	565650.9	4222187	0.005871	0.007764	2.78E-03	3.11E-03	8.51E-03	2.78E-03	7.71E-04	1.52E-03	9.10E-04	5.97E-04	8.44E-04	4.15E-04
1845	565654.7	4222196	0.006096	0.008062	2.89E-03	3.23E-03	8.84E-03	2.89E-03	8.01E-04	1.57E-03	9.45E-04	6.20E-04	8.77E-04	4.31E-04
1846	565658.5	4222205	0.006313	0.008348	2.99E-03	3.35E-03	9.15E-03	2.99E-03	8.29E-04	1.63E-03	9.79E-04	6.42E-04	9.08E-04	4.46E-04
1847	565662.2	4222214	0.006518	0.008619	3.09E-03	3.46E-03	9.45E-03	3.09E-03	8.56E-04	1.68E-03	1.01E-03	6.62E-04	9.38E-04	4.61E-04
1848	565666	4222223	0.006707	0.008869	3.18E-03	3.56E-03	9.72E-03	3.18E-03	8.81E-04	1.73E-03	1.04E-03	6.82E-04	9.65E-04	4.74E-04
1849	565582.7	4222089	0.003523	0.00466	1.67E-03	1.87E-03	5.11E-03	1.67E-03	4.63E-04	9.10E-04	5.46E-04	3.58E-04	5.07E-04	2.49E-04
1850	565591.7	4222093	0.003585	0.00474	1.70E-03	1.90E-03	5.20E-03	1.70E-03	4.71E-04	9.26E-04	5.56E-04	3.64E-04	5.16E-04	2.54E-04
1851	565600.6	4222096	0.003639	0.004813	1.72E-03	1.93E-03	5.28E-03	1.72E-03	4.78E-04	9.40E-04	5.64E-04	3.70E-04	5.24E-04	2.57E-04
1852	565609.6	4222100	0.003687	0.004876	1.75E-03	1.95E-03	5.35E-03	1.75E-03	4.84E-04	9.53E-04	5.72E-04	3.75E-04	5.30E-04	2.61E-04
1853	565618.5	4222104	0.00373	0.004932	1.77E-03	1.98E-03	5.41E-03	1.77E-03	4.90E-04	9.63E-04	5.78E-04	3.79E-04	5.36E-04	2.64E-04
1854	565646.1	4222152	0.004811	0.006363	2.28E-03	2.55E-03	6.98E-03	2.28E-03	6.32E-04	1.24E-03	7.46E-04	4.89E-04	6.92E-04	3.40E-04
1855	565649.9	4222161	0.005028	0.006649	2.38E-03	2.67E-03	7.29E-03	2.38E-03	6.60E-04	1.30E-03	7.79E-04	5.11E-04	7.23E-04	3.56E-04
1856	565653.6	4222170	0.005243	0.006934	2.48E-03	2.78E-03	7.60E-03	2.48E-03	6.89E-04	1.35E-03	8.13E-04	5.33E-04	7.54E-04	3.71E-04
1857	565657.3	4222179	0.005454	0.007213	2.58E-03	2.89E-03	7.91E-03	2.58E-03	7.16E-04	1.41E-03	8.45E-04	5.54E-04	7.85E-04	3.86E-04
1858	565661	4222188	0.00566	0.007485	2.68E-03	3.00E-03	8.21E-03	2.68E-03	7.43E-04	1.46E-03	8.77E-04	5.75E-04	8.14E-04	4.00E-04
1859	565664.8	4222197	0.005859	0.007749	2.78E-03	3.11E-03	8.49E-03	2.78E-03	7.69E-04	1.51E-03	9.08E-04	5.95E-04	8.43E-04	4.14E-04
1860	565668.5	4222206	0.00605	0.008001	2.87E-03	3.21E-03	8.77E-03	2.87E-03	7.95E-04	1.56E-03	9.38E-04	6.15E-04	8.70E-04	4.28E-04
1861	565672.2	4222215	0.006231	0.00824	2.95E-03	3.30E-03	9.03E-03	2.95E-03	8.18E-04	1.61E-03	9.66E-04	6.33E-04	8.96E-04	4.41E-04
1862	565675.9	4222224	0.006395	0.008457	3.03E-03	3.39E-03	9.27E-03	3.03E-03	8.40E-04	1.65E-03	9.91E-04	6.50E-04	9.20E-04	4.52E-04
1863	565590.3	4222082	0.003343	0.004421	1.58E-03	1.77E-03	4.85E-03	1.58E-03	4.39E-04	8.64E-04	5.18E-04	3.40E-04	4.81E-04	2.36E-04
1864	565599.2	4222086	0.003397	0.004492	1.61E-03	1.80E-03	4.92E-03	1.61E-03	4.46E-04	8.78E-04	5.27E-04	3.45E-04	4.89E-04	2.40E-04
1865	565608	4222090	0.003446	0.004557	1.63E-03	1.83E-03	5.00E-03	1.63E-03	4.53E-04	8.90E-04	5.34E-04	3.50E-04	4.96E-04	2.44E-04
1866	565616.8	4222093	0.003489	0.004614	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.01E-04	5.41E-04	3.55E-04	5.02E-04	2.47E-04
1867	565645.5	4222127	0.004113	0.00544	1.95E-03	2.18E-03	5.96E-03	1.95E-03	5.40E-04	1.06E-03	6.38E-04	4.18E-04	5.92E-04	2.91E-04
1868	565649.1	4222136	0.004306	0.005695	2.04E-03	2.28E-03	6.24E-03	2.04E-03	5.66E-04	1.11E-03	6.68E-04	4.38E-04	6.19E-04	3.05E-04
1869	565656.5	4222153	0.004697	0.006212	2.23E-03	2.49E-03	6.81E-03	2.23E-03	6.17E-04	1.21E-03	7.28E-04	4.77E-04	6.76E-04	3.32E-04
1870	565660.1	4222162	0.004892	0.00647	2.32E-03	2.59E-03	7.09E-03	2.32E-03	6.42E-04	1.26E-03	7.58E-04	4.97E-04	7.04E-04	3.46E-04
1871	565663.8	4222171	0.005084	0.006724	2.41E-03	2.70E-03	7.37E-03	2.41E-03	6.68E-04	1.31E-03	7.88E-04	5.17E-04	7.31E-04	3.60E-04
1872	565667.5	4222180	0.005272	0.006972	2.50E-03	2.80E-03	7.64E-03	2.50E-03	6.92E-04	1.36E-03	8.17E-04	5.36E-04	7.58E-04	3.73E-04
1873	565671.1	4222188	0.005455	0.007214	2.58E-03	2.89E-03	7.91E-03	2.58E-03	7.16E-04	1.41E-03	8.46E-04	5.54E-04	7.85E-04	3.86E-04
1874	565674.8	4222197	0.005633	0.007449	2.67E-03	2.99E-03	8.17E-03	2.67E-03	7.40E-04	1.46E-03	8.73E-04	5.72E-04	8.10E-04	3.98E-04
1875	565678.5	4222206	0.005801	0.007672	2.75E-03	3.08E-03	8.41E-03	2.75E-03	7.62E-04	1.50E-03	8.99E-04	5.90E-04	8.34E-04	4.10E-04
1876	565682.2	4222215	0.005959	0.00788	2.82E-03	3.16E-03	8.64E-03	2.82E-03	7.83E-04	1.54E-03	9.24E-04	6.06E-04	8.57E-04	4.21E-04
1877	565685.8	4222224	0.006102	0.008069	2.89E-03	3.24E-03	8.85E-03	2.89E-03	8.01E-04	1.58E-03	9.46E-04	6.20E-04	8.78E-04	4.31E-04
1878	565589.2	4222072	0.003124	0.004131	1.48E-03	1.66E-03	4.53E-03	1.48E-03	4.10E-04	8.07E-04	4.84E-04	3.17E-04	4.49E-04	2.21E-04
1879	565597.9	4222076	0.003176	0.0042	1.50E-03	1.68E-03	4.60E-03	1.50E-03	4.17E-04	8.20E-04	4.92E-04	3.23E-04	4.57E-04	2.25E-04
1880	565606.6	4222079	0.003224	0.004264	1.53E-03	1.71E-03	4.67E-03	1.53E-03	4.23E-04	8.33E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
1881	565615.3	4222083	0.003269	0.004323	1.55E-03	1.73E-03	4.74E-03	1.55E-03	4.29E-04	8.44E-04	5.07E-04	3.32E-04	4.70E-04	2.31E-04
1882	565645	4222102	0.003534	0.004674	1.67E-03	1.87E-03	5.12E-03	1.67E-03	4.64E-04	9.13E-04	5.48E-04	3.59E-04	5.08E-04	2.50E-04
1883	565648.6	4222111	0.003701	0.004895	1.75E-03	1.96E-03	5.37E-03	1.75E-03	4.86E-04	9.56E-04	5.74E-04	3.76E-04	5.32E-04	2.62E-04
1884	565652.2	4222119	0.003872	0.005121	1.83E-03	2.05E-03	5.61E-03	1.83E-03	5.09E-04	1.00E-03	6.00E-04	3.94E-04	5.57E-04	2.74E-04
1885	565655.9	4222128	0.004046	0.005351	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.31E-04	1.05E-03	6.27E-04	4.11E-04	5.82E-04	2.86E-04
1886	565659.5	4222137	0.004223	0.005585	2.00E-03	2.24E-03	6.12E-03	2.00E-03	5.55E-04	1.09E-03	6.55E-04	4.29E-04	6.07E-04	2.99E-04
1887	565670.4	4222163	0.004754	0.006287	2.25E-03	2.52E-03	6.89E-03	2.25E-03	6.24E-04	1.23E-03	7.37E-04	4.83E-04	6.84E-04	3.36E-04
1888	565674	4222172	0.004927	0.006515	2.33E-03	2.61E-03	7.14E-03	2.33E-03	6.47E-04	1.27E-03	7.64E-04	5.01E-04	7.09E-04	3.48E-04
1889	565677.6	4222180	0.005096	0.006739	2.41E-03	2.70E-03	7.39E-03	2.41E-03	6.69E-04	1.32E-03	7.90E-04	5.18E-04	7.33E-04	3.60E-04
1890	565681.2	4222189	0.005259	0.006955	2.49E-03	2.79E-03	7.62E-03	2.49E-03	6.91E-04	1.36E-03	8.15E-04	5.34E-04	7.57E-04	3.72E-04
1891	565684.8	4222198	0.005417	0.007164	2.57E-03	2.87E-03	7.85E-03	2.57E-03	7.11E-04	1.40E-03	8.40E-04	5.51E-04	7.79E-04	3.83E-04
1892	565688.5	4222206	0.005565	0.007359	2.64E-03	2.95E-03	8.07E-03	2.64E-03	7.31E-04	1.44E-03	8.63E-04	5.66E-04	8.00E-04	3.94E-04
1893	565692.1	4222215	0.005703	0.007542	2.70E-03	3.02E-03	8.27E-03	2.70E-03	7.49E-04	1.47E-03	8.84E-04	5.80E-04	8.20E-04	4.03E-04
1894	565695.7	4222224	0.005828	0.007708	2.76E-03	3.09E-03	8.45E-03	2.76E-03	7.65E-04	1.51E-03	9.04E-04	5.92E-04	8.38E-04	4.12E-04
1895	565593.5	4222064	0.002956	0.003909	1.40E-03	1.57E-03	4.29E-03	1.40E-03	3.88E-04	7.64E-04	4.58E-04	3.00E-04	4.25E-04	2.09E-04
1896	565602.6	4222068	0.003007	0.003977	1.42E-03	1.59E-03	4.36E-03	1.42E-03	3.95E-04	7.77E-04	4.66E-04	3.06E-04	4.33E-04	2.13E-04
1897	565611.8	4222071	0.003055	0.00404	1.45E-03	1.62E-03	4.43E-03	1.45E-03	4.01E-04	7.89E-04	4.74E-04	3.10E-04	4.39E-04	2.16E-04
1898	565652.1	4222096	0.003356	0.004438	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
1899	565655.9	4222105	0.003517	0.004652	1.67E-03	1.86E-03	5.10E-03	1.67E-03	4.62E-04	9.09E-04	5.45E-04	3.57E-04	5.06E-04	2.49E-04
1900	565659.7	4222114	0.003683	0.004871	1.74E-03	1.95E-03	5.34E-03	1.74E-03	4.84E-04	9.51E-04	5.71E-04	3.74E-04	5.30E-04	2.60E-04
1901	565663.5	4222123	0.003852	0.005094	1.83E-03	2.04E-03	5.58E-03	1.83E-03	5.06E-04	9.95E-04	5.97E-04	3.91E-04	5.54E-04	2.72E-04
1902	565667.3	4222132	0.004023	0.005321	1.91E-03	2.13E-03	5.83E-03	1.91E-03	5.28E-04	1.04E-03	6.24E-04	4.09E-04	5.79E-04	2.85E-04
1903	565671.1	4222141	0.004195	0.005548	1.99E-03	2.22E-03	6.08E-03	1.99E-03	5.51E-04	1.08E-03	6.50E-04	4.26E-04	6.03E-04	2.97E-04
1904	565682.6	4222169	0.004706	0.006224	2.23E-03	2.50E-03	6.82E-03	2.23E-03	6.18E-04	1.22E-03	7.30E-04	4.78E-04	6.77E-04	3.33E-04
1905	565686.4	4222178	0.00487	0.00644	2.31E-03	2.58E-03	7.06E-03	2.31E-03	6.40E-04	1.26E-03	7.55E-04	4.95E-04	7.00E-04	3.44E-04
1906	565690.2	4222187	0.005026	0.006647	2.38E-03	2.66E-03	7.29E-03	2.38E-03	6.60E-04	1.30E-03	7.79E-04	5.11E-04	7.23E-04	3.55E-04
1907	565694	4222196	0.005177	0.006847	2.45E-03	2.74E-03	7.51E-03	2.45E-03	6.80E-04	1.34E-03	8.03E-04	5.26E-04	7.45E-04	3.66E-04
1908	565697.8	4222205	0.005318	0.007033	2.52E-03	2.82E-03	7.71E-03	2.52E-03	6.98E-04	1.37E-03	8.24E-04	5.40E-04	7.65E-04	3.76E-04

1909	565701.6	4222214	0.005448	0.007205	2.58E-03	2.89E-03	7.90E-03	2.58E-03	7.15E-04	1.41E-03	8.45E-04	5.54E-04	7.84E-04	3.85E-04
1910	565705.4	4222223	0.005567	0.007362	2.64E-03	2.95E-03	8.07E-03	2.64E-03	7.31E-04	1.44E-03	8.63E-04	5.66E-04	8.01E-04	3.94E-04
1911	565592.2	4222054	0.002772	0.003666	1.31E-03	1.47E-03	4.02E-03	1.31E-03	3.64E-04	7.16E-04	4.30E-04	2.82E-04	3.99E-04	1.96E-04
1912	565601.2	4222057	0.002821	0.00373	1.34E-03	1.50E-03	4.09E-03	1.34E-03	3.70E-04	7.29E-04	4.37E-04	2.87E-04	4.06E-04	1.99E-04
1913	565610.2	4222061	0.002867	0.003791	1.36E-03	1.52E-03	4.16E-03	1.36E-03	3.76E-04	7.41E-04	4.44E-04	2.91E-04	4.12E-04	2.03E-04
1914	565659	4222088	0.003183	0.004209	1.51E-03	1.69E-03	4.61E-03	1.51E-03	4.18E-04	8.22E-04	4.93E-04	3.23E-04	4.58E-04	2.25E-04
1915	565662.8	4222097	0.00333	0.004403	1.58E-03	1.77E-03	4.83E-03	1.58E-03	4.37E-04	8.60E-04	5.16E-04	3.38E-04	4.79E-04	2.35E-04
1916	565666.5	4222106	0.00348	0.004602	1.65E-03	1.85E-03	5.05E-03	1.65E-03	4.57E-04	8.99E-04	5.39E-04	3.54E-04	5.01E-04	2.46E-04
1917	565670.3	4222115	0.003634	0.004805	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.77E-04	9.39E-04	5.63E-04	3.69E-04	5.23E-04	2.57E-04
1918	565674	4222124	0.00379	0.005012	1.80E-03	2.01E-03	5.49E-03	1.80E-03	4.98E-04	9.79E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
1919	565677.8	4222133	0.003947	0.00522	1.87E-03	2.09E-03	5.72E-03	1.87E-03	5.18E-04	1.02E-03	6.12E-04	4.01E-04	5.68E-04	2.79E-04
1920	565681.5	4222142	0.004104	0.005428	1.94E-03	2.18E-03	5.95E-03	1.94E-03	5.39E-04	1.06E-03	6.36E-04	4.17E-04	5.90E-04	2.90E-04
1921	565685.3	4222151	0.004262	0.005636	2.02E-03	2.26E-03	6.18E-03	2.02E-03	5.60E-04	1.10E-03	6.61E-04	4.33E-04	6.13E-04	3.01E-04
1922	565696.5	4222178	0.004714	0.006234	2.23E-03	2.50E-03	6.83E-03	2.23E-03	6.19E-04	1.22E-03	7.31E-04	4.79E-04	6.78E-04	3.33E-04
1923	565700.3	4222187	0.004854	0.006419	2.30E-03	2.57E-03	7.04E-03	2.30E-03	6.37E-04	1.25E-03	7.52E-04	4.93E-04	6.98E-04	3.43E-04
1924	565704	4222196	0.004987	0.006595	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.07E-04	7.17E-04	3.53E-04
1925	565707.8	4222205	0.005111	0.006759	2.42E-03	2.71E-03	7.41E-03	2.42E-03	6.71E-04	1.32E-03	7.92E-04	5.19E-04	7.35E-04	3.61E-04
1926	565711.5	4222214	0.005225	0.00691	2.48E-03	2.77E-03	7.58E-03	2.48E-03	6.86E-04	1.35E-03	8.10E-04	5.31E-04	7.52E-04	3.70E-04
1927	565715.3	4222223	0.005329	0.007048	2.52E-03	2.83E-03	7.73E-03	2.52E-03	7.00E-04	1.38E-03	8.26E-04	5.42E-04	7.67E-04	3.77E-04
1928	565591	4222043	0.002604	0.003444	1.23E-03	1.38E-03	3.78E-03	1.23E-03	3.42E-04	6.73E-04	4.04E-04	2.65E-04	3.75E-04	1.84E-04
1929	565599.9	4222047	0.002651	0.003505	1.26E-03	1.41E-03	3.84E-03	1.26E-03	3.48E-04	6.85E-04	4.11E-04	2.69E-04	3.81E-04	1.87E-04
1930	565608.8	4222051	0.002695	0.003564	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.96E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
1931	565617.7	4222054	0.002736	0.003619	1.30E-03	1.45E-03	3.97E-03	1.30E-03	3.59E-04	7.07E-04	4.24E-04	2.78E-04	3.94E-04	1.94E-04
1932	565665.9	4222081	0.003024	0.003999	1.43E-03	1.60E-03	4.38E-03	1.43E-03	3.97E-04	7.81E-04	4.69E-04	3.07E-04	4.35E-04	2.14E-04
1933	565669.6	4222090	0.003158	0.004176	1.50E-03	1.67E-03	4.58E-03	1.50E-03	4.15E-04	8.16E-04	4.90E-04	3.21E-04	4.54E-04	2.23E-04
1934	565673.3	4222099	0.003295	0.004358	1.56E-03	1.75E-03	4.78E-03	1.56E-03	4.33E-04	8.51E-04	5.11E-04	3.35E-04	4.74E-04	2.33E-04
1935	565677	4222108	0.003435	0.004543	1.63E-03	1.82E-03	4.98E-03	1.63E-03	4.51E-04	8.88E-04	5.33E-04	3.49E-04	4.94E-04	2.43E-04
1936	565680.7	4222117	0.003578	0.004732	1.70E-03	1.90E-03	5.19E-03	1.70E-03	4.70E-04	9.24E-04	5.55E-04	3.64E-04	5.15E-04	2.53E-04
1937	565684.4	4222126	0.003721	0.004921	1.76E-03	1.97E-03	5.40E-03	1.76E-03	4.89E-04	9.61E-04	5.77E-04	3.78E-04	5.35E-04	2.63E-04
1938	565688.1	4222135	0.003866	0.005113	1.83E-03	2.05E-03	5.60E-03	1.83E-03	5.08E-04	9.99E-04	5.99E-04	3.93E-04	5.56E-04	2.73E-04
1939	565691.8	4222144	0.004011	0.005304	1.90E-03	2.13E-03	5.81E-03	1.90E-03	5.27E-04	1.04E-03	6.22E-04	4.08E-04	5.77E-04	2.84E-04
1940	565695.5	4222152	0.004154	0.005494	1.97E-03	2.20E-03	6.02E-03	1.97E-03	5.46E-04	1.07E-03	6.44E-04	4.22E-04	5.98E-04	2.94E-04
1941	565699.2	4222161	0.004295	0.00568	2.03E-03	2.28E-03	6.23E-03	2.03E-03	5.64E-04	1.11E-03	6.66E-04	4.36E-04	6.18E-04	3.04E-04
1942	565714	4222197	0.004803	0.006352	2.28E-03	2.55E-03	6.96E-03	2.28E-03	6.31E-04	1.24E-03	7.45E-04	4.88E-04	6.91E-04	3.40E-04
1943	565717.7	4222206	0.004913	0.006498	2.33E-03	2.60E-03	7.12E-03	2.33E-03	6.45E-04	1.27E-03	7.62E-04	4.99E-04	7.07E-04	3.47E-04
1944	565721.4	4222215	0.005015	0.006632	2.38E-03	2.66E-03	7.27E-03	2.38E-03	6.59E-04	1.30E-03	7.77E-04	5.10E-04	7.21E-04	3.55E-04
1945	565725.2	4222223	0.005107	0.006754	2.42E-03	2.71E-03	7.40E-03	2.42E-03	6.71E-04	1.32E-03	7.92E-04	5.19E-04	7.35E-04	3.61E-04
1946	565598.8	4222037	0.002495	0.0033	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.45E-04	3.87E-04	2.54E-04	3.59E-04	1.76E-04
1947	565607.6	4222040	0.002537	0.003355	1.20E-03	1.35E-03	3.68E-03	1.20E-03	3.33E-04	6.55E-04	3.93E-04	2.58E-04	3.65E-04	1.79E-04
1948	565616.4	4222044	0.002577	0.003408	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.38E-04	6.66E-04	3.99E-04	2.62E-04	3.71E-04	1.82E-04
1949	565625.2	4222047	0.002613	0.003456	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.66E-04	3.76E-04	1.85E-04
1950	565634	4222051	0.002648	0.003503	1.25E-03	1.40E-03	3.84E-03	1.25E-03	3.48E-04	6.84E-04	4.11E-04	2.69E-04	3.81E-04	1.87E-04
1951	565642.8	4222055	0.002681	0.003546	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.52E-04	6.93E-04	4.16E-04	2.72E-04	3.86E-04	1.90E-04
1952	565651.6	4222058	0.00271	0.003584	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
1953	565660.4	4222062	0.002736	0.003618	1.30E-03	1.45E-03	3.97E-03	1.30E-03	3.59E-04	7.07E-04	4.24E-04	2.78E-04	3.94E-04	1.93E-04
1954	565676.5	4222083	0.003	0.003968	1.42E-03	1.59E-03	4.35E-03	1.42E-03	3.94E-04	7.75E-04	4.65E-04	3.05E-04	4.32E-04	2.12E-04
1955	565680.1	4222092	0.003126	0.004134	1.48E-03	1.66E-03	4.53E-03	1.48E-03	4.11E-04	8.08E-04	4.85E-04	3.18E-04	4.50E-04	2.21E-04
1956	565683.8	4222101	0.003254	0.004304	1.54E-03	1.73E-03	4.72E-03	1.54E-03	4.27E-04	8.41E-04	5.04E-04	3.31E-04	4.68E-04	2.30E-04
1957	565687.4	4222109	0.003385	0.004476	1.60E-03	1.79E-03	4.91E-03	1.60E-03	4.45E-04	8.74E-04	5.25E-04	3.44E-04	4.87E-04	2.39E-04
1958	565691.1	4222118	0.003517	0.004651	1.67E-03	1.86E-03	5.10E-03	1.67E-03	4.62E-04	9.08E-04	5.45E-04	3.57E-04	5.06E-04	2.49E-04
1959	565694.8	4222127	0.003649	0.004826	1.73E-03	1.93E-03	5.29E-03	1.73E-03	4.79E-04	9.43E-04	5.66E-04	3.71E-04	5.25E-04	2.58E-04
1960	565698.4	4222136	0.003782	0.005002	1.79E-03	2.01E-03	5.48E-03	1.79E-03	4.97E-04	9.77E-04	5.86E-04	3.84E-04	5.44E-04	2.68E-04
1961	565702.1	4222145	0.003915	0.005178	1.86E-03	2.08E-03	5.68E-03	1.86E-03	5.14E-04	1.01E-03	6.07E-04	3.98E-04	5.63E-04	2.77E-04
1962	565705.8	4222153	0.004046	0.005351	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.31E-04	1.05E-03	6.27E-04	4.11E-04	5.82E-04	2.86E-04
1963	565709.4	4222162	0.004173	0.005519	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.00E-04	2.95E-04
1964	565713.1	4222171	0.004295	0.00568	2.03E-03	2.28E-03	6.23E-03	2.03E-03	5.64E-04	1.11E-03	6.66E-04	4.36E-04	6.18E-04	3.04E-04
1965	565731.4	4222215	0.004817	0.00637	2.28E-03	2.55E-03	6.98E-03	2.28E-03	6.33E-04	1.24E-03	7.47E-04	4.90E-04	6.93E-04	3.41E-04
1966	565735	4222224	0.004899	0.006479	2.32E-03	2.60E-03	7.10E-03	2.32E-03	6.43E-04	1.27E-03	7.59E-04	4.98E-04	7.05E-04	3.46E-04
1967	565597.8	4222026	0.002353	0.003111	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
1968	565606.5	4222030	0.002392	0.003164	1.13E-03	1.27E-03	3.47E-03	1.13E-03	3.14E-04	6.18E-04	3.71E-04	2.43E-04	3.44E-04	1.69E-04
1969	565615.2	4222033	0.002431	0.003214	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.28E-04	3.77E-04	2.47E-04	3.50E-04	1.72E-04
1970	565623.9	4222037	0.002467	0.003263	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.24E-04	6.37E-04	3.82E-04	2.51E-04	3.55E-04	1.74E-04
1971	565632.6	4222041	0.0025	0.003306	1.18E-03	1.33E-03	3.62E-03	1.18E-03	3.28E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
1972	565641.3	4222044	0.002532	0.003349	1.20E-03	1.34E-03	3.67E-03	1.20E-03	3.33E-04	6.54E-04	3.93E-04	2.57E-04	3.64E-04	1.79E-04
1973	565650	4222048	0.002562	0.003388	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.62E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
1974	565658.7	4222051	0.002588	0.003423	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.69E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
1975	565667.4	4222055	0.002612	0.003454	1.24E-03	1.38E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.65E-04	3.76E-04	1.85E-04
1976	565687	4222085	0.002971	0.003929	1.41E-03	1.57E-03	4.31E-03	1.41E-03	3.90E-04	7.67E-04	4.60E-04	3.02E-04	4.27E-04	2.10E-04
1977	565690.6	4222093	0.003089	0.004085	1.46E-03	1.64E-03	4.48E-03	1.46E-03	4.06E-04	7.98E-04	4.79E-04	3.14E-04	4.44E-04	2.18E-04
1978	565694.2	4222102	0.003209	0.004243	1.52E-03	1.70E-03	4.65E-03	1.52E-03	4.21E-04	8.29E-04	4.97E-04	3.26E-04	4.62E-04	2.27E-04
1979	565697.8	4222111	0.00333	0.004404	1.58E-03	1.77E-03	4.83E-03	1.58E-03	4.37E-04	8.60E-04	5.16E-04	3.38E-04	4.79E-04	2.35E-04
1980	565701.4	4222119	0.003452	0.004565	1.64E-03	1.83E-03	5.00E-03	1.64E-03	4.53E-04	8.92E-04	5.35E-04	3.51E-04	4.97E-04	2.44E-04
1981	565705.1	4222128	0.003574	0.004726	1.69E-03	1.89E-03	5.18E-03	1.69E-03	4.69E-04	9.23E-04	5.54E-04	3.63E-04	5.14E-04	2.53E-04
1982	565708.7	4222137	0.003697	0.004889	1.75E-03	1.96E-03	5.36E-03	1.75E-03	4.85E-04	9.55E-04	5.73E-04	3.76E-04	5.32E-04	2.61E-04
1983	565712.3	4222145	0.003818	0.00505	1.81E-03	2.02E-03	5.54E-03	1.81E-03	5.01E-04	9.86E-04	5.92E-04	3.88E-04	5.49E-04	2.70E-04
1984	565715.9	4222154	0.003937	0.005207	1.87E-03	2.09E-03	5.71E-03	1.87E-03	5.17E-04	1.02E-03	6.10E-04	4.00E-04	5.66E-04	2.78E-04
1985	565719.6	4222163	0.004052	0.005359	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.32E-04	1.05E-03	6.28E-04	4.12E-04	5.83E-04	2.87E-04
1986	565723.2	4222171	0.004162	0.005504	1.97E-03	2.21E-03	6.03E-03	1.97E-03	5.47E-04	1.08E-03	6.45E-04	4.23E-04	5.99E-04	2.94E-04
1987	565726.8	4222180	0.004268	0.005644	2.02E-03	2.26E-03	6.19E-03	2.02E-03	5.60E-04	1.10E-03	6.62E-04	4.34E-04	6.14E-04	3.02E-04
1988	565730.4	4222189	0.004368	0.005776	2.07E-03	2.32E-03	6.33E-03	2.07E-03	5.74E-04	1.13E-03	6.77E-04	4.44E-04	6.28E-04	3.09E-04
1989	565619.7	4222026	0.002319	0.003067	1.10E-03	1.23E-03	3.36E-03	1.10E-03	3.05E-04	5.99E-04	3.59E-04	2.36E-04	3.34E-04	1.64E-04
1990	565628.7	4222029	0.002353	0.003112	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
1991	565637.8	4222033	0.002387	0.003156	1.13E-03	1.27E-03	3.46E-03	1.13E-03	3.13E-04	6.17E-04	3.70E-04	2.43E-04	3.43E-04	1.69E-04
1992	565646.8	4222037	0.002418	0.003198	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.25E-04	3.75E-04	2.46E-04	3.48E-04	1.71E-04
1993	565655.9	4222040	0.002446	0.003235	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.21E-04	6.32E-04	3.79E-04	2.49E-04	3.52E-04	1.73E-04
1994	565664.9	4222044	0.002472	0.00327	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.25E-04	6.39E-04	3.83E-04	2.51E-04	3.56E-04	1.75E-04
1995	565674	4222048	0.002496	0.0033	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.45E-04	3.87E-04	2.54E-04	3.59E-04	1.76E-04
1996	565686.8	4222061	0.002622	0.003468	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.44E-04	6.77E-04	4.07E-04	2.67E-04	3.77E-04	1.85E-04
1997	565694.3	4222079	0.002844	0.003761	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.35E-04	4.41E-04	2.89E-04	4.09E-04	2.01E-04
1998	565698.1	4222088	0.002958	0.003913	1.40E-03	1.57E-03	4.29E-03	1.40E-03	3.89E-04	7.64E-04	4.59E-04	3.01E-04	4.26E-04	2.09E-04
1999	565701.9	4222097	0.003075	0.004066	1.46E-03	1.63E-03	4.46E-03	1.46E-03	4.04E-04	7.94E-04	4.77E-04	3.12E-04	4.42E-04	2.17E-04

2000	565705.6	4222106	0.003192	0.004222	1.51E-03	1.69E-03	4.63E-03	1.51E-03	4.19E-04	8.25E-04	4.95E-04	3.24E-04	4.59E-04	2.26E-04
2001	565709.4	4222115	0.003311	0.004379	1.57E-03	1.76E-03	4.80E-03	1.57E-03	4.35E-04	8.55E-04	5.13E-04	3.36E-04	4.76E-04	2.34E-04
2002	565713.2	4222124	0.003429	0.004535	1.62E-03	1.82E-03	4.97E-03	1.62E-03	4.50E-04	8.86E-04	5.32E-04	3.48E-04	4.93E-04	2.42E-04
2003	565720.7	4222142	0.003666	0.004848	1.74E-03	1.94E-03	5.31E-03	1.74E-03	4.81E-04	9.47E-04	5.68E-04	3.73E-04	5.27E-04	2.59E-04
2004	565724.5	4222151	0.003781	0.005	1.79E-03	2.00E-03	5.48E-03	1.79E-03	4.97E-04	9.77E-04	5.86E-04	3.84E-04	5.44E-04	2.67E-04
2005	565728.2	4222160	0.003893	0.005148	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.01E-03	6.03E-04	3.96E-04	5.60E-04	2.75E-04
2006	565732	4222169	0.003999	0.005288	1.89E-03	2.12E-03	5.80E-03	1.89E-03	5.25E-04	1.03E-03	6.20E-04	4.06E-04	5.75E-04	2.83E-04
2007	565735.8	4222178	0.004101	0.005423	1.94E-03	2.17E-03	5.94E-03	1.94E-03	5.39E-04	1.06E-03	6.36E-04	4.17E-04	5.90E-04	2.90E-04
2008	565739.5	4222187	0.004197	0.00555	1.99E-03	2.22E-03	6.08E-03	1.99E-03	5.51E-04	1.08E-03	6.51E-04	4.26E-04	6.04E-04	2.97E-04
2009	565743.3	4222196	0.004287	0.005669	2.03E-03	2.27E-03	6.21E-03	2.03E-03	5.63E-04	1.11E-03	6.65E-04	4.36E-04	6.17E-04	3.03E-04
2010	565747.1	4222205	0.00437	0.00578	2.07E-03	2.32E-03	6.34E-03	2.07E-03	5.74E-04	1.13E-03	6.77E-04	4.44E-04	6.29E-04	3.09E-04
2011	565645.2	4222026	0.002289	0.003027	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.01E-04	5.91E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
2012	565654.2	4222030	0.002317	0.003065	1.10E-03	1.23E-03	3.36E-03	1.10E-03	3.04E-04	5.99E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
2013	565663.1	4222034	0.002343	0.003099	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
2014	565672.1	4222037	0.002367	0.00313	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.11E-04	6.11E-04	3.67E-04	2.41E-04	3.40E-04	1.67E-04
2015	565681	4222041	0.002389	0.00316	1.13E-03	1.27E-03	3.46E-03	1.13E-03	3.14E-04	6.17E-04	3.70E-04	2.43E-04	3.44E-04	1.69E-04
2016	565693.7	4222054	0.002506	0.003315	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.48E-04	3.89E-04	2.55E-04	3.61E-04	1.77E-04
2017	565704.9	4222080	0.002816	0.003723	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.70E-04	7.27E-04	4.36E-04	2.86E-04	4.05E-04	1.99E-04
2018	565708.6	4222089	0.002923	0.003865	1.38E-03	1.55E-03	4.24E-03	1.38E-03	3.84E-04	7.55E-04	4.53E-04	2.97E-04	4.20E-04	2.07E-04
2019	565712.3	4222098	0.003031	0.004009	1.44E-03	1.61E-03	4.39E-03	1.44E-03	3.98E-04	7.83E-04	4.70E-04	3.08E-04	4.36E-04	2.14E-04
2020	565716	4222107	0.003141	0.004154	1.49E-03	1.67E-03	4.55E-03	1.49E-03	4.12E-04	8.11E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04
2021	565719.8	4222116	0.00325	0.004298	1.54E-03	1.72E-03	4.71E-03	1.54E-03	4.27E-04	8.40E-04	5.04E-04	3.30E-04	4.68E-04	2.30E-04
2022	565723.5	4222125	0.003359	0.004442	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.68E-04	5.21E-04	3.41E-04	4.83E-04	2.38E-04
2023	565727.2	4222134	0.003468	0.004587	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.96E-04	5.38E-04	3.52E-04	4.99E-04	2.45E-04
2024	565731	4222143	0.003576	0.004729	1.69E-03	1.90E-03	5.18E-03	1.69E-03	4.70E-04	9.24E-04	5.54E-04	3.63E-04	5.14E-04	2.53E-04
2025	565734.7	4222152	0.003682	0.004869	1.74E-03	1.95E-03	5.34E-03	1.74E-03	4.83E-04	9.51E-04	5.71E-04	3.74E-04	5.30E-04	2.60E-04
2026	565738.4	4222161	0.003783	0.005003	1.79E-03	2.01E-03	5.48E-03	1.79E-03	4.97E-04	9.77E-04	5.86E-04	3.84E-04	5.44E-04	2.68E-04
2027	565742.1	4222170	0.003879	0.00513	1.84E-03	2.06E-03	5.62E-03	1.84E-03	5.09E-04	1.00E-03	6.01E-04	3.94E-04	5.58E-04	2.74E-04
2028	565745.9	4222179	0.003971	0.005251	1.88E-03	2.11E-03	5.76E-03	1.88E-03	5.21E-04	1.03E-03	6.16E-04	4.04E-04	5.71E-04	2.81E-04
2029	565749.6	4222188	0.004057	0.005365	1.92E-03	2.15E-03	5.88E-03	1.92E-03	5.33E-04	1.05E-03	6.29E-04	4.12E-04	5.84E-04	2.87E-04
2030	565753.3	4222197	0.004138	0.005473	1.96E-03	2.19E-03	6.00E-03	1.96E-03	5.43E-04	1.07E-03	6.42E-04	4.21E-04	5.95E-04	2.93E-04
2031	565757	4222205	0.004213	0.005572	2.00E-03	2.23E-03	6.11E-03	2.00E-03	5.53E-04	1.09E-03	6.53E-04	4.28E-04	6.06E-04	2.98E-04
2032	565760.8	4222214	0.004282	0.005663	2.03E-03	2.27E-03	6.21E-03	2.03E-03	5.62E-04	1.11E-03	6.64E-04	4.35E-04	6.16E-04	3.03E-04
2033	565764.5	4222223	0.004344	0.005745	2.06E-03	2.30E-03	6.30E-03	2.06E-03	5.70E-04	1.12E-03	6.73E-04	4.41E-04	6.25E-04	3.07E-04
2034	565670.3	4222027	0.002247	0.002972	1.06E-03	1.19E-03	3.26E-03	1.06E-03	2.95E-04	5.81E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
2035	565679.2	4222030	0.00227	0.003002	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.86E-04	3.52E-04	2.31E-04	3.26E-04	1.61E-04
2036	565688	4222034	0.00229	0.003029	1.09E-03	1.21E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
2037	565700.6	4222046	0.002399	0.003173	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.20E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
2038	565704.3	4222055	0.002492	0.003295	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.44E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
2039	565715.4	4222082	0.002783	0.00368	1.32E-03	1.48E-03	4.03E-03	1.32E-03	3.65E-04	7.19E-04	4.31E-04	2.83E-04	4.00E-04	1.97E-04
2040	565719	4222091	0.002883	0.003813	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.45E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
2041	565722.7	4222100	0.002985	0.003947	1.41E-03	1.58E-03	4.33E-03	1.41E-03	3.92E-04	7.71E-04	4.63E-04	3.03E-04	4.29E-04	2.11E-04
2042	565726.4	4222108	0.003086	0.004082	1.46E-03	1.64E-03	4.47E-03	1.46E-03	4.05E-04	7.97E-04	4.78E-04	3.14E-04	4.44E-04	2.18E-04
2043	565730.1	4222117	0.003187	0.004215	1.51E-03	1.69E-03	4.62E-03	1.51E-03	4.19E-04	8.23E-04	4.94E-04	3.24E-04	4.58E-04	2.25E-04
2044	565733.8	4222126	0.003288	0.004348	1.56E-03	1.74E-03	4.77E-03	1.56E-03	4.32E-04	8.49E-04	5.10E-04	3.34E-04	4.73E-04	2.33E-04
2045	565737.5	4222135	0.003389	0.004482	1.61E-03	1.80E-03	4.91E-03	1.61E-03	4.45E-04	8.76E-04	5.25E-04	3.44E-04	4.87E-04	2.40E-04
2046	565741.2	4222144	0.003488	0.004613	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.01E-04	5.41E-04	3.54E-04	5.02E-04	2.47E-04
2047	565744.9	4222153	0.003584	0.004739	1.70E-03	1.90E-03	5.20E-03	1.70E-03	4.71E-04	9.26E-04	5.56E-04	3.64E-04	5.15E-04	2.53E-04
2048	565748.5	4222161	0.003675	0.004861	1.74E-03	1.95E-03	5.33E-03	1.74E-03	4.83E-04	9.49E-04	5.70E-04	3.74E-04	5.29E-04	2.60E-04
2049	565752.2	4222170	0.003762	0.004976	1.78E-03	1.99E-03	5.45E-03	1.78E-03	4.94E-04	9.72E-04	5.83E-04	3.82E-04	5.41E-04	2.66E-04
2050	565755.9	4222179	0.003845	0.005086	1.82E-03	2.04E-03	5.58E-03	1.82E-03	5.05E-04	9.93E-04	5.96E-04	3.91E-04	5.53E-04	2.72E-04
2051	565759.6	4222188	0.003924	0.005189	1.86E-03	2.08E-03	5.69E-03	1.86E-03	5.15E-04	1.01E-03	6.08E-04	3.99E-04	5.64E-04	2.77E-04
2052	565763.3	4222197	0.003996	0.005285	1.89E-03	2.12E-03	5.79E-03	1.89E-03	5.25E-04	1.03E-03	6.20E-04	4.06E-04	5.75E-04	2.83E-04
2053	565767	4222206	0.004065	0.005376	1.93E-03	2.16E-03	5.89E-03	1.93E-03	5.34E-04	1.05E-03	6.30E-04	4.13E-04	5.85E-04	2.87E-04
2054	565770.7	4222215	0.004127	0.005458	1.96E-03	2.19E-03	5.98E-03	1.96E-03	5.42E-04	1.07E-03	6.40E-04	4.19E-04	5.94E-04	2.92E-04
2055	565774.4	4222223	0.004184	0.005533	1.98E-03	2.22E-03	6.07E-03	1.98E-03	5.49E-04	1.08E-03	6.49E-04	4.25E-04	6.02E-04	2.96E-04
2056	565695.1	4222027	0.002197	0.002906	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.23E-04	3.16E-04	1.55E-04
2057	565707.5	4222039	0.002299	0.00304	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.94E-04	3.56E-04	2.34E-04	3.31E-04	1.63E-04
2058	565711.2	4222048	0.002384	0.003153	1.13E-03	1.26E-03	3.46E-03	1.13E-03	3.13E-04	6.16E-04	3.70E-04	2.42E-04	3.43E-04	1.69E-04
2059	565714.8	4222057	0.002472	0.00327	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.25E-04	6.39E-04	3.83E-04	2.51E-04	3.56E-04	1.75E-04
2060	565725.8	4222083	0.002747	0.003633	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
2061	565729.4	4222092	0.002841	0.003757	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.34E-04	4.40E-04	2.89E-04	4.09E-04	2.01E-04
2062	565733.1	4222101	0.002935	0.003882	1.39E-03	1.56E-03	4.26E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.08E-04
2063	565736.7	4222110	0.00303	0.004007	1.44E-03	1.61E-03	4.39E-03	1.44E-03	3.98E-04	7.83E-04	4.70E-04	3.08E-04	4.36E-04	2.14E-04
2064	565740.4	4222118	0.003125	0.004132	1.48E-03	1.66E-03	4.53E-03	1.48E-03	4.10E-04	8.07E-04	4.84E-04	3.18E-04	4.49E-04	2.21E-04
2065	565744	4222127	0.003218	0.004256	1.52E-03	1.71E-03	4.67E-03	1.52E-03	4.23E-04	8.31E-04	4.99E-04	3.27E-04	4.63E-04	2.28E-04
2066	565747.7	4222136	0.00331	0.004378	1.57E-03	1.76E-03	4.80E-03	1.57E-03	4.35E-04	8.55E-04	5.13E-04	3.36E-04	4.76E-04	2.34E-04
2067	565751.3	4222145	0.003401	0.004497	1.61E-03	1.80E-03	4.93E-03	1.61E-03	4.47E-04	8.79E-04	5.27E-04	3.46E-04	4.89E-04	2.40E-04
2068	565755	4222153	0.003487	0.004612	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.01E-04	5.41E-04	3.54E-04	5.02E-04	2.47E-04
2069	565758.7	4222162	0.003571	0.004722	1.69E-03	1.89E-03	5.18E-03	1.69E-03	4.69E-04	9.22E-04	5.54E-04	3.63E-04	5.14E-04	2.53E-04
2070	565762.3	4222171	0.00365	0.004827	1.73E-03	1.94E-03	5.29E-03	1.73E-03	4.79E-04	9.43E-04	5.66E-04	3.71E-04	5.25E-04	2.58E-04
2071	565766	4222180	0.003726	0.004927	1.77E-03	1.98E-03	5.40E-03	1.77E-03	4.89E-04	9.62E-04	5.78E-04	3.79E-04	5.36E-04	2.63E-04
2072	565769.6	4222188	0.003797	0.005022	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.99E-04	9.81E-04	5.89E-04	3.86E-04	5.46E-04	2.69E-04
2073	565773.3	4222197	0.003864	0.00511	1.83E-03	2.05E-03	5.60E-03	1.83E-03	5.07E-04	9.98E-04	5.99E-04	3.93E-04	5.56E-04	2.73E-04
2074	565776.9	4222206	0.003925	0.005191	1.86E-03	2.08E-03	5.69E-03	1.86E-03	5.16E-04	1.01E-03	6.09E-04	3.99E-04	5.65E-04	2.78E-04
2075	565780.6	4222215	0.003982	0.005266	1.89E-03	2.11E-03	5.77E-03	1.89E-03	5.23E-04	1.03E-03	6.17E-04	4.05E-04	5.73E-04	2.82E-04
2076	565784.2	4222223	0.004033	0.005333	1.91E-03	2.14E-03	5.85E-03	1.91E-03	5.30E-04	1.04E-03	6.25E-04	4.10E-04	5.80E-04	2.85E-04
2077	565714.6	4222033	0.002208	0.00292	1.05E-03	1.17E-03	3.20E-03	1.05E-03	2.90E-04	5.70E-04	3.42E-04	2.24E-04	3.18E-04	1.56E-04
2078	565718.4	4222042	0.002292	0.003031	1.09E-03	1.22E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
2079	565722.1	4222051	0.002377	0.003144	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.12E-04	6.14E-04	3.68E-04	2.42E-04	3.42E-04	1.68E-04
2080	565725.9	4222060	0.002464	0.003259	1.17E-03	1.31E-03	3.57E-03	1.17E-03	3.24E-04	6.37E-04	3.82E-04	2.50E-04	3.54E-04	1.74E-04
2081	565733.5	4222078	0.002643	0.003496	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.83E-04	4.10E-04	2.69E-04	3.80E-04	1.87E-04
2082	565737.2	4222087	0.002735	0.003618	1.30E-03	1.45E-03	3.97E-03	1.30E-03	3.59E-04	7.07E-04	4.24E-04	2.78E-04	3.93E-04	1.93E-04
2083	565741	4222096	0.002828	0.00374	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.71E-04	7.31E-04	4.38E-04	2.87E-04	4.07E-04	2.00E-04
2084	565744.8	4222105	0.00292	0.003862	1.38E-03	1.55E-03	4.23E-03	1.38E-03	3.83E-04	7.54E-04	4.53E-04	2.97E-04	4.20E-04	2.07E-04
2085	565756.1	4222132	0.003192	0.004221	1.51E-03	1.69E-03	4.63E-03	1.51E-03	4.19E-04	8.25E-04	4.95E-04	3.24E-04	4.59E-04	2.26E-04
2086	565759.9	4222142	0.003279	0.004336	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.31E-04	8.47E-04	5.08E-04	3.33E-04	4.72E-04	2.32E-04
2087	565763.7	4222151	0.003363	0.004447	1.59E-03	1.78E-03	4.88E-03	1.59E-03	4.42E-04	8.69E-04	5.21E-04	3.42E-04	4.84E-04	2.38E-04
2088	565767.5	4222160	0.003444	0.004554	1.63E-03	1.83E-03	4.99E-03	1.63E-03	4.52E-04	8.90E-04	5.34E-04	3.50E-04	4.95E-04	2.44E-04
2089	565771.3	4222169	0.003521	0.004656	1.67E-03	1.87E-03	5.10E-03	1.67E-03	4.62E-04	9.10E-04	5.46E-04	3.58E-04	5.06E-04	2.49E-04
2090	565775	4222178	0.003594	0.004753	1.70E-03	1.91E-03	5.21E-03	1.70E-03	4.72E-04	9.29E-04	5.57E-04	3.65E-04	5.17E-04	2.54E-04

2091	565778.8	4222187	0.003663	0.004844	1.74E-03	1.94E-03	5.31E-03	1.74E-03	4.81E-04	9.46E-04	5.68E-04	3.72E-04	5.27E-04	2.59E-04
2092	565782.6	4222196	0.003727	0.004929	1.77E-03	1.98E-03	5.40E-03	1.77E-03	4.89E-04	9.63E-04	5.78E-04	3.79E-04	5.36E-04	2.64E-04
2093	565786.4	4222205	0.003786	0.005007	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.78E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
2094	565790.2	4222214	0.00384	0.005078	1.82E-03	2.04E-03	5.57E-03	1.82E-03	5.04E-04	9.92E-04	5.95E-04	3.90E-04	5.52E-04	2.72E-04
2095	565793.9	4222223	0.003888	0.005142	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.00E-03	6.03E-04	3.95E-04	5.59E-04	2.75E-04
2096	565721.5	4222026	0.002119	0.002803	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.29E-04	2.15E-04	3.05E-04	1.50E-04
2097	565725.2	4222035	0.002198	0.002906	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.23E-04	3.16E-04	1.55E-04
2098	565729	4222044	0.002277	0.003011	1.08E-03	1.21E-03	3.30E-03	1.08E-03	2.99E-04	5.88E-04	3.53E-04	2.31E-04	3.28E-04	1.61E-04
2099	565732.7	4222053	0.002358	0.003119	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.09E-04	3.66E-04	2.40E-04	3.39E-04	1.67E-04
2100	565736.4	4222062	0.00244	0.003228	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.20E-04	6.30E-04	3.78E-04	2.48E-04	3.51E-04	1.73E-04
2101	565773.9	4222151	0.003276	0.004332	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
2102	565777.6	4222160	0.00335	0.004431	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.66E-04	5.19E-04	3.40E-04	4.82E-04	2.37E-04
2103	565781.4	4222169	0.003421	0.004524	1.62E-03	1.81E-03	4.96E-03	1.62E-03	4.49E-04	8.84E-04	5.30E-04	3.48E-04	4.92E-04	2.42E-04
2104	565785.1	4222178	0.003487	0.004612	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.01E-04	5.41E-04	3.54E-04	5.02E-04	2.47E-04
2105	565788.8	4222187	0.00355	0.004695	1.68E-03	1.88E-03	5.15E-03	1.68E-03	4.66E-04	9.17E-04	5.50E-04	3.61E-04	5.11E-04	2.51E-04
2106	565792.6	4222196	0.003608	0.004771	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.74E-04	9.32E-04	5.59E-04	3.67E-04	5.19E-04	2.55E-04
2107	565796.3	4222205	0.00366	0.004841	1.73E-03	1.94E-03	5.31E-03	1.73E-03	4.81E-04	9.46E-04	5.67E-04	3.72E-04	5.27E-04	2.59E-04
2108	565800.1	4222214	0.003708	0.004904	1.76E-03	1.97E-03	5.38E-03	1.76E-03	4.87E-04	9.58E-04	5.75E-04	3.77E-04	5.33E-04	2.62E-04
2109	565803.8	4222223	0.003751	0.00496	1.78E-03	1.99E-03	5.44E-03	1.78E-03	4.93E-04	9.69E-04	5.81E-04	3.81E-04	5.39E-04	2.65E-04
2110	565742.9	4222029	0.002094	0.002769	9.92E-04	1.11E-03	3.04E-03	9.92E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
2111	565746.6	4222038	0.002165	0.002863	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.84E-04	5.59E-04	3.36E-04	2.20E-04	3.11E-04	1.53E-04
2112	565750.3	4222047	0.002237	0.002958	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
2113	565753.9	4222056	0.00231	0.003055	1.09E-03	1.22E-03	3.35E-03	1.09E-03	3.03E-04	5.97E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
2114	565765	4222082	0.002535	0.003352	1.20E-03	1.34E-03	3.68E-03	1.20E-03	3.33E-04	6.55E-04	3.93E-04	2.58E-04	3.65E-04	1.79E-04
2115	565768.7	4222091	0.00261	0.003451	1.24E-03	1.38E-03	3.78E-03	1.24E-03	3.43E-04	6.74E-04	4.05E-04	2.65E-04	3.75E-04	1.85E-04
2116	565772.3	4222100	0.002684	0.00355	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.53E-04	6.93E-04	4.16E-04	2.73E-04	3.86E-04	1.90E-04
2117	565776	4222109	0.002758	0.003647	1.31E-03	1.46E-03	4.00E-03	1.31E-03	3.62E-04	7.12E-04	4.28E-04	2.80E-04	3.97E-04	1.95E-04
2118	565779.7	4222117	0.00283	0.003743	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.72E-04	7.31E-04	4.39E-04	2.88E-04	4.07E-04	2.00E-04
2119	565783.4	4222126	0.002901	0.003836	1.37E-03	1.54E-03	4.21E-03	1.37E-03	3.81E-04	7.49E-04	4.50E-04	2.95E-04	4.17E-04	2.05E-04
2120	565787.1	4222135	0.002971	0.003929	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.90E-04	7.68E-04	4.61E-04	3.02E-04	4.27E-04	2.10E-04
2121	565790.7	4222144	0.003039	0.004019	1.44E-03	1.61E-03	4.41E-03	1.44E-03	3.99E-04	7.85E-04	4.71E-04	3.09E-04	4.37E-04	2.15E-04
2122	565809.2	4222188	0.00333	0.004404	1.58E-03	1.77E-03	4.83E-03	1.58E-03	4.37E-04	8.60E-04	5.16E-04	3.38E-04	4.79E-04	2.35E-04
2123	565812.8	4222197	0.003377	0.004466	1.60E-03	1.79E-03	4.90E-03	1.60E-03	4.43E-04	8.72E-04	5.24E-04	3.43E-04	4.86E-04	2.39E-04
2124	565816.5	4222206	0.00342	0.004523	1.62E-03	1.81E-03	4.96E-03	1.62E-03	4.49E-04	8.83E-04	5.30E-04	3.48E-04	4.92E-04	2.42E-04
2125	565820.2	4222214	0.003459	0.004574	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.94E-04	5.36E-04	3.51E-04	4.98E-04	2.45E-04
2126	565823.9	4222223	0.003529	0.004667	1.67E-03	1.87E-03	5.12E-03	1.67E-03	4.63E-04	9.12E-04	5.47E-04	3.59E-04	5.08E-04	2.50E-04
2127	565761	4222024	0.002005	0.002652	9.50E-04	1.06E-03	2.91E-03	9.50E-04	2.63E-04	5.18E-04	3.11E-04	2.04E-04	2.88E-04	1.42E-04
2128	565764.8	4222034	0.002071	0.002738	9.81E-04	1.10E-03	3.00E-03	9.81E-04	2.72E-04	5.35E-04	3.21E-04	2.10E-04	2.98E-04	1.46E-04
2129	565768.5	4222043	0.002137	0.002827	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.52E-04	3.31E-04	2.17E-04	3.07E-04	1.51E-04
2130	565772.3	4222052	0.002205	0.002916	1.04E-03	1.17E-03	3.20E-03	1.04E-03	2.90E-04	5.70E-04	3.42E-04	2.24E-04	3.17E-04	1.56E-04
2131	565776.1	4222061	0.002273	0.003006	1.08E-03	1.21E-03	3.30E-03	1.08E-03	2.99E-04	5.87E-04	3.52E-04	2.31E-04	3.27E-04	1.61E-04
2132	565783.6	4222079	0.00241	0.003187	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.70E-04
2133	565787.3	4222088	0.002478	0.003277	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.40E-04	3.84E-04	2.52E-04	3.56E-04	1.75E-04
2134	565791.1	4222097	0.002545	0.003366	1.21E-03	1.35E-03	3.69E-03	1.21E-03	3.34E-04	6.58E-04	3.95E-04	2.59E-04	3.66E-04	1.80E-04
2135	565794.9	4222106	0.002571	0.003401	1.22E-03	1.36E-03	3.73E-03	1.22E-03	3.38E-04	6.64E-04	3.99E-04	2.61E-04	3.70E-04	1.82E-04
2136	565798.6	4222115	0.002642	0.003493	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.82E-04	4.09E-04	2.68E-04	3.80E-04	1.87E-04
2137	565802.4	4222124	0.002709	0.003582	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
2138	565806.2	4222133	0.002779	0.003675	1.32E-03	1.47E-03	4.03E-03	1.32E-03	3.65E-04	7.18E-04	4.31E-04	2.82E-04	4.00E-04	1.97E-04
2139	565809.9	4222142	0.002848	0.003766	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.36E-04	4.41E-04	2.89E-04	4.10E-04	2.01E-04
2140	565813.7	4222151	0.002922	0.003864	1.38E-03	1.55E-03	4.24E-03	1.38E-03	3.84E-04	7.55E-04	4.53E-04	2.97E-04	4.20E-04	2.07E-04
2141	565817.5	4222160	0.002977	0.003937	1.41E-03	1.58E-03	4.32E-03	1.41E-03	3.91E-04	7.69E-04	4.62E-04	3.03E-04	4.28E-04	2.11E-04
2142	565821.2	4222169	0.003028	0.004005	1.43E-03	1.61E-03	4.39E-03	1.43E-03	3.98E-04	7.82E-04	4.69E-04	3.08E-04	4.36E-04	2.14E-04
2143	565825	4222178	0.003085	0.00408	1.46E-03	1.64E-03	4.47E-03	1.46E-03	4.05E-04	7.97E-04	4.78E-04	3.14E-04	4.44E-04	2.18E-04
2144	565843.8	4222223	0.003296	0.004359	1.56E-03	1.75E-03	4.78E-03	1.56E-03	4.33E-04	8.52E-04	5.11E-04	3.35E-04	4.74E-04	2.33E-04
2145	565782.3	4222028	0.001972	0.002608	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
2146	565786	4222036	0.002032	0.002687	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
2147	565789.7	4222045	0.002091	0.002766	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
2148	565793.4	4222054	0.002151	0.002845	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.83E-04	5.56E-04	3.33E-04	2.19E-04	3.09E-04	1.52E-04
2149	565800.8	4222072	0.002272	0.003004	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.87E-04	3.52E-04	2.31E-04	3.27E-04	1.61E-04
2150	565804.5	4222081	0.002332	0.003084	1.11E-03	1.24E-03	3.38E-03	1.11E-03	3.06E-04	6.03E-04	3.62E-04	2.37E-04	3.35E-04	1.65E-04
2151	565808.3	4222090	0.002392	0.003164	1.13E-03	1.27E-03	3.47E-03	1.13E-03	3.14E-04	6.18E-04	3.71E-04	2.43E-04	3.44E-04	1.69E-04
2152	565812	4222099	0.002415	0.003193	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.24E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
2153	565815.7	4222108	0.002474	0.003272	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.39E-04	3.84E-04	2.51E-04	3.56E-04	1.75E-04
2154	565819.4	4222116	0.002532	0.003349	1.20E-03	1.34E-03	3.67E-03	1.20E-03	3.33E-04	6.54E-04	3.93E-04	2.57E-04	3.64E-04	1.79E-04
2155	565823.1	4222125	0.002587	0.003421	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.68E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
2156	565826.8	4222134	0.002649	0.003504	1.26E-03	1.40E-03	3.84E-03	1.26E-03	3.48E-04	6.84E-04	4.11E-04	2.69E-04	3.81E-04	1.87E-04
2157	565830.5	4222143	0.002709	0.003583	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
2158	565834.2	4222152	0.002766	0.003658	1.31E-03	1.47E-03	4.01E-03	1.31E-03	3.63E-04	7.15E-04	4.29E-04	2.81E-04	3.98E-04	1.96E-04
2159	565837.9	4222161	0.002817	0.003726	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.70E-04	7.28E-04	4.37E-04	2.86E-04	4.05E-04	1.99E-04
2160	565841.6	4222170	0.002865	0.003789	1.36E-03	1.52E-03	4.15E-03	1.36E-03	3.76E-04	7.40E-04	4.44E-04	2.91E-04	4.12E-04	2.03E-04
2161	565845.3	4222179	0.00291	0.003849	1.38E-03	1.54E-03	4.22E-03	1.38E-03	3.82E-04	7.52E-04	4.51E-04	2.96E-04	4.19E-04	2.06E-04
2162	565849	4222188	0.002952	0.003904	1.40E-03	1.57E-03	4.28E-03	1.40E-03	3.88E-04	7.63E-04	4.58E-04	3.00E-04	4.25E-04	2.09E-04
2163	565852.7	4222196	0.002991	0.003955	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.73E-04	4.64E-04	3.04E-04	4.30E-04	2.11E-04
2164	565856.4	4222205	0.003027	0.004003	1.43E-03	1.60E-03	4.39E-03	1.43E-03	3.97E-04	7.82E-04	4.69E-04	3.08E-04	4.35E-04	2.14E-04
2165	565860.1	4222214	0.00306	0.004047	1.45E-03	1.62E-03	4.44E-03	1.45E-03	4.02E-04	7.91E-04	4.74E-04	3.11E-04	4.40E-04	2.16E-04
2166	565819.5	4222069	0.002168	0.002868	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
2167	565823.3	4222078	0.002224	0.002941	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
2168	565827.1	4222087	0.002242	0.002965	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
2169	565830.9	4222096	0.002299	0.00304	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.94E-04	3.56E-04	2.34E-04	3.31E-04	1.63E-04
2170	565834.6	4222105	0.002352	0.003111	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
2171	565838.4	4222114	0.002406	0.003181	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.21E-04	3.73E-04	2.44E-04	3.46E-04	1.70E-04
2172	565842.2	4222123	0.002458	0.003251	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.23E-04	6.35E-04	3.81E-04	2.50E-04	3.54E-04	1.74E-04
2173	565846	4222132	0.002512	0.003322	1.19E-03	1.33E-03	3.64E-03	1.19E-03	3.30E-04	6.49E-04	3.89E-04	2.55E-04	3.61E-04	1.78E-04
2174	565849.8	4222141	0.002564	0.003391	1.21E-03	1.36E-03	3.72E-03	1.21E-03	3.37E-04	6.62E-04	3.97E-04	2.61E-04	3.69E-04	1.81E-04
2175	565853.5	4222150	0.002612	0.003455	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.65E-04	3.76E-04	1.85E-04
2176	565857.3	4222159	0.002658	0.003515	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.49E-04	6.87E-04	4.12E-04	2.70E-04	3.82E-04	1.88E-04
2177	565861.1	4222169	0.0027	0.003571	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.55E-04	6.98E-04	4.19E-04	2.74E-04	3.88E-04	1.91E-04
2178	565864.9	4222178	0.00274	0.003624	1.30E-03	1.45E-03	3.97E-03	1.30E-03	3.60E-04	7.08E-04	4.25E-04	2.78E-04	3.94E-04	1.94E-04
2179	565868.7	4222187	0.002777	0.003673	1.32E-03	1.47E-03	4.03E-03	1.32E-03	3.65E-04	7.17E-04	4.31E-04	2.82E-04	3.99E-04	1.96E-04
2180	565872.4	4222196	0.002814	0.003721	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.70E-04	7.27E-04	4.36E-04	2.86E-04	4.05E-04	1.99E-04
2181	565876.2	4222205	0.002848	0.003766	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.36E-04	4.41E-04	2.89E-04	4.10E-04	2.01E-04

2182	565880	4222214	0.002879	0.003808	1.36E-03	1.53E-03	4.17E-03	1.36E-03	3.78E-04	7.44E-04	4.46E-04	2.93E-04	4.14E-04	2.04E-04
2183	565883.8	4222223	0.002906	0.003843	1.38E-03	1.54E-03	4.21E-03	1.38E-03	3.82E-04	7.51E-04	4.50E-04	2.95E-04	4.18E-04	2.05E-04
2184	565862.8	4222125	0.002354	0.003113	1.12E-03	1.25E-03	3.41E-03	1.12E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.39E-04	1.66E-04
2185	565866.6	4222134	0.002398	0.003171	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.20E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
2186	565870.3	4222143	0.002441	0.003228	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.78E-04	2.48E-04	3.51E-04	1.73E-04
2187	565874	4222151	0.002482	0.003282	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.41E-04	3.85E-04	2.52E-04	3.57E-04	1.76E-04
2188	565877.7	4222160	0.00252	0.003333	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
2189	565881.5	4222169	0.002556	0.003381	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.60E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
2190	565885.2	4222178	0.002591	0.003427	1.23E-03	1.37E-03	3.76E-03	1.23E-03	3.40E-04	6.69E-04	4.02E-04	2.63E-04	3.73E-04	1.83E-04
2191	565888.9	4222187	0.002624	0.003471	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.45E-04	6.78E-04	4.07E-04	2.67E-04	3.78E-04	1.86E-04
2192	565892.7	4222196	0.002657	0.003514	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.49E-04	6.86E-04	4.12E-04	2.70E-04	3.82E-04	1.88E-04
2193	565896.4	4222205	0.002686	0.003552	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.53E-04	6.94E-04	4.16E-04	2.73E-04	3.86E-04	1.90E-04
2194	565900.1	4222214	0.002711	0.003586	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.76E-04	3.90E-04	1.92E-04
2195	565903.8	4222223	0.002732	0.003613	1.29E-03	1.45E-03	3.96E-03	1.29E-03	3.59E-04	7.06E-04	4.24E-04	2.78E-04	3.93E-04	1.93E-04
2196	565897.2	4222159	0.00239	0.00316	1.13E-03	1.27E-03	3.46E-03	1.13E-03	3.14E-04	6.17E-04	3.70E-04	2.43E-04	3.44E-04	1.69E-04
2197	565901	4222168	0.002424	0.003205	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
2198	565904.8	4222177	0.002455	0.003247	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.22E-04	6.34E-04	3.81E-04	2.50E-04	3.53E-04	1.74E-04
2199	565908.6	4222186	0.002485	0.003286	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.42E-04	3.85E-04	2.52E-04	3.57E-04	1.76E-04
2200	565912.4	4222195	0.002511	0.003321	1.19E-03	1.33E-03	3.64E-03	1.19E-03	3.30E-04	6.49E-04	3.89E-04	2.55E-04	3.61E-04	1.78E-04
2201	565916.2	4222205	0.002535	0.003352	1.20E-03	1.34E-03	3.67E-03	1.20E-03	3.33E-04	6.55E-04	3.93E-04	2.58E-04	3.65E-04	1.79E-04
2202	565920	4222214	0.002555	0.003379	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.36E-04	6.60E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
2203	565923.8	4222223	0.002572	0.003402	1.22E-03	1.36E-03	3.73E-03	1.22E-03	3.38E-04	6.65E-04	3.99E-04	2.61E-04	3.70E-04	1.82E-04
2204	565932.6	4222196	0.002375	0.003141	1.13E-03	1.26E-03	3.44E-03	1.13E-03	3.12E-04	6.14E-04	3.68E-04	2.41E-04	3.42E-04	1.68E-04
2205	565936.3	4222205	0.002395	0.003167	1.13E-03	1.27E-03	3.47E-03	1.13E-03	3.14E-04	6.19E-04	3.71E-04	2.43E-04	3.44E-04	1.69E-04
2206	565940.1	4222214	0.002411	0.003189	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
2207	565943.8	4222223	0.002426	0.003208	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.47E-04	3.49E-04	1.72E-04
2208	565921.9	4222122	0.002043	0.002701	9.68E-04	1.08E-03	2.96E-03	9.68E-04	2.68E-04	5.28E-04	3.17E-04	2.08E-04	2.94E-04	1.44E-04
2209	565929.5	4222044	0.00161	0.002129	7.63E-04	8.54E-04	2.33E-03	7.63E-04	2.11E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
2210	565933.2	4222053	0.001641	0.00217	7.78E-04	8.70E-04	2.38E-03	7.78E-04	2.16E-04	4.24E-04	2.54E-04	1.67E-04	2.36E-04	1.16E-04
2211	565936.9	4222062	0.001671	0.00221	7.92E-04	8.86E-04	2.42E-03	7.92E-04	2.19E-04	4.32E-04	2.59E-04	1.70E-04	2.40E-04	1.18E-04
2212	565940.6	4222071	0.001701	0.002249	8.06E-04	9.02E-04	2.47E-03	8.06E-04	2.23E-04	4.39E-04	2.64E-04	1.73E-04	2.45E-04	1.20E-04
2213	565944.4	4222080	0.001732	0.00229	8.20E-04	9.18E-04	2.51E-03	8.20E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
2214	565944.6	4222033	0.00152	0.002011	7.20E-04	8.06E-04	2.20E-03	7.20E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
2215	565948.4	4222042	0.001549	0.002049	7.34E-04	8.21E-04	2.25E-03	7.34E-04	2.03E-04	4.00E-04	2.40E-04	1.57E-04	2.23E-04	1.10E-04
2216	565952.1	4222051	0.001577	0.002086	7.47E-04	8.36E-04	2.29E-03	7.47E-04	2.07E-04	4.07E-04	2.45E-04	1.60E-04	2.27E-04	1.12E-04
2217	565955.9	4222060	0.001606	0.002123	7.61E-04	8.51E-04	2.33E-03	7.61E-04	2.11E-04	4.15E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
2218	565959.7	4222069	0.001634	0.002161	7.74E-04	8.66E-04	2.37E-03	7.74E-04	2.15E-04	4.22E-04	2.53E-04	1.66E-04	2.35E-04	1.16E-04
2219	565963.4	4222078	0.001661	0.002197	7.87E-04	8.81E-04	2.41E-03	7.87E-04	2.18E-04	4.29E-04	2.58E-04	1.69E-04	2.39E-04	1.17E-04
2220	565967.2	4222087	0.001687	0.00223	7.99E-04	8.94E-04	2.44E-03	7.99E-04	2.21E-04	4.36E-04	2.61E-04	1.71E-04	2.43E-04	1.19E-04
2221	565971	4222096	0.00171	0.002261	8.10E-04	9.07E-04	2.48E-03	8.10E-04	2.25E-04	4.42E-04	2.65E-04	1.74E-04	2.46E-04	1.21E-04
2222	565974.8	4222105	0.001735	0.002295	8.22E-04	9.20E-04	2.52E-03	8.22E-04	2.28E-04	4.48E-04	2.69E-04	1.76E-04	2.50E-04	1.23E-04
2223	565978.5	4222114	0.001759	0.002327	8.33E-04	9.33E-04	2.55E-03	8.33E-04	2.31E-04	4.54E-04	2.73E-04	1.79E-04	2.53E-04	1.24E-04
2224	565982.3	4222123	0.001782	0.002357	8.44E-04	9.45E-04	2.58E-03	8.44E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
2225	566023.8	4222223	0.001944	0.002571	9.21E-04	1.03E-03	2.82E-03	9.21E-04	2.55E-04	5.02E-04	3.01E-04	1.98E-04	2.80E-04	1.37E-04
2226	565626.9	4221740	0.000735	0.000973	3.48E-04	3.90E-04	1.07E-03	3.48E-04	9.66E-05	1.90E-04	1.14E-04	7.47E-05	1.06E-04	5.20E-05
2227	565635.9	4221743	0.000744	0.000984	3.53E-04	3.95E-04	1.08E-03	3.53E-04	9.77E-05	1.92E-04	1.15E-04	7.56E-05	1.07E-04	5.26E-05
2228	565644.9	4221747	0.000753	0.000996	3.57E-04	3.99E-04	1.09E-03	3.57E-04	9.89E-05	1.95E-04	1.17E-04	7.65E-05	1.08E-04	5.33E-05
2229	565653.8	4221751	0.000762	0.001008	3.61E-04	4.04E-04	1.10E-03	3.61E-04	1.00E-04	1.97E-04	1.18E-04	7.75E-05	1.10E-04	5.39E-05
2230	565662.8	4221754	0.000771	0.00102	3.65E-04	4.09E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.20E-04	7.84E-05	1.11E-04	5.45E-05
2231	565958	4222017	0.001422	0.001881	6.74E-04	7.54E-04	2.06E-03	6.74E-04	1.87E-04	3.67E-04	2.20E-04	1.45E-04	2.05E-04	1.01E-04
2232	565961.7	4222026	0.001449	0.001917	6.87E-04	7.68E-04	2.10E-03	6.87E-04	1.90E-04	3.74E-04	2.25E-04	1.47E-04	2.08E-04	1.03E-04
2233	565965.4	4222035	0.001476	0.001951	6.99E-04	7.82E-04	2.14E-03	6.99E-04	1.94E-04	3.81E-04	2.29E-04	1.50E-04	2.12E-04	1.04E-04
2234	565969.2	4222044	0.001502	0.001987	7.12E-04	7.96E-04	2.18E-03	7.12E-04	1.97E-04	3.88E-04	2.33E-04	1.53E-04	2.16E-04	1.06E-04
2235	565972.9	4222053	0.00153	0.002023	7.25E-04	8.11E-04	2.22E-03	7.25E-04	2.01E-04	3.95E-04	2.37E-04	1.55E-04	2.20E-04	1.08E-04
2236	565976.6	4222061	0.001556	0.002058	7.37E-04	8.25E-04	2.26E-03	7.37E-04	2.04E-04	4.02E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
2237	565980.4	4222070	0.001581	0.00209	7.49E-04	8.38E-04	2.29E-03	7.49E-04	2.08E-04	4.08E-04	2.45E-04	1.61E-04	2.27E-04	1.12E-04
2238	565984.1	4222079	0.001602	0.002119	7.59E-04	8.50E-04	2.32E-03	7.59E-04	2.10E-04	4.14E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
2239	565987.8	4222088	0.001623	0.002146	7.69E-04	8.60E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.33E-04	1.15E-04
2240	565991.6	4222097	0.001643	0.002172	7.78E-04	8.71E-04	2.38E-03	7.78E-04	2.16E-04	4.24E-04	2.55E-04	1.67E-04	2.36E-04	1.16E-04
2241	565995.3	4222106	0.001665	0.002202	7.89E-04	8.83E-04	2.41E-03	7.89E-04	2.19E-04	4.30E-04	2.58E-04	1.69E-04	2.39E-04	1.18E-04
2242	565999	4222115	0.001686	0.00223	7.99E-04	8.94E-04	2.44E-03	7.99E-04	2.21E-04	4.36E-04	2.61E-04	1.71E-04	2.43E-04	1.19E-04
2243	566002.8	4222124	0.001706	0.002256	8.08E-04	9.05E-04	2.47E-03	8.08E-04	2.24E-04	4.41E-04	2.64E-04	1.73E-04	2.45E-04	1.21E-04
2244	566006.5	4222133	0.001725	0.002281	8.17E-04	9.14E-04	2.50E-03	8.17E-04	2.27E-04	4.46E-04	2.67E-04	1.75E-04	2.48E-04	1.22E-04
2245	566010.2	4222142	0.001742	0.002304	8.25E-04	9.24E-04	2.53E-03	8.25E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
2246	566014	4222151	0.001759	0.002326	8.33E-04	9.33E-04	2.55E-03	8.33E-04	2.31E-04	4.54E-04	2.73E-04	1.79E-04	2.53E-04	1.24E-04
2247	566017.7	4222160	0.001774	0.002346	8.40E-04	9.40E-04	2.57E-03	8.40E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
2248	566036.4	4222205	0.001827	0.002417	8.66E-04	9.69E-04	2.65E-03	8.66E-04	2.40E-04	4.72E-04	2.83E-04	1.86E-04	2.63E-04	1.29E-04
2249	566040.1	4222214	0.001832	0.002423	8.68E-04	9.72E-04	2.66E-03	8.68E-04	2.41E-04	4.73E-04	2.84E-04	1.86E-04	2.64E-04	1.30E-04
2250	566043.8	4222223	0.00184	0.002433	8.72E-04	9.75E-04	2.67E-03	8.72E-04	2.42E-04	4.75E-04	2.85E-04	1.87E-04	2.65E-04	1.30E-04
2251	565628.5	4221720	0.000695	0.00092	3.29E-04	3.69E-04	1.01E-03	3.29E-04	9.13E-05	1.80E-04	1.08E-04	7.07E-05	1.00E-04	4.92E-05
2252	565637.6	4221724	0.000704	0.000931	3.33E-04	3.73E-04	1.02E-03	3.33E-04	9.24E-05	1.82E-04	1.09E-04	7.15E-05	1.01E-04	4.98E-05
2253	565646.7	4221728	0.000712	0.000942	3.37E-04	3.77E-04	1.03E-03	3.37E-04	9.35E-05	1.84E-04	1.10E-04	7.24E-05	1.02E-04	5.04E-05
2254	565655.8	4221731	0.00072	0.000953	3.41E-04	3.82E-04	1.04E-03	3.41E-04	9.46E-05	1.86E-04	1.12E-04	7.32E-05	1.04E-04	5.09E-05
2255	565664.9	4221735	0.000728	0.000963	3.45E-04	3.86E-04	1.06E-03	3.45E-04	9.57E-05	1.88E-04	1.13E-04	7.40E-05	1.05E-04	5.15E-05
2256	565674	4221739	0.000737	0.000974	3.49E-04	3.91E-04	1.07E-03	3.49E-04	9.68E-05	1.90E-04	1.14E-04	7.49E-05	1.06E-04	5.21E-05
2257	565683.1	4221743	0.000745	0.000985	3.53E-04	3.95E-04	1.08E-03	3.53E-04	9.78E-05	1.92E-04	1.15E-04	7.57E-05	1.07E-04	5.27E-05
2258	565692.2	4221746	0.000753	0.000996	3.57E-04	3.99E-04	1.09E-03	3.57E-04	9.89E-05	1.95E-04	1.17E-04	7.66E-05	1.08E-04	5.33E-05
2259	565701.2	4221750	0.000762	0.001007	3.61E-04	4.04E-04	1.10E-03	3.61E-04	1.00E-04	1.97E-04	1.18E-04	7.74E-05	1.10E-04	5.39E-05
2260	565710.3	4221754	0.00077	0.001018	3.65E-04	4.08E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.19E-04	7.82E-05	1.11E-04	5.44E-05
2261	565719.4	4221758	0.000778	0.001029	3.69E-04	4.13E-04	1.13E-03	3.69E-04	1.02E-04	2.01E-04	1.21E-04	7.91E-05	1.12E-04	5.50E-05
2262	565728.5	4221761	0.000786	0.00104	3.72E-04	4.17E-04	1.14E-03	3.72E-04	1.03E-04	2.03E-04	1.22E-04	7.99E-05	1.13E-04	5.56E-05
2263	565973	4222005	0.001348	0.001783	6.39E-04	7.15E-04	1.95E-03	6.39E-04	1.77E-04	3.48E-04	2.09E-04	1.37E-04	1.94E-04	9.53E-05
2264	565976.8	4222014	0.001373	0.001816	6.50E-04	7.28E-04	1.99E-03	6.50E-04	1.80E-04	3.55E-04	2.13E-04	1.40E-04	1.97E-04	9.71E-05
2265	565980.6	4222023	0.001397	0.001848	6.62E-04	7.41E-04	2.03E-03	6.62E-04	1.83E-04	3.61E-04	2.17E-04	1.42E-04	2.01E-04	9.88E-05
2266	565984.4	4222032	0.001422	0.001881	6.74E-04	7.54E-04	2.06E-03	6.74E-04	1.87E-04	3.67E-04	2.20E-04	1.45E-04	2.05E-04	1.01E-04
2267	565988.1	4222041	0.001447	0.001914	6.86E-04	7.67E-04	2.10E-03	6.86E-04	1.90E-04	3.74E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
2268	565991.9	4222050	0.001472	0.001946	6.97E-04	7.80E-04	2.13E-03	6.97E-04	1.93E-04	3.80E-04	2.28E-04	1.50E-04	2.12E-04	1.04E-04
2269	565995.7	4222059	0.001495	0.001977	7.08E-04	7.92E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
2270	565999.5	4222068	0.001516	0.002005	7.18E-04	8.04E-04	2.20E-03	7.18E-04	1.99E-04	3.92E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
2271	566003.3	4222077	0.001536	0.002031	7.28E-04	8.14E-04	2.23E-03	7.28E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
2272	566007.1	4222086	0.001556	0.002057	7.37E-04	8.25E-04	2.26E-03	7.37E-04	2.04E-04	4.02E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04

2273	566010.8	4222095	0.001575	0.002082	7.46E-04	8.35E-04	2.28E-03	7.46E-04	2.07E-04	4.07E-04	2.44E-04	1.60E-04	2.27E-04	1.11E-04
2274	566014.6	4222105	0.001595	0.002109	7.56E-04	8.46E-04	2.31E-03	7.56E-04	2.09E-04	4.12E-04	2.47E-04	1.62E-04	2.29E-04	1.13E-04
2275	566018.4	4222114	0.001613	0.002134	7.64E-04	8.55E-04	2.34E-03	7.64E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
2276	566022.2	4222123	0.00163	0.002155	7.72E-04	8.64E-04	2.36E-03	7.72E-04	2.14E-04	4.21E-04	2.53E-04	1.66E-04	2.34E-04	1.15E-04
2277	566026	4222132	0.001646	0.002176	7.80E-04	8.72E-04	2.39E-03	7.80E-04	2.16E-04	4.25E-04	2.55E-04	1.67E-04	2.37E-04	1.16E-04
2278	566029.7	4222141	0.001661	0.002197	7.87E-04	8.81E-04	2.41E-03	7.87E-04	2.18E-04	4.29E-04	2.58E-04	1.69E-04	2.39E-04	1.17E-04
2279	566033.5	4222150	0.001676	0.002217	7.94E-04	8.89E-04	2.43E-03	7.94E-04	2.20E-04	4.33E-04	2.60E-04	1.70E-04	2.41E-04	1.19E-04
2280	566037.3	4222159	0.001689	0.002234	8.00E-04	8.96E-04	2.45E-03	8.00E-04	2.22E-04	4.36E-04	2.62E-04	1.72E-04	2.43E-04	1.19E-04
2281	566041.1	4222168	0.0017	0.002248	8.05E-04	9.01E-04	2.46E-03	8.05E-04	2.23E-04	4.39E-04	2.64E-04	1.73E-04	2.45E-04	1.20E-04
2282	566052.4	4222195	0.00172	0.002274	8.15E-04	9.12E-04	2.49E-03	8.15E-04	2.26E-04	4.44E-04	2.67E-04	1.75E-04	2.47E-04	1.22E-04
2283	565627.3	4221700	0.000657	0.000868	3.11E-04	3.48E-04	9.52E-04	3.11E-04	8.62E-05	1.70E-04	1.02E-04	6.67E-05	9.45E-05	4.64E-05
2284	565636.3	4221703	0.000664	0.000878	3.15E-04	3.52E-04	9.63E-04	3.15E-04	8.72E-05	1.72E-04	1.03E-04	6.75E-05	9.55E-05	4.70E-05
2285	565645.3	4221707	0.000672	0.000888	3.18E-04	3.56E-04	9.74E-04	3.18E-04	8.82E-05	1.74E-04	1.04E-04	6.83E-05	9.66E-05	4.75E-05
2286	565654.3	4221711	0.000679	0.000898	3.22E-04	3.60E-04	9.85E-04	3.22E-04	8.92E-05	1.75E-04	1.05E-04	6.90E-05	9.77E-05	4.80E-05
2287	565663.3	4221715	0.000687	0.000908	3.25E-04	3.64E-04	9.96E-04	3.25E-04	9.02E-05	1.77E-04	1.06E-04	6.98E-05	9.88E-05	4.86E-05
2288	565672.3	4221718	0.000694	0.000918	3.29E-04	3.68E-04	1.01E-03	3.29E-04	9.12E-05	1.79E-04	1.08E-04	7.06E-05	9.99E-05	4.91E-05
2289	565681.3	4221722	0.000702	0.000928	3.33E-04	3.72E-04	1.02E-03	3.33E-04	9.22E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.96E-05
2290	565690.3	4221726	0.000709	0.000938	3.36E-04	3.76E-04	1.03E-03	3.36E-04	9.32E-05	1.83E-04	1.10E-04	7.21E-05	1.02E-04	5.02E-05
2291	565699.3	4221729	0.000717	0.000948	3.40E-04	3.80E-04	1.04E-03	3.40E-04	9.41E-05	1.85E-04	1.11E-04	7.28E-05	1.03E-04	5.07E-05
2292	565708.3	4221733	0.000724	0.000958	3.43E-04	3.84E-04	1.05E-03	3.43E-04	9.51E-05	1.87E-04	1.12E-04	7.36E-05	1.04E-04	5.12E-05
2293	565717.3	4221737	0.000732	0.000968	3.47E-04	3.88E-04	1.06E-03	3.47E-04	9.61E-05	1.89E-04	1.13E-04	7.44E-05	1.05E-04	5.18E-05
2294	565726.3	4221740	0.00074	0.000978	3.50E-04	3.92E-04	1.07E-03	3.50E-04	9.71E-05	1.91E-04	1.15E-04	7.52E-05	1.06E-04	5.23E-05
2295	565753.3	4221752	0.000762	0.001008	3.61E-04	4.04E-04	1.10E-03	3.61E-04	1.00E-04	1.97E-04	1.18E-04	7.74E-05	1.10E-04	5.39E-05
2296	565762.3	4221755	0.000769	0.001017	3.64E-04	4.08E-04	1.12E-03	3.64E-04	1.01E-04	1.99E-04	1.19E-04	7.82E-05	1.11E-04	5.44E-05
2297	565771.3	4221759	0.000776	0.001027	3.68E-04	4.12E-04	1.13E-03	3.68E-04	1.02E-04	2.01E-04	1.20E-04	7.89E-05	1.12E-04	5.49E-05
2298	565780.3	4221763	0.000784	0.001036	3.71E-04	4.15E-04	1.14E-03	3.71E-04	1.03E-04	2.02E-04	1.21E-04	7.96E-05	1.13E-04	5.54E-05
2299	565789.3	4221766	0.000791	0.001046	3.75E-04	4.19E-04	1.15E-03	3.75E-04	1.04E-04	2.04E-04	1.23E-04	8.03E-05	1.14E-04	5.59E-05
2300	565798.3	4221770	0.000797	0.001055	3.78E-04	4.23E-04	1.16E-03	3.78E-04	1.05E-04	2.06E-04	1.24E-04	8.10E-05	1.15E-04	5.64E-05
2301	565807.3	4221774	0.000804	0.001064	3.81E-04	4.26E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.17E-05	1.16E-04	5.69E-05
2302	565986.4	4221989	0.001266	0.001674	6.00E-04	6.71E-04	1.84E-03	6.00E-04	1.66E-04	3.27E-04	1.96E-04	1.29E-04	1.82E-04	8.95E-05
2303	565990.2	4221998	0.00129	0.001705	6.11E-04	6.84E-04	1.87E-03	6.11E-04	1.69E-04	3.33E-04	2.00E-04	1.31E-04	1.85E-04	9.12E-05
2304	565993.9	4222007	0.001313	0.001736	6.22E-04	6.96E-04	1.90E-03	6.22E-04	1.72E-04	3.39E-04	2.03E-04	1.33E-04	1.89E-04	9.28E-05
2305	565997.7	4222016	0.001336	0.001767	6.33E-04	7.08E-04	1.94E-03	6.33E-04	1.75E-04	3.45E-04	2.07E-04	1.36E-04	1.92E-04	9.45E-05
2306	566001.4	4222025	0.00136	0.001799	6.44E-04	7.21E-04	1.97E-03	6.44E-04	1.79E-04	3.51E-04	2.11E-04	1.38E-04	1.96E-04	9.62E-05
2307	566005.2	4222034	0.001384	0.001831	6.56E-04	7.34E-04	2.01E-03	6.56E-04	1.82E-04	3.58E-04	2.15E-04	1.41E-04	1.99E-04	9.79E-05
2308	566008.9	4222043	0.001406	0.001859	6.66E-04	7.45E-04	2.04E-03	6.66E-04	1.85E-04	3.63E-04	2.18E-04	1.43E-04	2.02E-04	9.94E-05
2309	566012.7	4222052	0.001427	0.001887	6.76E-04	7.56E-04	2.07E-03	6.76E-04	1.87E-04	3.69E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
2310	566016.4	4222061	0.001448	0.001915	6.86E-04	7.68E-04	2.10E-03	6.86E-04	1.90E-04	3.74E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
2311	566020.1	4222070	0.001468	0.001941	6.95E-04	7.78E-04	2.13E-03	6.95E-04	1.93E-04	3.79E-04	2.28E-04	1.49E-04	2.11E-04	1.04E-04
2312	566023.9	4222079	0.001487	0.001966	7.04E-04	7.88E-04	2.16E-03	7.04E-04	1.95E-04	3.84E-04	2.30E-04	1.51E-04	2.14E-04	1.05E-04
2313	566027.6	4222088	0.001505	0.00199	7.13E-04	7.98E-04	2.18E-03	7.13E-04	1.98E-04	3.89E-04	2.33E-04	1.53E-04	2.16E-04	1.06E-04
2314	566031.4	4222097	0.001522	0.002012	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
2315	566035.1	4222106	0.001537	0.002033	7.28E-04	8.15E-04	2.23E-03	7.28E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
2316	566038.9	4222115	0.001551	0.002051	7.35E-04	8.22E-04	2.25E-03	7.35E-04	2.04E-04	4.01E-04	2.40E-04	1.58E-04	2.23E-04	1.10E-04
2317	566042.6	4222124	0.001562	0.002065	7.40E-04	8.28E-04	2.26E-03	7.40E-04	2.05E-04	4.03E-04	2.42E-04	1.59E-04	2.25E-04	1.10E-04
2318	566046.4	4222133	0.001575	0.002083	7.46E-04	8.35E-04	2.28E-03	7.46E-04	2.07E-04	4.07E-04	2.44E-04	1.60E-04	2.27E-04	1.11E-04
2319	566050.1	4222142	0.001588	0.002101	7.53E-04	8.42E-04	2.30E-03	7.53E-04	2.09E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
2320	566053.9	4222151	0.001601	0.002117	7.58E-04	8.49E-04	2.32E-03	7.58E-04	2.10E-04	4.14E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
2321	566065.1	4222178	0.001618	0.00214	7.67E-04	8.58E-04	2.35E-03	7.67E-04	2.12E-04	4.18E-04	2.51E-04	1.64E-04	2.33E-04	1.14E-04
2322	566068.8	4222187	0.001616	0.002137	7.65E-04	8.57E-04	2.34E-03	7.65E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
2323	566072.6	4222196	0.001619	0.002141	7.67E-04	8.58E-04	2.35E-03	7.67E-04	2.13E-04	4.18E-04	2.51E-04	1.65E-04	2.33E-04	1.14E-04
2324	566076.3	4222205	0.001623	0.002146	7.69E-04	8.60E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.33E-04	1.15E-04
2325	566080.1	4222214	0.001627	0.002152	7.71E-04	8.63E-04	2.36E-03	7.71E-04	2.14E-04	4.20E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
2326	566083.8	4222222	0.001633	0.00216	7.74E-04	8.66E-04	2.37E-03	7.74E-04	2.14E-04	4.22E-04	2.53E-04	1.66E-04	2.35E-04	1.16E-04
2327	565510.3	4221632	0.000531	0.000702	2.52E-04	2.82E-04	7.70E-04	2.52E-04	6.97E-05	1.37E-04	8.23E-05	5.40E-05	7.64E-05	3.76E-05
2328	565519.5	4221635	0.000538	0.000711	2.55E-04	2.85E-04	7.80E-04	2.55E-04	7.06E-05	1.39E-04	8.34E-05	5.47E-05	7.74E-05	3.80E-05
2329	565628.8	4221680	0.000623	0.000824	2.95E-04	3.30E-04	9.03E-04	2.95E-04	8.18E-05	1.61E-04	9.66E-05	6.33E-05	8.96E-05	4.41E-05
2330	565637.9	4221684	0.00063	0.000834	2.99E-04	3.34E-04	9.14E-04	2.99E-04	8.28E-05	1.63E-04	9.77E-05	6.41E-05	9.07E-05	4.46E-05
2331	565647	4221688	0.000637	0.000843	3.02E-04	3.38E-04	9.24E-04	3.02E-04	8.37E-05	1.65E-04	9.88E-05	6.48E-05	9.17E-05	4.51E-05
2332	565656.1	4221692	0.000645	0.000852	3.05E-04	3.42E-04	9.34E-04	3.05E-04	8.46E-05	1.67E-04	9.99E-05	6.55E-05	9.27E-05	4.56E-05
2333	565665.2	4221695	0.000652	0.000862	3.09E-04	3.45E-04	9.45E-04	3.09E-04	8.56E-05	1.68E-04	1.01E-04	6.62E-05	9.37E-05	4.61E-05
2334	565674.3	4221699	0.000659	0.000871	3.12E-04	3.49E-04	9.55E-04	3.12E-04	8.65E-05	1.70E-04	1.02E-04	6.69E-05	9.47E-05	4.66E-05
2335	565683.4	4221703	0.000666	0.00088	3.15E-04	3.53E-04	9.65E-04	3.15E-04	8.74E-05	1.72E-04	1.03E-04	6.77E-05	9.58E-05	4.71E-05
2336	565692.5	4221707	0.000673	0.00089	3.19E-04	3.57E-04	9.75E-04	3.19E-04	8.83E-05	1.74E-04	1.04E-04	6.84E-05	9.68E-05	4.76E-05
2337	565701.6	4221710	0.00068	0.000899	3.22E-04	3.60E-04	9.85E-04	3.22E-04	8.93E-05	1.76E-04	1.05E-04	6.91E-05	9.78E-05	4.81E-05
2338	565710.7	4221714	0.000687	0.000908	3.25E-04	3.64E-04	9.96E-04	3.25E-04	9.02E-05	1.77E-04	1.06E-04	6.98E-05	9.88E-05	4.86E-05
2339	565719.9	4221718	0.000694	0.000918	3.29E-04	3.68E-04	1.01E-03	3.29E-04	9.11E-05	1.79E-04	1.08E-04	7.05E-05	9.98E-05	4.91E-05
2340	565729	4221722	0.000701	0.000927	3.32E-04	3.72E-04	1.02E-03	3.32E-04	9.21E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.96E-05
2341	565756.3	4221733	0.000722	0.000955	3.42E-04	3.83E-04	1.05E-03	3.42E-04	9.48E-05	1.87E-04	1.12E-04	7.34E-05	1.04E-04	5.11E-05
2342	565765.4	4221737	0.000729	0.000964	3.45E-04	3.86E-04	1.06E-03	3.45E-04	9.57E-05	1.88E-04	1.13E-04	7.41E-05	1.05E-04	5.15E-05
2343	565774.5	4221740	0.000736	0.000973	3.49E-04	3.90E-04	1.07E-03	3.49E-04	9.66E-05	1.90E-04	1.14E-04	7.48E-05	1.06E-04	5.20E-05
2344	565783.6	4221744	0.000742	0.000982	3.52E-04	3.94E-04	1.08E-03	3.52E-04	9.75E-05	1.92E-04	1.15E-04	7.55E-05	1.07E-04	5.25E-05
2345	565792.7	4221748	0.000749	0.000991	3.55E-04	3.97E-04	1.09E-03	3.55E-04	9.84E-05	1.94E-04	1.16E-04	7.61E-05	1.08E-04	5.30E-05
2346	565801.8	4221752	0.000756	0.000999	3.58E-04	4.01E-04	1.10E-03	3.58E-04	9.93E-05	1.95E-04	1.17E-04	7.68E-05	1.09E-04	5.34E-05
2347	565811	4221755	0.000762	0.001008	3.61E-04	4.04E-04	1.11E-03	3.61E-04	1.00E-04	1.97E-04	1.18E-04	7.75E-05	1.10E-04	5.39E-05
2348	565820.1	4221759	0.000769	0.001017	3.64E-04	4.08E-04	1.11E-03	3.64E-04	1.01E-04	1.99E-04	1.19E-04	7.81E-05	1.11E-04	5.44E-05
2349	565829.2	4221763	0.000775	0.001025	3.67E-04	4.11E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.87E-05	1.11E-04	5.48E-05
2350	565838.3	4221767	0.000781	0.001033	3.70E-04	4.14E-04	1.13E-03	3.70E-04	1.03E-04	2.02E-04	1.21E-04	7.94E-05	1.12E-04	5.52E-05
2351	565847.4	4221770	0.000787	0.001041	3.73E-04	4.17E-04	1.14E-03	3.73E-04	1.03E-04	2.03E-04	1.22E-04	8.00E-05	1.13E-04	5.57E-05
2352	565997.6	4221968	0.00118	0.00156	5.59E-04	6.25E-04	1.71E-03	5.59E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.34E-05
2353	566001.4	4221977	0.001203	0.001591	5.70E-04	6.38E-04	1.74E-03	5.70E-04	1.58E-04	3.11E-04	1.87E-04	1.22E-04	1.73E-04	8.51E-05
2354	566005.2	4221986	0.001225	0.00162	5.80E-04	6.49E-04	1.78E-03	5.80E-04	1.61E-04	3.16E-04	1.90E-04	1.24E-04	1.76E-04	8.66E-05
2355	566009	4221995	0.001246	0.001648	5.90E-04	6.61E-04	1.81E-03	5.90E-04	1.64E-04	3.22E-04	1.93E-04	1.27E-04	1.79E-04	8.81E-05
2356	566012.8	4222004	0.001268	0.001677	6.01E-04	6.72E-04	1.84E-03	6.01E-04	1.67E-04	3.28E-04	1.97E-04	1.29E-04	1.82E-04	8.97E-05
2357	566016.6	4222013	0.00129	0.001707	6.11E-04	6.84E-04	1.87E-03	6.11E-04	1.69E-04	3.33E-04	2.00E-04	1.31E-04	1.86E-04	9.13E-05
2358	566020.4	4222022	0.001312	0.001735	6.22E-04	6.96E-04	1.90E-03	6.22E-04	1.72E-04	3.39E-04	2.03E-04	1.33E-04	1.89E-04	9.28E-05
2359	566024.2	4222031	0.001333	0.001763	6.31E-04	7.07E-04	1.93E-03	6.31E-04	1.75E-04	3.44E-04	2.07E-04	1.35E-04	1.92E-04	9.43E-05
2360	566027.9	4222040	0.001353	0.00179	6.41E-04	7.17E-04	1.96E-03	6.41E-04	1.78E-04	3.50E-04	2.10E-04	1.38E-04	1.95E-04	9.57E-05
2361	566031.7	4222050	0.001374	0.001817	6.51E-04	7.29E-04	1.99E-03	6.51E-04	1.80E-04	3.55E-04	2.13E-04	1.40E-04	1.98E-04	9.72E-05
2362	566035.5	4222059	0.001395	0.001845	6.61E-04	7.40E-04	2.02E-03	6.61E-04	1.83E-04	3.60E-04	2.16E-04	1.42E-04	2.01E-04	9.87E-05
2363	566039.3	4222068	0.001414	0.00187	6.70E-04	7.50E-04	2.05E-03	6.70E-04	1.86E-04	3.65E-04	2.19E-04	1.44E-04	2.03E-04	1.00E-04

2364	566043.1	4222077	0.001431	0.001893	6.78E-04	7.59E-04	2.08E-03	6.78E-04	1.88E-04	3.70E-04	2.22E-04	1.45E-04	2.06E-04	1.01E-04
2365	566046.9	4222086	0.001448	0.001915	6.86E-04	7.68E-04	2.10E-03	6.86E-04	1.90E-04	3.74E-04	2.25E-04	1.47E-04	2.08E-04	1.02E-04
2366	566050.7	4222095	0.001465	0.001938	6.94E-04	7.77E-04	2.12E-03	6.94E-04	1.92E-04	3.79E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
2367	566054.5	4222104	0.001478	0.001955	7.00E-04	7.84E-04	2.14E-03	7.00E-04	1.94E-04	3.82E-04	2.29E-04	1.50E-04	2.13E-04	1.05E-04
2368	566058.3	4222113	0.001488	0.001968	7.05E-04	7.89E-04	2.16E-03	7.05E-04	1.95E-04	3.84E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
2369	566062.1	4222122	0.001495	0.001977	7.08E-04	7.93E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
2370	566065.9	4222131	0.001504	0.001989	7.13E-04	7.97E-04	2.18E-03	7.13E-04	1.98E-04	3.89E-04	2.33E-04	1.53E-04	2.16E-04	1.06E-04
2371	566069.7	4222141	0.001514	0.002002	7.17E-04	8.03E-04	2.19E-03	7.17E-04	1.99E-04	3.91E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
2372	566081	4222168	0.001519	0.002009	7.20E-04	8.05E-04	2.20E-03	7.20E-04	2.00E-04	3.92E-04	2.36E-04	1.54E-04	2.19E-04	1.07E-04
2373	566084.8	4222177	0.001515	0.002004	7.18E-04	8.03E-04	2.20E-03	7.18E-04	1.99E-04	3.91E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
2374	566088.6	4222186	0.00151	0.001997	7.15E-04	8.00E-04	2.19E-03	7.15E-04	1.98E-04	3.90E-04	2.34E-04	1.53E-04	2.17E-04	1.07E-04
2375	566092.4	4222195	0.001515	0.002004	7.18E-04	8.03E-04	2.20E-03	7.18E-04	1.99E-04	3.91E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
2376	566096.2	4222204	0.001525	0.002017	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
2377	566100	4222213	0.001535	0.00203	7.27E-04	8.14E-04	2.23E-03	7.27E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
2378	566103.8	4222222	0.001545	0.002043	7.32E-04	8.19E-04	2.24E-03	7.32E-04	2.03E-04	3.99E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
2379	565501.2	4221628	0.000524	0.000693	2.48E-04	2.78E-04	7.60E-04	2.48E-04	6.88E-05	1.35E-04	8.13E-05	5.33E-05	7.54E-05	3.71E-05
2380	565491.3	4221628	0.000522	0.000691	2.47E-04	2.77E-04	7.57E-04	2.47E-04	6.86E-05	1.35E-04	8.10E-05	5.31E-05	7.51E-05	3.69E-05
2381	565481.4	4221628	0.00052	0.000688	2.47E-04	2.76E-04	7.55E-04	2.47E-04	6.84E-05	1.34E-04	8.07E-05	5.29E-05	7.49E-05	3.68E-05
2382	565238.2	4222232	0.013637	0.018035	6.46E-03	7.23E-03	1.98E-02	6.46E-03	1.79E-03	3.52E-03	2.11E-03	1.39E-03	1.96E-03	9.64E-04
2383	565236.9	4222248	0.01581	0.020909	7.49E-03	8.38E-03	2.29E-02	7.49E-03	2.08E-03	4.08E-03	2.45E-03	1.61E-03	2.27E-03	1.12E-03
2384	565239.1	4222266	0.018367	0.02429	8.70E-03	9.74E-03	2.66E-02	8.70E-03	2.41E-03	4.74E-03	2.85E-03	1.87E-03	2.64E-03	1.30E-03
2385	565240.2	4222275	0.01943	0.025696	9.21E-03	1.03E-02	2.82E-02	9.21E-03	2.55E-03	5.02E-03	3.01E-03	1.97E-03	2.79E-03	1.37E-03
2386	565241.3	4222284	0.020276	0.026815	9.61E-03	1.08E-02	2.94E-02	9.61E-03	2.66E-03	5.24E-03	3.14E-03	2.06E-03	2.92E-03	1.43E-03
2387	565242.4	4222293	0.02088	0.027613	9.89E-03	1.11E-02	3.03E-02	9.89E-03	2.74E-03	5.39E-03	3.24E-03	2.12E-03	3.00E-03	1.48E-03
2388	565243.5	4222302	0.021237	0.028086	1.01E-02	1.13E-02	3.08E-02	1.01E-02	2.79E-03	5.49E-03	3.29E-03	2.16E-03	3.05E-03	1.50E-03
2389	565228.4	4222233	0.012938	0.01711	6.13E-03	6.86E-03	1.88E-02	6.13E-03	1.70E-03	3.34E-03	2.01E-03	1.31E-03	1.86E-03	9.15E-04
2390	565233.2	4222217	0.011441	0.01513	5.42E-03	6.07E-03	1.66E-02	5.42E-03	1.50E-03	2.96E-03	1.77E-03	1.16E-03	1.65E-03	8.09E-04
2391	565227.1	4222249	0.014707	0.01945	6.97E-03	7.80E-03	2.13E-02	6.97E-03	1.93E-03	3.80E-03	2.28E-03	1.49E-03	2.12E-03	1.04E-03
2392	565228.2	4222258	0.015774	0.02086	7.47E-03	8.36E-03	2.29E-02	7.47E-03	2.07E-03	4.07E-03	2.45E-03	1.60E-03	2.27E-03	1.12E-03
2393	565229.3	4222267	0.016753	0.022155	7.94E-03	8.88E-03	2.43E-02	7.94E-03	2.20E-03	4.33E-03	2.60E-03	1.70E-03	2.41E-03	1.18E-03
2394	565230.4	4222276	0.017596	0.023271	8.34E-03	9.33E-03	2.55E-02	8.34E-03	2.31E-03	4.55E-03	2.73E-03	1.79E-03	2.53E-03	1.24E-03
2395	565231.5	4222285	0.01827	0.024161	8.66E-03	9.69E-03	2.65E-02	8.66E-03	2.40E-03	4.72E-03	2.83E-03	1.86E-03	2.63E-03	1.29E-03
2396	565233.7	4222303	0.019037	0.025177	9.02E-03	1.01E-02	2.76E-02	9.02E-03	2.50E-03	4.92E-03	2.95E-03	1.93E-03	2.74E-03	1.35E-03
2397	565218.7	4222234	0.01227	0.016227	5.81E-03	6.51E-03	1.78E-02	5.81E-03	1.61E-03	3.17E-03	1.90E-03	1.25E-03	1.77E-03	8.68E-04
2398	565223.5	4222219	0.011017	0.01457	5.22E-03	5.84E-03	1.60E-02	5.22E-03	1.45E-03	2.85E-03	1.71E-03	1.12E-03	1.58E-03	7.79E-04
2399	565228.3	4222203	0.009678	0.012799	4.59E-03	5.13E-03	1.40E-02	4.59E-03	1.27E-03	2.50E-03	1.50E-03	9.84E-04	1.39E-03	6.84E-04
2400	565217.4	4222251	0.013724	0.01815	6.50E-03	7.28E-03	1.99E-02	6.50E-03	1.80E-03	3.55E-03	2.13E-03	1.39E-03	1.97E-03	9.71E-04
2401	565218.5	4222260	0.014595	0.019302	6.91E-03	7.74E-03	2.12E-02	6.91E-03	1.92E-03	3.77E-03	2.26E-03	1.48E-03	2.10E-03	1.03E-03
2402	565219.6	4222269	0.015387	0.020349	7.29E-03	8.16E-03	2.23E-02	7.29E-03	2.02E-03	3.98E-03	2.39E-03	1.56E-03	2.21E-03	1.09E-03
2403	565220.6	4222278	0.016066	0.021247	7.61E-03	8.52E-03	2.33E-02	7.61E-03	2.11E-03	4.15E-03	2.49E-03	1.63E-03	2.31E-03	1.14E-03
2404	565221.7	4222286	0.016607	0.021963	7.87E-03	8.80E-03	2.41E-02	7.87E-03	2.18E-03	4.29E-03	2.57E-03	1.69E-03	2.39E-03	1.17E-03
2405	565222.8	4222295	0.016995	0.022476	8.05E-03	9.01E-03	2.46E-02	8.05E-03	2.23E-03	4.39E-03	2.63E-03	1.73E-03	2.44E-03	1.20E-03
2406	565223.9	4222304	0.017221	0.022774	8.16E-03	9.13E-03	2.50E-02	8.16E-03	2.26E-03	4.45E-03	2.67E-03	1.75E-03	2.48E-03	1.22E-03
2407	565208.9	4222235	0.011638	0.015391	5.51E-03	6.17E-03	1.69E-02	5.51E-03	1.53E-03	3.01E-03	1.80E-03	1.18E-03	1.67E-03	8.23E-04
2408	565213.7	4222220	0.010589	0.014003	5.02E-03	5.61E-03	1.54E-02	5.02E-03	1.39E-03	2.74E-03	1.64E-03	1.08E-03	1.52E-03	7.49E-04
2409	565218.5	4222204	0.009422	0.012461	4.46E-03	5.00E-03	1.37E-02	4.46E-03	1.24E-03	2.43E-03	1.46E-03	9.58E-04	1.36E-03	6.66E-04
2410	565223.3	4222189	0.008263	0.010927	3.91E-03	4.38E-03	1.20E-02	3.91E-03	1.09E-03	2.13E-03	1.28E-03	8.40E-04	1.19E-03	5.84E-04
2411	565233	4222178	0.007594	0.010043	3.60E-03	4.03E-03	1.10E-02	3.60E-03	9.97E-04	1.96E-03	1.18E-03	7.72E-04	1.09E-03	5.37E-04
2412	565207.6	4222252	0.012843	0.016985	6.08E-03	6.81E-03	1.86E-02	6.08E-03	1.69E-03	3.32E-03	1.99E-03	1.31E-03	1.85E-03	9.08E-04
2413	565208.7	4222261	0.013564	0.017938	6.43E-03	7.19E-03	1.97E-02	6.43E-03	1.78E-03	3.50E-03	2.10E-03	1.38E-03	1.95E-03	9.59E-04
2414	565210.9	4222279	0.014766	0.019528	7.00E-03	7.83E-03	2.14E-02	7.00E-03	1.94E-03	3.81E-03	2.29E-03	1.50E-03	2.12E-03	1.04E-03
2415	565212	4222288	0.015205	0.020108	7.20E-03	8.06E-03	2.20E-02	7.20E-03	2.00E-03	3.93E-03	2.36E-03	1.55E-03	2.19E-03	1.08E-03
2416	565213.1	4222297	0.015517	0.020521	7.35E-03	8.23E-03	2.25E-02	7.35E-03	2.04E-03	4.01E-03	2.41E-03	1.58E-03	2.23E-03	1.10E-03
2417	565214.2	4222306	0.015696	0.020758	7.44E-03	8.32E-03	2.28E-02	7.44E-03	2.06E-03	4.06E-03	2.43E-03	1.60E-03	2.26E-03	1.11E-03
2418	565199.1	4222236	0.011044	0.014606	5.23E-03	5.86E-03	1.60E-02	5.23E-03	1.45E-03	2.85E-03	1.71E-03	1.12E-03	1.59E-03	7.81E-04
2419	565203.9	4222221	0.010164	0.013442	4.82E-03	5.39E-03	1.47E-02	4.82E-03	1.33E-03	2.63E-03	1.58E-03	1.03E-03	1.46E-03	7.19E-04
2420	565208.7	4222206	0.009151	0.012102	4.34E-03	4.85E-03	1.33E-02	4.34E-03	1.20E-03	2.36E-03	1.42E-03	9.30E-04	1.32E-03	6.47E-04
2421	565213.5	4222190	0.008109	0.010724	3.84E-03	4.30E-03	1.18E-02	3.84E-03	1.06E-03	2.09E-03	1.26E-03	8.24E-04	1.17E-03	5.74E-04
2422	565225.7	4222171	0.007008	0.009268	3.32E-03	3.72E-03	1.02E-02	3.32E-03	9.20E-04	1.81E-03	1.09E-03	7.12E-04	1.01E-03	4.96E-04
2423	565197.8	4222253	0.012049	0.015934	5.71E-03	6.39E-03	1.75E-02	5.71E-03	1.58E-03	3.11E-03	1.87E-03	1.22E-03	1.73E-03	8.52E-04
2424	565198.9	4222262	0.012651	0.016731	5.99E-03	6.71E-03	1.83E-02	5.99E-03	1.66E-03	3.27E-03	1.96E-03	1.29E-03	1.82E-03	8.95E-04
2425	565200	4222271	0.013188	0.017441	6.25E-03	6.99E-03	1.91E-02	6.25E-03	1.73E-03	3.41E-03	2.04E-03	1.34E-03	1.90E-03	9.33E-04
2426	565201.1	4222280	0.013642	0.018042	6.46E-03	7.23E-03	1.98E-02	6.46E-03	1.79E-03	3.52E-03	2.11E-03	1.39E-03	1.96E-03	9.65E-04
2427	565202.2	4222289	0.014	0.018515	6.63E-03	7.42E-03	2.03E-02	6.63E-03	1.84E-03	3.62E-03	2.17E-03	1.42E-03	2.01E-03	9.90E-04
2428	565203.3	4222298	0.014253	0.01885	6.75E-03	7.56E-03	2.07E-02	6.75E-03	1.87E-03	3.68E-03	2.21E-03	1.45E-03	2.05E-03	1.01E-03
2429	565189.6	4222237	0.010453	0.013823	4.95E-03	5.54E-03	1.52E-02	4.95E-03	1.37E-03	2.70E-03	1.62E-03	1.06E-03	1.50E-03	7.39E-04
2430	565195	4222220	0.009611	0.01271	4.55E-03	5.10E-03	1.39E-02	4.55E-03	1.26E-03	2.48E-03	1.49E-03	9.77E-04	1.38E-03	6.80E-04
2431	565202.9	4222194	0.008095	0.010706	3.84E-03	4.29E-03	1.17E-02	3.84E-03	1.06E-03	2.09E-03	1.25E-03	8.23E-04	1.16E-03	5.73E-04
2432	565208.3	4222177	0.007077	0.009359	3.35E-03	3.75E-03	1.03E-02	3.35E-03	9.29E-04	1.83E-03	1.10E-03	7.19E-04	1.02E-03	5.00E-04
2433	565219.1	4222165	0.006482	0.008572	3.07E-03	3.44E-03	9.40E-03	3.07E-03	8.51E-04	1.67E-03	1.00E-03	6.59E-04	9.32E-04	4.58E-04
2434	565187	4222245	0.010781	0.014257	5.11E-03	5.72E-03	1.56E-02	5.11E-03	1.42E-03	2.79E-03	1.67E-03	1.10E-03	1.55E-03	7.62E-04
2435	565189.2	4222263	0.011837	0.015655	5.61E-03	6.28E-03	1.72E-02	5.61E-03	1.55E-03	3.06E-03	1.84E-03	1.20E-03	1.70E-03	8.37E-04
2436	565190.3	4222272	0.012285	0.016247	5.82E-03	6.51E-03	1.78E-02	5.82E-03	1.61E-03	3.17E-03	1.90E-03	1.25E-03	1.77E-03	8.69E-04
2437	565191.3	4222281	0.012661	0.016744	6.00E-03	6.71E-03	1.84E-02	6.00E-03	1.66E-03	3.27E-03	1.96E-03	1.29E-03	1.82E-03	8.95E-04
2438	565192.4	4222290	0.012955	0.017133	6.14E-03	6.87E-03	1.88E-02	6.14E-03	1.70E-03	3.35E-03	2.01E-03	1.32E-03	1.86E-03	9.16E-04
2439	565193.5	4222299	0.01316	0.017404	6.23E-03	6.98E-03	1.91E-02	6.23E-03	1.73E-03	3.40E-03	2.04E-03	1.34E-03	1.89E-03	9.31E-04
2440	565194.6	4222308	0.013272	0.017552	6.29E-03	7.04E-03	1.92E-02	6.29E-03	1.74E-03	3.43E-03	2.06E-03	1.35E-03	1.91E-03	9.39E-04
2441	565179.9	4222238	0.009942	0.013149	4.71E-03	5.27E-03	1.44E-02	4.71E-03	1.31E-03	2.57E-03	1.54E-03	1.01E-03	1.43E-03	7.03E-04
2442	565185.1	4222221	0.009241	0.012221	4.38E-03	4.90E-03	1.34E-02	4.38E-03	1.21E-03	2.39E-03	1.43E-03	9.39E-04	1.33E-03	6.54E-04
2443	565190.4	4222204	0.008384	0.011087	3.97E-03	4.45E-03	1.22E-02	3.97E-03	1.10E-03	2.17E-03	1.30E-03	8.52E-04	1.21E-03	5.93E-04
2444	565195.7	4222187	0.007464	0.00987	3.54E-03	3.96E-03	1.08E-02	3.54E-03	9.80E-04	1.93E-03	1.16E-03	7.58E-04	1.07E-03	5.28E-04
2445	565200.9	4222170	0.006561	0.008676	3.11E-03	3.48E-03	9.51E-03	3.11E-03	8.62E-04	1.69E-03	1.02E-03	6.67E-04	9.44E-04	4.64E-04
2446	565211.6	4222158	0.00603	0.007974	2.86E-03	3.20E-03	8.74E-03	2.86E-03	7.92E-04	1.56E-03	9.35E-04	6.13E-04	8.67E-04	4.26E-04
2447	565227.8	4222151	0.005782	0.007646	2.74E-03	3.07E-03	8.38E-03	2.74E-03	7.59E-04	1.49E-03	8.96E-04	5.88E-04	8.32E-04	4.09E-04
2448	565178.3	4222255	0.010679	0.014123	5.06E-03	5.66E-03	1.55E-02	5.06E-03	1.40E-03	2.76E-03	1.66E-03	1.09E-03	1.54E-03	7.55E-04
2449	565179.4	4222264	0.011108	0.01469	5.26E-03	5.89E-03	1.61E-02	5.26E-03	1.46E-03	2.87E-03	1.72E-03	1.13E-03	1.60E-03	7.86E-04
2450	565180.5	4222273	0.011484	0.015187	5.44E-03	6.09E-03	1.66E-02	5.44E-03	1.51E-03	2.97E-03	1.78E-03	1.17E-03	1.65E-03	8.12E-04
2451	565181.6	4222282	0.011797	0.015602	5.59E-03	6.25E-03	1.71E-02	5.59E-03	1.55E-03	3.05E-03	1.83E-03	1.20E-03	1.70E-03	8.34E-04
2452	565183.8	4222300	0.012207	0.016143	5.78E-03	6.47E-03	1.77E-02	5.78E-03	1.60E-03	3.15E-03	1.89E-03	1.24E-03	1.76E-03	8.63E-04
2453	565184.9	4222309	0.012295	0.01626	5.82E-03	6.52E-03	1.78E-02	5.82E-03	1.61E-03	3.18E-03	1.91E-03	1.25E-03	1.77E-03	8.69E-04
2454	565170.1	4222239	0.009464	0.012516	4.48E-03	5.02E-03	1.37E-02	4.48E-03	1.24E-03	2.44E-03	1.47E-03	9.62E-04	1.36E-03	6.69E-04

2455	565175.3	4222222	0.008879	0.011742	4.21E-03	4.71E-03	1.29E-02	4.21E-03	1.17E-03	2.29E-03	1.38E-03	9.02E-04	1.28E-03	6.28E-04
2456	565180.5	4222206	0.008141	0.010766	3.86E-03	4.32E-03	1.18E-02	3.86E-03	1.07E-03	2.10E-03	1.26E-03	8.27E-04	1.17E-03	5.76E-04
2457	565185.7	4222189	0.007325	0.009687	3.47E-03	3.88E-03	1.06E-02	3.47E-03	9.62E-04	1.89E-03	1.14E-03	7.44E-04	1.05E-03	5.18E-04
2458	565191	4222172	0.006502	0.008598	3.08E-03	3.45E-03	9.43E-03	3.08E-03	8.54E-04	1.68E-03	1.01E-03	6.61E-04	9.35E-04	4.60E-04
2459	565204.2	4222152	0.005627	0.007442	2.67E-03	2.98E-03	8.16E-03	2.67E-03	7.39E-04	1.45E-03	8.72E-04	5.72E-04	8.09E-04	3.98E-04
2460	565220.2	4222144	0.005403	0.007145	2.56E-03	2.86E-03	7.83E-03	2.56E-03	7.10E-04	1.40E-03	8.38E-04	5.49E-04	7.77E-04	3.82E-04
2461	565171.8	4222283	0.011029	0.014585	5.22E-03	5.85E-03	1.60E-02	5.22E-03	1.45E-03	2.85E-03	1.71E-03	1.12E-03	1.59E-03	7.80E-04
2462	565172.9	4222292	0.01123	0.014851	5.32E-03	5.95E-03	1.63E-02	5.32E-03	1.47E-03	2.90E-03	1.74E-03	1.14E-03	1.62E-03	7.94E-04
2463	565174	4222301	0.011365	0.015031	5.38E-03	6.03E-03	1.65E-02	5.38E-03	1.49E-03	2.94E-03	1.76E-03	1.15E-03	1.63E-03	8.04E-04
2464	565175.1	4222310	0.011434	0.015121	5.42E-03	6.06E-03	1.66E-02	5.42E-03	1.50E-03	2.95E-03	1.77E-03	1.16E-03	1.64E-03	8.09E-04
2465	565170.7	4222207	0.007892	0.010437	3.74E-03	4.18E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.02E-04	1.14E-03	5.58E-04
2466	565175.8	4222190	0.00717	0.009482	3.40E-03	3.80E-03	1.04E-02	3.40E-03	9.42E-04	1.85E-03	1.11E-03	7.29E-04	1.03E-03	5.07E-04
2467	565181	4222174	0.006422	0.008493	3.04E-03	3.41E-03	9.31E-03	3.04E-03	8.43E-04	1.66E-03	9.96E-04	6.53E-04	9.24E-04	4.54E-04
2468	565186.2	4222157	0.005698	0.007535	2.70E-03	3.02E-03	8.26E-03	2.70E-03	7.48E-04	1.47E-03	8.83E-04	5.79E-04	8.20E-04	4.03E-04
2469	565196.8	4222145	0.005267	0.006965	2.50E-03	2.79E-03	7.64E-03	2.50E-03	6.92E-04	1.36E-03	8.16E-04	5.35E-04	7.58E-04	3.72E-04
2470	565212.7	4222138	0.005062	0.006695	2.40E-03	2.68E-03	7.34E-03	2.40E-03	6.65E-04	1.31E-03	7.85E-04	5.14E-04	7.28E-04	3.58E-04
2471	565228.6	4222131	0.004829	0.006386	2.29E-03	2.56E-03	7.00E-03	2.29E-03	6.34E-04	1.25E-03	7.49E-04	4.91E-04	6.95E-04	3.41E-04
2472	565150.5	4222242	0.008596	0.011369	4.07E-03	4.56E-03	1.25E-02	4.07E-03	1.13E-03	2.22E-03	1.33E-03	8.74E-04	1.24E-03	6.08E-04
2473	565171.1	4222175	0.006327	0.008368	3.00E-03	3.35E-03	9.17E-03	3.00E-03	8.31E-04	1.63E-03	9.81E-04	6.43E-04	9.10E-04	4.47E-04
2474	565176.3	4222159	0.005656	0.00748	2.68E-03	3.00E-03	8.20E-03	2.68E-03	7.43E-04	1.46E-03	8.77E-04	5.75E-04	8.14E-04	4.00E-04
2475	565189.4	4222139	0.004942	0.006535	2.34E-03	2.62E-03	7.16E-03	2.34E-03	6.49E-04	1.28E-03	7.66E-04	5.02E-04	7.11E-04	3.49E-04
2476	565205.2	4222131	0.004756	0.00629	2.25E-03	2.52E-03	6.89E-03	2.25E-03	6.25E-04	1.23E-03	7.37E-04	4.83E-04	6.84E-04	3.36E-04
2477	565221	4222124	0.004543	0.006009	2.15E-03	2.41E-03	6.59E-03	2.15E-03	5.97E-04	1.17E-03	7.04E-04	4.62E-04	6.54E-04	3.21E-04
2478	565149	4222259	0.00904	0.011955	4.28E-03	4.79E-03	1.31E-02	4.28E-03	1.19E-03	2.34E-03	1.40E-03	9.19E-04	1.30E-03	6.39E-04
2479	565150.1	4222268	0.009308	0.012309	4.41E-03	4.93E-03	1.35E-02	4.41E-03	1.22E-03	2.40E-03	1.44E-03	9.46E-04	1.34E-03	6.58E-04
2480	565151.2	4222277	0.009537	0.012612	4.52E-03	5.06E-03	1.38E-02	4.52E-03	1.25E-03	2.46E-03	1.48E-03	9.69E-04	1.37E-03	6.74E-04
2481	565152.3	4222286	0.009722	0.012858	4.61E-03	5.15E-03	1.41E-02	4.61E-03	1.28E-03	2.51E-03	1.51E-03	9.88E-04	1.40E-03	6.88E-04
2482	565153.4	4222295	0.009861	0.013041	4.67E-03	5.23E-03	1.43E-02	4.67E-03	1.30E-03	2.55E-03	1.53E-03	1.00E-03	1.42E-03	6.97E-04
2483	565155.6	4222313	0.009991	0.013212	4.73E-03	5.30E-03	1.45E-02	4.73E-03	1.31E-03	2.58E-03	1.55E-03	1.02E-03	1.44E-03	7.07E-04
2484	565140.7	4222243	0.008203	0.010849	3.89E-03	4.35E-03	1.19E-02	3.89E-03	1.08E-03	2.12E-03	1.27E-03	8.34E-04	1.18E-03	5.80E-04
2485	565145.9	4222226	0.007862	0.010397	3.72E-03	4.17E-03	1.14E-02	3.72E-03	1.03E-03	2.03E-03	1.22E-03	7.99E-04	1.13E-03	5.56E-04
2486	565151	4222210	0.007389	0.009772	3.50E-03	3.92E-03	1.07E-02	3.50E-03	9.70E-04	1.91E-03	1.15E-03	7.51E-04	1.06E-03	5.23E-04
2487	565171.5	4222144	0.005003	0.006616	2.37E-03	2.65E-03	7.25E-03	2.37E-03	6.57E-04	1.29E-03	7.76E-04	5.08E-04	7.20E-04	3.54E-04
2488	565181.9	4222132	0.004646	0.006145	2.20E-03	2.46E-03	6.74E-03	2.20E-03	6.10E-04	1.20E-03	7.20E-04	4.72E-04	6.68E-04	3.29E-04
2489	565197.7	4222125	0.004479	0.005923	2.12E-03	2.37E-03	6.49E-03	2.12E-03	5.88E-04	1.16E-03	6.94E-04	4.55E-04	6.44E-04	3.17E-04
2490	565139.2	4222260	0.008579	0.011346	4.06E-03	4.55E-03	1.24E-02	4.06E-03	1.13E-03	2.22E-03	1.33E-03	8.72E-04	1.23E-03	6.07E-04
2491	565140.3	4222269	0.00881	0.011651	4.17E-03	4.67E-03	1.28E-02	4.17E-03	1.16E-03	2.28E-03	1.37E-03	8.95E-04	1.27E-03	6.23E-04
2492	565141.4	4222278	0.009005	0.011909	4.27E-03	4.77E-03	1.31E-02	4.27E-03	1.18E-03	2.33E-03	1.40E-03	9.15E-04	1.30E-03	6.37E-04
2493	565142.5	4222287	0.009162	0.012117	4.34E-03	4.86E-03	1.33E-02	4.34E-03	1.20E-03	2.37E-03	1.42E-03	9.31E-04	1.32E-03	6.48E-04
2494	565143.6	4222296	0.009277	0.012269	4.40E-03	4.92E-03	1.34E-02	4.40E-03	1.22E-03	2.40E-03	1.44E-03	9.43E-04	1.33E-03	6.56E-04
2495	565144.7	4222305	0.00935	0.012365	4.43E-03	4.96E-03	1.36E-02	4.43E-03	1.23E-03	2.42E-03	1.45E-03	9.50E-04	1.34E-03	6.61E-04
2496	565145.8	4222314	0.009379	0.012404	4.44E-03	4.97E-03	1.36E-02	4.44E-03	1.23E-03	2.42E-03	1.45E-03	9.53E-04	1.35E-03	6.63E-04
2497	565130.9	4222244	0.007835	0.010361	3.71E-03	4.15E-03	1.14E-02	3.71E-03	1.03E-03	2.02E-03	1.21E-03	7.96E-04	1.13E-03	5.54E-04
2498	565136.1	4222228	0.00755	0.009985	3.58E-03	4.00E-03	1.09E-02	3.58E-03	9.92E-04	1.95E-03	1.17E-03	7.67E-04	1.09E-03	5.34E-04
2499	565141.2	4222211	0.007143	0.009446	3.38E-03	3.79E-03	1.04E-02	3.38E-03	9.38E-04	1.85E-03	1.11E-03	7.26E-04	1.03E-03	5.05E-04
2500	565151.4	4222178	0.006094	0.00806	2.89E-03	3.23E-03	8.84E-03	2.89E-03	8.00E-04	1.57E-03	9.45E-04	6.19E-04	8.77E-04	4.31E-04
2501	565174.5	4222126	0.004378	0.00579	2.07E-03	2.32E-03	6.35E-03	2.07E-03	5.75E-04	1.13E-03	6.79E-04	4.45E-04	6.30E-04	3.10E-04
2502	565129.5	4222261	0.008154	0.010783	3.86E-03	4.32E-03	1.18E-02	3.86E-03	1.07E-03	2.11E-03	1.26E-03	8.29E-04	1.17E-03	5.77E-04
2503	565130.6	4222270	0.008353	0.011047	3.96E-03	4.43E-03	1.21E-02	3.96E-03	1.10E-03	2.16E-03	1.29E-03	8.49E-04	1.20E-03	5.91E-04
2504	565131.7	4222279	0.00852	0.011268	4.04E-03	4.52E-03	1.24E-02	4.04E-03	1.12E-03	2.20E-03	1.32E-03	8.66E-04	1.23E-03	6.03E-04
2505	565133.8	4222297	0.008749	0.01157	4.14E-03	4.64E-03	1.27E-02	4.14E-03	1.15E-03	2.26E-03	1.36E-03	8.89E-04	1.26E-03	6.19E-04
2506	565134.9	4222306	0.008807	0.011647	4.17E-03	4.67E-03	1.28E-02	4.17E-03	1.16E-03	2.28E-03	1.37E-03	8.95E-04	1.27E-03	6.23E-04
2507	565136	4222315	0.008827	0.011673	4.18E-03	4.68E-03	1.28E-02	4.18E-03	1.16E-03	2.28E-03	1.37E-03	8.97E-04	1.27E-03	6.24E-04
2508	565121.2	4222245	0.007489	0.009905	3.55E-03	3.97E-03	1.09E-02	3.55E-03	9.84E-04	1.93E-03	1.16E-03	7.61E-04	1.08E-03	5.30E-04
2509	565126.3	4222229	0.00725	0.009588	3.43E-03	3.84E-03	1.05E-02	3.43E-03	9.52E-04	1.87E-03	1.12E-03	7.37E-04	1.04E-03	5.13E-04
2510	565131.3	4222213	0.006902	0.009127	3.27E-03	3.66E-03	1.00E-02	3.27E-03	9.06E-04	1.78E-03	1.07E-03	7.01E-04	9.93E-04	4.88E-04
2511	565141.5	4222180	0.005964	0.007888	2.83E-03	3.16E-03	8.65E-03	2.83E-03	7.83E-04	1.54E-03	9.25E-04	6.06E-04	8.58E-04	4.22E-04
2512	565146.6	4222164	0.005449	0.007206	2.58E-03	2.89E-03	7.90E-03	2.58E-03	7.16E-04	1.41E-03	8.45E-04	5.54E-04	7.84E-04	3.85E-04
2513	565151.7	4222147	0.004932	0.006522	2.34E-03	2.61E-03	7.15E-03	2.34E-03	6.48E-04	1.27E-03	7.65E-04	5.01E-04	7.09E-04	3.49E-04
2514	565214	4222098	0.00366	0.00484	1.73E-03	1.94E-03	5.31E-03	1.73E-03	4.81E-04	9.45E-04	5.67E-04	3.72E-04	5.26E-04	2.59E-04
2515	565119.7	4222263	0.007761	0.010263	3.68E-03	4.11E-03	1.13E-02	3.68E-03	1.02E-03	2.00E-03	1.20E-03	7.89E-04	1.12E-03	5.49E-04
2516	565120.8	4222271	0.007933	0.010491	3.76E-03	4.21E-03	1.15E-02	3.76E-03	1.04E-03	2.05E-03	1.23E-03	8.06E-04	1.14E-03	5.61E-04
2517	565121.9	4222280	0.008076	0.010681	3.83E-03	4.28E-03	1.17E-02	3.83E-03	1.06E-03	2.09E-03	1.25E-03	8.21E-04	1.16E-03	5.71E-04
2518	565123	4222289	0.008188	0.010829	3.88E-03	4.34E-03	1.19E-02	3.88E-03	1.08E-03	2.12E-03	1.27E-03	8.32E-04	1.18E-03	5.79E-04
2519	565124.1	4222298	0.008268	0.010934	3.92E-03	4.38E-03	1.20E-02	3.92E-03	1.09E-03	2.14E-03	1.28E-03	8.40E-04	1.19E-03	5.85E-04
2520	565125.2	4222307	0.008314	0.010995	3.94E-03	4.41E-03	1.21E-02	3.94E-03	1.09E-03	2.15E-03	1.29E-03	8.45E-04	1.20E-03	5.88E-04
2521	565126.3	4222316	0.008327	0.011012	3.94E-03	4.41E-03	1.21E-02	3.94E-03	1.09E-03	2.15E-03	1.29E-03	8.46E-04	1.20E-03	5.89E-04
2522	565111.4	4222247	0.007166	0.009476	3.39E-03	3.80E-03	1.04E-02	3.39E-03	9.41E-04	1.85E-03	1.11E-03	7.28E-04	1.03E-03	5.07E-04
2523	565116.5	4222230	0.006964	0.00921	3.30E-03	3.69E-03	1.01E-02	3.30E-03	9.15E-04	1.80E-03	1.08E-03	7.08E-04	1.00E-03	4.93E-04
2524	565121.5	4222214	0.006663	0.008812	3.16E-03	3.53E-03	9.66E-03	3.16E-03	8.75E-04	1.72E-03	1.03E-03	6.77E-04	9.58E-04	4.71E-04
2525	565126.6	4222198	0.006276	0.0083	2.97E-03	3.33E-03	9.10E-03	2.97E-03	8.24E-04	1.62E-03	9.73E-04	6.38E-04	9.03E-04	4.44E-04
2526	565131.7	4222181	0.00583	0.00771	2.76E-03	3.09E-03	8.45E-03	2.76E-03	7.66E-04	1.51E-03	9.04E-04	5.93E-04	8.39E-04	4.12E-04
2527	565136.7	4222165	0.005359	0.007087	2.54E-03	2.84E-03	7.77E-03	2.54E-03	7.04E-04	1.38E-03	8.31E-04	5.45E-04	7.71E-04	3.79E-04
2528	565141.8	4222149	0.004881	0.006455	2.31E-03	2.59E-03	7.08E-03	2.31E-03	6.41E-04	1.26E-03	7.57E-04	4.96E-04	7.02E-04	3.45E-04
2529	565146.9	4222132	0.004413	0.005836	2.09E-03	2.34E-03	6.40E-03	2.09E-03	5.80E-04	1.14E-03	6.84E-04	4.48E-04	6.35E-04	3.12E-04
2530	565190.9	4222099	0.003636	0.004808	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.77E-04	9.39E-04	5.64E-04	3.69E-04	5.23E-04	2.57E-04
2531	565206.4	4222091	0.003477	0.004598	1.65E-03	1.84E-03	5.04E-03	1.65E-03	4.57E-04	8.98E-04	5.39E-04	3.53E-04	5.00E-04	2.46E-04
2532	565222	4222084	0.003313	0.004381	1.57E-03	1.76E-03	4.80E-03	1.57E-03	4.35E-04	8.56E-04	5.13E-04	3.37E-04	4.76E-04	2.34E-04
2533	565109.9	4222264	0.007395	0.00978	3.50E-03	3.92E-03	1.07E-02	3.50E-03	9.71E-04	1.91E-03	1.15E-03	7.52E-04	1.06E-03	5.23E-04
2534	565111	4222273	0.007545	0.009978	3.57E-03	4.00E-03	1.09E-02	3.57E-03	9.91E-04	1.95E-03	1.17E-03	7.67E-04	1.09E-03	5.34E-04
2535	565112.1	4222282	0.007667	0.01014	3.63E-03	4.07E-03	1.11E-02	3.63E-03	1.01E-03	1.98E-03	1.19E-03	7.79E-04	1.10E-03	5.42E-04
2536	565113.2	4222291	0.007762	0.010266	3.68E-03	4.12E-03	1.13E-02	3.68E-03	1.02E-03	2.01E-03	1.20E-03	7.89E-04	1.12E-03	5.49E-04
2537	565114.3	4222300	0.007828	0.010353	3.71E-03	4.15E-03	1.13E-02	3.71E-03	1.03E-03	2.02E-03	1.21E-03	7.96E-04	1.13E-03	5.54E-04
2538	565115.4	4222309	0.007864	0.0104	3.73E-03	4.17E-03	1.14E-02	3.73E-03	1.03E-03	2.03E-03	1.22E-03	7.99E-04	1.13E-03	5.56E-04
2539	565116.5	4222317	0.00787	0.010409	3.73E-03	4.17E-03	1.14E-02	3.73E-03	1.03E-03	2.03E-03	1.22E-03	8.00E-04	1.13E-03	5.57E-04
2540	565101.8	4222247	0.006857	0.009068	3.25E-03	3.64E-03	9.94E-03	3.25E-03	9.01E-04	1.77E-03	1.06E-03	6.97E-04	9.86E-04	4.85E-04
2541	565104.4	4222239	0.006779	0.008965	3.21E-03	3.59E-03	9.83E-03	3.21E-03	8.90E-04	1.75E-03	1.05E-03	6.89E-04	9.75E-04	4.79E-04
2542	565109.8	4222222	0.006541	0.008651	3.10E-03	3.47E-03	9.48E-03	3.10E-03	8.59E-04	1.69E-03	1.01E-03	6.65E-04	9.41E-04	4.63E-04
2543	565115.1	4222204	0.006212	0.008215	2.94E-03	3.29E-03	9.01E-03	2.94E-03	8.16E-04	1.60E-03	9.63E-04	6.31E-04	8.94E-04	4.39E-04
2544	565123.2	4222178	0.005586	0.007387	2.65E-03	2.96E-03	8.10E-03	2.65E-03	7.34E-04	1.44E-03	8.66E-04	5.68E-04	8.03E-04	3.95E-04
2545	565128.5	4222161	0.005123	0.006775	2.43E-03	2.72E-03	7.43E-03	2.43E-03	6.73E-04	1.32E-03	7.94E-04	5.21E-04	7.37E-04	3.62E-04

2546	565133.9	4222144	0.004653	0.006154	2.20E-03	2.47E-03	6.75E-03	2.20E-03	6.11E-04	1.20E-03	7.21E-04	4.73E-04	6.69E-04	3.29E-04
2547	565139.2	4222127	0.004197	0.00555	1.99E-03	2.23E-03	6.08E-03	1.99E-03	5.51E-04	1.08E-03	6.51E-04	4.26E-04	6.04E-04	2.97E-04
2548	565177.4	4222095	0.003505	0.004636	1.66E-03	1.86E-03	5.08E-03	1.66E-03	4.60E-04	9.06E-04	5.43E-04	3.56E-04	5.04E-04	2.48E-04
2549	565193.9	4222087	0.003356	0.004438	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
2550	565202.1	4222084	0.003276	0.004333	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
2551	565218.5	4222076	0.003116	0.004121	1.48E-03	1.65E-03	4.52E-03	1.48E-03	4.09E-04	8.05E-04	4.83E-04	3.17E-04	4.48E-04	2.20E-04
2552	565100.2	4222265	0.007054	0.009328	3.34E-03	3.74E-03	1.02E-02	3.34E-03	9.26E-04	1.82E-03	1.09E-03	7.17E-04	1.01E-03	4.99E-04
2553	565101.3	4222274	0.007184	0.0095	3.40E-03	3.81E-03	1.04E-02	3.40E-03	9.43E-04	1.86E-03	1.11E-03	7.30E-04	1.03E-03	5.08E-04
2554	565102.4	4222283	0.00729	0.009641	3.45E-03	3.87E-03	1.06E-02	3.45E-03	9.57E-04	1.88E-03	1.13E-03	7.41E-04	1.05E-03	5.16E-04
2555	565103.4	4222292	0.007371	0.009748	3.49E-03	3.91E-03	1.07E-02	3.49E-03	9.68E-04	1.90E-03	1.14E-03	7.49E-04	1.06E-03	5.21E-04
2556	565105.6	4222310	0.007452	0.009856	3.53E-03	3.95E-03	1.08E-02	3.53E-03	9.79E-04	1.93E-03	1.16E-03	7.57E-04	1.07E-03	5.27E-04
2557	565106.7	4222319	0.007453	0.009857	3.53E-03	3.95E-03	1.08E-02	3.53E-03	9.79E-04	1.93E-03	1.16E-03	7.57E-04	1.07E-03	5.27E-04
2558	565092	4222249	0.006567	0.008684	3.11E-03	3.48E-03	9.52E-03	3.11E-03	8.62E-04	1.70E-03	1.02E-03	6.67E-04	9.45E-04	4.64E-04
2559	565097.3	4222231	0.006419	0.008489	3.04E-03	3.40E-03	9.31E-03	3.04E-03	8.43E-04	1.66E-03	9.95E-04	6.52E-04	9.23E-04	4.54E-04
2560	565102.6	4222214	0.006172	0.008163	2.92E-03	3.27E-03	8.95E-03	2.92E-03	8.11E-04	1.59E-03	9.57E-04	6.27E-04	8.88E-04	4.37E-04
2561	565107.9	4222197	0.005851	0.007738	2.77E-03	3.10E-03	8.48E-03	2.77E-03	7.68E-04	1.51E-03	9.07E-04	5.95E-04	8.42E-04	4.14E-04
2562	565113.3	4222180	0.005467	0.007229	2.59E-03	2.90E-03	7.93E-03	2.59E-03	7.18E-04	1.41E-03	8.47E-04	5.56E-04	7.86E-04	3.87E-04
2563	565118.6	4222163	0.005045	0.006673	2.39E-03	2.68E-03	7.31E-03	2.39E-03	6.63E-04	1.30E-03	7.82E-04	5.13E-04	7.26E-04	3.57E-04
2564	565123.9	4222146	0.00461	0.006097	2.18E-03	2.44E-03	6.68E-03	2.18E-03	6.05E-04	1.19E-03	7.15E-04	4.69E-04	6.63E-04	3.26E-04
2565	565129.2	4222129	0.004182	0.00553	1.98E-03	2.22E-03	6.06E-03	1.98E-03	5.49E-04	1.08E-03	6.48E-04	4.25E-04	6.01E-04	2.96E-04
2566	565145.4	4222099	0.003524	0.00466	1.67E-03	1.87E-03	5.11E-03	1.67E-03	4.63E-04	9.10E-04	5.46E-04	3.58E-04	5.07E-04	2.49E-04
2567	565169.9	4222088	0.003334	0.004409	1.58E-03	1.77E-03	4.83E-03	1.58E-03	4.38E-04	8.61E-04	5.17E-04	3.39E-04	4.80E-04	2.36E-04
2568	565178	4222085	0.003266	0.004319	1.55E-03	1.73E-03	4.73E-03	1.55E-03	4.29E-04	8.44E-04	5.06E-04	3.32E-04	4.70E-04	2.31E-04
2569	565194.4	4222077	0.003124	0.004132	1.48E-03	1.66E-03	4.53E-03	1.48E-03	4.10E-04	8.07E-04	4.84E-04	3.17E-04	4.49E-04	2.21E-04
2570	565210.7	4222070	0.002976	0.003936	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.91E-04	7.69E-04	4.61E-04	3.02E-04	4.28E-04	2.10E-04
2571	565218.9	4222066	0.002902	0.003838	1.37E-03	1.54E-03	4.21E-03	1.37E-03	3.81E-04	7.50E-04	4.50E-04	2.95E-04	4.17E-04	2.05E-04
2572	565090.4	4222266	0.006732	0.008904	3.19E-03	3.57E-03	9.76E-03	3.19E-03	8.84E-04	1.74E-03	1.04E-03	6.84E-04	9.68E-04	4.76E-04
2573	565091.5	4222275	0.006845	0.009053	3.24E-03	3.63E-03	9.92E-03	3.24E-03	8.99E-04	1.77E-03	1.06E-03	6.96E-04	9.85E-04	4.84E-04
2574	565092.6	4222284	0.006936	0.009173	3.29E-03	3.68E-03	1.01E-02	3.29E-03	9.11E-04	1.79E-03	1.08E-03	7.05E-04	9.98E-04	4.91E-04
2575	565095.9	4222311	0.00707	0.009351	3.35E-03	3.75E-03	1.03E-02	3.35E-03	9.29E-04	1.83E-03	1.10E-03	7.19E-04	1.02E-03	5.00E-04
2576	565097	4222320	0.007069	0.009348	3.35E-03	3.75E-03	1.02E-02	3.35E-03	9.28E-04	1.83E-03	1.10E-03	7.18E-04	1.02E-03	5.00E-04
2577	565092.8	4222216	0.005968	0.007893	2.83E-03	3.16E-03	8.65E-03	2.83E-03	7.84E-04	1.54E-03	9.25E-04	6.07E-04	8.59E-04	4.22E-04
2578	565095.4	4222207	0.005836	0.007719	2.77E-03	3.09E-03	8.46E-03	2.77E-03	7.66E-04	1.51E-03	9.05E-04	5.93E-04	8.40E-04	4.13E-04
2579	565106	4222173	0.005156	0.006819	2.44E-03	2.73E-03	7.48E-03	2.44E-03	6.77E-04	1.33E-03	7.99E-04	5.24E-04	7.42E-04	3.65E-04
2580	565111.3	4222156	0.004762	0.006297	2.26E-03	2.52E-03	6.90E-03	2.26E-03	6.25E-04	1.23E-03	7.38E-04	4.84E-04	6.85E-04	3.37E-04
2581	565116.6	4222139	0.004358	0.005763	2.06E-03	2.31E-03	6.32E-03	2.06E-03	5.72E-04	1.13E-03	6.76E-04	4.43E-04	6.27E-04	3.08E-04
2582	565121.9	4222122	0.003961	0.005239	1.88E-03	2.10E-03	5.74E-03	1.88E-03	5.20E-04	1.02E-03	6.14E-04	4.03E-04	5.70E-04	2.80E-04
2583	565127.2	4222105	0.003585	0.00474	1.70E-03	1.90E-03	5.20E-03	1.70E-03	4.71E-04	9.26E-04	5.56E-04	3.64E-04	5.16E-04	2.54E-04
2584	565138	4222093	0.003353	0.004435	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.66E-04	5.20E-04	3.41E-04	4.82E-04	2.37E-04
2585	565146.1	4222089	0.003297	0.004361	1.56E-03	1.75E-03	4.78E-03	1.56E-03	4.33E-04	8.52E-04	5.11E-04	3.35E-04	4.74E-04	2.33E-04
2586	565170.5	4222078	0.003112	0.004116	1.47E-03	1.65E-03	4.51E-03	1.47E-03	4.09E-04	8.04E-04	4.82E-04	3.16E-04	4.48E-04	2.20E-04
2587	565186.7	4222071	0.002982	0.003943	1.41E-03	1.58E-03	4.32E-03	1.41E-03	3.92E-04	7.70E-04	4.62E-04	3.03E-04	4.29E-04	2.11E-04
2588	565194.8	4222067	0.002915	0.003854	1.38E-03	1.55E-03	4.23E-03	1.38E-03	3.83E-04	7.53E-04	4.52E-04	2.96E-04	4.19E-04	2.06E-04
2589	565211.1	4222060	0.002777	0.003673	1.32E-03	1.47E-03	4.03E-03	1.32E-03	3.65E-04	7.18E-04	4.31E-04	2.82E-04	4.00E-04	1.96E-04
2590	565219.2	4222056	0.00271	0.003583	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
2591	565086.1	4222312	0.006718	0.008884	3.18E-03	3.56E-03	9.74E-03	3.18E-03	8.82E-04	1.74E-03	1.04E-03	6.83E-04	9.66E-04	4.75E-04
2592	565087.2	4222321	0.006714	0.008879	3.18E-03	3.56E-03	9.73E-03	3.18E-03	8.82E-04	1.73E-03	1.04E-03	6.82E-04	9.66E-04	4.75E-04
2593	565072.4	4222251	0.006037	0.007984	2.86E-03	3.20E-03	8.75E-03	2.86E-03	7.93E-04	1.56E-03	9.36E-04	6.14E-04	8.68E-04	4.27E-04
2594	565093.5	4222183	0.00522	0.006903	2.47E-03	2.77E-03	7.57E-03	2.47E-03	6.85E-04	1.35E-03	8.09E-04	5.30E-04	7.51E-04	3.69E-04
2595	565098.8	4222166	0.004872	0.006444	2.31E-03	2.58E-03	7.06E-03	2.31E-03	6.40E-04	1.26E-03	7.55E-04	4.95E-04	7.01E-04	3.45E-04
2596	565104	4222149	0.004502	0.005954	2.13E-03	2.39E-03	6.53E-03	2.13E-03	5.91E-04	1.16E-03	6.98E-04	4.58E-04	6.48E-04	3.18E-04
2597	565109.3	4222132	0.004127	0.005457	1.96E-03	2.19E-03	5.98E-03	1.96E-03	5.42E-04	1.07E-03	6.40E-04	4.19E-04	5.94E-04	2.92E-04
2598	565119.8	4222099	0.00341	0.00451	1.62E-03	1.81E-03	4.94E-03	1.62E-03	4.48E-04	8.81E-04	5.29E-04	3.47E-04	4.91E-04	2.41E-04
2599	565130.5	4222086	0.003196	0.004227	1.51E-03	1.69E-03	4.63E-03	1.51E-03	4.20E-04	8.26E-04	4.95E-04	3.25E-04	4.60E-04	2.26E-04
2600	565138.6	4222083	0.003143	0.004157	1.49E-03	1.67E-03	4.56E-03	1.49E-03	4.13E-04	8.12E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04
2601	565171	4222068	0.00291	0.003848	1.38E-03	1.54E-03	4.22E-03	1.38E-03	3.82E-04	7.52E-04	4.51E-04	2.96E-04	4.19E-04	2.06E-04
2602	565187.1	4222061	0.002787	0.003686	1.32E-03	1.48E-03	4.04E-03	1.32E-03	3.66E-04	7.20E-04	4.32E-04	2.83E-04	4.01E-04	1.97E-04
2603	565195.2	4222057	0.002725	0.003603	1.29E-03	1.44E-03	3.95E-03	1.29E-03	3.58E-04	7.04E-04	4.22E-04	2.77E-04	3.92E-04	1.93E-04
2604	565211.4	4222050	0.002598	0.003436	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.41E-04	6.71E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
2605	565219.5	4222046	0.002536	0.003354	1.20E-03	1.34E-03	3.68E-03	1.20E-03	3.33E-04	6.55E-04	3.93E-04	2.58E-04	3.65E-04	1.79E-04
2606	565070.9	4222268	0.006154	0.008138	2.92E-03	3.26E-03	8.92E-03	2.92E-03	8.08E-04	1.59E-03	9.54E-04	6.25E-04	8.85E-04	4.35E-04
2607	565072	4222277	0.006238	0.008249	2.96E-03	3.31E-03	9.04E-03	2.96E-03	8.19E-04	1.61E-03	9.67E-04	6.34E-04	8.97E-04	4.41E-04
2608	565073.1	4222286	0.006304	0.008337	2.99E-03	3.34E-03	9.14E-03	2.99E-03	8.28E-04	1.63E-03	9.77E-04	6.41E-04	9.07E-04	4.46E-04
2609	565076.3	4222313	0.006393	0.008454	3.03E-03	3.39E-03	9.27E-03	3.03E-03	8.40E-04	1.65E-03	9.91E-04	6.50E-04	9.20E-04	4.52E-04
2610	565062.6	4222252	0.005799	0.00767	2.75E-03	3.07E-03	8.41E-03	2.75E-03	7.62E-04	1.50E-03	8.99E-04	5.89E-04	8.34E-04	4.10E-04
2611	565067.9	4222235	0.005727	0.007574	2.71E-03	3.04E-03	8.30E-03	2.71E-03	7.52E-04	1.48E-03	8.88E-04	5.82E-04	8.24E-04	4.05E-04
2612	565073.1	4222219	0.005581	0.007381	2.64E-03	2.96E-03	8.09E-03	2.64E-03	7.33E-04	1.44E-03	8.65E-04	5.67E-04	8.03E-04	3.95E-04
2613	565083.6	4222185	0.005094	0.006737	2.41E-03	2.70E-03	7.39E-03	2.41E-03	6.69E-04	1.32E-03	7.90E-04	5.18E-04	7.33E-04	3.60E-04
2614	565088.9	4222168	0.00478	0.006321	2.26E-03	2.53E-03	6.93E-03	2.26E-03	6.28E-04	1.23E-03	7.41E-04	4.86E-04	6.88E-04	3.38E-04
2615	565094.1	4222151	0.004439	0.005871	2.10E-03	2.35E-03	6.44E-03	2.10E-03	5.83E-04	1.15E-03	6.88E-04	4.51E-04	6.39E-04	3.14E-04
2616	565099.4	4222134	0.004089	0.005408	1.94E-03	2.17E-03	5.93E-03	1.94E-03	5.37E-04	1.06E-03	6.34E-04	4.16E-04	5.88E-04	2.89E-04
2617	565109.8	4222100	0.003409	0.004508	1.62E-03	1.81E-03	4.94E-03	1.62E-03	4.48E-04	8.81E-04	5.28E-04	3.46E-04	4.90E-04	2.41E-04
2618	565123.1	4222080	0.00305	0.004034	1.45E-03	1.62E-03	4.42E-03	1.45E-03	4.01E-04	7.88E-04	4.73E-04	3.10E-04	4.39E-04	2.16E-04
2619	565131.2	4222076	0.003001	0.003969	1.42E-03	1.59E-03	4.35E-03	1.42E-03	3.94E-04	7.75E-04	4.65E-04	3.05E-04	4.32E-04	2.12E-04
2620	565147.3	4222069	0.002895	0.003829	1.37E-03	1.53E-03	4.20E-03	1.37E-03	3.80E-04	7.48E-04	4.49E-04	2.94E-04	4.16E-04	2.05E-04
2621	565179.5	4222054	0.002668	0.003528	1.26E-03	1.41E-03	3.87E-03	1.26E-03	3.50E-04	6.89E-04	4.14E-04	2.71E-04	3.84E-04	1.89E-04
2622	565195.6	4222047	0.002552	0.003375	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.35E-04	6.59E-04	3.96E-04	2.59E-04	3.67E-04	1.80E-04
2623	565211.7	4222040	0.002435	0.003221	1.15E-03	1.29E-03	3.53E-03	1.15E-03	3.20E-04	6.29E-04	3.78E-04	2.47E-04	3.50E-04	1.72E-04
2624	565061.1	4222270	0.005896	0.007798	2.79E-03	3.13E-03	8.55E-03	2.79E-03	7.74E-04	1.52E-03	9.14E-04	5.99E-04	8.48E-04	4.17E-04
2625	565062.2	4222279	0.005969	0.007895	2.83E-03	3.16E-03	8.65E-03	2.83E-03	7.84E-04	1.54E-03	9.25E-04	6.07E-04	8.59E-04	4.22E-04
2626	565063.3	4222288	0.006026	0.007969	2.85E-03	3.19E-03	8.74E-03	2.85E-03	7.91E-04	1.56E-03	9.34E-04	6.12E-04	8.67E-04	4.26E-04
2627	565064.4	4222297	0.006065	0.008021	2.87E-03	3.22E-03	8.79E-03	2.87E-03	7.96E-04	1.57E-03	9.40E-04	6.16E-04	8.72E-04	4.29E-04
2628	565065.5	4222305	0.006086	0.008049	2.88E-03	3.23E-03	8.82E-03	2.88E-03	7.99E-04	1.57E-03	9.44E-04	6.19E-04	8.76E-04	4.30E-04
2629	565066.6	4222314	0.006094	0.008059	2.89E-03	3.23E-03	8.84E-03	2.89E-03	8.00E-04	1.57E-03	9.45E-04	6.19E-04	8.77E-04	4.31E-04
2630	565067.7	4222323	0.006085	0.008047	2.88E-03	3.23E-03	8.82E-03	2.88E-03	7.99E-04	1.57E-03	9.43E-04	6.18E-04	8.75E-04	4.30E-04
2631	565052.9	4222254	0.005575	0.007373	2.64E-03	2.96E-03	8.08E-03	2.64E-03	7.32E-04	1.44E-03	8.64E-04	5.67E-04	8.02E-04	3.94E-04
2632	565058.1	4222237	0.00552	0.0073	2.62E-03	2.93E-03	8.00E-03	2.62E-03	7.25E-04	1.43E-03	8.56E-04	5.61E-04	7.94E-04	3.90E-04
2633	565063.3	4222220	0.005397	0.007138	2.56E-03	2.86E-03	7.82E-03	2.56E-03	7.09E-04	1.39E-03	8.37E-04	5.48E-04	7.76E-04	3.82E-04
2634	565068.5	4222203	0.00521	0.00689	2.47E-03	2.76E-03	7.55E-03	2.47E-03	6.84E-04	1.35E-03	8.08E-04	5.29E-04	7.49E-04	3.68E-04
2635	565079	4222169	0.004684	0.006195	2.22E-03	2.48E-03	6.79E-03	2.22E-03	6.15E-04	1.21E-03	7.26E-04	4.76E-04	6.74E-04	3.31E-04
2636	565084.2	4222153	0.004372	0.005782	2.07E-03	2.32E-03	6.34E-03	2.07E-03	5.74E-04	1.13E-03	6.78E-04	4.44E-04	6.29E-04	3.09E-04

2637	565089.4	4222136	0.004046	0.005351	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.31E-04	1.05E-03	6.27E-04	4.11E-04	5.82E-04	2.86E-04
2638	565099.9	4222102	0.003402	0.004499	1.61E-03	1.80E-03	4.93E-03	1.61E-03	4.47E-04	8.79E-04	5.27E-04	3.46E-04	4.89E-04	2.41E-04
2639	565105.1	4222085	0.003101	0.004101	1.47E-03	1.64E-03	4.50E-03	1.47E-03	4.07E-04	8.01E-04	4.81E-04	3.15E-04	4.46E-04	2.19E-04
2640	565115.7	4222073	0.002915	0.003855	1.38E-03	1.55E-03	4.23E-03	1.38E-03	3.83E-04	7.53E-04	4.52E-04	2.96E-04	4.19E-04	2.06E-04
2641	565131.8	4222066	0.00282	0.00373	1.34E-03	1.50E-03	4.09E-03	1.34E-03	3.70E-04	7.29E-04	4.37E-04	2.87E-04	4.06E-04	1.99E-04
2642	565147.8	4222059	0.002718	0.003594	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
2643	565179.9	4222044	0.002503	0.00331	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.47E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
2644	565195.9	4222037	0.002395	0.003168	1.13E-03	1.27E-03	3.47E-03	1.13E-03	3.15E-04	6.19E-04	3.71E-04	2.43E-04	3.45E-04	1.69E-04
2645	565212	4222030	0.002288	0.003025	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.00E-04	5.91E-04	3.55E-04	2.32E-04	3.29E-04	1.62E-04
2646	565051.3	4222271	0.005655	0.007479	2.68E-03	3.00E-03	8.20E-03	2.68E-03	7.43E-04	1.46E-03	8.77E-04	5.75E-04	8.13E-04	4.00E-04
2647	565052.4	4222280	0.005718	0.007562	2.71E-03	3.03E-03	8.29E-03	2.71E-03	7.51E-04	1.48E-03	8.86E-04	5.81E-04	8.23E-04	4.04E-04
2648	565053.5	4222289	0.005766	0.007626	2.73E-03	3.06E-03	8.36E-03	2.73E-03	7.57E-04	1.49E-03	8.94E-04	5.86E-04	8.29E-04	4.08E-04
2649	565055.7	4222307	0.005814	0.007689	2.75E-03	3.08E-03	8.43E-03	2.75E-03	7.64E-04	1.50E-03	9.01E-04	5.91E-04	8.36E-04	4.11E-04
2650	565056.8	4222316	0.005817	0.007693	2.76E-03	3.08E-03	8.43E-03	2.76E-03	7.64E-04	1.50E-03	9.02E-04	5.91E-04	8.37E-04	4.11E-04
2651	565057.9	4222325	0.005804	0.007676	2.75E-03	3.08E-03	8.41E-03	2.75E-03	7.62E-04	1.50E-03	9.00E-04	5.90E-04	8.35E-04	4.10E-04
2652	565043.1	4222255	0.005363	0.007093	2.54E-03	2.84E-03	7.78E-03	2.54E-03	7.04E-04	1.39E-03	8.31E-04	5.45E-04	7.71E-04	3.79E-04
2653	565048.3	4222238	0.005323	0.007039	2.52E-03	2.82E-03	7.72E-03	2.52E-03	6.99E-04	1.38E-03	8.25E-04	5.41E-04	7.66E-04	3.76E-04
2654	565053.5	4222221	0.00522	0.006904	2.47E-03	2.77E-03	7.57E-03	2.47E-03	6.86E-04	1.35E-03	8.09E-04	5.31E-04	7.51E-04	3.69E-04
2655	565058.7	4222204	0.005058	0.00669	2.40E-03	2.68E-03	7.33E-03	2.40E-03	6.64E-04	1.31E-03	7.84E-04	5.14E-04	7.28E-04	3.58E-04
2656	565069.1	4222171	0.004587	0.006066	2.17E-03	2.43E-03	6.65E-03	2.17E-03	6.02E-04	1.18E-03	7.11E-04	4.66E-04	6.60E-04	3.24E-04
2657	565074.3	4222154	0.004301	0.005687	2.04E-03	2.28E-03	6.23E-03	2.04E-03	5.65E-04	1.11E-03	6.67E-04	4.37E-04	6.19E-04	3.04E-04
2658	565079.5	4222137	0.003998	0.005287	1.89E-03	2.12E-03	5.80E-03	1.89E-03	5.25E-04	1.03E-03	6.20E-04	4.06E-04	5.75E-04	2.83E-04
2659	565095.1	4222087	0.003101	0.004101	1.47E-03	1.64E-03	4.50E-03	1.47E-03	4.07E-04	8.01E-04	4.81E-04	3.15E-04	4.46E-04	2.19E-04
2660	565108.3	4222067	0.002789	0.003688	1.32E-03	1.48E-03	4.04E-03	1.32E-03	3.66E-04	7.20E-04	4.32E-04	2.83E-04	4.01E-04	1.97E-04
2661	565124.3	4222060	0.0027	0.003571	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.55E-04	6.98E-04	4.19E-04	2.74E-04	3.88E-04	1.91E-04
2662	565140.3	4222052	0.002604	0.003444	1.23E-03	1.38E-03	3.78E-03	1.23E-03	3.42E-04	6.73E-04	4.04E-04	2.65E-04	3.75E-04	1.84E-04
2663	565172.3	4222038	0.002403	0.003178	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.16E-04	6.21E-04	3.72E-04	2.44E-04	3.46E-04	1.70E-04
2664	565188.2	4222031	0.002302	0.003044	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.02E-04	5.95E-04	3.57E-04	2.34E-04	3.31E-04	1.63E-04
2665	565204.2	4222024	0.002202	0.002912	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.69E-04	3.41E-04	2.24E-04	3.17E-04	1.56E-04
2666	565041.6	4222272	0.005428	0.007179	2.57E-03	2.88E-03	7.87E-03	2.57E-03	7.13E-04	1.40E-03	8.41E-04	5.52E-04	7.81E-04	3.84E-04
2667	565042.7	4222281	0.005483	0.007251	2.60E-03	2.91E-03	7.95E-03	2.60E-03	7.20E-04	1.42E-03	8.50E-04	5.57E-04	7.89E-04	3.88E-04
2668	565043.8	4222290	0.005523	0.007304	2.62E-03	2.93E-03	8.01E-03	2.62E-03	7.25E-04	1.43E-03	8.56E-04	5.61E-04	7.94E-04	3.91E-04
2669	565044.8	4222299	0.005549	0.007339	2.63E-03	2.94E-03	8.05E-03	2.63E-03	7.29E-04	1.43E-03	8.60E-04	5.64E-04	7.98E-04	3.92E-04
2670	565045.9	4222308	0.005561	0.007354	2.63E-03	2.95E-03	8.06E-03	2.63E-03	7.30E-04	1.44E-03	8.62E-04	5.65E-04	8.00E-04	3.93E-04
2671	565047	4222317	0.005559	0.007351	2.63E-03	2.95E-03	8.06E-03	2.63E-03	7.30E-04	1.44E-03	8.62E-04	5.65E-04	8.00E-04	3.93E-04
2672	565048.1	4222326	0.005542	0.00733	2.63E-03	2.94E-03	8.04E-03	2.63E-03	7.28E-04	1.43E-03	8.59E-04	5.63E-04	7.97E-04	3.92E-04
2673	565033.3	4222256	0.005162	0.006827	2.45E-03	2.74E-03	7.48E-03	2.45E-03	6.78E-04	1.33E-03	8.00E-04	5.25E-04	7.43E-04	3.65E-04
2674	565038.5	4222239	0.005135	0.006791	2.43E-03	2.72E-03	7.44E-03	2.43E-03	6.74E-04	1.33E-03	7.96E-04	5.22E-04	7.39E-04	3.63E-04
2675	565043.7	4222223	0.00505	0.006679	2.39E-03	2.68E-03	7.32E-03	2.39E-03	6.63E-04	1.30E-03	7.83E-04	5.13E-04	7.26E-04	3.57E-04
2676	565048.9	4222206	0.00491	0.006494	2.33E-03	2.60E-03	7.12E-03	2.33E-03	6.45E-04	1.27E-03	7.61E-04	4.99E-04	7.06E-04	3.47E-04
2677	565059.3	4222172	0.004488	0.005936	2.13E-03	2.38E-03	6.51E-03	2.13E-03	5.89E-04	1.16E-03	6.96E-04	4.56E-04	6.46E-04	3.17E-04
2678	565064.4	4222156	0.004226	0.005589	2.00E-03	2.24E-03	6.13E-03	2.00E-03	5.55E-04	1.09E-03	6.55E-04	4.30E-04	6.08E-04	2.99E-04
2679	565069.6	4222139	0.003946	0.005219	1.87E-03	2.09E-03	5.72E-03	1.87E-03	5.18E-04	1.02E-03	6.12E-04	4.01E-04	5.68E-04	2.79E-04
2680	565074.8	4222122	0.003658	0.004838	1.73E-03	1.94E-03	5.30E-03	1.73E-03	4.80E-04	9.45E-04	5.67E-04	3.72E-04	5.26E-04	2.59E-04
2681	565090.4	4222072	0.002834	0.003748	1.34E-03	1.50E-03	4.11E-03	1.34E-03	3.72E-04	7.32E-04	4.39E-04	2.88E-04	4.08E-04	2.00E-04
2682	565100.9	4222060	0.002671	0.003533	1.27E-03	1.42E-03	3.87E-03	1.27E-03	3.51E-04	6.90E-04	4.14E-04	2.71E-04	3.84E-04	1.89E-04
2683	565116.9	4222053	0.002588	0.003423	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.69E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
2684	565132.8	4222046	0.002498	0.003304	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.45E-04	3.87E-04	2.54E-04	3.59E-04	1.77E-04
2685	565148.7	4222039	0.002404	0.00318	1.14E-03	1.27E-03	3.49E-03	1.14E-03	3.16E-04	6.21E-04	3.73E-04	2.44E-04	3.46E-04	1.70E-04
2686	565180.6	4222024	0.002214	0.002928	1.05E-03	1.17E-03	3.21E-03	1.05E-03	2.91E-04	5.72E-04	3.43E-04	2.25E-04	3.18E-04	1.57E-04
2687	565196.5	4222017	0.00212	0.002804	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.48E-04	3.29E-04	2.15E-04	3.05E-04	1.50E-04
2688	565212.4	4222010	0.00203	0.002685	9.62E-04	1.08E-03	2.94E-03	9.62E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
2689	565031.8	4222273	0.005215	0.006897	2.47E-03	2.76E-03	7.56E-03	2.47E-03	6.85E-04	1.35E-03	8.08E-04	5.30E-04	7.50E-04	3.69E-04
2690	565032.9	4222282	0.005262	0.006959	2.49E-03	2.79E-03	7.63E-03	2.49E-03	6.91E-04	1.36E-03	8.16E-04	5.35E-04	7.57E-04	3.72E-04
2691	565034	4222291	0.005296	0.007004	2.51E-03	2.81E-03	7.68E-03	2.51E-03	6.96E-04	1.37E-03	8.21E-04	5.38E-04	7.62E-04	3.75E-04
2692	565035.1	4222300	0.005317	0.007031	2.52E-03	2.82E-03	7.71E-03	2.52E-03	6.98E-04	1.37E-03	8.24E-04	5.40E-04	7.65E-04	3.76E-04
2693	565036.2	4222309	0.005324	0.007041	2.52E-03	2.82E-03	7.72E-03	2.52E-03	6.99E-04	1.38E-03	8.25E-04	5.41E-04	7.66E-04	3.77E-04
2694	565037.3	4222318	0.005319	0.007034	2.52E-03	2.82E-03	7.71E-03	2.52E-03	6.99E-04	1.37E-03	8.25E-04	5.41E-04	7.65E-04	3.76E-04
2695	565038.4	4222327	0.0053	0.007009	2.51E-03	2.81E-03	7.68E-03	2.51E-03	6.96E-04	1.37E-03	8.22E-04	5.39E-04	7.62E-04	3.75E-04
2696	565023.5	4222257	0.004973	0.006576	2.36E-03	2.64E-03	7.21E-03	2.36E-03	6.53E-04	1.28E-03	7.71E-04	5.05E-04	7.15E-04	3.52E-04
2697	565028.7	4222241	0.004956	0.006555	2.35E-03	2.63E-03	7.19E-03	2.35E-03	6.51E-04	1.28E-03	7.68E-04	5.04E-04	7.13E-04	3.51E-04
2698	565033.9	4222224	0.004887	0.006463	2.32E-03	2.59E-03	7.09E-03	2.32E-03	6.42E-04	1.26E-03	7.58E-04	4.97E-04	7.03E-04	3.46E-04
2699	565039.1	4222207	0.004766	0.006303	2.26E-03	2.53E-03	6.91E-03	2.26E-03	6.26E-04	1.23E-03	7.39E-04	4.84E-04	6.86E-04	3.37E-04
2700	565049.4	4222174	0.004389	0.005805	2.08E-03	2.33E-03	6.36E-03	2.08E-03	5.76E-04	1.13E-03	6.80E-04	4.46E-04	6.31E-04	3.10E-04
2701	565054.6	4222157	0.00415	0.005489	1.97E-03	2.20E-03	6.02E-03	1.97E-03	5.45E-04	1.07E-03	6.43E-04	4.22E-04	5.97E-04	2.94E-04
2702	565059.7	4222141	0.003891	0.005146	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.01E-03	6.03E-04	3.95E-04	5.60E-04	2.75E-04
2703	565064.9	4222124	0.003622	0.00479	1.72E-03	1.92E-03	5.25E-03	1.72E-03	4.76E-04	9.36E-04	5.61E-04	3.68E-04	5.21E-04	2.56E-04
2704	565075.3	4222091	0.003087	0.004083	1.46E-03	1.64E-03	4.48E-03	1.46E-03	4.05E-04	7.98E-04	4.79E-04	3.14E-04	4.44E-04	2.18E-04
2705	565093.5	4222054	0.002562	0.003388	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.62E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
2706	565109.4	4222047	0.002483	0.003284	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.42E-04	3.85E-04	2.52E-04	3.57E-04	1.76E-04
2707	565125.3	4222040	0.002399	0.003173	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.20E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
2708	565141.2	4222032	0.002311	0.003056	1.09E-03	1.23E-03	3.35E-03	1.09E-03	3.04E-04	5.97E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
2709	565172.9	4222018	0.002132	0.002819	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.51E-04	3.30E-04	2.17E-04	3.07E-04	1.51E-04
2710	565188.8	4222011	0.002044	0.002703	9.68E-04	1.08E-03	2.96E-03	9.68E-04	2.68E-04	5.28E-04	3.17E-04	2.08E-04	2.94E-04	1.45E-04
2711	565204.7	4222004	0.001959	0.002591	9.28E-04	1.04E-03	2.84E-03	9.28E-04	2.57E-04	5.06E-04	3.04E-04	1.99E-04	2.82E-04	1.39E-04
2712	565022	4222274	0.005014	0.00663	2.38E-03	2.66E-03	7.27E-03	2.38E-03	6.58E-04	1.30E-03	7.77E-04	5.10E-04	7.21E-04	3.55E-04
2713	565023.1	4222283	0.005054	0.006684	2.39E-03	2.68E-03	7.33E-03	2.39E-03	6.64E-04	1.31E-03	7.83E-04	5.14E-04	7.27E-04	3.57E-04
2714	565024.2	4222292	0.005083	0.006722	2.41E-03	2.69E-03	7.37E-03	2.41E-03	6.67E-04	1.31E-03	7.88E-04	5.17E-04	7.31E-04	3.59E-04
2715	565025.3	4222301	0.005099	0.006743	2.42E-03	2.70E-03	7.39E-03	2.42E-03	6.70E-04	1.32E-03	7.90E-04	5.18E-04	7.33E-04	3.61E-04
2716	565027.5	4222319	0.005095	0.006738	2.41E-03	2.70E-03	7.39E-03	2.41E-03	6.69E-04	1.32E-03	7.90E-04	5.18E-04	7.33E-04	3.60E-04
2717	565028.6	4222328	0.005075	0.006712	2.40E-03	2.69E-03	7.36E-03	2.40E-03	6.67E-04	1.31E-03	7.87E-04	5.16E-04	7.30E-04	3.59E-04
2718	565013.8	4222258	0.004793	0.006338	2.27E-03	2.54E-03	6.95E-03	2.27E-03	6.29E-04	1.24E-03	7.43E-04	4.87E-04	6.89E-04	3.39E-04
2719	565018.9	4222242	0.004786	0.006329	2.27E-03	2.54E-03	6.94E-03	2.27E-03	6.29E-04	1.24E-03	7.42E-04	4.86E-04	6.88E-04	3.38E-04
2720	565024.1	4222225	0.00473	0.006256	2.24E-03	2.51E-03	6.86E-03	2.24E-03	6.21E-04	1.22E-03	7.33E-04	4.81E-04	6.80E-04	3.35E-04
2721	565029.2	4222209	0.004626	0.006118	2.19E-03	2.45E-03	6.71E-03	2.19E-03	6.08E-04	1.20E-03	7.17E-04	4.70E-04	6.65E-04	3.27E-04
2722	565039.6	4222175	0.004291	0.005674	2.03E-03	2.27E-03	6.22E-03	2.03E-03	5.63E-04	1.11E-03	6.65E-04	4.36E-04	6.17E-04	3.03E-04
2723	565044.7	4222159	0.004072	0.005386	1.93E-03	2.16E-03	5.90E-03	1.93E-03	5.35E-04	1.05E-03	6.31E-04	4.14E-04	5.86E-04	2.88E-04
2724	565049.9	4222142	0.003833	0.005069	1.82E-03	2.03E-03	5.56E-03	1.82E-03	5.03E-04	9.90E-04	5.94E-04	3.90E-04	5.51E-04	2.71E-04
2725	565055	4222126	0.003581	0.004736	1.70E-03	1.90E-03	5.19E-03	1.70E-03	4.70E-04	9.25E-04	5.55E-04	3.64E-04	5.15E-04	2.53E-04
2726	565065.3	4222092	0.003074	0.004066	1.46E-03	1.63E-03	4.46E-03	1.46E-03	4.04E-04	7.94E-04	4.77E-04	3.12E-04	4.42E-04	2.17E-04
2727	565070.5	4222076	0.002832	0.003745	1.34E-03	1.50E-03	4.11E-03	1.34E-03	3.72E-04	7.32E-04	4.39E-04	2.88E-04	4.07E-04	2.00E-04

2728	565075.6	4222059	0.002603	0.003442	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.42E-04	6.72E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
2729	565102	4222040	0.002385	0.003154	1.13E-03	1.26E-03	3.46E-03	1.13E-03	3.13E-04	6.16E-04	3.70E-04	2.42E-04	3.43E-04	1.69E-04
2730	565117.8	4222033	0.002306	0.003049	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.03E-04	5.96E-04	3.57E-04	2.34E-04	3.32E-04	1.63E-04
2731	565133.6	4222026	0.002223	0.00294	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
2732	565149.5	4222019	0.002139	0.002829	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
2733	565181.1	4222004	0.001972	0.002608	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
2734	565197	4221997	0.001892	0.002502	8.96E-04	1.00E-03	2.74E-03	8.96E-04	2.48E-04	4.89E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
2735	565012.3	4222276	0.004824	0.00638	2.29E-03	2.56E-03	6.99E-03	2.29E-03	6.34E-04	1.25E-03	7.48E-04	4.90E-04	6.94E-04	3.41E-04
2736	565013.4	4222285	0.004858	0.006425	2.30E-03	2.58E-03	7.04E-03	2.30E-03	6.38E-04	1.26E-03	7.53E-04	4.94E-04	6.99E-04	3.44E-04
2737	565014.5	4222294	0.004882	0.006456	2.31E-03	2.59E-03	7.08E-03	2.31E-03	6.41E-04	1.26E-03	7.57E-04	4.96E-04	7.02E-04	3.45E-04
2738	565015.5	4222302	0.004894	0.006473	2.32E-03	2.59E-03	7.10E-03	2.32E-03	6.43E-04	1.26E-03	7.59E-04	4.97E-04	7.04E-04	3.46E-04
2739	565016.6	4222311	0.004895	0.006474	2.32E-03	2.60E-03	7.10E-03	2.32E-03	6.43E-04	1.26E-03	7.59E-04	4.97E-04	7.04E-04	3.46E-04
2740	565004.1	4222259	0.004622	0.006113	2.19E-03	2.45E-03	6.70E-03	2.19E-03	6.07E-04	1.19E-03	7.17E-04	4.70E-04	6.65E-04	3.27E-04
2741	565006.8	4222251	0.004628	0.006121	2.19E-03	2.45E-03	6.71E-03	2.19E-03	6.08E-04	1.20E-03	7.17E-04	4.70E-04	6.66E-04	3.27E-04
2742	565012.1	4222233	0.004604	0.006088	2.18E-03	2.44E-03	6.67E-03	2.18E-03	6.05E-04	1.19E-03	7.14E-04	4.68E-04	6.62E-04	3.26E-04
2743	565017.4	4222216	0.00453	0.005991	2.15E-03	2.40E-03	6.57E-03	2.15E-03	5.95E-04	1.17E-03	7.02E-04	4.60E-04	6.52E-04	3.20E-04
2744	565033.5	4222165	0.00405	0.005355	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.32E-04	1.05E-03	6.28E-04	4.12E-04	5.83E-04	2.86E-04
2745	565038.8	4222148	0.003825	0.005059	1.81E-03	2.03E-03	5.55E-03	1.81E-03	5.02E-04	9.88E-04	5.93E-04	3.89E-04	5.50E-04	2.71E-04
2746	565044.1	4222130	0.003584	0.004739	1.70E-03	1.90E-03	5.20E-03	1.70E-03	4.71E-04	9.26E-04	5.56E-04	3.64E-04	5.15E-04	2.53E-04
2747	565054.8	4222096	0.003085	0.004081	1.46E-03	1.64E-03	4.47E-03	1.46E-03	4.05E-04	7.97E-04	4.78E-04	3.14E-04	4.44E-04	2.18E-04
2748	565060.2	4222079	0.002843	0.00376	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.35E-04	4.41E-04	2.89E-04	4.09E-04	2.01E-04
2749	565062.8	4222070	0.002726	0.003605	1.29E-03	1.45E-03	3.95E-03	1.29E-03	3.58E-04	7.04E-04	4.23E-04	2.77E-04	3.92E-04	1.93E-04
2750	565068.2	4222053	0.002502	0.003309	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
2751	565095.4	4222033	0.002289	0.003027	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.01E-04	5.91E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
2752	565103.6	4222030	0.002251	0.002976	1.07E-03	1.19E-03	3.26E-03	1.07E-03	2.96E-04	5.81E-04	3.49E-04	2.29E-04	3.24E-04	1.59E-04
2753	565120	4222022	0.002171	0.002871	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.85E-04	5.61E-04	3.37E-04	2.21E-04	3.12E-04	1.54E-04
2754	565136.4	4222015	0.002089	0.002763	9.90E-04	1.11E-03	3.03E-03	9.90E-04	2.74E-04	5.40E-04	3.24E-04	2.12E-04	3.01E-04	1.48E-04
2755	565152.8	4222007	0.002007	0.002654	9.51E-04	1.06E-03	2.91E-03	9.51E-04	2.64E-04	5.18E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
2756	565177.4	4221996	0.001885	0.002493	8.93E-04	9.99E-04	2.73E-03	8.93E-04	2.48E-04	4.87E-04	2.92E-04	1.92E-04	2.71E-04	1.33E-04
2757	565193.8	4221989	0.001807	0.00239	8.56E-04	9.58E-04	2.62E-03	8.56E-04	2.37E-04	4.67E-04	2.80E-04	1.84E-04	2.60E-04	1.28E-04
2758	565202	4221985	0.00177	0.002341	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.55E-04	1.25E-04
2759	565002.5	4222277	0.004645	0.006143	2.20E-03	2.46E-03	6.73E-03	2.20E-03	6.10E-04	1.20E-03	7.20E-04	4.72E-04	6.68E-04	3.28E-04
2760	565003.6	4222286	0.004674	0.006182	2.21E-03	2.48E-03	6.78E-03	2.21E-03	6.14E-04	1.21E-03	7.25E-04	4.75E-04	6.72E-04	3.31E-04
2761	565005.8	4222304	0.004702	0.006219	2.23E-03	2.49E-03	6.82E-03	2.23E-03	6.18E-04	1.21E-03	7.29E-04	4.78E-04	6.76E-04	3.33E-04
2762	565006.9	4222313	0.004701	0.006217	2.23E-03	2.49E-03	6.82E-03	2.23E-03	6.17E-04	1.21E-03	7.29E-04	4.78E-04	6.76E-04	3.32E-04
2763	564994.3	4222260	0.004461	0.005899	2.11E-03	2.36E-03	6.47E-03	2.11E-03	5.86E-04	1.15E-03	6.91E-04	4.53E-04	6.42E-04	3.15E-04
2764	564999.6	4222243	0.004467	0.005908	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.15E-03	6.93E-04	4.54E-04	6.43E-04	3.16E-04
2765	565005	4222226	0.00443	0.005859	2.10E-03	2.35E-03	6.42E-03	2.10E-03	5.82E-04	1.14E-03	6.87E-04	4.50E-04	6.37E-04	3.13E-04
2766	565015.6	4222192	0.004223	0.005585	2.00E-03	2.24E-03	6.12E-03	2.00E-03	5.55E-04	1.09E-03	6.55E-04	4.29E-04	6.07E-04	2.99E-04
2767	565020.9	4222175	0.00406	0.00537	1.92E-03	2.15E-03	5.89E-03	1.92E-03	5.33E-04	1.05E-03	6.29E-04	4.13E-04	5.84E-04	2.87E-04
2768	565026.2	4222158	0.003867	0.005114	1.83E-03	2.05E-03	5.61E-03	1.83E-03	5.08E-04	9.99E-04	5.99E-04	3.93E-04	5.56E-04	2.73E-04
2769	565028.9	4222149	0.003761	0.004974	1.78E-03	1.99E-03	5.45E-03	1.78E-03	4.94E-04	9.72E-04	5.83E-04	3.82E-04	5.41E-04	2.66E-04
2770	565034.2	4222132	0.003537	0.004678	1.68E-03	1.88E-03	5.13E-03	1.68E-03	4.65E-04	9.14E-04	5.48E-04	3.59E-04	5.09E-04	2.50E-04
2771	565044.9	4222098	0.003068	0.004057	1.45E-03	1.63E-03	4.45E-03	1.45E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.41E-04	2.17E-04
2772	565050.2	4222081	0.002836	0.003751	1.34E-03	1.50E-03	4.11E-03	1.34E-03	3.73E-04	7.33E-04	4.40E-04	2.88E-04	4.08E-04	2.01E-04
2773	565055.5	4222064	0.002614	0.003457	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.66E-04	3.76E-04	1.85E-04
2774	565060.8	4222046	0.002403	0.003179	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.16E-04	6.21E-04	3.73E-04	2.44E-04	3.46E-04	1.70E-04
2775	565071.6	4222034	0.002271	0.003004	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.87E-04	3.52E-04	2.31E-04	3.27E-04	1.61E-04
2776	565096.1	4222023	0.002167	0.002865	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
2777	565112.5	4222016	0.002092	0.002766	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
2778	565120.7	4222012	0.002054	0.002716	9.73E-04	1.09E-03	2.98E-03	9.73E-04	2.70E-04	5.31E-04	3.18E-04	2.09E-04	2.95E-04	1.45E-04
2779	565137	4222005	0.001976	0.002614	9.36E-04	1.05E-03	2.87E-03	9.36E-04	2.60E-04	5.11E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
2780	565153.3	4221997	0.001899	0.002511	9.00E-04	1.01E-03	2.75E-03	9.00E-04	2.49E-04	4.91E-04	2.94E-04	1.93E-04	2.73E-04	1.34E-04
2781	565177.8	4221986	0.001786	0.002362	8.46E-04	9.47E-04	2.59E-03	8.46E-04	2.35E-04	4.61E-04	2.77E-04	1.81E-04	2.57E-04	1.26E-04
2782	565194.2	4221979	0.001714	0.002267	8.12E-04	9.09E-04	2.48E-03	8.12E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
2783	565202.3	4221975	0.00168	0.002222	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.60E-04	1.71E-04	2.42E-04	1.19E-04
2784	564992.7	4222278	0.004475	0.005919	2.12E-03	2.37E-03	6.49E-03	2.12E-03	5.88E-04	1.16E-03	6.94E-04	4.55E-04	6.44E-04	3.17E-04
2785	564993.8	4222287	0.0045	0.005952	2.13E-03	2.39E-03	6.52E-03	2.13E-03	5.91E-04	1.16E-03	6.98E-04	4.57E-04	6.47E-04	3.18E-04
2786	564994.9	4222296	0.004516	0.005972	2.14E-03	2.39E-03	6.55E-03	2.14E-03	5.93E-04	1.17E-03	7.00E-04	4.59E-04	6.50E-04	3.19E-04
2787	564996	4222305	0.004521	0.00598	2.14E-03	2.40E-03	6.56E-03	2.14E-03	5.94E-04	1.17E-03	7.01E-04	4.59E-04	6.50E-04	3.20E-04
2788	564984.5	4222262	0.004307	0.005696	2.04E-03	2.28E-03	6.24E-03	2.04E-03	5.66E-04	1.11E-03	6.68E-04	4.38E-04	6.20E-04	3.05E-04
2789	564989.8	4222245	0.00432	0.005713	2.05E-03	2.29E-03	6.26E-03	2.05E-03	5.67E-04	1.12E-03	6.70E-04	4.39E-04	6.21E-04	3.06E-04
2790	565005.7	4222193	0.004114	0.005441	1.95E-03	2.18E-03	5.96E-03	1.95E-03	5.40E-04	1.06E-03	6.38E-04	4.18E-04	5.92E-04	2.91E-04
2791	565011	4222176	0.003968	0.005248	1.88E-03	2.10E-03	5.75E-03	1.88E-03	5.21E-04	1.03E-03	6.15E-04	4.03E-04	5.71E-04	2.81E-04
2792	565016.3	4222159	0.003793	0.005016	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.98E-04	9.80E-04	5.88E-04	3.85E-04	5.46E-04	2.68E-04
2793	565021.6	4222142	0.003594	0.004753	1.70E-03	1.91E-03	5.21E-03	1.70E-03	4.72E-04	9.28E-04	5.57E-04	3.65E-04	5.17E-04	2.54E-04
2794	565026.9	4222125	0.00338	0.00447	1.60E-03	1.79E-03	4.90E-03	1.60E-03	4.44E-04	8.73E-04	5.24E-04	3.44E-04	4.86E-04	2.39E-04
2795	565037.6	4222091	0.002936	0.003883	1.39E-03	1.56E-03	4.26E-03	1.39E-03	3.86E-04	7.59E-04	4.55E-04	2.98E-04	4.22E-04	2.08E-04
2796	565042.9	4222074	0.002718	0.003595	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
2797	565048.2	4222057	0.002509	0.003318	1.19E-03	1.33E-03	3.64E-03	1.19E-03	3.29E-04	6.48E-04	3.89E-04	2.55E-04	3.61E-04	1.77E-04
2798	565053.5	4222040	0.002311	0.003056	1.09E-03	1.23E-03	3.35E-03	1.09E-03	3.04E-04	5.97E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
2799	565064.2	4222028	0.002187	0.002892	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.15E-04	1.55E-04
2800	565104.9	4222009	0.002017	0.002668	9.56E-04	1.07E-03	2.92E-03	9.56E-04	2.65E-04	5.21E-04	3.13E-04	2.05E-04	2.90E-04	1.43E-04
2801	565113.1	4222006	0.001981	0.00262	9.39E-04	1.05E-03	2.87E-03	9.39E-04	2.60E-04	5.12E-04	3.07E-04	2.01E-04	2.85E-04	1.40E-04
2802	565129.4	4221998	0.001908	0.002524	9.04E-04	1.01E-03	2.77E-03	9.04E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
2803	565137.5	4221995	0.001872	0.002476	8.87E-04	9.92E-04	2.71E-03	8.87E-04	2.46E-04	4.84E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
2804	565170	4221980	0.001729	0.002287	8.19E-04	9.17E-04	2.51E-03	8.19E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
2805	565178.2	4221976	0.001695	0.002241	8.03E-04	8.98E-04	2.46E-03	8.03E-04	2.23E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
2806	565194.5	4221969	0.001628	0.002153	7.71E-04	8.63E-04	2.36E-03	7.71E-04	2.14E-04	4.21E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
2807	565202.6	4221965	0.001596	0.002111	7.56E-04	8.46E-04	2.31E-03	7.56E-04	2.10E-04	4.12E-04	2.47E-04	1.62E-04	2.30E-04	1.13E-04
2808	564983	4222279	0.004315	0.005707	2.04E-03	2.29E-03	6.26E-03	2.04E-03	5.67E-04	1.11E-03	6.69E-04	4.39E-04	6.21E-04	3.05E-04
2809	564984.1	4222288	0.004336	0.005734	2.05E-03	2.30E-03	6.29E-03	2.05E-03	5.69E-04	1.12E-03	6.72E-04	4.41E-04	6.24E-04	3.07E-04
2810	564987.3	4222315	0.004345	0.005747	2.06E-03	2.30E-03	6.30E-03	2.06E-03	5.71E-04	1.12E-03	6.74E-04	4.42E-04	6.25E-04	3.07E-04
2811	564988.4	4222324	0.004331	0.005728	2.05E-03	2.30E-03	6.28E-03	2.05E-03	5.69E-04	1.12E-03	6.71E-04	4.40E-04	6.23E-04	3.06E-04
2812	564989.5	4222333	0.004308	0.005698	2.04E-03	2.28E-03	6.25E-03	2.04E-03	5.66E-04	1.11E-03	6.68E-04	4.38E-04	6.20E-04	3.05E-04
2813	564975.2	4222230	0.004029	0.005329	1.91E-03	2.14E-03	5.84E-03	1.91E-03	5.29E-04	1.04E-03	6.25E-04	4.09E-04	5.80E-04	2.85E-04
2814	564985.8	4222196	0.0039	0.005157	1.85E-03	2.07E-03	5.65E-03	1.85E-03	5.12E-04	1.01E-03	6.04E-04	3.96E-04	5.61E-04	2.76E-04
2815	564991	4222179	0.003784	0.005004	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.78E-04	5.87E-04	3.85E-04	5.44E-04	2.68E-04
2816	564996.3	4222162	0.00364	0.004813	1.72E-03	1.93E-03	5.28E-03	1.72E-03	4.78E-04	9.40E-04	5.64E-04	3.70E-04	5.24E-04	2.57E-04
2817	565001.6	4222145	0.003472	0.004592	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.97E-04	5.38E-04	3.53E-04	4.99E-04	2.46E-04
2818	565006.9	4222128	0.003288	0.004348	1.56E-03	1.74E-03	4.77E-03	1.56E-03	4.32E-04	8.49E-04	5.10E-04	3.34E-04	4.73E-04	2.33E-04

2819	565017.4	4222095	0.002893	0.003826	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.80E-04	7.47E-04	4.49E-04	2.94E-04	4.16E-04	2.05E-04
2820	565022.7	4222078	0.002695	0.003564	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.96E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
2821	565027.9	4222061	0.002501	0.003308	1.18E-03	1.33E-03	3.63E-03	1.18E-03	3.28E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
2822	565033.2	4222044	0.002316	0.003062	1.10E-03	1.23E-03	3.36E-03	1.10E-03	3.04E-04	5.98E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
2823	565038.5	4222027	0.00214	0.00283	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
2824	565049.2	4222015	0.002029	0.002684	9.61E-04	1.08E-03	2.94E-03	9.61E-04	2.66E-04	5.24E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
2825	565065.4	4222007	0.001971	0.002607	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
2826	565089.7	4221996	0.001878	0.002483	8.89E-04	9.95E-04	2.72E-03	8.89E-04	2.47E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
2827	565105.9	4221989	0.001814	0.002398	8.59E-04	9.62E-04	2.63E-03	8.59E-04	2.38E-04	4.69E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
2828	565114	4221985	0.001781	0.002355	8.44E-04	9.44E-04	2.58E-03	8.44E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
2829	565130.2	4221978	0.001716	0.00227	8.13E-04	9.10E-04	2.49E-03	8.13E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
2830	565138.2	4221974	0.001684	0.002227	7.98E-04	8.93E-04	2.44E-03	7.98E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
2831	565170.6	4221960	0.00156	0.002063	7.39E-04	8.27E-04	2.26E-03	7.39E-04	2.05E-04	4.03E-04	2.42E-04	1.59E-04	2.24E-04	1.10E-04
2832	565186.8	4221952	0.001502	0.001986	7.11E-04	7.96E-04	2.18E-03	7.11E-04	1.97E-04	3.88E-04	2.33E-04	1.53E-04	2.16E-04	1.06E-04
2833	565194.9	4221949	0.001474	0.001949	6.98E-04	7.81E-04	2.14E-03	6.98E-04	1.94E-04	3.81E-04	2.28E-04	1.50E-04	2.12E-04	1.04E-04
2834	564964.2	4222291	0.004029	0.005328	1.91E-03	2.14E-03	5.84E-03	1.91E-03	5.29E-04	1.04E-03	6.25E-04	4.09E-04	5.79E-04	2.85E-04
2835	564965.3	4222300	0.004035	0.005336	1.91E-03	2.14E-03	5.85E-03	1.91E-03	5.30E-04	1.04E-03	6.25E-04	4.10E-04	5.80E-04	2.85E-04
2836	564966.4	4222308	0.004033	0.005334	1.91E-03	2.14E-03	5.85E-03	1.91E-03	5.30E-04	1.04E-03	6.25E-04	4.10E-04	5.80E-04	2.85E-04
2837	564967.5	4222317	0.004023	0.005321	1.91E-03	2.13E-03	5.83E-03	1.91E-03	5.28E-04	1.04E-03	6.24E-04	4.09E-04	5.79E-04	2.85E-04
2838	564968.6	4222326	0.004006	0.005298	1.90E-03	2.12E-03	5.81E-03	1.90E-03	5.26E-04	1.03E-03	6.21E-04	4.07E-04	5.76E-04	2.83E-04
2839	564969.7	4222335	0.003982	0.005266	1.89E-03	2.11E-03	5.77E-03	1.89E-03	5.23E-04	1.03E-03	6.17E-04	4.05E-04	5.73E-04	2.82E-04
2840	564950.1	4222250	0.003786	0.005007	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.78E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
2841	564955.3	4222233	0.003787	0.005008	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.78E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
2842	564960.5	4222216	0.003757	0.004969	1.78E-03	1.99E-03	5.45E-03	1.78E-03	4.93E-04	9.71E-04	5.82E-04	3.82E-04	5.40E-04	2.66E-04
2843	564971	4222182	0.003605	0.004768	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.73E-04	9.31E-04	5.59E-04	3.66E-04	5.19E-04	2.55E-04
2844	564976.3	4222165	0.003488	0.004612	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.01E-04	5.41E-04	3.54E-04	5.02E-04	2.47E-04
2845	564981.5	4222148	0.003347	0.004427	1.59E-03	1.77E-03	4.85E-03	1.59E-03	4.40E-04	8.65E-04	5.19E-04	3.40E-04	4.81E-04	2.37E-04
2846	564986.8	4222132	0.003189	0.004217	1.51E-03	1.69E-03	4.62E-03	1.51E-03	4.19E-04	8.24E-04	4.94E-04	3.24E-04	4.59E-04	2.26E-04
2847	564997.3	4222098	0.002841	0.003757	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.34E-04	4.40E-04	2.89E-04	4.09E-04	2.01E-04
2848	565013	4222047	0.00231	0.003056	1.09E-03	1.22E-03	3.35E-03	1.09E-03	3.03E-04	5.97E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
2849	565018.3	4222030	0.002144	0.002836	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.54E-04	3.32E-04	2.18E-04	3.08E-04	1.52E-04
2850	565023.5	4222013	0.001987	0.002628	9.41E-04	1.05E-03	2.88E-03	9.41E-04	2.61E-04	5.13E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
2851	565034.2	4222001	0.001888	0.002497	8.94E-04	1.00E-03	2.74E-03	8.94E-04	2.48E-04	4.88E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
2852	565042.2	4221998	0.001863	0.002463	8.82E-04	9.88E-04	2.70E-03	8.82E-04	2.45E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
2853	565058.4	4221990	0.001808	0.002391	8.57E-04	9.59E-04	2.62E-03	8.57E-04	2.37E-04	4.67E-04	2.80E-04	1.84E-04	2.60E-04	1.28E-04
2854	565074.5	4221983	0.001751	0.002316	8.30E-04	9.29E-04	2.54E-03	8.30E-04	2.30E-04	4.52E-04	2.72E-04	1.78E-04	2.52E-04	1.24E-04
2855	565090.6	4221976	0.001695	0.002241	8.03E-04	8.99E-04	2.46E-03	8.03E-04	2.23E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
2856	565098.6	4221972	0.001666	0.002204	7.89E-04	8.84E-04	2.42E-03	7.89E-04	2.19E-04	4.31E-04	2.58E-04	1.69E-04	2.40E-04	1.18E-04
2857	565114.7	4221965	0.001609	0.002128	7.62E-04	8.53E-04	2.33E-03	7.62E-04	2.11E-04	4.16E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
2858	565122.8	4221961	0.00158	0.00209	7.49E-04	8.38E-04	2.29E-03	7.49E-04	2.08E-04	4.08E-04	2.45E-04	1.61E-04	2.27E-04	1.12E-04
2859	565138.9	4221954	0.001523	0.002015	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
2860	565171.1	4221939	0.001416	0.001872	6.71E-04	7.51E-04	2.05E-03	6.71E-04	1.86E-04	3.66E-04	2.19E-04	1.44E-04	2.04E-04	1.00E-04
2861	565179.2	4221936	0.00139	0.001839	6.59E-04	7.37E-04	2.02E-03	6.59E-04	1.83E-04	3.59E-04	2.16E-04	1.41E-04	2.00E-04	9.83E-05
2862	564944.4	4222293	0.003752	0.004962	1.78E-03	1.99E-03	5.44E-03	1.78E-03	4.93E-04	9.69E-04	5.82E-04	3.81E-04	5.40E-04	2.65E-04
2863	564945.5	4222302	0.003753	0.004964	1.78E-03	1.99E-03	5.44E-03	1.78E-03	4.93E-04	9.70E-04	5.82E-04	3.81E-04	5.40E-04	2.65E-04
2864	564946.5	4222311	0.003748	0.004956	1.78E-03	1.99E-03	5.43E-03	1.78E-03	4.92E-04	9.68E-04	5.81E-04	3.81E-04	5.39E-04	2.65E-04
2865	564947.6	4222320	0.003735	0.00494	1.77E-03	1.98E-03	5.42E-03	1.77E-03	4.91E-04	9.65E-04	5.79E-04	3.80E-04	5.37E-04	2.64E-04
2866	564948.7	4222329	0.003716	0.004914	1.76E-03	1.97E-03	5.39E-03	1.76E-03	4.88E-04	9.60E-04	5.76E-04	3.78E-04	5.35E-04	2.63E-04
2867	564924.9	4222269	0.003517	0.004651	1.67E-03	1.86E-03	5.10E-03	1.67E-03	4.62E-04	9.09E-04	5.45E-04	3.57E-04	5.06E-04	2.49E-04
2868	564930.2	4222252	0.003553	0.004699	1.68E-03	1.88E-03	5.15E-03	1.68E-03	4.67E-04	9.18E-04	5.51E-04	3.61E-04	5.11E-04	2.51E-04
2869	564935.4	4222235	0.003564	0.004713	1.69E-03	1.89E-03	5.17E-03	1.69E-03	4.68E-04	9.21E-04	5.52E-04	3.62E-04	5.13E-04	2.52E-04
2870	564940.6	4222219	0.003547	0.004691	1.68E-03	1.88E-03	5.14E-03	1.68E-03	4.66E-04	9.16E-04	5.50E-04	3.61E-04	5.10E-04	2.51E-04
2871	564945.8	4222202	0.003503	0.004633	1.66E-03	1.86E-03	5.08E-03	1.66E-03	4.60E-04	9.05E-04	5.43E-04	3.56E-04	5.04E-04	2.48E-04
2872	564956.3	4222168	0.003338	0.004415	1.58E-03	1.77E-03	4.84E-03	1.58E-03	4.38E-04	8.62E-04	5.17E-04	3.39E-04	4.80E-04	2.36E-04
2873	564961.5	4222151	0.003221	0.00426	1.53E-03	1.71E-03	4.67E-03	1.53E-03	4.23E-04	8.32E-04	4.99E-04	3.27E-04	4.63E-04	2.28E-04
2874	564966.7	4222135	0.003086	0.004082	1.46E-03	1.64E-03	4.47E-03	1.46E-03	4.05E-04	7.97E-04	4.78E-04	3.14E-04	4.44E-04	2.18E-04
2875	564977.2	4222101	0.002781	0.003678	1.32E-03	1.47E-03	4.03E-03	1.32E-03	3.65E-04	7.18E-04	4.31E-04	2.83E-04	4.00E-04	1.97E-04
2876	564982.4	4222084	0.002619	0.003464	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.44E-04	6.77E-04	4.06E-04	2.66E-04	3.77E-04	1.85E-04
2877	564987.6	4222067	0.002457	0.003249	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.23E-04	6.35E-04	3.81E-04	2.50E-04	3.53E-04	1.74E-04
2878	564992.9	4222051	0.002297	0.003038	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.93E-04	3.56E-04	2.33E-04	3.30E-04	1.62E-04
2879	564998.1	4222034	0.002142	0.002832	1.01E-03	1.14E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.18E-04	3.08E-04	1.51E-04
2880	565019.2	4221988	0.001762	0.00233	8.35E-04	9.34E-04	2.55E-03	8.35E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.53E-04	1.25E-04
2881	565035.2	4221981	0.001715	0.002268	8.12E-04	9.09E-04	2.49E-03	8.12E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
2882	565043.2	4221977	0.00169	0.002235	8.01E-04	8.96E-04	2.45E-03	8.01E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
2883	565059.3	4221970	0.001639	0.002168	7.77E-04	8.69E-04	2.38E-03	7.77E-04	2.15E-04	4.23E-04	2.54E-04	1.67E-04	2.36E-04	1.16E-04
2884	565075.3	4221963	0.001588	0.0021	7.52E-04	8.42E-04	2.30E-03	7.52E-04	2.09E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
2885	565091.4	4221955	0.001537	0.002033	7.28E-04	8.15E-04	2.23E-03	7.28E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
2886	565107.4	4221948	0.001486	0.001965	7.04E-04	7.88E-04	2.15E-03	7.04E-04	1.95E-04	3.84E-04	2.30E-04	1.51E-04	2.14E-04	1.05E-04
2887	565123.4	4221941	0.001435	0.001897	6.80E-04	7.61E-04	2.08E-03	6.80E-04	1.88E-04	3.71E-04	2.22E-04	1.46E-04	2.06E-04	1.01E-04
2888	565139.5	4221934	0.001385	0.001832	6.56E-04	7.34E-04	2.01E-03	6.56E-04	1.82E-04	3.58E-04	2.15E-04	1.41E-04	1.99E-04	9.80E-05
2889	565155.5	4221926	0.001338	0.001769	6.34E-04	7.09E-04	1.94E-03	6.34E-04	1.76E-04	3.46E-04	2.07E-04	1.36E-04	1.92E-04	9.46E-05
2890	565171.6	4221919	0.001292	0.001708	6.12E-04	6.85E-04	1.87E-03	6.12E-04	1.70E-04	3.34E-04	2.00E-04	1.31E-04	1.86E-04	9.14E-05
2891	564923.4	4222286	0.003498	0.004626	1.66E-03	1.85E-03	5.07E-03	1.66E-03	4.59E-04	9.04E-04	5.42E-04	3.56E-04	5.03E-04	2.47E-04
2892	564926.7	4222313	0.00349	0.004616	1.65E-03	1.85E-03	5.06E-03	1.65E-03	4.58E-04	9.02E-04	5.41E-04	3.55E-04	5.02E-04	2.47E-04
2893	564928.9	4222331	0.003459	0.004574	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.94E-04	5.36E-04	3.52E-04	4.98E-04	2.45E-04
2894	564930	4222340	0.003434	0.004542	1.63E-03	1.82E-03	4.98E-03	1.63E-03	4.51E-04	8.87E-04	5.32E-04	3.49E-04	4.94E-04	2.43E-04
2895	564905.2	4222271	0.003298	0.004362	1.56E-03	1.75E-03	4.78E-03	1.56E-03	4.33E-04	8.52E-04	5.11E-04	3.35E-04	4.74E-04	2.33E-04
2896	564907.8	4222263	0.003321	0.004392	1.57E-03	1.76E-03	4.82E-03	1.57E-03	4.36E-04	8.58E-04	5.15E-04	3.38E-04	4.78E-04	2.35E-04
2897	564913.2	4222245	0.003351	0.004432	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.66E-04	5.19E-04	3.41E-04	4.82E-04	2.37E-04
2898	564918.5	4222228	0.003357	0.004439	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
2899	564923.9	4222211	0.003336	0.004412	1.58E-03	1.77E-03	4.84E-03	1.58E-03	4.38E-04	8.62E-04	5.17E-04	3.39E-04	4.80E-04	2.36E-04
2900	564929.2	4222194	0.003288	0.004348	1.56E-03	1.74E-03	4.77E-03	1.56E-03	4.32E-04	8.49E-04	5.10E-04	3.34E-04	4.73E-04	2.33E-04
2901	564931.9	4222185	0.003255	0.004305	1.54E-03	1.73E-03	4.72E-03	1.54E-03	4.27E-04	8.41E-04	5.05E-04	3.31E-04	4.68E-04	2.30E-04
2902	564937.3	4222168	0.003174	0.004198	1.50E-03	1.68E-03	4.60E-03	1.50E-03	4.17E-04	8.20E-04	4.92E-04	3.23E-04	4.57E-04	2.24E-04
2903	564942.6	4222151	0.003071	0.004062	1.46E-03	1.63E-03	4.45E-03	1.46E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
2904	564948	4222133	0.002951	0.003903	1.40E-03	1.56E-03	4.28E-03	1.40E-03	3.88E-04	7.62E-04	4.57E-04	3.00E-04	4.24E-04	2.09E-04
2905	564958.7	4222099	0.002672	0.003534	1.27E-03	1.42E-03	3.87E-03	1.27E-03	3.51E-04	6.90E-04	4.14E-04	2.72E-04	3.84E-04	1.89E-04
2906	564964	4222082	0.002522	0.003335	1.19E-03	1.34E-03	3.66E-03	1.19E-03	3.31E-04	6.52E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
2907	564966.7	4222073	0.002446	0.003235	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.21E-04	6.32E-04	3.79E-04	2.49E-04	3.52E-04	1.73E-04
2908	564972.1	4222056	0.002295	0.003035	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.01E-04	5.93E-04	3.56E-04	2.33E-04	3.30E-04	1.62E-04
2909	564977.4	4222039	0.002146	0.002838	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.54E-04	3.33E-04	2.18E-04	3.09E-04	1.52E-04

2910	564982.8	4222022	0.002001	0.002646	9.48E-04	1.06E-03	2.90E-03	9.48E-04	2.63E-04	5.17E-04	3.10E-04	2.03E-04	2.88E-04	1.41E-04
2911	564988.1	4222004	0.001862	0.002462	8.82E-04	9.87E-04	2.70E-03	8.82E-04	2.44E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
2912	564990.8	4221996	0.001796	0.002375	8.51E-04	9.52E-04	2.60E-03	8.51E-04	2.36E-04	4.64E-04	2.78E-04	1.83E-04	2.58E-04	1.27E-04
2913	565020.8	4221967	0.001605	0.002123	7.61E-04	8.51E-04	2.33E-03	7.61E-04	2.11E-04	4.15E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
2914	565029	4221964	0.001582	0.002093	7.50E-04	8.39E-04	2.29E-03	7.50E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
2915	565045.5	4221956	0.001535	0.00203	7.27E-04	8.14E-04	2.23E-03	7.27E-04	2.02E-04	3.96E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
2916	565061.9	4221949	0.001487	0.001966	7.04E-04	7.88E-04	2.16E-03	7.04E-04	1.95E-04	3.84E-04	2.30E-04	1.51E-04	2.14E-04	1.05E-04
2917	565103	4221930	0.001368	0.00181	6.48E-04	7.26E-04	1.98E-03	6.48E-04	1.80E-04	3.54E-04	2.12E-04	1.39E-04	1.97E-04	9.68E-05
2918	565119.4	4221923	0.001322	0.001748	6.26E-04	7.01E-04	1.92E-03	6.26E-04	1.74E-04	3.41E-04	2.05E-04	1.34E-04	1.90E-04	9.35E-05
2919	565144.1	4221912	0.001255	0.001659	5.94E-04	6.65E-04	1.82E-03	5.94E-04	1.65E-04	3.24E-04	1.94E-04	1.28E-04	1.80E-04	8.87E-05
2920	565160.5	4221904	0.001213	0.001604	5.74E-04	6.43E-04	1.76E-03	5.74E-04	1.59E-04	3.13E-04	1.88E-04	1.23E-04	1.74E-04	8.57E-05
2921	564903.6	4222289	0.003275	0.004331	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
2922	564904.7	4222298	0.003275	0.004331	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
2923	564885.3	4222274	0.003099	0.004098	1.47E-03	1.64E-03	4.49E-03	1.47E-03	4.07E-04	8.01E-04	4.80E-04	3.15E-04	4.46E-04	2.19E-04
2924	564890.6	4222257	0.003141	0.004154	1.49E-03	1.67E-03	4.55E-03	1.49E-03	4.13E-04	8.12E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04
2925	564895.9	4222239	0.003164	0.004185	1.50E-03	1.68E-03	4.59E-03	1.50E-03	4.16E-04	8.18E-04	4.91E-04	3.22E-04	4.55E-04	2.24E-04
2926	564901.3	4222222	0.003167	0.004188	1.50E-03	1.68E-03	4.59E-03	1.50E-03	4.16E-04	8.18E-04	4.91E-04	3.22E-04	4.55E-04	2.24E-04
2927	564903.9	4222214	0.003159	0.004178	1.50E-03	1.67E-03	4.58E-03	1.50E-03	4.15E-04	8.16E-04	4.90E-04	3.21E-04	4.54E-04	2.23E-04
2928	564909.3	4222197	0.003126	0.004134	1.48E-03	1.66E-03	4.53E-03	1.48E-03	4.11E-04	8.08E-04	4.85E-04	3.18E-04	4.50E-04	2.21E-04
2929	564914.6	4222179	0.003071	0.004061	1.45E-03	1.63E-03	4.45E-03	1.45E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
2930	564919.9	4222162	0.002996	0.003962	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.74E-04	4.64E-04	3.04E-04	4.31E-04	2.12E-04
2931	564922.6	4222154	0.002951	0.003902	1.40E-03	1.56E-03	4.28E-03	1.40E-03	3.88E-04	7.62E-04	4.57E-04	3.00E-04	4.24E-04	2.09E-04
2932	564927.9	4222137	0.002849	0.003768	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.36E-04	4.42E-04	2.90E-04	4.10E-04	2.01E-04
2933	564941.2	4222094	0.002543	0.003363	1.20E-03	1.35E-03	3.69E-03	1.20E-03	3.34E-04	6.57E-04	3.94E-04	2.58E-04	3.66E-04	1.80E-04
2934	564946.5	4222077	0.002407	0.003183	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.22E-04	3.73E-04	2.45E-04	3.46E-04	1.70E-04
2935	564951.9	4222059	0.002268	0.003	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.52E-04	2.31E-04	3.26E-04	1.60E-04
2936	564957.2	4222042	0.002131	0.002818	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.51E-04	3.30E-04	2.17E-04	3.07E-04	1.51E-04
2937	564962.5	4222025	0.001996	0.002639	9.45E-04	1.06E-03	2.89E-03	9.45E-04	2.62E-04	5.16E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
2938	564967.9	4222008	0.001864	0.002466	8.83E-04	9.88E-04	2.70E-03	8.83E-04	2.45E-04	4.82E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
2939	564973.2	4221991	0.00174	0.002302	8.24E-04	9.23E-04	2.52E-03	8.24E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.50E-04	1.23E-04
2940	564978.5	4221974	0.001623	0.002147	7.69E-04	8.61E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.33E-04	1.15E-04
2941	564989.4	4221961	0.001548	0.002048	7.33E-04	8.21E-04	2.24E-03	7.33E-04	2.03E-04	4.00E-04	2.40E-04	1.57E-04	2.23E-04	1.09E-04
2942	565022.1	4221947	0.001467	0.00194	6.95E-04	7.78E-04	2.13E-03	6.95E-04	1.93E-04	3.79E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
2943	565038.4	4221939	0.001423	0.001883	6.74E-04	7.55E-04	2.06E-03	6.74E-04	1.87E-04	3.68E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
2944	565046.6	4221936	0.001402	0.001854	6.64E-04	7.43E-04	2.03E-03	6.64E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.02E-04	9.91E-05
2945	565063	4221928	0.001358	0.001796	6.43E-04	7.20E-04	1.97E-03	6.43E-04	1.78E-04	3.51E-04	2.11E-04	1.38E-04	1.95E-04	9.61E-05
2946	565079.3	4221921	0.001315	0.001739	6.23E-04	6.97E-04	1.91E-03	6.23E-04	1.73E-04	3.40E-04	2.04E-04	1.34E-04	1.89E-04	9.30E-05
2947	565128.4	4221899	0.001189	0.001573	5.64E-04	6.31E-04	1.72E-03	5.64E-04	1.56E-04	3.07E-04	1.84E-04	1.21E-04	1.71E-04	8.41E-05
2948	565144.7	4221891	0.001151	0.001522	5.45E-04	6.10E-04	1.67E-03	5.45E-04	1.51E-04	2.97E-04	1.78E-04	1.17E-04	1.66E-04	8.14E-05
2949	564882.6	4222282	0.003071	0.004061	1.45E-03	1.63E-03	4.45E-03	1.45E-03	4.03E-04	7.93E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
2950	564883.7	4222291	0.003073	0.004065	1.46E-03	1.63E-03	4.46E-03	1.46E-03	4.04E-04	7.94E-04	4.76E-04	3.12E-04	4.42E-04	2.17E-04
2951	564890.3	4222345	0.002994	0.003959	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.73E-04	4.64E-04	3.04E-04	4.31E-04	2.12E-04
2952	564865.4	4222276	0.002919	0.00386	1.38E-03	1.55E-03	4.23E-03	1.38E-03	3.83E-04	7.54E-04	4.52E-04	2.97E-04	4.20E-04	2.06E-04
2953	564870.7	4222259	0.002963	0.003918	1.40E-03	1.57E-03	4.30E-03	1.40E-03	3.89E-04	7.65E-04	4.59E-04	3.01E-04	4.26E-04	2.10E-04
2954	564886.6	4222208	0.002986	0.003949	1.41E-03	1.58E-03	4.33E-03	1.41E-03	3.92E-04	7.71E-04	4.63E-04	3.03E-04	4.30E-04	2.11E-04
2955	564891.9	4222191	0.002955	0.003908	1.40E-03	1.57E-03	4.28E-03	1.40E-03	3.88E-04	7.63E-04	4.58E-04	3.00E-04	4.25E-04	2.09E-04
2956	564897.2	4222174	0.002904	0.003841	1.38E-03	1.54E-03	4.21E-03	1.38E-03	3.81E-04	7.50E-04	4.50E-04	2.95E-04	4.18E-04	2.05E-04
2957	564902.5	4222157	0.002835	0.003749	1.34E-03	1.50E-03	4.11E-03	1.34E-03	3.72E-04	7.32E-04	4.39E-04	2.88E-04	4.08E-04	2.00E-04
2958	564907.8	4222140	0.002749	0.003636	1.30E-03	1.46E-03	3.99E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
2959	564913.2	4222123	0.00265	0.003504	1.26E-03	1.40E-03	3.84E-03	1.26E-03	3.48E-04	6.85E-04	4.11E-04	2.69E-04	3.81E-04	1.87E-04
2960	564923.8	4222088	0.002423	0.003204	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
2961	564939.7	4222037	0.002046	0.002706	9.69E-04	1.08E-03	2.97E-03	9.69E-04	2.69E-04	5.29E-04	3.17E-04	2.08E-04	2.94E-04	1.45E-04
2962	564942.3	4222029	0.001984	0.002623	9.40E-04	1.05E-03	2.88E-03	9.40E-04	2.61E-04	5.12E-04	3.07E-04	2.02E-04	2.85E-04	1.40E-04
2963	564947.6	4222012	0.001861	0.002461	8.82E-04	9.87E-04	2.70E-03	8.82E-04	2.44E-04	4.81E-04	2.88E-04	1.89E-04	2.68E-04	1.32E-04
2964	564952.9	4221995	0.001743	0.002305	8.26E-04	9.24E-04	2.53E-03	8.26E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
2965	564958.2	4221978	0.001631	0.002157	7.73E-04	8.65E-04	2.36E-03	7.73E-04	2.14E-04	4.21E-04	2.53E-04	1.66E-04	2.35E-04	1.15E-04
2966	564963.5	4221960	0.001525	0.002017	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
2967	564974.3	4221948	0.001457	0.001926	6.90E-04	7.72E-04	2.11E-03	6.90E-04	1.91E-04	3.76E-04	2.26E-04	1.48E-04	2.10E-04	1.03E-04
2968	564982.5	4221945	0.001439	0.001902	6.81E-04	7.63E-04	2.09E-03	6.81E-04	1.89E-04	3.72E-04	2.23E-04	1.46E-04	2.07E-04	1.02E-04
2969	564998.8	4221937	0.001402	0.001854	6.64E-04	7.43E-04	2.03E-03	6.64E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.02E-04	9.91E-05
2970	565015	4221930	0.001364	0.001804	6.46E-04	7.23E-04	1.98E-03	6.46E-04	1.79E-04	3.52E-04	2.11E-04	1.39E-04	1.96E-04	9.65E-05
2971	565023.2	4221926	0.001344	0.001777	6.37E-04	7.13E-04	1.95E-03	6.37E-04	1.77E-04	3.47E-04	2.08E-04	1.37E-04	1.93E-04	9.51E-05
2972	565039.5	4221919	0.001304	0.001725	6.18E-04	6.92E-04	1.89E-03	6.18E-04	1.71E-04	3.37E-04	2.02E-04	1.33E-04	1.88E-04	9.22E-05
2973	565047.6	4221915	0.001284	0.001699	6.09E-04	6.81E-04	1.86E-03	6.09E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.08E-05
2974	565063.9	4221908	0.001244	0.001646	5.90E-04	6.60E-04	1.80E-03	5.90E-04	1.63E-04	3.22E-04	1.93E-04	1.26E-04	1.79E-04	8.80E-05
2975	565072	4221904	0.001225	0.00162	5.80E-04	6.49E-04	1.78E-03	5.80E-04	1.61E-04	3.16E-04	1.90E-04	1.24E-04	1.76E-04	8.66E-05
2976	565088.3	4221897	0.001186	0.001568	5.62E-04	6.29E-04	1.72E-03	5.62E-04	1.56E-04	3.06E-04	1.84E-04	1.20E-04	1.71E-04	8.38E-05
2977	565112.7	4221886	0.001129	0.001494	5.35E-04	5.99E-04	1.64E-03	5.35E-04	1.48E-04	2.92E-04	1.75E-04	1.15E-04	1.62E-04	7.99E-05
2978	565129	4221878	0.001094	0.001447	5.18E-04	5.80E-04	1.59E-03	5.18E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.57E-04	7.74E-05
2979	565137.2	4221875	0.001077	0.001425	5.10E-04	5.71E-04	1.56E-03	5.10E-04	1.41E-04	2.78E-04	1.67E-04	1.09E-04	1.55E-04	7.62E-05
2980	564866	4222312	0.002879	0.003807	1.36E-03	1.53E-03	4.17E-03	1.36E-03	3.78E-04	7.44E-04	4.46E-04	2.93E-04	4.14E-04	2.04E-04
2981	564867.1	4222321	0.002866	0.00379	1.36E-03	1.52E-03	4.15E-03	1.36E-03	3.76E-04	7.40E-04	4.44E-04	2.91E-04	4.12E-04	2.03E-04
2982	564868.2	4222330	0.002849	0.003768	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.36E-04	4.42E-04	2.90E-04	4.10E-04	2.02E-04
2983	564869.3	4222338	0.00283	0.003742	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.72E-04	7.31E-04	4.39E-04	2.88E-04	4.07E-04	2.00E-04
2984	564856.1	4222245	0.002827	0.003739	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.71E-04	7.30E-04	4.38E-04	2.87E-04	4.07E-04	2.00E-04
2985	564861.4	4222228	0.002841	0.003758	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.34E-04	4.40E-04	2.89E-04	4.09E-04	2.01E-04
2986	564877.2	4222177	0.002776	0.003671	1.32E-03	1.47E-03	4.02E-03	1.32E-03	3.65E-04	7.17E-04	4.30E-04	2.82E-04	3.99E-04	1.96E-04
2987	564882.5	4222160	0.002721	0.003598	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.03E-04	4.22E-04	2.76E-04	3.91E-04	1.92E-04
2988	564887.8	4222143	0.00265	0.003505	1.26E-03	1.41E-03	3.84E-03	1.26E-03	3.48E-04	6.85E-04	4.11E-04	2.69E-04	3.81E-04	1.87E-04
2989	564893.1	4222126	0.002566	0.003393	1.22E-03	1.36E-03	3.72E-03	1.22E-03	3.37E-04	6.63E-04	3.98E-04	2.61E-04	3.69E-04	1.81E-04
2990	564903.7	4222092	0.002365	0.003128	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.11E-04	6.11E-04	3.67E-04	2.40E-04	3.40E-04	1.67E-04
2991	564908.9	4222075	0.002255	0.002982	1.07E-03	1.20E-03	3.27E-03	1.07E-03	2.96E-04	5.82E-04	3.49E-04	2.29E-04	3.24E-04	1.59E-04
2992	564914.2	4222058	0.00214	0.00283	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
2993	564919.5	4222041	0.002023	0.002676	9.59E-04	1.07E-03	2.93E-03	9.59E-04	2.66E-04	5.23E-04	3.14E-04	2.06E-04	2.91E-04	1.43E-04
2994	564924.8	4222024	0.001908	0.002524	9.04E-04	1.01E-03	2.77E-03	9.04E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.74E-04	1.35E-04
2995	564940.6	4221973	0.001582	0.002092	7.49E-04	8.39E-04	2.29E-03	7.49E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
2996	564945.9	4221956	0.001483	0.001961	7.03E-04	7.86E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.13E-04	1.05E-04
2997	564959.3	4221935	0.001373	0.001816	6.50E-04	7.28E-04	1.99E-03	6.50E-04	1.80E-04	3.55E-04	2.13E-04	1.40E-04	1.98E-04	9.71E-05
2998	564975.5	4221928	0.00134	0.001772	6.35E-04	7.10E-04	1.94E-03	6.35E-04	1.76E-04	3.46E-04	2.08E-04	1.36E-04	1.93E-04	9.47E-05
2999	564991.7	4221920	0.001306	0.001727	6.19E-04	6.92E-04	1.89E-03	6.19E-04	1.71E-04	3.37E-04	2.02E-04	1.33E-04	1.88E-04	9.23E-05
3000	564999.9	4221917	0.001288	0.001704	6.10E-04	6.83E-04	1.87E-03	6.10E-04	1.69E-04	3.33E-04	2.00E-04	1.31E-04	1.85E-04	9.11E-05

3001	565016.1	4221909	0.001252	0.001656	5.93E-04	6.64E-04	1.82E-03	5.93E-04	1.64E-04	3.24E-04	1.94E-04	1.27E-04	1.80E-04	8.86E-05
3002	565024.2	4221906	0.001234	0.001632	5.85E-04	6.54E-04	1.79E-03	5.85E-04	1.62E-04	3.19E-04	1.91E-04	1.25E-04	1.78E-04	8.73E-05
3003	565040.4	4221898	0.001197	0.001584	5.67E-04	6.35E-04	1.74E-03	5.67E-04	1.57E-04	3.09E-04	1.86E-04	1.22E-04	1.72E-04	8.47E-05
3004	565048.5	4221895	0.001179	0.00156	5.59E-04	6.25E-04	1.71E-03	5.59E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.34E-05
3005	565064.7	4221887	0.001143	0.001512	5.42E-04	6.06E-04	1.66E-03	5.42E-04	1.50E-04	2.95E-04	1.77E-04	1.16E-04	1.64E-04	8.09E-05
3006	565072.8	4221884	0.001126	0.001489	5.33E-04	5.97E-04	1.63E-03	5.33E-04	1.48E-04	2.91E-04	1.74E-04	1.14E-04	1.62E-04	7.96E-05
3007	565097.2	4221873	0.001075	0.001421	5.09E-04	5.70E-04	1.56E-03	5.09E-04	1.41E-04	2.78E-04	1.67E-04	1.09E-04	1.55E-04	7.60E-05
3008	565113.4	4221865	0.001042	0.001378	4.94E-04	5.53E-04	1.51E-03	4.94E-04	1.37E-04	2.69E-04	1.62E-04	1.06E-04	1.50E-04	7.37E-05
3009	565121.5	4221862	0.001027	0.001358	4.86E-04	5.44E-04	1.49E-03	4.86E-04	1.35E-04	2.65E-04	1.59E-04	1.04E-04	1.48E-04	7.26E-05
3010	564844	4222296	0.002721	0.003599	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.03E-04	4.22E-04	2.77E-04	3.91E-04	1.92E-04
3011	564845.1	4222305	0.002716	0.003592	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
3012	564846.2	4222314	0.002707	0.00358	1.28E-03	1.44E-03	3.92E-03	1.28E-03	3.55E-04	6.99E-04	4.20E-04	2.75E-04	3.89E-04	1.91E-04
3013	564847.3	4222323	0.002694	0.003563	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.96E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
3014	564848.4	4222332	0.002679	0.003543	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.52E-04	6.92E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
3015	564849.5	4222341	0.00266	0.003518	1.26E-03	1.41E-03	3.86E-03	1.26E-03	3.49E-04	6.87E-04	4.12E-04	2.70E-04	3.83E-04	1.88E-04
3016	564850.5	4222350	0.002639	0.00349	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.82E-04	4.09E-04	2.68E-04	3.80E-04	1.87E-04
3017	564825.7	4222281	0.002597	0.003435	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.41E-04	6.71E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
3018	564836.2	4222247	0.002674	0.003537	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.51E-04	6.91E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
3019	564841.5	4222230	0.002693	0.003562	1.28E-03	1.43E-03	3.90E-03	1.28E-03	3.54E-04	6.96E-04	4.17E-04	2.74E-04	3.87E-04	1.90E-04
3020	564846.7	4222213	0.002697	0.003566	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.97E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
3021	564857.3	4222179	0.002653	0.003509	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.48E-04	6.85E-04	4.11E-04	2.70E-04	3.82E-04	1.88E-04
3022	564862.5	4222163	0.002609	0.00345	1.24E-03	1.38E-03	3.78E-03	1.24E-03	3.43E-04	6.74E-04	4.04E-04	2.65E-04	3.75E-04	1.84E-04
3023	564867.8	4222146	0.002552	0.003374	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.35E-04	6.59E-04	3.96E-04	2.59E-04	3.67E-04	1.80E-04
3024	564873.1	4222129	0.002481	0.003281	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.41E-04	3.85E-04	2.52E-04	3.57E-04	1.75E-04
3025	564883.6	4222095	0.002305	0.003049	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.03E-04	5.96E-04	3.57E-04	2.34E-04	3.32E-04	1.63E-04
3026	564888.8	4222078	0.002206	0.002918	1.05E-03	1.17E-03	3.20E-03	1.05E-03	2.90E-04	5.70E-04	3.42E-04	2.24E-04	3.17E-04	1.56E-04
3027	564894.1	4222061	0.002103	0.002781	9.96E-04	1.11E-03	3.05E-03	9.96E-04	2.76E-04	5.43E-04	3.26E-04	2.14E-04	3.02E-04	1.49E-04
3028	564899.4	4222044	0.001997	0.002641	9.46E-04	1.06E-03	2.90E-03	9.46E-04	2.62E-04	5.16E-04	3.10E-04	2.03E-04	2.87E-04	1.41E-04
3029	564904.6	4222027	0.001891	0.0025	8.96E-04	1.00E-03	2.74E-03	8.96E-04	2.48E-04	4.88E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
3030	564909.9	4222010	0.001786	0.002362	8.46E-04	9.47E-04	2.59E-03	8.46E-04	2.35E-04	4.61E-04	2.77E-04	1.81E-04	2.57E-04	1.26E-04
3031	564915.2	4221993	0.001682	0.002225	7.97E-04	8.92E-04	2.44E-03	7.97E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
3032	564920.4	4221976	0.001582	0.002092	7.49E-04	8.39E-04	2.29E-03	7.49E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
3033	564925.7	4221959	0.001487	0.001966	7.04E-04	7.88E-04	2.16E-03	7.04E-04	1.95E-04	3.84E-04	2.30E-04	1.51E-04	2.14E-04	1.05E-04
3034	564944.3	4221922	0.001296	0.001714	6.14E-04	6.87E-04	1.88E-03	6.14E-04	1.70E-04	3.35E-04	2.01E-04	1.32E-04	1.86E-04	9.17E-05
3035	564952.4	4221918	0.001281	0.001694	6.07E-04	6.79E-04	1.86E-03	6.07E-04	1.68E-04	3.31E-04	1.99E-04	1.30E-04	1.84E-04	9.06E-05
3036	564968.5	4221911	0.00125	0.001654	5.92E-04	6.63E-04	1.81E-03	5.92E-04	1.64E-04	3.23E-04	1.94E-04	1.27E-04	1.80E-04	8.84E-05
3037	564976.6	4221907	0.001235	0.001633	5.85E-04	6.55E-04	1.79E-03	5.85E-04	1.62E-04	3.19E-04	1.91E-04	1.25E-04	1.78E-04	8.73E-05
3038	564992.8	4221900	0.001203	0.00159	5.70E-04	6.38E-04	1.74E-03	5.70E-04	1.58E-04	3.11E-04	1.86E-04	1.22E-04	1.73E-04	8.50E-05
3039	565000.8	4221896	0.001186	0.001569	5.62E-04	6.29E-04	1.72E-03	5.62E-04	1.56E-04	3.06E-04	1.84E-04	1.21E-04	1.71E-04	8.39E-05
3040	565017	4221889	0.001153	0.001524	5.46E-04	6.11E-04	1.67E-03	5.46E-04	1.51E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.15E-05
3041	565033.2	4221882	0.001119	0.00148	5.30E-04	5.93E-04	1.62E-03	5.30E-04	1.47E-04	2.89E-04	1.74E-04	1.14E-04	1.61E-04	7.92E-05
3042	565049.3	4221874	0.001086	0.001437	5.15E-04	5.76E-04	1.57E-03	5.15E-04	1.43E-04	2.81E-04	1.68E-04	1.10E-04	1.56E-04	7.68E-05
3043	565057.4	4221871	0.00107	0.001416	5.07E-04	5.67E-04	1.55E-03	5.07E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.57E-05
3044	565081.6	4221860	0.001024	0.001354	4.85E-04	5.43E-04	1.48E-03	4.85E-04	1.34E-04	2.65E-04	1.59E-04	1.04E-04	1.47E-04	7.24E-05
3045	565097.8	4221852	0.000994	0.001314	4.71E-04	5.27E-04	1.44E-03	4.71E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.03E-05
3046	565105.9	4221849	0.000979	0.001295	4.64E-04	5.19E-04	1.42E-03	4.64E-04	1.29E-04	2.53E-04	1.52E-04	9.95E-05	1.41E-04	6.92E-05
3047	564824.2	4222299	0.002567	0.003395	1.22E-03	1.36E-03	3.72E-03	1.22E-03	3.37E-04	6.63E-04	3.98E-04	2.61E-04	3.69E-04	1.82E-04
3048	564825.2	4222307	0.002561	0.003386	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
3049	564826.3	4222316	0.002551	0.003374	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.35E-04	6.59E-04	3.95E-04	2.59E-04	3.67E-04	1.80E-04
3050	564827.4	4222325	0.002539	0.003358	1.20E-03	1.35E-03	3.68E-03	1.20E-03	3.33E-04	6.56E-04	3.94E-04	2.58E-04	3.65E-04	1.80E-04
3051	564828.5	4222334	0.002524	0.003338	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.31E-04	6.52E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
3052	564829.6	4222343	0.002506	0.003314	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.47E-04	3.89E-04	2.55E-04	3.60E-04	1.77E-04
3053	564805.8	4222284	0.002458	0.003251	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.23E-04	6.35E-04	3.81E-04	2.50E-04	3.54E-04	1.74E-04
3054	564811.1	4222267	0.002502	0.003309	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
3055	564821.6	4222233	0.002557	0.003381	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
3056	564826.8	4222216	0.002565	0.003392	1.22E-03	1.36E-03	3.72E-03	1.22E-03	3.37E-04	6.63E-04	3.98E-04	2.61E-04	3.69E-04	1.81E-04
3057	564832.1	4222199	0.002558	0.003383	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
3058	564837.3	4222182	0.002538	0.003356	1.20E-03	1.35E-03	3.68E-03	1.20E-03	3.33E-04	6.56E-04	3.93E-04	2.58E-04	3.65E-04	1.79E-04
3059	564842.5	4222165	0.002503	0.00331	1.19E-03	1.33E-03	3.63E-03	1.19E-03	3.29E-04	6.47E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
3060	564847.8	4222149	0.002456	0.003247	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.22E-04	6.34E-04	3.81E-04	2.50E-04	3.53E-04	1.74E-04
3061	564853	4222132	0.002396	0.003169	1.14E-03	1.27E-03	3.47E-03	1.14E-03	3.15E-04	6.19E-04	3.71E-04	2.44E-04	3.45E-04	1.69E-04
3062	564863.5	4222098	0.002245	0.002969	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.95E-04	5.80E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
3063	564868.8	4222081	0.002157	0.002852	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.53E-04
3064	564874	4222064	0.002063	0.002729	9.78E-04	1.09E-03	2.99E-03	9.78E-04	2.71E-04	5.33E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
3065	564879.3	4222047	0.001967	0.002601	9.32E-04	1.04E-03	2.85E-03	9.32E-04	2.58E-04	5.08E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
3066	564884.5	4222030	0.001869	0.002472	8.85E-04	9.91E-04	2.71E-03	8.85E-04	2.45E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
3067	564889.8	4222013	0.001771	0.002343	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
3068	564895	4221997	0.001674	0.002214	7.93E-04	8.88E-04	2.43E-03	7.93E-04	2.20E-04	4.33E-04	2.60E-04	1.70E-04	2.41E-04	1.18E-04
3069	564900.2	4221980	0.001579	0.002089	7.48E-04	8.37E-04	2.29E-03	7.48E-04	2.07E-04	4.08E-04	2.45E-04	1.60E-04	2.27E-04	1.12E-04
3070	564905.5	4221963	0.001488	0.001969	7.05E-04	7.89E-04	2.16E-03	7.05E-04	1.95E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
3071	564910.7	4221946	0.001402	0.001854	6.64E-04	7.43E-04	2.03E-03	6.64E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.02E-04	9.91E-05
3072	564916	4221929	0.001319	0.001744	6.25E-04	6.99E-04	1.91E-03	6.25E-04	1.73E-04	3.41E-04	2.04E-04	1.34E-04	1.90E-04	9.33E-05
3073	564945.4	4221901	0.001199	0.001585	5.68E-04	6.35E-04	1.74E-03	5.68E-04	1.57E-04	3.10E-04	1.86E-04	1.22E-04	1.72E-04	8.48E-05
3074	564953.4	4221898	0.001184	0.001566	5.61E-04	6.28E-04	1.72E-03	5.61E-04	1.56E-04	3.06E-04	1.84E-04	1.20E-04	1.70E-04	8.37E-05
3075	564969.5	4221890	0.001155	0.001528	5.47E-04	6.12E-04	1.67E-03	5.47E-04	1.52E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.17E-05
3076	564985.6	4221883	0.001125	0.001488	5.33E-04	5.97E-04	1.63E-03	5.33E-04	1.48E-04	2.91E-04	1.74E-04	1.14E-04	1.62E-04	7.96E-05
3077	565001.7	4221876	0.001095	0.001448	5.19E-04	5.80E-04	1.59E-03	5.19E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.57E-04	7.74E-05
3078	565050.1	4221854	0.001004	0.001328	4.76E-04	5.32E-04	1.46E-03	4.76E-04	1.32E-04	2.59E-04	1.56E-04	1.02E-04	1.44E-04	7.10E-05
3079	565066.2	4221847	0.000976	0.001291	4.62E-04	5.18E-04	1.42E-03	4.62E-04	1.28E-04	2.52E-04	1.51E-04	9.92E-05	1.40E-04	6.90E-05
3080	565082.3	4221839	0.000948	0.001254	4.49E-04	5.03E-04	1.38E-03	4.49E-04	1.25E-04	2.45E-04	1.47E-04	9.64E-05	1.36E-04	6.71E-05
3081	564804.3	4222301	0.002427	0.00321	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.47E-04	3.49E-04	1.72E-04
3082	564805.4	4222310	0.00242	0.0032	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.25E-04	3.75E-04	2.46E-04	3.48E-04	1.71E-04
3083	564806.5	4222319	0.00241	0.003187	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.70E-04
3084	564807.6	4222328	0.002397	0.00317	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.19E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
3085	564809.7	4222346	0.002365	0.003128	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.11E-04	6.11E-04	3.67E-04	2.40E-04	3.40E-04	1.67E-04
3086	564810.8	4222355	0.002346	0.003102	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.06E-04	3.64E-04	2.38E-04	3.37E-04	1.66E-04
3087	564786	4222286	0.002328	0.003079	1.10E-03	1.23E-03	3.38E-03	1.10E-03	3.06E-04	6.01E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
3088	564788.7	4222277	0.002351	0.00311	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.07E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
3089	564794	4222260	0.002392	0.003164	1.13E-03	1.27E-03	3.47E-03	1.13E-03	3.14E-04	6.18E-04	3.71E-04	2.43E-04	3.44E-04	1.69E-04
3090	564799.4	4222243	0.002422	0.003203	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.75E-04	2.46E-04	3.48E-04	1.71E-04
3091	564807.4	4222217	0.002443	0.003231	1.16E-03	1.30E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.79E-04	2.48E-04	3.51E-04	1.73E-04

3092	564812.7	4222200	0.002441	0.003228	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.78E-04	2.48E-04	3.51E-04	1.73E-04
3093	564815.4	4222191	0.002435	0.00322	1.15E-03	1.29E-03	3.53E-03	1.15E-03	3.20E-04	6.29E-04	3.77E-04	2.47E-04	3.50E-04	1.72E-04
3094	564820.8	4222174	0.002412	0.00319	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
3095	564826.1	4222157	0.002377	0.003143	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.12E-04	6.14E-04	3.68E-04	2.42E-04	3.42E-04	1.68E-04
3096	564831.4	4222140	0.002329	0.00308	1.10E-03	1.23E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
3097	564836.8	4222122	0.002269	0.003001	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.86E-04	3.52E-04	2.31E-04	3.26E-04	1.61E-04
3098	564844.8	4222097	0.002163	0.00286	1.02E-03	1.15E-03	3.14E-03	1.02E-03	2.84E-04	5.59E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
3099	564863.5	4222037	0.00186	0.002459	8.81E-04	9.86E-04	2.70E-03	8.81E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.32E-04
3100	564868.8	4222019	0.001767	0.002337	8.37E-04	9.37E-04	2.56E-03	8.37E-04	2.32E-04	4.56E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
3101	564871.5	4222011	0.001721	0.002276	8.15E-04	9.12E-04	2.49E-03	8.15E-04	2.26E-04	4.45E-04	2.67E-04	1.75E-04	2.48E-04	1.22E-04
3102	564876.9	4221994	0.001628	0.002154	7.71E-04	8.63E-04	2.36E-03	7.71E-04	2.14E-04	4.21E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
3103	564882.2	4221976	0.001538	0.002034	7.29E-04	8.15E-04	2.23E-03	7.29E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
3104	564884.9	4221968	0.001494	0.001976	7.08E-04	7.92E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
3105	564890.2	4221951	0.001409	0.001863	6.67E-04	7.47E-04	2.04E-03	6.67E-04	1.85E-04	3.64E-04	2.18E-04	1.43E-04	2.03E-04	9.96E-05
3106	564895.6	4221933	0.001327	0.001755	6.29E-04	7.04E-04	1.92E-03	6.29E-04	1.74E-04	3.43E-04	2.06E-04	1.35E-04	1.91E-04	9.39E-05
3107	564900.9	4221916	0.00125	0.001653	5.92E-04	6.63E-04	1.81E-03	5.92E-04	1.64E-04	3.23E-04	1.94E-04	1.27E-04	1.80E-04	8.84E-05
3108	564914.4	4221895	0.001163	0.001539	5.51E-04	6.17E-04	1.69E-03	5.51E-04	1.53E-04	3.01E-04	1.80E-04	1.18E-04	1.67E-04	8.23E-05
3109	564922.6	4221892	0.00115	0.001521	5.45E-04	6.10E-04	1.67E-03	5.45E-04	1.51E-04	2.97E-04	1.78E-04	1.17E-04	1.65E-04	8.13E-05
3110	564939	4221884	0.001123	0.001485	5.32E-04	5.95E-04	1.63E-03	5.32E-04	1.47E-04	2.90E-04	1.74E-04	1.14E-04	1.62E-04	7.94E-05
3111	564955.5	4221877	0.001095	0.001448	5.19E-04	5.81E-04	1.59E-03	5.19E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.57E-04	7.74E-05
3112	564971.9	4221869	0.001067	0.001411	5.05E-04	5.66E-04	1.55E-03	5.05E-04	1.40E-04	2.76E-04	1.65E-04	1.08E-04	1.53E-04	7.54E-05
3113	564980.1	4221866	0.001052	0.001392	4.99E-04	5.58E-04	1.53E-03	4.99E-04	1.38E-04	2.72E-04	1.63E-04	1.07E-04	1.51E-04	7.44E-05
3114	564996.5	4221858	0.001024	0.001354	4.85E-04	5.43E-04	1.48E-03	4.85E-04	1.34E-04	2.64E-04	1.59E-04	1.04E-04	1.47E-04	7.24E-05
3115	565012.9	4221851	0.000995	0.001316	4.71E-04	5.28E-04	1.44E-03	4.71E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.04E-05
3116	565021.1	4221847	0.000981	0.001298	4.65E-04	5.20E-04	1.42E-03	4.65E-04	1.29E-04	2.53E-04	1.52E-04	9.97E-05	1.41E-04	6.94E-05
3117	565037.5	4221840	0.000954	0.001261	4.52E-04	5.06E-04	1.38E-03	4.52E-04	1.25E-04	2.46E-04	1.48E-04	9.69E-05	1.37E-04	6.74E-05
3118	565053.9	4221832	0.000927	0.001226	4.39E-04	4.91E-04	1.34E-03	4.39E-04	1.22E-04	2.39E-04	1.44E-04	9.42E-05	1.33E-04	6.55E-05
3119	565070.3	4221825	0.000901	0.001191	4.27E-04	4.78E-04	1.31E-03	4.27E-04	1.18E-04	2.33E-04	1.40E-04	9.15E-05	1.30E-04	6.37E-05
3120	565078.5	4221821	0.000888	0.001175	4.21E-04	4.71E-04	1.29E-03	4.21E-04	1.17E-04	2.29E-04	1.38E-04	9.03E-05	1.28E-04	6.28E-05
3121	564784.4	4222303	0.002298	0.003039	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.02E-04	5.94E-04	3.56E-04	2.34E-04	3.31E-04	1.63E-04
3122	564785.5	4222312	0.00229	0.003029	1.09E-03	1.21E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
3123	564786.6	4222321	0.00228	0.003015	1.08E-03	1.21E-03	3.31E-03	1.08E-03	2.99E-04	5.89E-04	3.53E-04	2.32E-04	3.28E-04	1.61E-04
3124	564789.9	4222348	0.002236	0.002957	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
3125	564791	4222357	0.002218	0.002933	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
3126	564766.2	4222288	0.002208	0.002921	1.05E-03	1.17E-03	3.20E-03	1.05E-03	2.90E-04	5.71E-04	3.42E-04	2.24E-04	3.18E-04	1.56E-04
3127	564771.5	4222271	0.002252	0.002978	1.07E-03	1.19E-03	3.26E-03	1.07E-03	2.96E-04	5.82E-04	3.49E-04	2.29E-04	3.24E-04	1.59E-04
3128	564776.8	4222254	0.002289	0.003027	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.01E-04	5.91E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
3129	564782.1	4222237	0.002314	0.00306	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.98E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
3130	564792.8	4222203	0.00233	0.003082	1.10E-03	1.24E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
3131	564798.1	4222185	0.002321	0.00307	1.10E-03	1.23E-03	3.37E-03	1.10E-03	3.05E-04	6.00E-04	3.60E-04	2.36E-04	3.34E-04	1.64E-04
3132	564803.4	4222168	0.0023	0.003042	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.02E-04	5.94E-04	3.57E-04	2.34E-04	3.31E-04	1.63E-04
3133	564808.7	4222151	0.002267	0.002998	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.51E-04	2.30E-04	3.26E-04	1.60E-04
3134	564814.1	4222134	0.002222	0.002938	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.44E-04	2.26E-04	3.20E-04	1.57E-04
3135	564824.7	4222100	0.002102	0.00278	9.96E-04	1.11E-03	3.05E-03	9.96E-04	2.76E-04	5.43E-04	3.26E-04	2.14E-04	3.02E-04	1.49E-04
3136	564830	4222083	0.002032	0.002687	9.62E-04	1.08E-03	2.95E-03	9.62E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
3137	564835.4	4222066	0.001955	0.002586	9.26E-04	1.04E-03	2.83E-03	9.26E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
3138	564840.7	4222048	0.001873	0.002477	8.87E-04	9.93E-04	2.72E-03	8.87E-04	2.46E-04	4.84E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
3139	564846	4222031	0.001789	0.002365	8.47E-04	9.48E-04	2.59E-03	8.47E-04	2.35E-04	4.62E-04	2.77E-04	1.82E-04	2.57E-04	1.26E-04
3140	564862	4221980	0.001532	0.002026	7.26E-04	8.12E-04	2.22E-03	7.26E-04	2.01E-04	3.96E-04	2.37E-04	1.56E-04	2.20E-04	1.08E-04
3141	564867.3	4221963	0.001449	0.001917	6.87E-04	7.68E-04	2.10E-03	6.87E-04	1.90E-04	3.74E-04	2.25E-04	1.47E-04	2.08E-04	1.02E-04
3142	564870	4221954	0.001409	0.001864	6.68E-04	7.47E-04	2.04E-03	6.68E-04	1.85E-04	3.64E-04	2.18E-04	1.43E-04	2.03E-04	9.97E-05
3143	564875.3	4221937	0.001331	0.00176	6.31E-04	7.06E-04	1.93E-03	6.31E-04	1.75E-04	3.44E-04	2.06E-04	1.35E-04	1.91E-04	9.41E-05
3144	564880.6	4221920	0.001256	0.001661	5.95E-04	6.66E-04	1.82E-03	5.95E-04	1.65E-04	3.24E-04	1.95E-04	1.28E-04	1.81E-04	8.88E-05
3145	564885.9	4221903	0.001185	0.001567	5.61E-04	6.28E-04	1.72E-03	5.61E-04	1.56E-04	3.06E-04	1.84E-04	1.20E-04	1.70E-04	8.38E-05
3146	564899.4	4221882	0.001105	0.001461	5.23E-04	5.86E-04	1.60E-03	5.23E-04	1.45E-04	2.85E-04	1.71E-04	1.12E-04	1.59E-04	7.81E-05
3147	564915.8	4221875	0.00108	0.001428	5.12E-04	5.73E-04	1.57E-03	5.12E-04	1.42E-04	2.79E-04	1.67E-04	1.10E-04	1.55E-04	7.64E-05
3148	564948.5	4221860	0.001029	0.00136	4.87E-04	5.45E-04	1.49E-03	4.87E-04	1.35E-04	2.66E-04	1.59E-04	1.05E-04	1.48E-04	7.27E-05
3149	564956.6	4221856	0.001016	0.001343	4.81E-04	5.38E-04	1.47E-03	4.81E-04	1.33E-04	2.62E-04	1.57E-04	1.03E-04	1.46E-04	7.18E-05
3150	564973	4221849	0.000989	0.001308	4.69E-04	5.24E-04	1.43E-03	4.69E-04	1.30E-04	2.56E-04	1.53E-04	1.01E-04	1.42E-04	6.99E-05
3151	564981.1	4221845	0.000976	0.001291	4.62E-04	5.17E-04	1.41E-03	4.62E-04	1.28E-04	2.52E-04	1.51E-04	9.92E-05	1.40E-04	6.90E-05
3152	564997.5	4221838	0.00095	0.001256	4.50E-04	5.04E-04	1.38E-03	4.50E-04	1.25E-04	2.45E-04	1.47E-04	9.65E-05	1.37E-04	6.72E-05
3153	565013.8	4221830	0.000924	0.001222	4.38E-04	4.90E-04	1.34E-03	4.38E-04	1.21E-04	2.39E-04	1.43E-04	9.39E-05	1.33E-04	6.54E-05
3154	565022	4221827	0.000911	0.001205	4.32E-04	4.83E-04	1.32E-03	4.32E-04	1.20E-04	2.35E-04	1.41E-04	9.26E-05	1.31E-04	6.45E-05
3155	565038.3	4221819	0.000887	0.001173	4.20E-04	4.70E-04	1.29E-03	4.20E-04	1.16E-04	2.29E-04	1.37E-04	9.01E-05	1.28E-04	6.27E-05
3156	565054.7	4221812	0.000863	0.001141	4.09E-04	4.57E-04	1.25E-03	4.09E-04	1.13E-04	2.23E-04	1.34E-04	8.77E-05	1.24E-04	6.10E-05
3157	565062.9	4221808	0.000851	0.001125	4.03E-04	4.51E-04	1.23E-03	4.03E-04	1.12E-04	2.20E-04	1.32E-04	8.65E-05	1.22E-04	6.02E-05
3158	564763.5	4222297	0.002184	0.002889	1.03E-03	1.16E-03	3.17E-03	1.03E-03	2.87E-04	5.64E-04	3.39E-04	2.22E-04	3.14E-04	1.54E-04
3159	564764.6	4222306	0.002179	0.002881	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.21E-04	3.13E-04	1.54E-04
3160	564766.8	4222324	0.00216	0.002857	1.02E-03	1.15E-03	3.13E-03	1.02E-03	2.84E-04	5.58E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
3161	564767.9	4222333	0.002148	0.002841	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.55E-04	3.33E-04	2.18E-04	3.09E-04	1.52E-04
3162	564771.1	4222359	0.0021	0.002777	9.95E-04	1.11E-03	3.04E-03	9.95E-04	2.76E-04	5.43E-04	3.26E-04	2.13E-04	3.02E-04	1.49E-04
3163	564746.3	4222291	0.002098	0.002774	9.94E-04	1.11E-03	3.04E-03	9.94E-04	2.75E-04	5.42E-04	3.25E-04	2.13E-04	3.02E-04	1.48E-04
3164	564751.6	4222274	0.00214	0.00283	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
3165	564756.9	4222257	0.002176	0.002878	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.86E-04	5.62E-04	3.37E-04	2.21E-04	3.13E-04	1.54E-04
3166	564762.2	4222239	0.002203	0.002914	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.69E-04	3.42E-04	2.24E-04	3.17E-04	1.56E-04
3167	564767.5	4222222	0.002219	0.002934	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
3168	564772.8	4222205	0.002225	0.002942	1.05E-03	1.18E-03	3.23E-03	1.05E-03	2.92E-04	5.75E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
3169	564786.1	4222163	0.002195	0.002902	1.04E-03	1.16E-03	3.18E-03	1.04E-03	2.88E-04	5.67E-04	3.40E-04	2.23E-04	3.16E-04	1.55E-04
3170	564791.4	4222146	0.002164	0.002862	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.84E-04	5.59E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
3171	564796.7	4222129	0.002123	0.002807	1.01E-03	1.13E-03	3.08E-03	1.01E-03	2.79E-04	5.48E-04	3.29E-04	2.16E-04	3.05E-04	1.50E-04
3172	564807.3	4222094	0.002012	0.002661	9.53E-04	1.07E-03	2.92E-03	9.53E-04	2.64E-04	5.20E-04	3.12E-04	2.04E-04	2.89E-04	1.42E-04
3173	564812.6	4222077	0.001946	0.002574	9.22E-04	1.03E-03	2.82E-03	9.22E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
3174	564817.9	4222060	0.001875	0.00248	8.88E-04	9.94E-04	2.72E-03	8.88E-04	2.46E-04	4.84E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
3175	564823.2	4222043	0.0018	0.00238	8.53E-04	9.54E-04	2.61E-03	8.53E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
3176	564828.5	4222026	0.001721	0.002276	8.15E-04	9.13E-04	2.50E-03	8.15E-04	2.26E-04	4.45E-04	2.67E-04	1.75E-04	2.48E-04	1.22E-04
3177	564833.8	4222009	0.001641	0.00217	7.77E-04	8.70E-04	2.38E-03	7.77E-04	2.15E-04	4.24E-04	2.54E-04	1.67E-04	2.36E-04	1.16E-04
3178	564839.1	4221992	0.001562	0.002065	7.40E-04	8.28E-04	2.26E-03	7.40E-04	2.05E-04	4.03E-04	2.42E-04	1.59E-04	2.25E-04	1.10E-04
3179	564844.4	4221975	0.001483	0.001961	7.03E-04	7.86E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.13E-04	1.05E-04
3180	564863	4221915	0.001225	0.00162	5.80E-04	6.49E-04	1.78E-03	5.80E-04	1.61E-04	3.16E-04	1.90E-04	1.24E-04	1.76E-04	8.66E-05
3181	564868.3	4221898	0.001157	0.00153	5.48E-04	6.13E-04	1.68E-03	5.48E-04	1.52E-04	2.99E-04	1.79E-04	1.18E-04	1.66E-04	8.18E-05
3182	564873.6	4221881	0.001092	0.001445	5.17E-04	5.79E-04	1.58E-03	5.17E-04	1.43E-04	2.82E-04	1.69E-04	1.11E-04	1.57E-04	7.72E-05

3183	564884.4	4221869	0.001051	0.001389	4.98E-04	5.57E-04	1.52E-03	4.98E-04	1.38E-04	2.71E-04	1.63E-04	1.07E-04	1.51E-04	7.43E-05
3184	564892.6	4221865	0.001039	0.001374	4.92E-04	5.51E-04	1.51E-03	4.92E-04	1.36E-04	2.68E-04	1.61E-04	1.06E-04	1.49E-04	7.35E-05
3185	564908.8	4221858	0.001015	0.001343	4.81E-04	5.38E-04	1.47E-03	4.81E-04	1.33E-04	2.62E-04	1.57E-04	1.03E-04	1.46E-04	7.18E-05
3186	564917	4221854	0.001003	0.001327	4.75E-04	5.32E-04	1.45E-03	4.75E-04	1.32E-04	2.59E-04	1.56E-04	1.02E-04	1.44E-04	7.10E-05
3187	564949.6	4221839	0.000956	0.001264	4.53E-04	5.07E-04	1.39E-03	4.53E-04	1.25E-04	2.47E-04	1.48E-04	9.71E-05	1.37E-04	6.76E-05
3188	564957.7	4221836	0.000943	0.001248	4.47E-04	5.00E-04	1.37E-03	4.47E-04	1.24E-04	2.44E-04	1.46E-04	9.59E-05	1.36E-04	6.67E-05
3189	564974	4221828	0.000919	0.001216	4.36E-04	4.88E-04	1.33E-03	4.36E-04	1.21E-04	2.38E-04	1.43E-04	9.34E-05	1.32E-04	6.50E-05
3190	564982.1	4221825	0.000908	0.0012	4.30E-04	4.81E-04	1.32E-03	4.30E-04	1.19E-04	2.34E-04	1.41E-04	9.22E-05	1.31E-04	6.42E-05
3191	564998.4	4221817	0.000884	0.001169	4.19E-04	4.69E-04	1.28E-03	4.19E-04	1.16E-04	2.28E-04	1.37E-04	8.98E-05	1.27E-04	6.25E-05
3192	565014.7	4221810	0.000861	0.001138	4.08E-04	4.56E-04	1.25E-03	4.08E-04	1.13E-04	2.22E-04	1.33E-04	8.75E-05	1.24E-04	6.09E-05
3193	565022.9	4221806	0.000849	0.001123	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.12E-04	2.19E-04	1.32E-04	8.63E-05	1.22E-04	6.01E-05
3194	565039.1	4221799	0.000827	0.001094	3.92E-04	4.38E-04	1.20E-03	3.92E-04	1.09E-04	2.14E-04	1.28E-04	8.40E-05	1.19E-04	5.85E-05
3195	565047.3	4221795	0.000816	0.001079	3.87E-04	4.33E-04	1.18E-03	3.87E-04	1.07E-04	2.11E-04	1.26E-04	8.29E-05	1.17E-04	5.77E-05
3196	564744.7	4222308	0.002067	0.002734	9.79E-04	1.10E-03	3.00E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
3197	564745.8	4222317	0.002059	0.002723	9.76E-04	1.09E-03	2.99E-03	9.76E-04	2.70E-04	5.32E-04	3.19E-04	2.09E-04	2.96E-04	1.46E-04
3198	564746.9	4222326	0.00205	0.002711	9.71E-04	1.09E-03	2.97E-03	9.71E-04	2.69E-04	5.30E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
3199	564748	4222335	0.002038	0.002696	9.66E-04	1.08E-03	2.96E-03	9.66E-04	2.68E-04	5.27E-04	3.16E-04	2.07E-04	2.93E-04	1.44E-04
3200	564749.1	4222344	0.002024	0.002677	9.59E-04	1.07E-03	2.94E-03	9.59E-04	2.66E-04	5.23E-04	3.14E-04	2.06E-04	2.91E-04	1.43E-04
3201	564750.2	4222353	0.002009	0.002657	9.52E-04	1.07E-03	2.91E-03	9.52E-04	2.64E-04	5.19E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
3202	564737	4222259	0.002072	0.00274	9.82E-04	1.10E-03	3.00E-03	9.82E-04	2.72E-04	5.35E-04	3.21E-04	2.11E-04	2.98E-04	1.47E-04
3203	564742.3	4222242	0.002099	0.002776	9.94E-04	1.11E-03	3.04E-03	9.94E-04	2.76E-04	5.42E-04	3.25E-04	2.13E-04	3.02E-04	1.48E-04
3204	564747.6	4222225	0.002118	0.002801	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.05E-04	1.50E-04
3205	564752.9	4222208	0.002127	0.002813	1.01E-03	1.13E-03	3.08E-03	1.01E-03	2.79E-04	5.50E-04	3.30E-04	2.16E-04	3.06E-04	1.50E-04
3206	564758.2	4222191	0.002127	0.002813	1.01E-03	1.13E-03	3.08E-03	1.01E-03	2.79E-04	5.50E-04	3.30E-04	2.16E-04	3.06E-04	1.50E-04
3207	564763.5	4222174	0.002117	0.0028	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.05E-04	1.50E-04
3208	564768.7	4222157	0.002097	0.002773	9.93E-04	1.11E-03	3.04E-03	9.93E-04	2.75E-04	5.42E-04	3.25E-04	2.13E-04	3.02E-04	1.48E-04
3209	564789.9	4222089	0.001928	0.00255	9.13E-04	1.02E-03	2.80E-03	9.13E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
3210	564795.2	4222072	0.001866	0.002468	8.84E-04	9.90E-04	2.71E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
3211	564800.5	4222055	0.0018	0.00238	8.53E-04	9.54E-04	2.61E-03	8.53E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
3212	564805.8	4222038	0.00173	0.002288	8.19E-04	9.17E-04	2.51E-03	8.19E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
3213	564811	4222021	0.001657	0.002192	7.85E-04	8.79E-04	2.40E-03	7.85E-04	2.18E-04	4.28E-04	2.57E-04	1.68E-04	2.38E-04	1.17E-04
3214	564816.3	4222004	0.001584	0.002094	7.50E-04	8.40E-04	2.30E-03	7.50E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
3215	564821.6	4221987	0.00151	0.001996	7.15E-04	8.00E-04	2.19E-03	7.15E-04	1.98E-04	3.90E-04	2.34E-04	1.53E-04	2.17E-04	1.07E-04
3216	564826.9	4221970	0.001436	0.0019	6.81E-04	7.62E-04	2.08E-03	6.81E-04	1.89E-04	3.71E-04	2.23E-04	1.46E-04	2.07E-04	1.02E-04
3217	564832.2	4221953	0.001365	0.001805	6.46E-04	7.24E-04	1.98E-03	6.46E-04	1.79E-04	3.53E-04	2.12E-04	1.39E-04	1.96E-04	9.65E-05
3218	564837.5	4221936	0.001295	0.001712	6.13E-04	6.86E-04	1.88E-03	6.13E-04	1.70E-04	3.34E-04	2.01E-04	1.32E-04	1.86E-04	9.16E-05
3219	564842.8	4221919	0.001227	0.001623	5.81E-04	6.51E-04	1.78E-03	5.81E-04	1.61E-04	3.17E-04	1.90E-04	1.25E-04	1.76E-04	8.68E-05
3220	564848.1	4221902	0.001161	0.001536	5.50E-04	6.16E-04	1.68E-03	5.50E-04	1.52E-04	3.00E-04	1.80E-04	1.18E-04	1.67E-04	8.21E-05
3221	564869.4	4221856	0.001001	0.001323	4.74E-04	5.30E-04	1.45E-03	4.74E-04	1.31E-04	2.58E-04	1.55E-04	1.02E-04	1.44E-04	7.08E-05
3222	564885.6	4221848	0.000979	0.001295	4.64E-04	5.19E-04	1.42E-03	4.64E-04	1.29E-04	2.53E-04	1.52E-04	9.95E-05	1.41E-04	6.92E-05
3223	564901.9	4221841	0.000957	0.001266	4.53E-04	5.08E-04	1.39E-03	4.53E-04	1.26E-04	2.47E-04	1.48E-04	9.73E-05	1.38E-04	6.77E-05
3224	564910	4221837	0.000946	0.001251	4.48E-04	5.02E-04	1.37E-03	4.48E-04	1.24E-04	2.44E-04	1.47E-04	9.61E-05	1.36E-04	6.69E-05
3225	564934.3	4221826	0.000912	0.001207	4.32E-04	4.84E-04	1.32E-03	4.32E-04	1.20E-04	2.36E-04	1.41E-04	9.27E-05	1.31E-04	6.45E-05
3226	564950.6	4221819	0.00089	0.001177	4.22E-04	4.72E-04	1.29E-03	4.22E-04	1.17E-04	2.30E-04	1.38E-04	9.04E-05	1.28E-04	6.29E-05
3227	564958.7	4221815	0.000879	0.001162	4.16E-04	4.66E-04	1.27E-03	4.16E-04	1.15E-04	2.27E-04	1.36E-04	8.93E-05	1.26E-04	6.21E-05
3228	564974.9	4221808	0.000857	0.001133	4.06E-04	4.54E-04	1.24E-03	4.06E-04	1.13E-04	2.21E-04	1.33E-04	8.71E-05	1.23E-04	6.06E-05
3229	564983	4221804	0.000846	0.001118	4.01E-04	4.48E-04	1.23E-03	4.01E-04	1.11E-04	2.18E-04	1.31E-04	8.59E-05	1.22E-04	5.98E-05
3230	564999.3	4221797	0.000824	0.00109	3.91E-04	4.37E-04	1.20E-03	3.91E-04	1.08E-04	2.13E-04	1.28E-04	8.38E-05	1.19E-04	5.83E-05
3231	565023.6	4221786	0.000793	0.001049	3.76E-04	4.20E-04	1.15E-03	3.76E-04	1.04E-04	2.05E-04	1.23E-04	8.06E-05	1.14E-04	5.61E-05
3232	565031.8	4221782	0.000783	0.001035	3.71E-04	4.15E-04	1.13E-03	3.71E-04	1.03E-04	2.02E-04	1.21E-04	7.95E-05	1.13E-04	5.54E-05
3233	564724.9	4222311	0.001966	0.0026	9.31E-04	1.04E-03	2.85E-03	9.31E-04	2.58E-04	5.08E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
3234	564726	4222320	0.001958	0.002589	9.28E-04	1.04E-03	2.84E-03	9.28E-04	2.57E-04	5.06E-04	3.04E-04	1.99E-04	2.82E-04	1.38E-04
3235	564727.1	4222329	0.001948	0.002577	9.23E-04	1.03E-03	2.82E-03	9.23E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
3236	564728.2	4222337	0.001937	0.002562	9.18E-04	1.03E-03	2.81E-03	9.18E-04	2.54E-04	5.00E-04	3.00E-04	1.97E-04	2.79E-04	1.37E-04
3237	564729.2	4222346	0.001924	0.002544	9.11E-04	1.02E-03	2.79E-03	9.11E-04	2.53E-04	4.97E-04	2.98E-04	1.96E-04	2.77E-04	1.36E-04
3238	564730.3	4222355	0.001909	0.002525	9.05E-04	1.01E-03	2.77E-03	9.05E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
3239	564731.4	4222364	0.001893	0.002504	8.97E-04	1.00E-03	2.75E-03	8.97E-04	2.49E-04	4.89E-04	2.94E-04	1.92E-04	2.72E-04	1.34E-04
3240	564706.6	4222296	0.001901	0.002514	9.01E-04	1.01E-03	2.76E-03	9.01E-04	2.50E-04	4.91E-04	2.95E-04	1.93E-04	2.73E-04	1.34E-04
3241	564711.8	4222279	0.001941	0.002567	9.20E-04	1.03E-03	2.81E-03	9.20E-04	2.55E-04	5.01E-04	3.01E-04	1.97E-04	2.79E-04	1.37E-04
3242	564717.1	4222262	0.001975	0.002613	9.36E-04	1.05E-03	2.86E-03	9.36E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
3243	564722.4	4222245	0.002003	0.002649	9.49E-04	1.06E-03	2.90E-03	9.49E-04	2.63E-04	5.17E-04	3.11E-04	2.04E-04	2.88E-04	1.42E-04
3244	564727.7	4222228	0.002023	0.002676	9.59E-04	1.07E-03	2.93E-03	9.59E-04	2.66E-04	5.23E-04	3.14E-04	2.06E-04	2.91E-04	1.43E-04
3245	564732.9	4222211	0.002035	0.002692	9.64E-04	1.08E-03	2.95E-03	9.64E-04	2.67E-04	5.26E-04	3.16E-04	2.07E-04	2.93E-04	1.44E-04
3246	564738.2	4222194	0.002039	0.002696	9.66E-04	1.08E-03	2.96E-03	9.66E-04	2.68E-04	5.27E-04	3.16E-04	2.07E-04	2.93E-04	1.44E-04
3247	564743.5	4222177	0.002033	0.002689	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.07E-04	2.92E-04	1.44E-04
3248	564748.8	4222160	0.002018	0.002669	9.56E-04	1.07E-03	2.93E-03	9.56E-04	2.65E-04	5.21E-04	3.13E-04	2.05E-04	2.90E-04	1.43E-04
3249	564754	4222143	0.001995	0.002638	9.45E-04	1.06E-03	2.89E-03	9.45E-04	2.62E-04	5.15E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
3250	564759.3	4222126	0.001963	0.002597	9.30E-04	1.04E-03	2.85E-03	9.30E-04	2.58E-04	5.07E-04	3.04E-04	2.00E-04	2.82E-04	1.39E-04
3251	564769.8	4222092	0.001876	0.00248	8.89E-04	9.94E-04	2.72E-03	8.89E-04	2.46E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
3252	564785.7	4222041	0.001698	0.002246	8.05E-04	9.00E-04	2.46E-03	8.05E-04	2.23E-04	4.39E-04	2.63E-04	1.73E-04	2.44E-04	1.20E-04
3253	564790.9	4222024	0.001632	0.002158	7.73E-04	8.65E-04	2.37E-03	7.73E-04	2.14E-04	4.22E-04	2.53E-04	1.66E-04	2.35E-04	1.15E-04
3254	564796.2	4222007	0.001564	0.002068	7.41E-04	8.29E-04	2.27E-03	7.41E-04	2.05E-04	4.04E-04	2.42E-04	1.59E-04	2.25E-04	1.11E-04
3255	564801.5	4221990	0.001495	0.001977	7.08E-04	7.93E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
3256	564806.7	4221973	0.001426	0.001886	6.76E-04	7.56E-04	2.07E-03	6.76E-04	1.87E-04	3.68E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
3257	564812	4221956	0.001358	0.001796	6.43E-04	7.20E-04	1.97E-03	6.43E-04	1.78E-04	3.51E-04	2.11E-04	1.38E-04	1.95E-04	9.61E-05
3258	564817.3	4221939	0.001292	0.001708	6.12E-04	6.85E-04	1.87E-03	6.12E-04	1.70E-04	3.34E-04	2.00E-04	1.31E-04	1.86E-04	9.13E-05
3259	564822.6	4221922	0.001227	0.001623	5.81E-04	6.50E-04	1.78E-03	5.81E-04	1.61E-04	3.17E-04	1.90E-04	1.25E-04	1.76E-04	8.68E-05
3260	564827.8	4221905	0.001164	0.001539	5.51E-04	6.17E-04	1.69E-03	5.51E-04	1.53E-04	3.01E-04	1.80E-04	1.18E-04	1.67E-04	8.23E-05
3261	564833.1	4221888	0.001103	0.001459	5.23E-04	5.85E-04	1.60E-03	5.23E-04	1.45E-04	2.85E-04	1.71E-04	1.12E-04	1.59E-04	7.80E-05
3262	564838.4	4221871	0.001045	0.001382	4.95E-04	5.54E-04	1.52E-03	4.95E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.39E-05
3263	564843.7	4221854	0.000991	0.00131	4.69E-04	5.25E-04	1.44E-03	4.69E-04	1.30E-04	2.56E-04	1.54E-04	1.01E-04	1.42E-04	7.01E-05
3264	564902.9	4221820	0.000894	0.001182	4.23E-04	4.74E-04	1.30E-03	4.23E-04	1.17E-04	2.31E-04	1.39E-04	9.08E-05	1.29E-04	6.32E-05
3265	564911	4221817	0.000883	0.001168	4.18E-04	4.68E-04	1.28E-03	4.18E-04	1.16E-04	2.28E-04	1.37E-04	8.98E-05	1.27E-04	6.25E-05
3266	564927.2	4221809	0.000862	0.00114	4.08E-04	4.57E-04	1.25E-03	4.08E-04	1.13E-04	2.23E-04	1.34E-04	8.76E-05	1.24E-04	6.10E-05
3267	564935.3	4221806	0.000852	0.001127	4.04E-04	4.52E-04	1.23E-03	4.04E-04	1.12E-04	2.20E-04	1.32E-04	8.66E-05	1.23E-04	6.02E-05
3268	564951.5	4221798	0.000831	0.001099	3.94E-04	4.41E-04	1.20E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.44E-05	1.20E-04	5.88E-05
3269	564967.7	4221791	0.00081	0.001072	3.84E-04	4.30E-04	1.17E-03	3.84E-04	1.06E-04	2.09E-04	1.26E-04	8.24E-05	1.17E-04	5.73E-05
3270	564983.9	4221784	0.00079	0.001045	3.74E-04	4.19E-04	1.15E-03	3.74E-04	1.04E-04	2.04E-04	1.23E-04	8.03E-05	1.14E-04	5.59E-05
3271	565008.2	4221773	0.000761	0.001007	3.61E-04	4.04E-04	1.10E-03	3.61E-04	1.00E-04	1.97E-04	1.18E-04	7.74E-05	1.09E-04	5.38E-05
3272	565016.3	4221769	0.000752	0.000994	3.56E-04	3.98E-04	1.09E-03	3.56E-04	9.87E-05	1.94E-04	1.17E-04	7.64E-05	1.08E-04	5.32E-05
3273	564706.1	4222322	0.001864	0.002465	8.83E-04	9.88E-04	2.70E-03	8.83E-04	2.45E-04	4.82E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04

3274	564707.2	4222331	0.001854	0.002452	8.79E-04	9.83E-04	2.69E-03	8.79E-04	2.44E-04	4.79E-04	2.87E-04	1.88E-04	2.67E-04	1.31E-04
3275	564708.3	4222340	0.001843	0.002438	8.73E-04	9.77E-04	2.67E-03	8.73E-04	2.42E-04	4.76E-04	2.86E-04	1.87E-04	2.65E-04	1.30E-04
3276	564709.4	4222349	0.001831	0.002422	8.67E-04	9.71E-04	2.65E-03	8.67E-04	2.40E-04	4.73E-04	2.84E-04	1.86E-04	2.63E-04	1.29E-04
3277	564710.5	4222358	0.001818	0.002404	8.61E-04	9.64E-04	2.63E-03	8.61E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.61E-04	1.29E-04
3278	564686.8	4222298	0.001813	0.002398	8.59E-04	9.61E-04	2.63E-03	8.59E-04	2.38E-04	4.68E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
3279	564692.1	4222281	0.001853	0.00245	8.78E-04	9.82E-04	2.69E-03	8.78E-04	2.43E-04	4.79E-04	2.87E-04	1.88E-04	2.67E-04	1.31E-04
3280	564697.5	4222263	0.001887	0.002495	8.94E-04	1.00E-03	2.74E-03	8.94E-04	2.48E-04	4.87E-04	2.93E-04	1.92E-04	2.71E-04	1.33E-04
3281	564702.8	4222246	0.001915	0.002532	9.07E-04	1.02E-03	2.78E-03	9.07E-04	2.51E-04	4.95E-04	2.97E-04	1.95E-04	2.75E-04	1.35E-04
3282	564708.2	4222229	0.001936	0.00256	9.17E-04	1.03E-03	2.81E-03	9.17E-04	2.54E-04	5.00E-04	3.00E-04	1.97E-04	2.78E-04	1.37E-04
3283	564713.5	4222212	0.00195	0.002578	9.24E-04	1.03E-03	2.83E-03	9.24E-04	2.56E-04	5.04E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
3284	564718.9	4222195	0.001955	0.002585	9.26E-04	1.04E-03	2.83E-03	9.26E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
3285	564724.2	4222177	0.001952	0.002582	9.25E-04	1.03E-03	2.83E-03	9.25E-04	2.56E-04	5.04E-04	3.03E-04	1.98E-04	2.81E-04	1.38E-04
3286	564726.9	4222169	0.001947	0.002575	9.23E-04	1.03E-03	2.82E-03	9.23E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
3287	564732.3	4222151	0.001931	0.002554	9.15E-04	1.02E-03	2.80E-03	9.15E-04	2.54E-04	4.99E-04	2.99E-04	1.96E-04	2.78E-04	1.37E-04
3288	564737.6	4222134	0.001907	0.002522	9.03E-04	1.01E-03	2.76E-03	9.03E-04	2.50E-04	4.93E-04	2.96E-04	1.94E-04	2.74E-04	1.35E-04
3289	564748.3	4222100	0.001834	0.002426	8.69E-04	9.72E-04	2.66E-03	8.69E-04	2.41E-04	4.74E-04	2.84E-04	1.86E-04	2.64E-04	1.30E-04
3290	564751	4222091	0.001812	0.002396	8.58E-04	9.61E-04	2.63E-03	8.58E-04	2.38E-04	4.68E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
3291	564756.4	4222074	0.001762	0.00233	8.35E-04	9.34E-04	2.55E-03	8.35E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.53E-04	1.25E-04
3292	564761.7	4222057	0.001707	0.002258	8.09E-04	9.05E-04	2.48E-03	8.09E-04	2.24E-04	4.41E-04	2.65E-04	1.74E-04	2.46E-04	1.21E-04
3293	564767.1	4222039	0.001648	0.00218	7.81E-04	8.74E-04	2.39E-03	7.81E-04	2.16E-04	4.26E-04	2.56E-04	1.68E-04	2.37E-04	1.17E-04
3294	564785.8	4221979	0.001423	0.001882	6.74E-04	7.55E-04	2.06E-03	6.74E-04	1.87E-04	3.68E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
3295	564791.2	4221962	0.001358	0.001796	6.43E-04	7.20E-04	1.97E-03	6.43E-04	1.78E-04	3.51E-04	2.11E-04	1.38E-04	1.95E-04	9.61E-05
3296	564796.5	4221945	0.001294	0.001711	6.13E-04	6.86E-04	1.88E-03	6.13E-04	1.70E-04	3.34E-04	2.01E-04	1.31E-04	1.86E-04	9.15E-05
3297	564801.9	4221927	0.001231	0.001628	5.83E-04	6.53E-04	1.78E-03	5.83E-04	1.62E-04	3.18E-04	1.91E-04	1.25E-04	1.77E-04	8.70E-05
3298	564807.2	4221910	0.001169	0.001546	5.54E-04	6.20E-04	1.70E-03	5.54E-04	1.54E-04	3.02E-04	1.81E-04	1.19E-04	1.68E-04	8.27E-05
3299	564809.9	4221902	0.001139	0.001506	5.40E-04	6.04E-04	1.65E-03	5.40E-04	1.50E-04	2.94E-04	1.77E-04	1.16E-04	1.64E-04	8.05E-05
3300	564815.2	4221884	0.00108	0.001429	5.12E-04	5.73E-04	1.57E-03	5.12E-04	1.42E-04	2.79E-04	1.67E-04	1.10E-04	1.55E-04	7.64E-05
3301	564820.6	4221867	0.001025	0.001355	4.85E-04	5.43E-04	1.49E-03	4.85E-04	1.35E-04	2.65E-04	1.59E-04	1.04E-04	1.47E-04	7.25E-05
3302	564826	4221850	0.000971	0.001285	4.60E-04	5.15E-04	1.41E-03	4.60E-04	1.28E-04	2.51E-04	1.51E-04	9.87E-05	1.40E-04	6.87E-05
3303	564856	4221822	0.000893	0.001181	4.23E-04	4.73E-04	1.29E-03	4.23E-04	1.17E-04	2.31E-04	1.38E-04	9.07E-05	1.28E-04	6.31E-05
3304	564872.4	4221814	0.000874	0.001155	4.14E-04	4.63E-04	1.27E-03	4.14E-04	1.15E-04	2.26E-04	1.35E-04	8.88E-05	1.26E-04	6.18E-05
3305	564888.8	4221807	0.000854	0.001129	4.05E-04	4.53E-04	1.24E-03	4.05E-04	1.12E-04	2.21E-04	1.32E-04	8.68E-05	1.23E-04	6.04E-05
3306	564905.3	4221799	0.000834	0.001103	3.95E-04	4.42E-04	1.21E-03	3.95E-04	1.10E-04	2.15E-04	1.29E-04	8.48E-05	1.20E-04	5.90E-05
3307	564913.5	4221796	0.000824	0.00109	3.90E-04	4.37E-04	1.19E-03	3.90E-04	1.08E-04	2.13E-04	1.28E-04	8.38E-05	1.19E-04	5.83E-05
3308	564929.9	4221788	0.000804	0.001064	3.81E-04	4.26E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.17E-05	1.16E-04	5.69E-05
3309	564946.4	4221781	0.000785	0.001038	3.72E-04	4.16E-04	1.14E-03	3.72E-04	1.03E-04	2.03E-04	1.22E-04	7.98E-05	1.13E-04	5.55E-05
3310	564962.8	4221773	0.000765	0.001012	3.63E-04	4.06E-04	1.11E-03	3.63E-04	1.01E-04	1.98E-04	1.19E-04	7.78E-05	1.10E-04	5.41E-05
3311	564971	4221770	0.000756	0.001	3.58E-04	4.01E-04	1.10E-03	3.58E-04	9.93E-05	1.95E-04	1.17E-04	7.68E-05	1.09E-04	5.35E-05
3312	565003.9	4221755	0.000719	0.000951	3.41E-04	3.81E-04	1.04E-03	3.41E-04	9.45E-05	1.86E-04	1.12E-04	7.31E-05	1.03E-04	5.09E-05
3313	564685.2	4222315	0.001785	0.002361	8.46E-04	9.46E-04	2.59E-03	8.46E-04	2.34E-04	4.61E-04	2.77E-04	1.81E-04	2.57E-04	1.26E-04
3314	564688.4	4222342	0.001757	0.002323	8.32E-04	9.31E-04	2.55E-03	8.32E-04	2.31E-04	4.54E-04	2.72E-04	1.79E-04	2.53E-04	1.24E-04
3315	564690.6	4222360	0.001732	0.00229	8.20E-04	9.18E-04	2.51E-03	8.20E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
3316	565244.7	4222311	0.021366	0.028256	1.01E-02	1.13E-02	3.10E-02	1.01E-02	2.81E-03	5.52E-03	3.31E-03	2.17E-03	3.07E-03	1.51E-03
3317	565245.8	4222321	0.021241	0.028091	1.01E-02	1.13E-02	3.08E-02	1.01E-02	2.79E-03	5.49E-03	3.29E-03	2.16E-03	3.06E-03	1.50E-03
3318	565247	4222330	0.020884	0.027619	9.89E-03	1.11E-02	3.03E-02	9.89E-03	2.74E-03	5.40E-03	3.24E-03	2.12E-03	3.00E-03	1.48E-03
3319	565248.2	4222339	0.020309	0.026858	9.62E-03	1.08E-02	2.94E-02	9.62E-03	2.67E-03	5.25E-03	3.15E-03	2.06E-03	2.92E-03	1.44E-03
3320	565249.3	4222348	0.019545	0.025849	9.26E-03	1.04E-02	2.83E-02	9.26E-03	2.57E-03	5.05E-03	3.03E-03	1.99E-03	2.81E-03	1.38E-03
3321	565250.5	4222358	0.018641	0.024653	8.83E-03	9.88E-03	2.70E-02	8.83E-03	2.45E-03	4.82E-03	2.89E-03	1.89E-03	2.68E-03	1.32E-03
3322	565251.7	4222367	0.017663	0.023359	8.37E-03	9.36E-03	2.56E-02	8.37E-03	2.32E-03	4.56E-03	2.74E-03	1.80E-03	2.54E-03	1.25E-03
3323	565255.2	4222394	0.014935	0.019752	7.08E-03	7.92E-03	2.17E-02	7.08E-03	1.96E-03	3.86E-03	2.32E-03	1.52E-03	2.15E-03	1.06E-03
3324	565234.9	4222313	0.019134	0.025305	9.07E-03	1.01E-02	2.77E-02	9.07E-03	2.51E-03	4.94E-03	2.97E-03	1.94E-03	2.75E-03	1.35E-03
3325	565236.1	4222322	0.01902	0.025154	9.01E-03	1.01E-02	2.76E-02	9.01E-03	2.50E-03	4.91E-03	2.95E-03	1.93E-03	2.74E-03	1.35E-03
3326	565237.2	4222331	0.018717	0.024753	8.87E-03	9.92E-03	2.71E-02	8.87E-03	2.46E-03	4.84E-03	2.90E-03	1.90E-03	2.69E-03	1.32E-03
3327	565238.4	4222340	0.018242	0.024125	8.64E-03	9.67E-03	2.64E-02	8.64E-03	2.40E-03	4.71E-03	2.83E-03	1.85E-03	2.62E-03	1.29E-03
3328	565239.6	4222350	0.017621	0.023304	8.35E-03	9.34E-03	2.55E-02	8.35E-03	2.31E-03	4.55E-03	2.73E-03	1.79E-03	2.53E-03	1.25E-03
3329	565240.7	4222359	0.016896	0.022345	8.00E-03	8.96E-03	2.45E-02	8.00E-03	2.22E-03	4.37E-03	2.62E-03	1.72E-03	2.43E-03	1.19E-03
3330	565241.9	4222368	0.016112	0.021308	7.63E-03	8.54E-03	2.34E-02	7.63E-03	2.12E-03	4.16E-03	2.50E-03	1.64E-03	2.32E-03	1.14E-03
3331	565245.4	4222396	0.013822	0.01828	6.55E-03	7.33E-03	2.00E-02	6.55E-03	1.82E-03	3.57E-03	2.14E-03	1.40E-03	1.99E-03	9.78E-04
3332	565225.1	4222314	0.017291	0.022867	8.19E-03	9.17E-03	2.51E-02	8.19E-03	2.27E-03	4.47E-03	2.68E-03	1.76E-03	2.49E-03	1.22E-03
3333	565226.3	4222323	0.017189	0.022732	8.14E-03	9.11E-03	2.49E-02	8.14E-03	2.26E-03	4.44E-03	2.66E-03	1.75E-03	2.47E-03	1.22E-03
3334	565227.5	4222332	0.016931	0.022391	8.02E-03	8.98E-03	2.45E-02	8.02E-03	2.22E-03	4.37E-03	2.62E-03	1.72E-03	2.44E-03	1.20E-03
3335	565228.6	4222342	0.016535	0.021868	7.83E-03	8.77E-03	2.40E-02	7.83E-03	2.17E-03	4.27E-03	2.56E-03	1.68E-03	2.38E-03	1.17E-03
3336	565229.8	4222351	0.016025	0.021193	7.59E-03	8.50E-03	2.32E-02	7.59E-03	2.10E-03	4.14E-03	2.48E-03	1.63E-03	2.31E-03	1.13E-03
3337	565231	4222360	0.01543	0.020406	7.31E-03	8.18E-03	2.24E-02	7.31E-03	2.03E-03	3.99E-03	2.39E-03	1.57E-03	2.22E-03	1.09E-03
3338	565232.1	4222369	0.014785	0.019553	7.00E-03	7.84E-03	2.14E-02	7.00E-03	1.94E-03	3.82E-03	2.29E-03	1.50E-03	2.13E-03	1.05E-03
3339	565235.7	4222397	0.012828	0.016965	6.08E-03	6.80E-03	1.86E-02	6.08E-03	1.68E-03	3.31E-03	1.99E-03	1.30E-03	1.85E-03	9.07E-04
3340	565215.4	4222315	0.015745	0.020822	7.46E-03	8.35E-03	2.28E-02	7.46E-03	2.07E-03	4.07E-03	2.44E-03	1.60E-03	2.26E-03	1.11E-03
3341	565216.5	4222324	0.015652	0.0207	7.42E-03	8.30E-03	2.27E-02	7.42E-03	2.06E-03	4.04E-03	2.43E-03	1.59E-03	2.25E-03	1.11E-03
3342	565217.7	4222334	0.015431	0.020408	7.31E-03	8.18E-03	2.24E-02	7.31E-03	2.03E-03	3.99E-03	2.39E-03	1.57E-03	2.22E-03	1.09E-03
3343	565218.9	4222343	0.015098	0.019967	7.15E-03	8.00E-03	2.19E-02	7.15E-03	1.98E-03	3.90E-03	2.34E-03	1.53E-03	2.17E-03	1.07E-03
3344	565220	4222352	0.014672	0.019403	6.95E-03	7.78E-03	2.13E-02	6.95E-03	1.93E-03	3.79E-03	2.27E-03	1.49E-03	2.11E-03	1.04E-03
3345	565221.2	4222361	0.014175	0.018746	6.72E-03	7.52E-03	2.06E-02	6.72E-03	1.86E-03	3.66E-03	2.20E-03	1.44E-03	2.04E-03	1.00E-03
3346	565225.9	4222398	0.011934	0.015783	5.65E-03	6.33E-03	1.73E-02	5.65E-03	1.57E-03	3.08E-03	1.85E-03	1.21E-03	1.72E-03	8.44E-04
3347	565204.4	4222307	0.014398	0.019042	6.82E-03	7.63E-03	2.09E-02	6.82E-03	1.89E-03	3.72E-03	2.23E-03	1.46E-03	2.07E-03	1.02E-03
3348	565205.6	4222316	0.014428	0.019081	6.84E-03	7.65E-03	2.09E-02	6.84E-03	1.89E-03	3.73E-03	2.24E-03	1.47E-03	2.08E-03	1.02E-03
3349	565206.8	4222326	0.014343	0.018969	6.80E-03	7.60E-03	2.08E-02	6.80E-03	1.88E-03	3.71E-03	2.22E-03	1.46E-03	2.06E-03	1.01E-03
3350	565207.9	4222335	0.014153	0.018717	6.71E-03	7.50E-03	2.05E-02	6.71E-03	1.86E-03	3.66E-03	2.19E-03	1.44E-03	2.04E-03	1.00E-03
3351	565209.1	4222344	0.013869	0.018341	6.57E-03	7.35E-03	2.01E-02	6.57E-03	1.82E-03	3.58E-03	2.15E-03	1.41E-03	1.99E-03	9.81E-04
3352	565210.3	4222353	0.013507	0.017863	6.40E-03	7.16E-03	1.96E-02	6.40E-03	1.77E-03	3.49E-03	2.09E-03	1.37E-03	1.94E-03	9.55E-04
3353	565211.5	4222363	0.013086	0.017306	6.20E-03	6.94E-03	1.90E-02	6.20E-03	1.72E-03	3.38E-03	2.03E-03	1.33E-03	1.88E-03	9.25E-04
3354	565216.1	4222399	0.011129	0.014718	5.27E-03	5.90E-03	1.61E-02	5.27E-03	1.46E-03	2.88E-03	1.73E-03	1.13E-03	1.60E-03	7.87E-04
3355	565195.8	4222318	0.013293	0.01758	6.30E-03	7.05E-03	1.93E-02	6.30E-03	1.75E-03	3.43E-03	2.06E-03	1.35E-03	1.91E-03	9.40E-04
3356	565197	4222327	0.013215	0.017477	6.26E-03	7.01E-03	1.92E-02	6.26E-03	1.74E-03	3.41E-03	2.05E-03	1.34E-03	1.90E-03	9.35E-04
3357	565198.2	4222336	0.013049	0.017257	6.18E-03	6.92E-03	1.89E-02	6.18E-03	1.71E-03	3.37E-03	2.02E-03	1.33E-03	1.88E-03	9.23E-04
3358	565199.4	4222345	0.012804	0.016933	6.07E-03	6.79E-03	1.86E-02	6.07E-03	1.68E-03	3.31E-03	1.98E-03	1.30E-03	1.84E-03	9.05E-04
3359	565200.5	4222355	0.012493	0.016521	5.92E-03	6.62E-03	1.81E-02	5.92E-03	1.64E-03	3.23E-03	1.94E-03	1.27E-03	1.80E-03	8.83E-04
3360	565201.7	4222364	0.01213	0.016042	5.75E-03	6.43E-03	1.76E-02	5.75E-03	1.59E-03	3.13E-03	1.88E-03	1.23E-03	1.74E-03	8.58E-04
3361	565206.4	4222401	0.010402	0.013757	4.93E-03	5.52E-03	1.51E-02	4.93E-03	1.37E-03	2.69E-03	1.61E-03	1.06E-03	1.50E-03	7.36E-04
3362	565186.1	4222319	0.012305	0.016273	5.83E-03	6.52E-03	1.78E-02	5.83E-03	1.62E-03	3.18E-03	1.91E-03	1.25E-03	1.77E-03	8.70E-04
3363	565187.3	4222328	0.012232	0.016177	5.80E-03	6.49E-03	1.77E-02	5.80E-03	1.61E-03	3.16E-03	1.90E-03	1.24E-03	1.76E-03	8.65E-04
3364	565188.4	4222337	0.012085	0.015982	5.73E-03	6.41E-03	1.75E-02	5.73E-03	1.59E-03	3.12E-03	1.87E-03	1.23E-03	1.74E-03	8.55E-04

3365	565189.6	4222347	0.011871	0.015699	5.62E-03	6.29E-03	1.72E-02	5.62E-03	1.56E-03	3.07E-03	1.84E-03	1.21E-03	1.71E-03	8.40E-04
3366	565190.8	4222356	0.0116	0.015341	5.50E-03	6.15E-03	1.68E-02	5.50E-03	1.52E-03	3.00E-03	1.80E-03	1.18E-03	1.67E-03	8.20E-04
3367	565191.9	4222365	0.011283	0.014922	5.35E-03	5.98E-03	1.64E-02	5.35E-03	1.48E-03	2.91E-03	1.75E-03	1.15E-03	1.62E-03	7.98E-04
3368	565196.6	4222402	0.009745	0.012887	4.62E-03	5.17E-03	1.41E-02	4.62E-03	1.28E-03	2.52E-03	1.51E-03	9.90E-04	1.40E-03	6.89E-04
3369	565176.3	4222320	0.011436	0.015124	5.42E-03	6.06E-03	1.66E-02	5.42E-03	1.50E-03	2.95E-03	1.77E-03	1.16E-03	1.65E-03	8.09E-04
3370	565177.5	4222329	0.011368	0.015033	5.39E-03	6.03E-03	1.65E-02	5.39E-03	1.49E-03	2.94E-03	1.76E-03	1.16E-03	1.64E-03	8.04E-04
3371	565178.7	4222339	0.011236	0.014859	5.32E-03	5.96E-03	1.63E-02	5.32E-03	1.48E-03	2.90E-03	1.74E-03	1.14E-03	1.62E-03	7.95E-04
3372	565179.8	4222348	0.011046	0.014609	5.23E-03	5.86E-03	1.60E-02	5.23E-03	1.45E-03	2.85E-03	1.71E-03	1.12E-03	1.59E-03	7.81E-04
3373	565181	4222357	0.010808	0.014294	5.12E-03	5.73E-03	1.57E-02	5.12E-03	1.42E-03	2.79E-03	1.68E-03	1.10E-03	1.55E-03	7.64E-04
3374	565182.2	4222366	0.010529	0.013924	4.99E-03	5.58E-03	1.53E-02	4.99E-03	1.38E-03	2.72E-03	1.63E-03	1.07E-03	1.51E-03	7.45E-04
3375	565186.8	4222403	0.009147	0.012097	4.33E-03	4.85E-03	1.33E-02	4.33E-03	1.20E-03	2.36E-03	1.42E-03	9.30E-04	1.32E-03	6.47E-04
3376	565177.1	4222404	0.008604	0.011379	4.08E-03	4.56E-03	1.25E-02	4.08E-03	1.13E-03	2.22E-03	1.33E-03	8.74E-04	1.24E-03	6.08E-04
3377	565156.8	4222323	0.00998	0.013198	4.73E-03	5.29E-03	1.45E-02	4.73E-03	1.31E-03	2.58E-03	1.55E-03	1.01E-03	1.44E-03	7.06E-04
3378	565158	4222332	0.009918	0.013116	4.70E-03	5.26E-03	1.44E-02	4.70E-03	1.30E-03	2.56E-03	1.54E-03	1.01E-03	1.43E-03	7.01E-04
3379	565167.3	4222406	0.008108	0.010723	3.84E-03	4.30E-03	1.18E-02	3.84E-03	1.06E-03	2.09E-03	1.26E-03	8.24E-04	1.17E-03	5.73E-04
3380	565147	4222324	0.009364	0.012383	4.44E-03	4.96E-03	1.36E-02	4.44E-03	1.23E-03	2.42E-03	1.45E-03	9.52E-04	1.35E-03	6.62E-04
3381	565148.2	4222333	0.009304	0.012304	4.41E-03	4.93E-03	1.35E-02	4.41E-03	1.22E-03	2.40E-03	1.44E-03	9.46E-04	1.34E-03	6.58E-04
3382	565149.4	4222342	0.009203	0.01217	4.36E-03	4.88E-03	1.33E-02	4.36E-03	1.21E-03	2.38E-03	1.43E-03	9.35E-04	1.32E-03	6.51E-04
3383	565150.6	4222352	0.009064	0.011987	4.29E-03	4.81E-03	1.31E-02	4.29E-03	1.19E-03	2.34E-03	1.41E-03	9.21E-04	1.30E-03	6.41E-04
3384	565151.7	4222361	0.008891	0.011758	4.21E-03	4.71E-03	1.29E-02	4.21E-03	1.17E-03	2.30E-03	1.38E-03	9.04E-04	1.28E-03	6.29E-04
3385	565152.9	4222370	0.008687	0.011489	4.12E-03	4.61E-03	1.26E-02	4.12E-03	1.14E-03	2.24E-03	1.35E-03	8.83E-04	1.25E-03	6.14E-04
3386	565157.6	4222407	0.007654	0.010123	3.63E-03	4.06E-03	1.11E-02	3.63E-03	1.01E-03	1.98E-03	1.19E-03	7.78E-04	1.10E-03	5.41E-04
3387	565137.3	4222325	0.008808	0.011648	4.17E-03	4.67E-03	1.28E-02	4.17E-03	1.16E-03	2.28E-03	1.37E-03	8.95E-04	1.27E-03	6.23E-04
3388	565138.5	4222334	0.00875	0.011572	4.15E-03	4.64E-03	1.27E-02	4.15E-03	1.15E-03	2.26E-03	1.36E-03	8.89E-04	1.26E-03	6.19E-04
3389	565139.6	4222344	0.008656	0.011447	4.10E-03	4.59E-03	1.25E-02	4.10E-03	1.14E-03	2.24E-03	1.34E-03	8.80E-04	1.25E-03	6.12E-04
3390	565140.8	4222353	0.008528	0.011278	4.04E-03	4.52E-03	1.24E-02	4.04E-03	1.12E-03	2.20E-03	1.32E-03	8.67E-04	1.23E-03	6.03E-04
3391	565142	4222362	0.00837	0.011069	3.97E-03	4.44E-03	1.21E-02	3.97E-03	1.10E-03	2.16E-03	1.30E-03	8.51E-04	1.20E-03	5.92E-04
3392	565143.1	4222371	0.008185	0.010824	3.88E-03	4.34E-03	1.19E-02	3.88E-03	1.07E-03	2.11E-03	1.27E-03	8.32E-04	1.18E-03	5.79E-04
3393	565146.6	4222399	0.0075	0.009919	3.55E-03	3.98E-03	1.09E-02	3.55E-03	9.85E-04	1.94E-03	1.16E-03	7.62E-04	1.08E-03	5.30E-04
3394	565147.8	4222408	0.007239	0.009573	3.43E-03	3.84E-03	1.05E-02	3.43E-03	9.51E-04	1.87E-03	1.12E-03	7.36E-04	1.04E-03	5.12E-04
3395	565127.5	4222326	0.008304	0.010982	3.93E-03	4.40E-03	1.20E-02	3.93E-03	1.09E-03	2.15E-03	1.29E-03	8.44E-04	1.19E-03	5.87E-04
3396	565128.7	4222336	0.008248	0.010907	3.91E-03	4.37E-03	1.20E-02	3.91E-03	1.08E-03	2.13E-03	1.28E-03	8.38E-04	1.19E-03	5.83E-04
3397	565129.9	4222345	0.008159	0.010791	3.87E-03	4.33E-03	1.18E-02	3.87E-03	1.07E-03	2.11E-03	1.26E-03	8.29E-04	1.17E-03	5.77E-04
3398	565131	4222354	0.008041	0.010635	3.81E-03	4.26E-03	1.17E-02	3.81E-03	1.06E-03	2.08E-03	1.25E-03	8.17E-04	1.16E-03	5.69E-04
3399	565132.2	4222363	0.007896	0.010442	3.74E-03	4.19E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.02E-04	1.14E-03	5.58E-04
3400	565133.4	4222372	0.007726	0.010217	3.66E-03	4.10E-03	1.12E-02	3.66E-03	1.01E-03	2.00E-03	1.20E-03	7.85E-04	1.11E-03	5.46E-04
3401	565136.9	4222400	0.007097	0.009386	3.36E-03	3.76E-03	1.03E-02	3.36E-03	9.32E-04	1.83E-03	1.10E-03	7.21E-04	1.02E-03	5.02E-04
3402	565138	4222409	0.006856	0.009067	3.25E-03	3.64E-03	9.94E-03	3.25E-03	9.00E-04	1.77E-03	1.06E-03	6.97E-04	9.86E-04	4.85E-04
3403	565117.8	4222328	0.007845	0.010375	3.72E-03	4.16E-03	1.14E-02	3.72E-03	1.03E-03	2.03E-03	1.22E-03	7.97E-04	1.13E-03	5.55E-04
3404	565118.9	4222337	0.00779	0.010302	3.69E-03	4.13E-03	1.13E-02	3.69E-03	1.02E-03	2.01E-03	1.21E-03	7.92E-04	1.12E-03	5.51E-04
3405	565120.1	4222346	0.007707	0.010192	3.65E-03	4.09E-03	1.12E-02	3.65E-03	1.01E-03	1.99E-03	1.19E-03	7.83E-04	1.11E-03	5.45E-04
3406	565121.3	4222355	0.007597	0.010047	3.60E-03	4.03E-03	1.10E-02	3.60E-03	9.98E-04	1.96E-03	1.18E-03	7.72E-04	1.09E-03	5.37E-04
3407	565122.4	4222364	0.007463	0.009869	3.54E-03	3.96E-03	1.08E-02	3.54E-03	9.80E-04	1.93E-03	1.16E-03	7.58E-04	1.07E-03	5.28E-04
3408	565123.6	4222374	0.007306	0.009662	3.46E-03	3.87E-03	1.06E-02	3.46E-03	9.59E-04	1.89E-03	1.13E-03	7.42E-04	1.05E-03	5.17E-04
3409	565127.1	4222401	0.006726	0.008895	3.19E-03	3.57E-03	9.75E-03	3.19E-03	8.83E-04	1.74E-03	1.04E-03	6.84E-04	9.68E-04	4.76E-04
3410	565128.3	4222411	0.006504	0.008602	3.08E-03	3.45E-03	9.43E-03	3.08E-03	8.54E-04	1.68E-03	1.01E-03	6.61E-04	9.36E-04	4.60E-04
3411	565108	4222329	0.007425	0.00982	3.52E-03	3.94E-03	1.08E-02	3.52E-03	9.75E-04	1.92E-03	1.15E-03	7.55E-04	1.07E-03	5.25E-04
3412	565109.2	4222338	0.007372	0.009749	3.49E-03	3.91E-03	1.07E-02	3.49E-03	9.68E-04	1.90E-03	1.14E-03	7.49E-04	1.06E-03	5.21E-04
3413	565110.3	4222347	0.007293	0.009645	3.46E-03	3.87E-03	1.06E-02	3.46E-03	9.58E-04	1.88E-03	1.13E-03	7.41E-04	1.05E-03	5.16E-04
3414	565111.5	4222356	0.00719	0.009509	3.41E-03	3.81E-03	1.04E-02	3.41E-03	9.44E-04	1.86E-03	1.11E-03	7.31E-04	1.03E-03	5.08E-04
3415	565112.7	4222366	0.007066	0.009344	3.35E-03	3.75E-03	1.02E-02	3.35E-03	9.28E-04	1.83E-03	1.10E-03	7.18E-04	1.02E-03	5.00E-04
3416	565113.8	4222375	0.006921	0.009153	3.28E-03	3.67E-03	1.00E-02	3.28E-03	9.09E-04	1.79E-03	1.07E-03	7.03E-04	9.96E-04	4.89E-04
3417	565098.2	4222330	0.00704	0.00931	3.34E-03	3.73E-03	1.02E-02	3.34E-03	9.25E-04	1.82E-03	1.09E-03	7.15E-04	1.01E-03	4.98E-04
3418	565099.4	4222339	0.006988	0.009242	3.31E-03	3.71E-03	1.01E-02	3.31E-03	9.18E-04	1.81E-03	1.08E-03	7.10E-04	1.01E-03	4.94E-04
3419	565100.6	4222348	0.006913	0.009142	3.27E-03	3.66E-03	1.00E-02	3.27E-03	9.08E-04	1.79E-03	1.07E-03	7.02E-04	9.94E-04	4.89E-04
3420	565101.7	4222358	0.006816	0.009014	3.23E-03	3.61E-03	9.88E-03	3.23E-03	8.95E-04	1.76E-03	1.06E-03	6.93E-04	9.80E-04	4.82E-04
3421	565102.9	4222367	0.0067	0.008861	3.17E-03	3.55E-03	9.71E-03	3.17E-03	8.80E-04	1.73E-03	1.04E-03	6.81E-04	9.64E-04	4.74E-04
3422	565104.1	4222376	0.006566	0.008683	3.11E-03	3.48E-03	9.52E-03	3.11E-03	8.62E-04	1.70E-03	1.02E-03	6.67E-04	9.44E-04	4.64E-04
3423	565088.5	4222331	0.006686	0.008842	3.17E-03	3.54E-03	9.69E-03	3.17E-03	8.78E-04	1.73E-03	1.04E-03	6.79E-04	9.62E-04	4.73E-04
3424	565089.6	4222340	0.006634	0.008774	3.14E-03	3.52E-03	9.62E-03	3.14E-03	8.71E-04	1.71E-03	1.03E-03	6.74E-04	9.54E-04	4.69E-04
3425	565090.8	4222350	0.006561	0.008677	3.11E-03	3.48E-03	9.51E-03	3.11E-03	8.62E-04	1.69E-03	1.02E-03	6.67E-04	9.44E-04	4.64E-04
3426	565092	4222359	0.006468	0.008554	3.06E-03	3.43E-03	9.38E-03	3.06E-03	8.49E-04	1.67E-03	1.00E-03	6.57E-04	9.30E-04	4.57E-04
3427	565093.2	4222368	0.006358	0.008409	3.01E-03	3.37E-03	9.22E-03	3.01E-03	8.35E-04	1.64E-03	9.86E-04	6.46E-04	9.15E-04	4.50E-04
3428	565094.3	4222377	0.006234	0.008244	2.95E-03	3.30E-03	9.04E-03	2.95E-03	8.19E-04	1.61E-03	9.66E-04	6.33E-04	8.97E-04	4.41E-04
3429	565097.8	4222405	0.005774	0.007636	2.74E-03	3.06E-03	8.37E-03	2.74E-03	7.58E-04	1.49E-03	8.95E-04	5.87E-04	8.31E-04	4.08E-04
3430	565099	4222414	0.005598	0.007403	2.65E-03	2.97E-03	8.12E-03	2.65E-03	7.35E-04	1.45E-03	8.68E-04	5.69E-04	8.05E-04	3.96E-04
3431	565077.6	4222323	0.006385	0.008445	3.03E-03	3.39E-03	9.26E-03	3.03E-03	8.39E-04	1.65E-03	9.90E-04	6.49E-04	9.19E-04	4.52E-04
3432	565078.7	4222332	0.006359	0.008409	3.01E-03	3.37E-03	9.22E-03	3.01E-03	8.35E-04	1.64E-03	9.86E-04	6.46E-04	9.15E-04	4.50E-04
3433	565079.9	4222342	0.006308	0.008342	2.99E-03	3.34E-03	9.15E-03	2.99E-03	8.28E-04	1.63E-03	9.78E-04	6.41E-04	9.07E-04	4.46E-04
3434	565081.1	4222351	0.006236	0.008247	2.95E-03	3.31E-03	9.04E-03	2.95E-03	8.19E-04	1.61E-03	9.67E-04	6.34E-04	8.97E-04	4.41E-04
3435	565082.2	4222360	0.006147	0.008129	2.91E-03	3.26E-03	8.91E-03	2.91E-03	8.07E-04	1.59E-03	9.53E-04	6.25E-04	8.84E-04	4.35E-04
3436	565083.4	4222369	0.006043	0.007991	2.86E-03	3.20E-03	8.76E-03	2.86E-03	7.94E-04	1.56E-03	9.37E-04	6.14E-04	8.69E-04	4.27E-04
3437	565084.6	4222379	0.005926	0.007837	2.81E-03	3.14E-03	8.59E-03	2.81E-03	7.78E-04	1.53E-03	9.19E-04	6.02E-04	8.52E-04	4.19E-04
3438	565088.1	4222406	0.005499	0.007272	2.61E-03	2.92E-03	7.97E-03	2.61E-03	7.22E-04	1.42E-03	8.52E-04	5.59E-04	7.91E-04	3.89E-04
3439	565089.2	4222416	0.005335	0.007055	2.53E-03	2.83E-03	7.73E-03	2.53E-03	7.01E-04	1.38E-03	8.27E-04	5.42E-04	7.67E-04	3.77E-04
3440	565069	4222334	0.006055	0.008008	2.87E-03	3.21E-03	8.78E-03	2.87E-03	7.95E-04	1.56E-03	9.39E-04	6.15E-04	8.71E-04	4.28E-04
3441	565070.1	4222343	0.006005	0.007941	2.84E-03	3.18E-03	8.71E-03	2.84E-03	7.89E-04	1.55E-03	9.31E-04	6.10E-04	8.64E-04	4.25E-04
3442	565071.3	4222352	0.005935	0.007849	2.81E-03	3.15E-03	8.60E-03	2.81E-03	7.79E-04	1.53E-03	9.20E-04	6.03E-04	8.54E-04	4.20E-04
3443	565072.5	4222361	0.005849	0.007736	2.77E-03	3.10E-03	8.48E-03	2.77E-03	7.68E-04	1.51E-03	9.07E-04	5.94E-04	8.41E-04	4.14E-04
3444	565073.6	4222371	0.005751	0.007605	2.72E-03	3.05E-03	8.34E-03	2.72E-03	7.55E-04	1.49E-03	8.91E-04	5.84E-04	8.27E-04	4.07E-04
3445	565074.8	4222380	0.005642	0.007461	2.67E-03	2.99E-03	8.18E-03	2.67E-03	7.41E-04	1.46E-03	8.75E-04	5.73E-04	8.12E-04	3.99E-04
3446	565078.3	4222408	0.005243	0.006933	2.48E-03	2.78E-03	7.60E-03	2.48E-03	6.89E-04	1.35E-03	8.13E-04	5.33E-04	7.54E-04	3.71E-04
3447	565079.5	4222417	0.00509	0.006732	2.41E-03	2.70E-03	7.38E-03	2.41E-03	6.68E-04	1.32E-03	7.89E-04	5.17E-04	7.32E-04	3.60E-04
3448	565059.2	4222335	0.005771	0.007633	2.73E-03	3.06E-03	8.37E-03	2.73E-03	7.58E-04	1.49E-03	8.95E-04	5.87E-04	8.30E-04	4.08E-04
3449	565060.4	4222344	0.005722	0.007567	2.71E-03	3.03E-03	8.30E-03	2.71E-03	7.51E-04	1.48E-03	8.87E-04	5.82E-04	8.23E-04	4.05E-04
3450	565061.5	4222353	0.005657	0.007481	2.68E-03	3.00E-03	8.20E-03	2.68E-03	7.43E-04	1.46E-03	8.77E-04	5.75E-04	8.14E-04	4.00E-04
3451	565062.7	4222363	0.005577	0.007375	2.64E-03	2.96E-03	8.09E-03	2.64E-03	7.32E-04	1.44E-03	8.65E-04	5.67E-04	8.02E-04	3.94E-04
3452	565063.9	4222372	0.005485	0.007254	2.60E-03	2.91E-03	7.95E-03	2.60E-03	7.20E-04	1.42E-03	8.50E-04	5.57E-04	7.89E-04	3.88E-04
3453	565065	4222381	0.005382	0.007117	2.55E-03	2.85E-03	7.80E-03	2.55E-03	7.07E-04	1.39E-03	8.34E-04	5.47E-04	7.74E-04	3.81E-04
3454	565069.7	4222418	0.004864	0.006433	2.30E-03	2.58E-03	7.05E-03	2.30E-03	6.39E-04	1.26E-03	7.54E-04	4.94E-04	7.00E-04	3.44E-04
3455	565049.4	4222336	0.005508	0.007284	2.61E-03	2.92E-03	7.98E-03	2.61E-03	7.23E-04	1.42E-03	8.54E-04	5.60E-04	7.92E-04	3.90E-04

3456	565050.6	4222345	0.00546	0.007221	2.59E-03	2.89E-03	7.92E-03	2.59E-03	7.17E-04	1.41E-03	8.46E-04	5.55E-04	7.85E-04	3.86E-04
3457	565051.8	4222355	0.005399	0.00714	2.56E-03	2.86E-03	7.83E-03	2.56E-03	7.09E-04	1.39E-03	8.37E-04	5.49E-04	7.77E-04	3.82E-04
3458	565052.9	4222364	0.005324	0.007041	2.52E-03	2.82E-03	7.72E-03	2.52E-03	6.99E-04	1.38E-03	8.25E-04	5.41E-04	7.66E-04	3.77E-04
3459	565054.1	4222373	0.005238	0.006927	2.48E-03	2.78E-03	7.59E-03	2.48E-03	6.88E-04	1.35E-03	8.12E-04	5.32E-04	7.53E-04	3.70E-04
3460	565055.3	4222382	0.005141	0.006798	2.44E-03	2.73E-03	7.45E-03	2.44E-03	6.75E-04	1.33E-03	7.97E-04	5.22E-04	7.39E-04	3.64E-04
3461	565060	4222419	0.004656	0.006158	2.21E-03	2.47E-03	6.75E-03	2.21E-03	6.11E-04	1.20E-03	7.22E-04	4.73E-04	6.70E-04	3.29E-04
3462	565039.7	4222337	0.005263	0.006961	2.49E-03	2.79E-03	7.63E-03	2.49E-03	6.91E-04	1.36E-03	8.16E-04	5.35E-04	7.57E-04	3.72E-04
3463	565040.8	4222347	0.005218	0.0069	2.47E-03	2.77E-03	7.56E-03	2.47E-03	6.85E-04	1.35E-03	8.09E-04	5.30E-04	7.51E-04	3.69E-04
3464	565042	4222356	0.005159	0.006823	2.44E-03	2.74E-03	7.48E-03	2.44E-03	6.78E-04	1.33E-03	8.00E-04	5.24E-04	7.42E-04	3.65E-04
3465	565043.2	4222365	0.005089	0.00673	2.41E-03	2.70E-03	7.38E-03	2.41E-03	6.68E-04	1.31E-03	7.89E-04	5.17E-04	7.32E-04	3.60E-04
3466	565044.4	4222374	0.005008	0.006623	2.37E-03	2.66E-03	7.26E-03	2.37E-03	6.58E-04	1.29E-03	7.76E-04	5.09E-04	7.20E-04	3.54E-04
3467	565045.5	4222384	0.004916	0.006501	2.33E-03	2.61E-03	7.13E-03	2.33E-03	6.46E-04	1.27E-03	7.62E-04	5.00E-04	7.07E-04	3.48E-04
3468	565046.7	4222393	0.004815	0.006367	2.28E-03	2.55E-03	6.98E-03	2.28E-03	6.32E-04	1.24E-03	7.46E-04	4.89E-04	6.93E-04	3.40E-04
3469	565050.2	4222420	0.004462	0.0059	2.11E-03	2.37E-03	6.47E-03	2.11E-03	5.86E-04	1.15E-03	6.92E-04	4.53E-04	6.42E-04	3.16E-04
3470	565029.9	4222339	0.005038	0.006663	2.39E-03	2.67E-03	7.30E-03	2.39E-03	6.62E-04	1.30E-03	7.81E-04	5.12E-04	7.25E-04	3.56E-04
3471	565031.1	4222348	0.004993	0.006603	2.37E-03	2.65E-03	7.24E-03	2.37E-03	6.56E-04	1.29E-03	7.74E-04	5.07E-04	7.18E-04	3.53E-04
3472	565032.3	4222357	0.004937	0.006529	2.34E-03	2.62E-03	7.16E-03	2.34E-03	6.48E-04	1.28E-03	7.65E-04	5.02E-04	7.10E-04	3.49E-04
3473	565033.4	4222366	0.00487	0.00644	2.31E-03	2.58E-03	7.06E-03	2.31E-03	6.40E-04	1.26E-03	7.55E-04	4.95E-04	7.01E-04	3.44E-04
3474	565034.6	4222376	0.004792	0.006337	2.27E-03	2.54E-03	6.95E-03	2.27E-03	6.29E-04	1.24E-03	7.43E-04	4.87E-04	6.89E-04	3.39E-04
3475	565035.8	4222385	0.004704	0.006221	2.23E-03	2.49E-03	6.82E-03	2.23E-03	6.18E-04	1.22E-03	7.29E-04	4.78E-04	6.77E-04	3.33E-04
3476	565036.9	4222394	0.004608	0.006094	2.18E-03	2.44E-03	6.68E-03	2.18E-03	6.05E-04	1.19E-03	7.14E-04	4.68E-04	6.63E-04	3.26E-04
3477	565020.2	4222340	0.004827	0.006384	2.29E-03	2.56E-03	7.00E-03	2.29E-03	6.34E-04	1.25E-03	7.48E-04	4.91E-04	6.94E-04	3.41E-04
3478	565021.3	4222349	0.004784	0.006326	2.27E-03	2.54E-03	6.94E-03	2.27E-03	6.28E-04	1.24E-03	7.42E-04	4.86E-04	6.88E-04	3.38E-04
3479	565022.5	4222358	0.004729	0.006254	2.24E-03	2.51E-03	6.86E-03	2.24E-03	6.21E-04	1.22E-03	7.33E-04	4.81E-04	6.80E-04	3.34E-04
3480	565023.7	4222368	0.004665	0.006169	2.21E-03	2.47E-03	6.76E-03	2.21E-03	6.13E-04	1.21E-03	7.23E-04	4.74E-04	6.71E-04	3.30E-04
3481	565024.8	4222377	0.00459	0.00607	2.17E-03	2.43E-03	6.65E-03	2.17E-03	6.03E-04	1.19E-03	7.11E-04	4.66E-04	6.60E-04	3.25E-04
3482	565026	4222386	0.004506	0.005959	2.13E-03	2.39E-03	6.53E-03	2.13E-03	5.92E-04	1.16E-03	6.98E-04	4.58E-04	6.48E-04	3.19E-04
3483	565027.2	4222395	0.004414	0.005837	2.09E-03	2.34E-03	6.40E-03	2.09E-03	5.80E-04	1.14E-03	6.84E-04	4.49E-04	6.35E-04	3.12E-04
3484	565010.4	4222341	0.00463	0.006123	2.19E-03	2.45E-03	6.71E-03	2.19E-03	6.08E-04	1.20E-03	7.18E-04	4.71E-04	6.66E-04	3.27E-04
3485	565011.6	4222350	0.004587	0.006066	2.17E-03	2.43E-03	6.65E-03	2.17E-03	6.02E-04	1.19E-03	7.11E-04	4.66E-04	6.60E-04	3.24E-04
3486	565012.7	4222360	0.004535	0.005997	2.15E-03	2.40E-03	6.57E-03	2.15E-03	5.96E-04	1.17E-03	7.03E-04	4.61E-04	6.52E-04	3.21E-04
3487	565013.9	4222369	0.004473	0.005915	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.16E-03	6.93E-04	4.55E-04	6.43E-04	3.16E-04
3488	565015.1	4222378	0.0044	0.005819	2.08E-03	2.33E-03	6.38E-03	2.08E-03	5.78E-04	1.14E-03	6.82E-04	4.47E-04	6.33E-04	3.11E-04
3489	565016.2	4222387	0.004319	0.005712	2.05E-03	2.29E-03	6.26E-03	2.05E-03	5.67E-04	1.12E-03	6.70E-04	4.39E-04	6.21E-04	3.05E-04
3490	565017.4	4222396	0.004232	0.005596	2.00E-03	2.24E-03	6.13E-03	2.00E-03	5.56E-04	1.09E-03	6.56E-04	4.30E-04	6.09E-04	2.99E-04
3491	565018.6	4222406	0.00414	0.005476	1.96E-03	2.20E-03	6.00E-03	1.96E-03	5.44E-04	1.07E-03	6.42E-04	4.21E-04	5.96E-04	2.93E-04
3492	565000.6	4222342	0.004444	0.005877	2.11E-03	2.36E-03	6.44E-03	2.11E-03	5.84E-04	1.15E-03	6.89E-04	4.52E-04	6.39E-04	3.14E-04
3493	565001.8	4222352	0.004401	0.005821	2.09E-03	2.33E-03	6.38E-03	2.09E-03	5.78E-04	1.14E-03	6.82E-04	4.47E-04	6.33E-04	3.11E-04
3494	565003	4222361	0.00435	0.005753	2.06E-03	2.31E-03	6.31E-03	2.06E-03	5.71E-04	1.12E-03	6.74E-04	4.42E-04	6.26E-04	3.08E-04
3495	565004.1	4222370	0.00429	0.005674	2.03E-03	2.27E-03	6.22E-03	2.03E-03	5.63E-04	1.11E-03	6.65E-04	4.36E-04	6.17E-04	3.03E-04
3496	565005.3	4222379	0.004222	0.005583	2.00E-03	2.24E-03	6.12E-03	2.00E-03	5.54E-04	1.09E-03	6.54E-04	4.29E-04	6.07E-04	2.99E-04
3497	565006.5	4222389	0.004146	0.005483	1.96E-03	2.20E-03	6.01E-03	1.96E-03	5.44E-04	1.07E-03	6.43E-04	4.21E-04	5.96E-04	2.93E-04
3498	565007.6	4222398	0.004063	0.005373	1.92E-03	2.15E-03	5.89E-03	1.92E-03	5.34E-04	1.05E-03	6.30E-04	4.13E-04	5.84E-04	2.87E-04
3499	565008.8	4222407	0.003976	0.005258	1.88E-03	2.11E-03	5.76E-03	1.88E-03	5.22E-04	1.03E-03	6.16E-04	4.04E-04	5.72E-04	2.81E-04
3500	564990.9	4222344	0.00427	0.005646	2.02E-03	2.26E-03	6.19E-03	2.02E-03	5.61E-04	1.10E-03	6.62E-04	4.34E-04	6.14E-04	3.02E-04
3501	564992	4222353	0.004227	0.00559	2.00E-03	2.24E-03	6.13E-03	2.00E-03	5.55E-04	1.09E-03	6.55E-04	4.30E-04	6.08E-04	2.99E-04
3502	564993.2	4222362	0.004176	0.005523	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.01E-04	2.95E-04
3503	564994.4	4222371	0.004119	0.005447	1.95E-03	2.18E-03	5.97E-03	1.95E-03	5.41E-04	1.06E-03	6.38E-04	4.19E-04	5.92E-04	2.91E-04
3504	564995.6	4222381	0.004055	0.005362	1.92E-03	2.15E-03	5.88E-03	1.92E-03	5.32E-04	1.05E-03	6.29E-04	4.12E-04	5.83E-04	2.87E-04
3505	564996.7	4222390	0.003983	0.005268	1.89E-03	2.11E-03	5.77E-03	1.89E-03	5.23E-04	1.03E-03	6.17E-04	4.05E-04	5.73E-04	2.82E-04
3506	564997.9	4222399	0.003906	0.005165	1.85E-03	2.07E-03	5.66E-03	1.85E-03	5.13E-04	1.01E-03	6.05E-04	3.97E-04	5.62E-04	2.76E-04
3507	564999.1	4222408	0.003823	0.005056	1.81E-03	2.03E-03	5.54E-03	1.81E-03	5.02E-04	9.88E-04	5.93E-04	3.88E-04	5.50E-04	2.70E-04
3508	564971	4222346	0.003942	0.005214	1.87E-03	2.09E-03	5.72E-03	1.87E-03	5.18E-04	1.02E-03	6.11E-04	4.01E-04	5.67E-04	2.79E-04
3509	564972.2	4222355	0.003901	0.005159	1.85E-03	2.07E-03	5.66E-03	1.85E-03	5.12E-04	1.01E-03	6.05E-04	3.96E-04	5.61E-04	2.76E-04
3510	564973.4	4222365	0.003853	0.005096	1.83E-03	2.04E-03	5.59E-03	1.83E-03	5.06E-04	9.95E-04	5.97E-04	3.92E-04	5.54E-04	2.73E-04
3511	564974.5	4222374	0.003802	0.005027	1.80E-03	2.02E-03	5.51E-03	1.80E-03	4.99E-04	9.82E-04	5.89E-04	3.86E-04	5.47E-04	2.69E-04
3512	564975.7	4222383	0.003744	0.004952	1.77E-03	1.99E-03	5.43E-03	1.77E-03	4.92E-04	9.67E-04	5.80E-04	3.81E-04	5.39E-04	2.65E-04
3513	564980.4	4222420	0.003458	0.004573	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.93E-04	5.36E-04	3.51E-04	4.97E-04	2.45E-04
3514	564981.6	4222429	0.003376	0.004464	1.60E-03	1.79E-03	4.89E-03	1.60E-03	4.43E-04	8.72E-04	5.23E-04	3.43E-04	4.86E-04	2.39E-04
3515	564950	4222339	0.003685	0.004873	1.75E-03	1.95E-03	5.34E-03	1.75E-03	4.84E-04	9.52E-04	5.71E-04	3.74E-04	5.30E-04	2.61E-04
3516	564951.2	4222349	0.003652	0.004829	1.73E-03	1.94E-03	5.29E-03	1.73E-03	4.80E-04	9.43E-04	5.66E-04	3.71E-04	5.25E-04	2.58E-04
3517	564952.4	4222358	0.003612	0.004777	1.71E-03	1.92E-03	5.24E-03	1.71E-03	4.74E-04	9.33E-04	5.60E-04	3.67E-04	5.20E-04	2.55E-04
3518	564958.2	4222404	0.003349	0.00443	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.65E-04	5.19E-04	3.40E-04	4.82E-04	2.37E-04
3519	564959.4	4222413	0.003284	0.004343	1.56E-03	1.74E-03	4.76E-03	1.56E-03	4.31E-04	8.48E-04	5.09E-04	3.34E-04	4.72E-04	2.32E-04
3520	564960.5	4222422	0.003214	0.004251	1.52E-03	1.70E-03	4.66E-03	1.52E-03	4.22E-04	8.30E-04	4.98E-04	3.27E-04	4.62E-04	2.27E-04
3521	564961.7	4222432	0.003143	0.004157	1.49E-03	1.67E-03	4.56E-03	1.49E-03	4.13E-04	8.12E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04
3522	564934.9	4222379	0.003275	0.004331	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
3523	564936	4222388	0.003227	0.004267	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.34E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
3524	564937.2	4222397	0.003175	0.004198	1.50E-03	1.68E-03	4.60E-03	1.50E-03	4.17E-04	8.20E-04	4.92E-04	3.23E-04	4.57E-04	2.25E-04
3525	564938.4	4222407	0.003119	0.004125	1.48E-03	1.65E-03	4.52E-03	1.48E-03	4.10E-04	8.06E-04	4.83E-04	3.17E-04	4.49E-04	2.21E-04
3526	564939.5	4222416	0.00306	0.004047	1.45E-03	1.62E-03	4.44E-03	1.45E-03	4.02E-04	7.90E-04	4.74E-04	3.11E-04	4.40E-04	2.16E-04
3527	564940.7	4222425	0.002998	0.003964	1.42E-03	1.59E-03	4.35E-03	1.42E-03	3.94E-04	7.74E-04	4.65E-04	3.05E-04	4.31E-04	2.12E-04
3528	564941.9	4222434	0.002935	0.003881	1.39E-03	1.56E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.08E-04
3529	564911.5	4222354	0.003167	0.004189	1.50E-03	1.68E-03	4.59E-03	1.50E-03	4.16E-04	8.18E-04	4.91E-04	3.22E-04	4.56E-04	2.24E-04
3530	564912.7	4222363	0.003133	0.004144	1.48E-03	1.66E-03	4.54E-03	1.48E-03	4.11E-04	8.09E-04	4.86E-04	3.18E-04	4.51E-04	2.22E-04
3531	564913.8	4222372	0.003096	0.004094	1.47E-03	1.64E-03	4.49E-03	1.47E-03	4.07E-04	8.00E-04	4.80E-04	3.15E-04	4.45E-04	2.19E-04
3532	564915	4222381	0.003055	0.004041	1.45E-03	1.62E-03	4.43E-03	1.45E-03	4.01E-04	7.89E-04	4.74E-04	3.10E-04	4.39E-04	2.16E-04
3533	564916.2	4222391	0.003011	0.003982	1.43E-03	1.60E-03	4.37E-03	1.43E-03	3.95E-04	7.78E-04	4.67E-04	3.06E-04	4.33E-04	2.13E-04
3534	564917.4	4222400	0.002964	0.00392	1.40E-03	1.57E-03	4.30E-03	1.40E-03	3.89E-04	7.66E-04	4.59E-04	3.01E-04	4.26E-04	2.10E-04
3535	564918.5	4222409	0.002914	0.003853	1.38E-03	1.54E-03	4.22E-03	1.38E-03	3.83E-04	7.53E-04	4.52E-04	2.96E-04	4.19E-04	2.06E-04
3536	564919.7	4222418	0.00286	0.003783	1.36E-03	1.52E-03	4.15E-03	1.36E-03	3.76E-04	7.39E-04	4.43E-04	2.91E-04	4.11E-04	2.02E-04
3537	564920.9	4222427	0.002804	0.003709	1.33E-03	1.49E-03	4.07E-03	1.33E-03	3.68E-04	7.25E-04	4.35E-04	2.85E-04	4.03E-04	1.98E-04
3538	564922	4222437	0.002748	0.003634	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
3539	564891.7	4222356	0.002961	0.003916	1.40E-03	1.57E-03	4.29E-03	1.40E-03	3.89E-04	7.65E-04	4.59E-04	3.01E-04	4.26E-04	2.09E-04
3540	564892.8	4222365	0.00293	0.003875	1.39E-03	1.55E-03	4.25E-03	1.39E-03	3.85E-04	7.57E-04	4.54E-04	2.98E-04	4.21E-04	2.07E-04
3541	564894	4222375	0.002896	0.00383	1.37E-03	1.54E-03	4.20E-03	1.37E-03	3.80E-04	7.48E-04	4.49E-04	2.94E-04	4.17E-04	2.05E-04
3542	564895.2	4222384	0.002858	0.00378	1.35E-03	1.52E-03	4.14E-03	1.35E-03	3.75E-04	7.38E-04	4.43E-04	2.90E-04	4.11E-04	2.02E-04
3543	564896.3	4222393	0.002818	0.003726	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.70E-04	7.28E-04	4.37E-04	2.86E-04	4.05E-04	1.99E-04
3544	564897.5	4222402	0.002775	0.00367	1.31E-03	1.47E-03	4.02E-03	1.31E-03	3.64E-04	7.17E-04	4.30E-04	2.82E-04	3.99E-04	1.96E-04
3545	564898.7	4222412	0.002731	0.003611	1.29E-03	1.45E-03	3.96E-03	1.29E-03	3.59E-04	7.05E-04	4.23E-04	2.77E-04	3.93E-04	1.93E-04
3546	564899.9	4222421	0.002683	0.003549	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.52E-04	6.93E-04	4.16E-04	2.73E-04	3.86E-04	1.90E-04

3547	564901	4222430	0.002633	0.003482	1.25E-03	1.40E-03	3.82E-03	1.25E-03	3.46E-04	6.80E-04	4.08E-04	2.68E-04	3.79E-04	1.86E-04
3548	564902.2	4222439	0.00258	0.003412	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.62E-04	3.71E-04	1.82E-04
3549	564873	4222368	0.002747	0.003633	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
3550	564874.2	4222377	0.002715	0.003591	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.01E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
3551	564875.3	4222386	0.00268	0.003545	1.27E-03	1.42E-03	3.89E-03	1.27E-03	3.52E-04	6.92E-04	4.15E-04	2.72E-04	3.86E-04	1.90E-04
3552	564876.5	4222396	0.002643	0.003495	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.83E-04	4.10E-04	2.69E-04	3.80E-04	1.87E-04
3553	564877.7	4222405	0.002604	0.003443	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.42E-04	6.73E-04	4.04E-04	2.65E-04	3.75E-04	1.84E-04
3554	564878.8	4222414	0.002562	0.003389	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.37E-04	6.62E-04	3.97E-04	2.60E-04	3.69E-04	1.81E-04
3555	564880	4222423	0.002519	0.003331	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
3556	564881.2	4222433	0.002474	0.003272	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.39E-04	3.84E-04	2.51E-04	3.56E-04	1.75E-04
3557	564882.3	4222442	0.002427	0.00321	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.47E-04	3.49E-04	1.72E-04
3558	564852	4222361	0.002609	0.00345	1.24E-03	1.38E-03	3.78E-03	1.24E-03	3.43E-04	6.74E-04	4.04E-04	2.65E-04	3.75E-04	1.85E-04
3559	564855.5	4222389	0.002519	0.003331	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
3560	564856.7	4222398	0.002485	0.003286	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.42E-04	3.85E-04	2.52E-04	3.57E-04	1.76E-04
3561	564857.8	4222407	0.002448	0.003238	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.21E-04	6.32E-04	3.80E-04	2.49E-04	3.52E-04	1.73E-04
3562	564859	4222417	0.002409	0.003187	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.22E-04	3.74E-04	2.45E-04	3.47E-04	1.70E-04
3563	564860.2	4222426	0.002369	0.003133	1.12E-03	1.26E-03	3.43E-03	1.12E-03	3.11E-04	6.12E-04	3.67E-04	2.41E-04	3.41E-04	1.68E-04
3564	564861.3	4222435	0.002329	0.00308	1.10E-03	1.23E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
3565	564862.5	4222444	0.002288	0.003026	1.08E-03	1.21E-03	3.32E-03	1.08E-03	3.00E-04	5.91E-04	3.55E-04	2.33E-04	3.29E-04	1.62E-04
3566	564831	4222355	0.00248	0.00328	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.41E-04	3.85E-04	2.52E-04	3.57E-04	1.75E-04
3567	564832.1	4222364	0.002457	0.003249	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.23E-04	6.35E-04	3.81E-04	2.50E-04	3.53E-04	1.74E-04
3568	564833.3	4222373	0.002431	0.003215	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.28E-04	3.77E-04	2.47E-04	3.50E-04	1.72E-04
3569	564836.8	4222401	0.002341	0.003096	1.11E-03	1.24E-03	3.39E-03	1.11E-03	3.07E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
3570	564838	4222410	0.002308	0.003053	1.09E-03	1.22E-03	3.35E-03	1.09E-03	3.03E-04	5.96E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
3571	564839.2	4222419	0.002274	0.003007	1.08E-03	1.21E-03	3.30E-03	1.08E-03	2.99E-04	5.87E-04	3.52E-04	2.31E-04	3.27E-04	1.61E-04
3572	564840.3	4222428	0.002238	0.002959	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
3573	564841.5	4222438	0.0022	0.00291	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.24E-04	3.16E-04	1.56E-04
3574	564842.7	4222447	0.002162	0.002859	1.02E-03	1.15E-03	3.13E-03	1.02E-03	2.84E-04	5.58E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
3575	564812.3	4222366	0.002318	0.003066	1.10E-03	1.23E-03	3.36E-03	1.10E-03	3.04E-04	5.99E-04	3.59E-04	2.36E-04	3.33E-04	1.64E-04
3576	564813.5	4222375	0.002294	0.003033	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.01E-04	5.93E-04	3.56E-04	2.33E-04	3.30E-04	1.62E-04
3577	564814.6	4222385	0.002267	0.002999	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.51E-04	2.30E-04	3.26E-04	1.60E-04
3578	564815.8	4222394	0.002239	0.002961	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
3579	564820.5	4222431	0.002115	0.002797	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.46E-04	3.28E-04	2.15E-04	3.04E-04	1.50E-04
3580	564821.7	4222440	0.002081	0.002752	9.86E-04	1.10E-03	3.02E-03	9.86E-04	2.73E-04	5.38E-04	3.23E-04	2.11E-04	2.99E-04	1.47E-04
3581	564822.8	4222449	0.002045	0.002705	9.69E-04	1.08E-03	2.97E-03	9.69E-04	2.69E-04	5.28E-04	3.17E-04	2.08E-04	2.94E-04	1.45E-04
3582	564792.5	4222369	0.002191	0.002898	1.04E-03	1.16E-03	3.18E-03	1.04E-03	2.88E-04	5.66E-04	3.40E-04	2.23E-04	3.15E-04	1.55E-04
3583	564793.6	4222378	0.002169	0.002868	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
3584	564794.8	4222387	0.002144	0.002836	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.82E-04	5.54E-04	3.32E-04	2.18E-04	3.08E-04	1.52E-04
3585	564796	4222396	0.002118	0.002801	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.05E-04	1.50E-04
3586	564797.1	4222406	0.002091	0.002765	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
3587	564798.3	4222415	0.002063	0.002728	9.77E-04	1.09E-03	2.99E-03	9.77E-04	2.71E-04	5.33E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
3588	564799.5	4222424	0.002033	0.002689	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.07E-04	2.92E-04	1.44E-04
3589	564800.6	4222433	0.002003	0.002648	9.49E-04	1.06E-03	2.90E-03	9.49E-04	2.63E-04	5.17E-04	3.10E-04	2.04E-04	2.88E-04	1.42E-04
3590	564772.6	4222371	0.002075	0.002744	9.83E-04	1.10E-03	3.01E-03	9.83E-04	2.73E-04	5.36E-04	3.22E-04	2.11E-04	2.99E-04	1.47E-04
3591	564773.8	4222381	0.002055	0.002717	9.73E-04	1.09E-03	2.98E-03	9.73E-04	2.70E-04	5.31E-04	3.18E-04	2.09E-04	2.96E-04	1.45E-04
3592	564775	4222390	0.002032	0.002688	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.07E-04	2.92E-04	1.44E-04
3593	564776.1	4222399	0.002008	0.002656	9.51E-04	1.06E-03	2.91E-03	9.51E-04	2.64E-04	5.19E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
3594	564777.3	4222408	0.001982	0.002622	9.39E-04	1.05E-03	2.87E-03	9.39E-04	2.60E-04	5.12E-04	3.07E-04	2.01E-04	2.85E-04	1.40E-04
3595	564778.5	4222417	0.001955	0.002586	9.26E-04	1.04E-03	2.83E-03	9.26E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
3596	564779.6	4222427	0.001927	0.002549	9.13E-04	1.02E-03	2.79E-03	9.13E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
3597	564780.8	4222436	0.001899	0.002512	9.00E-04	1.01E-03	2.75E-03	9.00E-04	2.49E-04	4.91E-04	2.94E-04	1.93E-04	2.73E-04	1.34E-04
3598	564782	4222445	0.00187	0.002473	8.86E-04	9.91E-04	2.71E-03	8.86E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
3599	564783.1	4222454	0.00184	0.002433	8.72E-04	9.75E-04	2.67E-03	8.72E-04	2.42E-04	4.75E-04	2.85E-04	1.87E-04	2.65E-04	1.30E-04
3600	564752.8	4222374	0.001968	0.002603	9.33E-04	1.04E-03	2.85E-03	9.33E-04	2.58E-04	5.09E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
3601	564753.9	4222383	0.001949	0.002577	9.23E-04	1.03E-03	2.83E-03	9.23E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
3602	564755.1	4222392	0.001928	0.00255	9.13E-04	1.02E-03	2.79E-03	9.13E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
3603	564756.3	4222401	0.001905	0.00252	9.03E-04	1.01E-03	2.76E-03	9.03E-04	2.50E-04	4.92E-04	2.95E-04	1.94E-04	2.74E-04	1.35E-04
3604	564757.5	4222411	0.001881	0.002488	8.91E-04	9.97E-04	2.73E-03	8.91E-04	2.47E-04	4.86E-04	2.92E-04	1.91E-04	2.71E-04	1.33E-04
3605	564758.6	4222420	0.001856	0.002455	8.79E-04	9.84E-04	2.69E-03	8.79E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
3606	564759.8	4222429	0.00183	0.00242	8.67E-04	9.70E-04	2.65E-03	8.67E-04	2.40E-04	4.73E-04	2.84E-04	1.86E-04	2.63E-04	1.29E-04
3607	564761	4222438	0.001804	0.002386	8.55E-04	9.56E-04	2.62E-03	8.55E-04	2.37E-04	4.66E-04	2.80E-04	1.83E-04	2.60E-04	1.28E-04
3608	564762.1	4222448	0.001777	0.00235	8.42E-04	9.42E-04	2.58E-03	8.42E-04	2.33E-04	4.59E-04	2.75E-04	1.81E-04	2.56E-04	1.26E-04
3609	564763.3	4222457	0.001749	0.002313	8.29E-04	9.27E-04	2.54E-03	8.29E-04	2.30E-04	4.52E-04	2.71E-04	1.78E-04	2.52E-04	1.24E-04
3610	564732.9	4222376	0.001871	0.002474	8.86E-04	9.92E-04	2.71E-03	8.86E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
3611	564736.4	4222404	0.00181	0.002394	8.58E-04	9.60E-04	2.62E-03	8.58E-04	2.38E-04	4.68E-04	2.81E-04	1.84E-04	2.60E-04	1.28E-04
3612	564737.6	4222413	0.001788	0.002365	8.47E-04	9.48E-04	2.59E-03	8.47E-04	2.35E-04	4.62E-04	2.77E-04	1.82E-04	2.57E-04	1.26E-04
3613	564738.8	4222422	0.001765	0.002334	8.36E-04	9.36E-04	2.56E-03	8.36E-04	2.32E-04	4.56E-04	2.74E-04	1.79E-04	2.54E-04	1.25E-04
3614	564740	4222432	0.001741	0.002302	8.25E-04	9.23E-04	2.52E-03	8.25E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.50E-04	1.23E-04
3615	564741.1	4222441	0.001716	0.00227	8.13E-04	9.10E-04	2.49E-03	8.13E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
3616	564742.3	4222450	0.001691	0.002236	8.01E-04	8.97E-04	2.45E-03	8.01E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
3617	564743.5	4222459	0.001665	0.002202	7.89E-04	8.83E-04	2.41E-03	7.89E-04	2.19E-04	4.30E-04	2.58E-04	1.69E-04	2.40E-04	1.18E-04
3618	564711.9	4222370	0.001798	0.002377	8.52E-04	9.53E-04	2.61E-03	8.52E-04	2.36E-04	4.64E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
3619	564713.1	4222379	0.00178	0.002354	8.43E-04	9.44E-04	2.58E-03	8.43E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
3620	564714.3	4222388	0.001762	0.00233	8.35E-04	9.34E-04	2.55E-03	8.35E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.53E-04	1.25E-04
3621	564695.6	4222400	0.001661	0.002196	7.87E-04	8.80E-04	2.41E-03	7.87E-04	2.18E-04	4.29E-04	2.57E-04	1.69E-04	2.39E-04	1.17E-04
3622	564696.8	4222409	0.001642	0.002172	7.78E-04	8.71E-04	2.38E-03	7.78E-04	2.16E-04	4.24E-04	2.55E-04	1.67E-04	2.36E-04	1.16E-04
3623	564697.9	4222418	0.001623	0.002146	7.69E-04	8.61E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.33E-04	1.15E-04
3624	564699.1	4222427	0.001603	0.00212	7.59E-04	8.50E-04	2.32E-03	7.59E-04	2.11E-04	4.14E-04	2.48E-04	1.63E-04	2.31E-04	1.13E-04
3625	564700.3	4222437	0.001582	0.002092	7.49E-04	8.39E-04	2.29E-03	7.49E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
3626	564701.4	4222446	0.00156	0.002063	7.39E-04	8.27E-04	2.26E-03	7.39E-04	2.05E-04	4.03E-04	2.42E-04	1.59E-04	2.24E-04	1.10E-04
3627	564702.6	4222455	0.001538	0.002034	7.29E-04	8.15E-04	2.23E-03	7.29E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
3628	564703.8	4222464	0.001515	0.002004	7.18E-04	8.03E-04	2.20E-03	7.18E-04	1.99E-04	3.91E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
3629	565258.1	4222418	0.013162	0.017406	6.24E-03	6.98E-03	1.91E-02	6.24E-03	1.73E-03	3.40E-03	2.04E-03	1.34E-03	1.89E-03	9.31E-04
3630	565251.7	4222407	0.013461	0.017803	6.38E-03	7.14E-03	1.95E-02	6.38E-03	1.77E-03	3.48E-03	2.09E-03	1.37E-03	1.94E-03	9.52E-04
3631	565258.2	4222437	0.011696	0.015468	5.54E-03	6.20E-03	1.70E-02	5.54E-03	1.54E-03	3.02E-03	1.81E-03	1.19E-03	1.68E-03	8.27E-04
3632	565251.8	4222425	0.011988	0.015854	5.68E-03	6.36E-03	1.74E-02	5.68E-03	1.57E-03	3.10E-03	1.86E-03	1.22E-03	1.72E-03	8.48E-04
3633	565245.3	4222414	0.012319	0.016291	5.84E-03	6.53E-03	1.79E-02	5.84E-03	1.62E-03	3.18E-03	1.91E-03	1.25E-03	1.77E-03	8.71E-04
3634	565252.1	4222444	0.010577	0.013988	5.01E-03	5.61E-03	1.53E-02	5.01E-03	1.39E-03	2.73E-03	1.64E-03	1.07E-03	1.52E-03	7.48E-04
3635	565245.6	4222433	0.010937	0.014464	5.18E-03	5.80E-03	1.59E-02	5.18E-03	1.44E-03	2.83E-03	1.70E-03	1.11E-03	1.57E-03	7.73E-04
3636	565239	4222421	0.011279	0.014916	5.34E-03	5.98E-03	1.64E-02	5.34E-03	1.48E-03	2.91E-03	1.75E-03	1.15E-03	1.62E-03	7.98E-04
3637	565232.4	4222410	0.011615	0.015361	5.50E-03	6.16E-03	1.68E-02	5.50E-03	1.53E-03	3.00E-03	1.80E-03	1.18E-03	1.67E-03	8.21E-04

3638	565255.8	4222460	0.009614	0.012714	4.55E-03	5.10E-03	1.39E-02	4.55E-03	1.26E-03	2.48E-03	1.49E-03	9.77E-04	1.38E-03	6.80E-04
3639	565246	4222452	0.009557	0.012639	4.53E-03	5.07E-03	1.39E-02	4.53E-03	1.26E-03	2.47E-03	1.48E-03	9.71E-04	1.37E-03	6.76E-04
3640	565239.4	4222440	0.009962	0.013174	4.72E-03	5.28E-03	1.44E-02	4.72E-03	1.31E-03	2.57E-03	1.54E-03	1.01E-03	1.43E-03	7.04E-04
3641	565232.7	4222429	0.010326	0.013656	4.89E-03	5.47E-03	1.50E-02	4.89E-03	1.36E-03	2.67E-03	1.60E-03	1.05E-03	1.49E-03	7.30E-04
3642	565226.1	4222417	0.010669	0.01411	5.05E-03	5.66E-03	1.55E-02	5.05E-03	1.40E-03	2.76E-03	1.65E-03	1.08E-03	1.53E-03	7.55E-04
3643	565256.3	4222469	0.008823	0.011668	4.18E-03	4.68E-03	1.28E-02	4.18E-03	1.16E-03	2.28E-03	1.37E-03	8.97E-04	1.27E-03	6.24E-04
3644	565239.9	4222460	0.008624	0.011405	4.09E-03	4.57E-03	1.25E-02	4.09E-03	1.13E-03	2.23E-03	1.34E-03	8.76E-04	1.24E-03	6.10E-04
3645	565233.2	4222448	0.009063	0.011986	4.29E-03	4.81E-03	1.31E-02	4.29E-03	1.19E-03	2.34E-03	1.40E-03	9.21E-04	1.30E-03	6.41E-04
3646	565226.5	4222436	0.009451	0.012498	4.48E-03	5.01E-03	1.37E-02	4.48E-03	1.24E-03	2.44E-03	1.47E-03	9.60E-04	1.36E-03	6.68E-04
3647	565219.8	4222424	0.009804	0.012966	4.64E-03	5.20E-03	1.42E-02	4.64E-03	1.29E-03	2.53E-03	1.52E-03	9.96E-04	1.41E-03	6.93E-04
3648	565213.1	4222412	0.010124	0.013388	4.80E-03	5.37E-03	1.47E-02	4.80E-03	1.33E-03	2.62E-03	1.57E-03	1.03E-03	1.46E-03	7.16E-04
3649	565257	4222479	0.008033	0.010623	3.81E-03	4.26E-03	1.16E-02	3.81E-03	1.05E-03	2.08E-03	1.25E-03	8.16E-04	1.16E-03	5.68E-04
3650	565243.8	4222475	0.007689	0.010168	3.64E-03	4.08E-03	1.11E-02	3.64E-03	1.01E-03	1.99E-03	1.19E-03	7.81E-04	1.11E-03	5.44E-04
3651	565233.8	4222467	0.007783	0.010292	3.69E-03	4.13E-03	1.13E-02	3.69E-03	1.02E-03	2.01E-03	1.21E-03	7.91E-04	1.12E-03	5.50E-04
3652	565227	4222456	0.00824	0.010898	3.90E-03	4.37E-03	1.19E-02	3.90E-03	1.08E-03	2.13E-03	1.28E-03	8.37E-04	1.19E-03	5.83E-04
3653	565220.3	4222444	0.008646	0.011434	4.10E-03	4.58E-03	1.25E-02	4.10E-03	1.14E-03	2.23E-03	1.34E-03	8.79E-04	1.24E-03	6.11E-04
3654	565213.5	4222432	0.009011	0.011917	4.27E-03	4.78E-03	1.31E-02	4.27E-03	1.18E-03	2.33E-03	1.40E-03	9.16E-04	1.30E-03	6.37E-04
3655	565206.7	4222420	0.009337	0.012348	4.42E-03	4.95E-03	1.35E-02	4.42E-03	1.23E-03	2.41E-03	1.45E-03	9.49E-04	1.34E-03	6.60E-04
3656	565257.7	4222489	0.007264	0.009606	3.44E-03	3.85E-03	1.05E-02	3.44E-03	9.54E-04	1.88E-03	1.13E-03	7.38E-04	1.04E-03	5.14E-04
3657	565244.4	4222485	0.007019	0.009283	3.33E-03	3.72E-03	1.02E-02	3.33E-03	9.22E-04	1.81E-03	1.09E-03	7.13E-04	1.01E-03	4.96E-04
3658	565227.7	4222475	0.007038	0.009308	3.33E-03	3.73E-03	1.02E-02	3.33E-03	9.24E-04	1.82E-03	1.09E-03	7.15E-04	1.01E-03	4.98E-04
3659	565220.9	4222463	0.007497	0.009915	3.55E-03	3.97E-03	1.09E-02	3.55E-03	9.85E-04	1.94E-03	1.16E-03	7.62E-04	1.08E-03	5.30E-04
3660	565214.1	4222451	0.007912	0.010464	3.75E-03	4.20E-03	1.15E-02	3.75E-03	1.04E-03	2.04E-03	1.23E-03	8.04E-04	1.14E-03	5.60E-04
3661	565200.5	4222427	0.008616	0.011394	4.08E-03	4.57E-03	1.25E-02	4.08E-03	1.13E-03	2.23E-03	1.34E-03	8.76E-04	1.24E-03	6.09E-04
3662	565193.7	4222415	0.008905	0.011777	4.22E-03	4.72E-03	1.29E-02	4.22E-03	1.17E-03	2.30E-03	1.38E-03	9.05E-04	1.28E-03	6.30E-04
3663	565258.4	4222498	0.006537	0.008645	3.10E-03	3.47E-03	9.48E-03	3.10E-03	8.58E-04	1.69E-03	1.01E-03	6.64E-04	9.40E-04	4.62E-04
3664	565245.1	4222495	0.006381	0.008439	3.02E-03	3.38E-03	9.25E-03	3.02E-03	8.38E-04	1.65E-03	9.89E-04	6.49E-04	9.18E-04	4.51E-04
3665	565214.8	4222471	0.006832	0.009036	3.24E-03	3.62E-03	9.91E-03	3.24E-03	8.97E-04	1.77E-03	1.06E-03	6.94E-04	9.83E-04	4.83E-04
3666	565207.9	4222459	0.007245	0.009581	3.43E-03	3.84E-03	1.05E-02	3.43E-03	9.51E-04	1.87E-03	1.12E-03	7.36E-04	1.04E-03	5.12E-04
3667	565187.4	4222422	0.008247	0.010907	3.91E-03	4.37E-03	1.20E-02	3.91E-03	1.08E-03	2.13E-03	1.28E-03	8.38E-04	1.19E-03	5.83E-04
3668	565259.2	4222508	0.005854	0.007742	2.77E-03	3.10E-03	8.49E-03	2.77E-03	7.69E-04	1.51E-03	9.08E-04	5.95E-04	8.42E-04	4.14E-04
3669	565245.8	4222504	0.005777	0.007639	2.74E-03	3.06E-03	8.37E-03	2.74E-03	7.59E-04	1.49E-03	8.95E-04	5.87E-04	8.31E-04	4.09E-04
3670	565208.6	4222478	0.006236	0.008247	2.95E-03	3.31E-03	9.04E-03	2.95E-03	8.19E-04	1.61E-03	9.67E-04	6.34E-04	8.97E-04	4.41E-04
3671	565201.7	4222466	0.00664	0.008781	3.15E-03	3.52E-03	9.63E-03	3.15E-03	8.72E-04	1.72E-03	1.03E-03	6.75E-04	9.55E-04	4.70E-04
3672	565181.1	4222430	0.007642	0.010107	3.62E-03	4.05E-03	1.11E-02	3.62E-03	1.00E-03	1.97E-03	1.18E-03	7.77E-04	1.10E-03	5.40E-04
3673	565174.2	4222418	0.007898	0.010445	3.74E-03	4.19E-03	1.15E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.03E-04	1.14E-03	5.59E-04
3674	565260.1	4222518	0.005227	0.006913	2.48E-03	2.77E-03	7.58E-03	2.48E-03	6.86E-04	1.35E-03	8.10E-04	5.31E-04	7.52E-04	3.70E-04
3675	565246.6	4222514	0.005211	0.006892	2.47E-03	2.76E-03	7.56E-03	2.47E-03	6.84E-04	1.35E-03	8.08E-04	5.30E-04	7.50E-04	3.69E-04
3676	565233.1	4222510	0.005171	0.006839	2.45E-03	2.74E-03	7.50E-03	2.45E-03	6.79E-04	1.34E-03	8.02E-04	5.26E-04	7.44E-04	3.66E-04
3677	565219.6	4222506	0.005109	0.006756	2.42E-03	2.71E-03	7.41E-03	2.42E-03	6.71E-04	1.32E-03	7.92E-04	5.19E-04	7.35E-04	3.61E-04
3678	565209.4	4222498	0.005284	0.006988	2.50E-03	2.80E-03	7.66E-03	2.50E-03	6.94E-04	1.37E-03	8.19E-04	5.37E-04	7.60E-04	3.74E-04
3679	565195.6	4222474	0.006093	0.008057	2.89E-03	3.23E-03	8.83E-03	2.89E-03	8.00E-04	1.57E-03	9.44E-04	6.19E-04	8.76E-04	4.31E-04
3680	565181.8	4222450	0.006787	0.008975	3.22E-03	3.60E-03	9.84E-03	3.22E-03	8.91E-04	1.75E-03	1.05E-03	6.90E-04	9.76E-04	4.80E-04
3681	565174.9	4222437	0.007085	0.00937	3.36E-03	3.76E-03	1.03E-02	3.36E-03	9.30E-04	1.83E-03	1.10E-03	7.20E-04	1.02E-03	5.01E-04
3682	565167.9	4222425	0.007345	0.009713	3.48E-03	3.89E-03	1.06E-02	3.48E-03	9.65E-04	1.90E-03	1.14E-03	7.46E-04	1.06E-03	5.19E-04
3683	565274.5	4222531	0.004608	0.006095	2.18E-03	2.44E-03	6.68E-03	2.18E-03	6.05E-04	1.19E-03	7.14E-04	4.68E-04	6.63E-04	3.26E-04
3684	565261	4222527	0.004665	0.006169	2.21E-03	2.47E-03	6.76E-03	2.21E-03	6.13E-04	1.21E-03	7.23E-04	4.74E-04	6.71E-04	3.30E-04
3685	565247.4	4222524	0.004691	0.006203	2.22E-03	2.49E-03	6.80E-03	2.22E-03	6.16E-04	1.21E-03	7.27E-04	4.77E-04	6.75E-04	3.32E-04
3686	565233.9	4222520	0.004694	0.006208	2.22E-03	2.49E-03	6.81E-03	2.22E-03	6.16E-04	1.21E-03	7.28E-04	4.77E-04	6.75E-04	3.32E-04
3687	565220.3	4222516	0.004671	0.006177	2.21E-03	2.48E-03	6.77E-03	2.21E-03	6.13E-04	1.21E-03	7.24E-04	4.75E-04	6.72E-04	3.30E-04
3688	565203.3	4222506	0.004824	0.00638	2.29E-03	2.56E-03	6.99E-03	2.29E-03	6.34E-04	1.25E-03	7.48E-04	4.90E-04	6.94E-04	3.41E-04
3689	565182.5	4222469	0.005947	0.007864	2.82E-03	3.15E-03	8.62E-03	2.82E-03	7.81E-04	1.54E-03	9.22E-04	6.04E-04	8.55E-04	4.21E-04
3690	565175.6	4222457	0.006275	0.008299	2.97E-03	3.33E-03	9.10E-03	2.97E-03	8.24E-04	1.62E-03	9.73E-04	6.38E-04	9.03E-04	4.44E-04
3691	565168.6	4222445	0.006571	0.00869	3.11E-03	3.48E-03	9.53E-03	3.11E-03	8.63E-04	1.70E-03	1.02E-03	6.68E-04	9.45E-04	4.65E-04
3692	565161.7	4222433	0.006833	0.009037	3.24E-03	3.62E-03	9.91E-03	3.24E-03	8.97E-04	1.77E-03	1.06E-03	6.94E-04	9.83E-04	4.83E-04
3693	565154.7	4222420	0.007057	0.009333	3.34E-03	3.74E-03	1.02E-02	3.34E-03	9.27E-04	1.82E-03	1.09E-03	7.17E-04	1.02E-03	4.99E-04
3694	565275.5	4222541	0.00408	0.005396	1.93E-03	2.16E-03	5.92E-03	1.93E-03	5.36E-04	1.05E-03	6.33E-04	4.15E-04	5.87E-04	2.89E-04
3695	565261.9	4222537	0.004162	0.005504	1.97E-03	2.21E-03	6.03E-03	1.97E-03	5.47E-04	1.08E-03	6.45E-04	4.23E-04	5.99E-04	2.94E-04
3696	565248.3	4222533	0.004217	0.005577	2.00E-03	2.24E-03	6.11E-03	2.00E-03	5.54E-04	1.09E-03	6.54E-04	4.29E-04	6.07E-04	2.98E-04
3697	565234.7	4222529	0.004253	0.005625	2.02E-03	2.26E-03	6.17E-03	2.02E-03	5.59E-04	1.10E-03	6.59E-04	4.32E-04	6.12E-04	3.01E-04
3698	565221.1	4222526	0.004263	0.005637	2.02E-03	2.26E-03	6.18E-03	2.02E-03	5.60E-04	1.10E-03	6.61E-04	4.33E-04	6.13E-04	3.01E-04
3699	565207.5	4222522	0.004245	0.005615	2.01E-03	2.25E-03	6.15E-03	2.01E-03	5.58E-04	1.10E-03	6.58E-04	4.31E-04	6.11E-04	3.00E-04
3700	565183.3	4222489	0.005145	0.006805	2.44E-03	2.73E-03	7.46E-03	2.44E-03	6.76E-04	1.33E-03	7.98E-04	5.23E-04	7.40E-04	3.64E-04
3701	565176.4	4222477	0.005484	0.007252	2.60E-03	2.91E-03	7.95E-03	2.60E-03	7.20E-04	1.42E-03	8.50E-04	5.57E-04	7.89E-04	3.88E-04
3702	565169.4	4222465	0.005804	0.007675	2.75E-03	3.08E-03	8.41E-03	2.75E-03	7.62E-04	1.50E-03	9.00E-04	5.90E-04	8.35E-04	4.10E-04
3703	565162.4	4222452	0.006098	0.008065	2.89E-03	3.23E-03	8.84E-03	2.89E-03	8.01E-04	1.58E-03	9.45E-04	6.20E-04	8.77E-04	4.31E-04
3704	565155.5	4222440	0.006358	0.008408	3.01E-03	3.37E-03	9.22E-03	3.01E-03	8.35E-04	1.64E-03	9.86E-04	6.46E-04	9.15E-04	4.50E-04
3705	565148.5	4222428	0.006588	0.008712	3.12E-03	3.49E-03	9.55E-03	3.12E-03	8.65E-04	1.70E-03	1.02E-03	6.69E-04	9.48E-04	4.66E-04
3706	565276.4	4222551	0.003621	0.004788	1.72E-03	1.92E-03	5.25E-03	1.72E-03	4.75E-04	9.35E-04	5.61E-04	3.68E-04	5.21E-04	2.56E-04
3707	565262.8	4222547	0.003718	0.004917	1.76E-03	1.97E-03	5.39E-03	1.76E-03	4.88E-04	9.61E-04	5.76E-04	3.78E-04	5.35E-04	2.63E-04
3708	565249.2	4222543	0.003791	0.005014	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.98E-04	9.79E-04	5.88E-04	3.85E-04	5.45E-04	2.68E-04
3709	565235.5	4222539	0.00385	0.005092	1.82E-03	2.04E-03	5.58E-03	1.82E-03	5.06E-04	9.95E-04	5.97E-04	3.91E-04	5.54E-04	2.72E-04
3710	565221.9	4222535	0.003884	0.005137	1.84E-03	2.06E-03	5.63E-03	1.84E-03	5.10E-04	1.00E-03	6.02E-04	3.95E-04	5.59E-04	2.75E-04
3711	565208.3	4222531	0.003893	0.005148	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.01E-03	6.03E-04	3.96E-04	5.60E-04	2.75E-04
3712	565177.2	4222497	0.00474	0.006269	2.25E-03	2.51E-03	6.87E-03	2.25E-03	6.23E-04	1.22E-03	7.35E-04	4.82E-04	6.82E-04	3.35E-04
3713	565170.2	4222484	0.005062	0.006694	2.40E-03	2.68E-03	7.34E-03	2.40E-03	6.65E-04	1.31E-03	7.85E-04	5.14E-04	7.28E-04	3.58E-04
3714	565163.2	4222472	0.005371	0.007103	2.54E-03	2.85E-03	7.79E-03	2.54E-03	7.05E-04	1.39E-03	8.33E-04	5.46E-04	7.73E-04	3.80E-04
3715	565156.2	4222460	0.005659	0.007484	2.68E-03	3.00E-03	8.20E-03	2.68E-03	7.43E-04	1.46E-03	8.77E-04	5.75E-04	8.14E-04	4.00E-04
3716	565149.2	4222448	0.005917	0.007826	2.80E-03	3.14E-03	8.58E-03	2.80E-03	7.77E-04	1.53E-03	9.17E-04	6.01E-04	8.51E-04	4.18E-04
3717	565142.3	4222435	0.006149	0.008132	2.91E-03	3.26E-03	8.91E-03	2.91E-03	8.08E-04	1.59E-03	9.53E-04	6.25E-04	8.84E-04	4.35E-04
3718	565135.3	4222423	0.006348	0.008395	3.01E-03	3.37E-03	9.20E-03	3.01E-03	8.34E-04	1.64E-03	9.84E-04	6.45E-04	9.13E-04	4.49E-04
3719	565277.4	4222560	0.003222	0.004261	1.53E-03	1.71E-03	4.67E-03	1.53E-03	4.23E-04	8.32E-04	4.99E-04	3.27E-04	4.63E-04	2.28E-04
3720	565263.8	4222557	0.003326	0.004398	1.58E-03	1.76E-03	4.82E-03	1.58E-03	4.37E-04	8.59E-04	5.16E-04	3.38E-04	4.78E-04	2.35E-04
3721	565250.1	4222553	0.003411	0.004511	1.62E-03	1.81E-03	4.94E-03	1.62E-03	4.48E-04	8.81E-04	5.29E-04	3.47E-04	4.91E-04	2.41E-04
3722	565222.8	4222545	0.003537	0.004678	1.68E-03	1.88E-03	5.13E-03	1.68E-03	4.65E-04	9.14E-04	5.48E-04	3.59E-04	5.09E-04	2.50E-04
3723	565209.1	4222541	0.003565	0.004714	1.69E-03	1.89E-03	5.17E-03	1.69E-03	4.68E-04	9.21E-04	5.53E-04	3.62E-04	5.13E-04	2.52E-04
3724	565178.1	4222517	0.00406	0.005369	1.92E-03	2.15E-03	5.89E-03	1.92E-03	5.33E-04	1.05E-03	6.29E-04	4.13E-04	5.84E-04	2.87E-04
3725	565171.1	4222504	0.004377	0.005788	2.07E-03	2.32E-03	6.35E-03	2.07E-03	5.75E-04	1.13E-03	6.79E-04	4.45E-04	6.30E-04	3.10E-04
3726	565164.1	4222492	0.004682	0.006191	2.22E-03	2.48E-03	6.79E-03	2.22E-03	6.15E-04	1.21E-03	7.26E-04	4.76E-04	6.73E-04	3.31E-04
3727	565157.1	4222480	0.004977	0.006582	2.36E-03	2.64E-03	7.22E-03	2.36E-03	6.54E-04	1.29E-03	7.72E-04	5.06E-04	7.16E-04	3.52E-04
3728	565150.1	4222467	0.005256	0.006951	2.49E-03	2.79E-03	7.62E-03	2.49E-03	6.90E-04	1.36E-03	8.15E-04	5.34E-04	7.56E-04	3.72E-04

3729	565143	4222455	0.005509	0.007286	2.61E-03	2.92E-03	7.99E-03	2.61E-03	7.24E-04	1.42E-03	8.54E-04	5.60E-04	7.93E-04	3.90E-04
3730	565136	4222443	0.00574	0.007591	2.72E-03	3.04E-03	8.32E-03	2.72E-03	7.54E-04	1.48E-03	8.90E-04	5.83E-04	8.26E-04	4.06E-04
3731	565129	4222430	0.005945	0.007862	2.82E-03	3.15E-03	8.62E-03	2.82E-03	7.81E-04	1.54E-03	9.22E-04	6.04E-04	8.55E-04	4.20E-04
3732	565267.5	4222567	0.002963	0.003919	1.40E-03	1.57E-03	4.30E-03	1.40E-03	3.89E-04	7.66E-04	4.59E-04	3.01E-04	4.26E-04	2.10E-04
3733	565254.4	4222563	0.003052	0.004036	1.45E-03	1.62E-03	4.42E-03	1.45E-03	4.01E-04	7.88E-04	4.73E-04	3.10E-04	4.39E-04	2.16E-04
3734	565215.2	4222552	0.003246	0.004293	1.54E-03	1.72E-03	4.71E-03	1.54E-03	4.26E-04	8.39E-04	5.03E-04	3.30E-04	4.67E-04	2.30E-04
3735	565202.1	4222549	0.003279	0.004337	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.31E-04	8.47E-04	5.08E-04	3.33E-04	4.72E-04	2.32E-04
3736	565179.2	4222537	0.00345	0.004563	1.63E-03	1.83E-03	5.00E-03	1.63E-03	4.53E-04	8.91E-04	5.35E-04	3.51E-04	4.96E-04	2.44E-04
3737	565172.5	4222525	0.003735	0.004939	1.77E-03	1.98E-03	5.41E-03	1.77E-03	4.90E-04	9.65E-04	5.79E-04	3.80E-04	5.37E-04	2.64E-04
3738	565165.7	4222514	0.004018	0.005314	1.90E-03	2.13E-03	5.83E-03	1.90E-03	5.28E-04	1.04E-03	6.23E-04	4.08E-04	5.78E-04	2.84E-04
3739	565159	4222502	0.004294	0.005679	2.03E-03	2.28E-03	6.23E-03	2.03E-03	5.64E-04	1.11E-03	6.66E-04	4.36E-04	6.18E-04	3.04E-04
3740	565152.3	4222490	0.004564	0.006036	2.16E-03	2.42E-03	6.62E-03	2.16E-03	5.99E-04	1.18E-03	7.07E-04	4.64E-04	6.56E-04	3.23E-04
3741	565145.6	4222478	0.004823	0.006379	2.29E-03	2.56E-03	6.99E-03	2.29E-03	6.33E-04	1.25E-03	7.48E-04	4.90E-04	6.94E-04	3.41E-04
3742	565138.9	4222466	0.005065	0.006698	2.40E-03	2.69E-03	7.34E-03	2.40E-03	6.65E-04	1.31E-03	7.85E-04	5.15E-04	7.29E-04	3.58E-04
3743	565132.2	4222454	0.005285	0.006989	2.50E-03	2.80E-03	7.66E-03	2.50E-03	6.94E-04	1.37E-03	8.19E-04	5.37E-04	7.60E-04	3.74E-04
3744	565125.5	4222443	0.005492	0.007263	2.60E-03	2.91E-03	7.96E-03	2.60E-03	7.21E-04	1.42E-03	8.51E-04	5.58E-04	7.90E-04	3.88E-04
3745	565268.4	4222577	0.002667	0.003527	1.26E-03	1.41E-03	3.87E-03	1.26E-03	3.50E-04	6.89E-04	4.13E-04	2.71E-04	3.84E-04	1.89E-04
3746	565255.3	4222573	0.002755	0.003644	1.31E-03	1.46E-03	3.99E-03	1.31E-03	3.62E-04	7.12E-04	4.27E-04	2.80E-04	3.96E-04	1.95E-04
3747	565173.1	4222545	0.003197	0.004228	1.51E-03	1.70E-03	4.64E-03	1.51E-03	4.20E-04	8.26E-04	4.96E-04	3.25E-04	4.60E-04	2.26E-04
3748	565166.3	4222533	0.003463	0.004579	1.64E-03	1.84E-03	5.02E-03	1.64E-03	4.55E-04	8.95E-04	5.37E-04	3.52E-04	4.98E-04	2.45E-04
3749	565159.6	4222521	0.003727	0.004929	1.77E-03	1.98E-03	5.40E-03	1.77E-03	4.89E-04	9.63E-04	5.78E-04	3.79E-04	5.36E-04	2.64E-04
3750	565152.9	4222509	0.003987	0.005272	1.89E-03	2.11E-03	5.78E-03	1.89E-03	5.24E-04	1.03E-03	6.18E-04	4.05E-04	5.73E-04	2.82E-04
3751	565146.1	4222497	0.004244	0.005612	2.01E-03	2.25E-03	6.15E-03	2.01E-03	5.57E-04	1.10E-03	6.58E-04	4.31E-04	6.10E-04	3.00E-04
3752	565139.4	4222486	0.004494	0.005943	2.13E-03	2.38E-03	6.51E-03	2.13E-03	5.90E-04	1.16E-03	6.97E-04	4.57E-04	6.46E-04	3.18E-04
3753	565132.7	4222474	0.004727	0.006251	2.24E-03	2.51E-03	6.85E-03	2.24E-03	6.21E-04	1.22E-03	7.33E-04	4.80E-04	6.80E-04	3.34E-04
3754	565125.9	4222462	0.004944	0.006538	2.34E-03	2.62E-03	7.17E-03	2.34E-03	6.49E-04	1.28E-03	7.66E-04	5.02E-04	7.11E-04	3.50E-04
3755	565105.7	4222426	0.00548	0.007247	2.60E-03	2.91E-03	7.94E-03	2.60E-03	7.20E-04	1.42E-03	8.49E-04	5.57E-04	7.88E-04	3.88E-04
3756	565269.3	4222587	0.002411	0.003188	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.17E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.70E-04
3757	565256.1	4222583	0.002495	0.0033	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.45E-04	3.87E-04	2.54E-04	3.59E-04	1.76E-04
3758	565242.9	4222579	0.002573	0.003403	1.22E-03	1.36E-03	3.73E-03	1.22E-03	3.38E-04	6.65E-04	3.99E-04	2.61E-04	3.70E-04	1.82E-04
3759	565229.7	4222575	0.002643	0.003495	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.83E-04	4.10E-04	2.69E-04	3.80E-04	1.87E-04
3760	565216.5	4222572	0.002706	0.003578	1.28E-03	1.43E-03	3.92E-03	1.28E-03	3.55E-04	6.99E-04	4.19E-04	2.75E-04	3.89E-04	1.91E-04
3761	565167	4222553	0.00297	0.003928	1.41E-03	1.57E-03	4.31E-03	1.41E-03	3.90E-04	7.67E-04	4.60E-04	3.02E-04	4.27E-04	2.10E-04
3762	565160.2	4222541	0.003217	0.004255	1.52E-03	1.71E-03	4.66E-03	1.52E-03	4.23E-04	8.31E-04	4.99E-04	3.27E-04	4.63E-04	2.28E-04
3763	565153.5	4222529	0.003465	0.004582	1.64E-03	1.84E-03	5.02E-03	1.64E-03	4.55E-04	8.95E-04	5.37E-04	3.52E-04	4.98E-04	2.45E-04
3764	565146.7	4222517	0.003707	0.004902	1.76E-03	1.97E-03	5.37E-03	1.76E-03	4.87E-04	9.58E-04	5.75E-04	3.77E-04	5.33E-04	2.62E-04
3765	565139.9	4222505	0.003951	0.005225	1.87E-03	2.09E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.12E-04	4.01E-04	5.68E-04	2.79E-04
3766	565133.2	4222493	0.00419	0.005541	1.99E-03	2.22E-03	6.07E-03	1.99E-03	5.50E-04	1.08E-03	6.50E-04	4.26E-04	6.03E-04	2.96E-04
3767	565126.4	4222481	0.004418	0.005843	2.09E-03	2.34E-03	6.41E-03	2.09E-03	5.80E-04	1.14E-03	6.85E-04	4.49E-04	6.36E-04	3.12E-04
3768	565106.1	4222445	0.005003	0.006617	2.37E-03	2.65E-03	7.25E-03	2.37E-03	6.57E-04	1.29E-03	7.76E-04	5.08E-04	7.20E-04	3.54E-04
3769	565099.4	4222433	0.005158	0.006822	2.44E-03	2.73E-03	7.48E-03	2.44E-03	6.77E-04	1.33E-03	8.00E-04	5.24E-04	7.42E-04	3.65E-04
3770	565270.2	4222596	0.002188	0.002894	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.15E-04	1.55E-04
3771	565256.9	4222593	0.002267	0.002998	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.51E-04	2.30E-04	3.26E-04	1.60E-04
3772	565243.7	4222589	0.002342	0.003097	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
3773	565230.5	4222585	0.002411	0.003189	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.71E-04
3774	565217.2	4222581	0.002475	0.003273	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.39E-04	3.84E-04	2.52E-04	3.56E-04	1.75E-04
3775	565204	4222578	0.002533	0.003349	1.20E-03	1.34E-03	3.67E-03	1.20E-03	3.33E-04	6.54E-04	3.93E-04	2.57E-04	3.64E-04	1.79E-04
3776	565190.8	4222574	0.002582	0.003414	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.62E-04	3.71E-04	1.83E-04
3777	565177.5	4222570	0.002622	0.003467	1.24E-03	1.39E-03	3.80E-03	1.24E-03	3.44E-04	6.77E-04	4.06E-04	2.66E-04	3.77E-04	1.85E-04
3778	565154.1	4222548	0.002996	0.003963	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.74E-04	4.64E-04	3.04E-04	4.31E-04	2.12E-04
3779	565147.3	4222536	0.003228	0.004269	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.34E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
3780	565140.5	4222524	0.003456	0.004571	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.93E-04	5.36E-04	3.51E-04	4.97E-04	2.44E-04
3781	565133.8	4222512	0.003682	0.004869	1.74E-03	1.95E-03	5.34E-03	1.74E-03	4.84E-04	9.51E-04	5.71E-04	3.74E-04	5.30E-04	2.60E-04
3782	565127	4222501	0.003913	0.005175	1.85E-03	2.07E-03	5.67E-03	1.85E-03	5.14E-04	1.01E-03	6.07E-04	3.98E-04	5.63E-04	2.77E-04
3783	565106.6	4222465	0.004528	0.005989	2.15E-03	2.40E-03	6.57E-03	2.15E-03	5.95E-04	1.17E-03	7.02E-04	4.60E-04	6.51E-04	3.20E-04
3784	565099.8	4222453	0.004702	0.006219	2.23E-03	2.49E-03	6.82E-03	2.23E-03	6.18E-04	1.21E-03	7.29E-04	4.78E-04	6.76E-04	3.33E-04
3785	565093.1	4222441	0.004858	0.006424	2.30E-03	2.58E-03	7.04E-03	2.30E-03	6.38E-04	1.25E-03	7.53E-04	4.94E-04	6.99E-04	3.44E-04
3786	565086.3	4222429	0.004988	0.006597	2.36E-03	2.64E-03	7.23E-03	2.36E-03	6.55E-04	1.29E-03	7.73E-04	5.07E-04	7.18E-04	3.53E-04
3787	565271.1	4222606	0.001995	0.002639	9.45E-04	1.06E-03	2.89E-03	9.45E-04	2.62E-04	5.15E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
3788	565257.8	4222602	0.002067	0.002734	9.79E-04	1.10E-03	3.00E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
3789	565244.5	4222598	0.002138	0.002828	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.52E-04	3.31E-04	2.17E-04	3.08E-04	1.51E-04
3790	565231.3	4222595	0.002205	0.002916	1.04E-03	1.17E-03	3.20E-03	1.04E-03	2.90E-04	5.70E-04	3.42E-04	2.24E-04	3.17E-04	1.56E-04
3791	565218	4222591	0.002268	0.003	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.52E-04	2.31E-04	3.26E-04	1.60E-04
3792	565204.7	4222587	0.002327	0.003078	1.10E-03	1.23E-03	3.37E-03	1.10E-03	3.06E-04	6.01E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
3793	565191.4	4222583	0.002379	0.003147	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.12E-04	6.15E-04	3.69E-04	2.42E-04	3.42E-04	1.68E-04
3794	565178.1	4222580	0.002423	0.003205	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
3795	565164.9	4222576	0.002461	0.003254	1.17E-03	1.30E-03	3.57E-03	1.17E-03	3.23E-04	6.36E-04	3.81E-04	2.50E-04	3.54E-04	1.74E-04
3796	565154.8	4222568	0.002579	0.003411	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.66E-04	4.00E-04	2.62E-04	3.71E-04	1.82E-04
3797	565148	4222556	0.002794	0.003696	1.32E-03	1.48E-03	4.05E-03	1.32E-03	3.67E-04	7.22E-04	4.33E-04	2.84E-04	4.02E-04	1.98E-04
3798	565141.2	4222544	0.003014	0.003986	1.43E-03	1.60E-03	4.37E-03	1.43E-03	3.96E-04	7.79E-04	4.67E-04	3.06E-04	4.34E-04	2.13E-04
3799	565134.4	4222532	0.003229	0.004271	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.34E-04	5.01E-04	3.28E-04	4.65E-04	2.28E-04
3800	565127.6	4222520	0.003444	0.004554	1.63E-03	1.83E-03	4.99E-03	1.63E-03	4.52E-04	8.90E-04	5.34E-04	3.50E-04	4.95E-04	2.44E-04
3801	565107.2	4222484	0.00407	0.005383	1.93E-03	2.16E-03	5.90E-03	1.93E-03	5.35E-04	1.05E-03	6.31E-04	4.14E-04	5.85E-04	2.88E-04
3802	565100.4	4222472	0.004255	0.005627	2.02E-03	2.26E-03	6.17E-03	2.02E-03	5.59E-04	1.10E-03	6.60E-04	4.32E-04	6.12E-04	3.01E-04
3803	565093.5	4222460	0.004425	0.005852	2.10E-03	2.35E-03	6.41E-03	2.10E-03	5.81E-04	1.14E-03	6.86E-04	4.50E-04	6.36E-04	3.13E-04
3804	565086.7	4222448	0.004578	0.006054	2.17E-03	2.43E-03	6.64E-03	2.17E-03	6.01E-04	1.18E-03	7.10E-04	4.65E-04	6.59E-04	3.24E-04
3805	565079.9	4222436	0.00471	0.006229	2.23E-03	2.50E-03	6.83E-03	2.23E-03	6.19E-04	1.22E-03	7.30E-04	4.79E-04	6.78E-04	3.33E-04
3806	565272	4222616	0.001827	0.002416	8.65E-04	9.68E-04	2.65E-03	8.65E-04	2.40E-04	4.72E-04	2.83E-04	1.86E-04	2.63E-04	1.29E-04
3807	565258.7	4222612	0.001892	0.002502	8.96E-04	1.00E-03	2.74E-03	8.96E-04	2.48E-04	4.89E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
3808	565245.4	4222608	0.001958	0.002589	9.27E-04	1.04E-03	2.84E-03	9.27E-04	2.57E-04	5.06E-04	3.03E-04	1.99E-04	2.82E-04	1.38E-04
3809	565232.1	4222604	0.002021	0.002673	9.58E-04	1.07E-03	2.93E-03	9.58E-04	2.65E-04	5.22E-04	3.13E-04	2.05E-04	2.91E-04	1.43E-04
3810	565218.8	4222601	0.002083	0.002754	9.87E-04	1.10E-03	3.02E-03	9.87E-04	2.73E-04	5.38E-04	3.23E-04	2.12E-04	3.00E-04	1.47E-04
3811	565205.4	4222597	0.002142	0.002832	1.01E-03	1.14E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.18E-04	3.08E-04	1.51E-04
3812	565192.1	4222593	0.002195	0.002903	1.04E-03	1.16E-03	3.18E-03	1.04E-03	2.88E-04	5.67E-04	3.40E-04	2.23E-04	3.16E-04	1.55E-04
3813	565178.8	4222589	0.00224	0.002963	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
3814	565165.5	4222586	0.00228	0.003015	1.08E-03	1.21E-03	3.31E-03	1.08E-03	2.99E-04	5.89E-04	3.53E-04	2.32E-04	3.28E-04	1.61E-04
3815	565148.7	4222576	0.00241	0.003187	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.23E-04	3.74E-04	2.45E-04	3.47E-04	1.70E-04
3816	565135.1	4222552	0.002817	0.003726	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.70E-04	7.28E-04	4.37E-04	2.86E-04	4.05E-04	1.99E-04
3817	565128.2	4222540	0.003022	0.003997	1.43E-03	1.60E-03	4.38E-03	1.43E-03	3.97E-04	7.81E-04	4.69E-04	3.07E-04	4.35E-04	2.14E-04
3818	565107.8	4222504	0.003631	0.004803	1.72E-03	1.93E-03	5.26E-03	1.72E-03	4.77E-04	9.38E-04	5.63E-04	3.69E-04	5.22E-04	2.57E-04
3819	565100.9	4222491	0.003822	0.005054	1.81E-03	2.03E-03	5.54E-03	1.81E-03	5.02E-04	9.87E-04	5.92E-04	3.88E-04	5.50E-04	2.70E-04

3820	565094.1	4222479	0.004001	0.005292	1.90E-03	2.12E-03	5.80E-03	1.90E-03	5.25E-04	1.03E-03	6.20E-04	4.07E-04	5.76E-04	2.83E-04
3821	565087.3	4222467	0.004168	0.005512	1.97E-03	2.21E-03	6.04E-03	1.97E-03	5.47E-04	1.08E-03	6.46E-04	4.24E-04	5.99E-04	2.95E-04
3822	565080.4	4222455	0.004318	0.005711	2.05E-03	2.29E-03	6.26E-03	2.05E-03	5.67E-04	1.12E-03	6.69E-04	4.39E-04	6.21E-04	3.05E-04
3823	565073.6	4222443	0.004451	0.005886	2.11E-03	2.36E-03	6.45E-03	2.11E-03	5.85E-04	1.15E-03	6.90E-04	4.52E-04	6.40E-04	3.15E-04
3824	565066.8	4222431	0.004564	0.006036	2.16E-03	2.42E-03	6.62E-03	2.16E-03	5.99E-04	1.18E-03	7.08E-04	4.64E-04	6.57E-04	3.23E-04
3825	565286.4	4222629	0.001623	0.002147	7.69E-04	8.61E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.33E-04	1.15E-04
3826	565273	4222625	0.00168	0.002221	7.96E-04	8.90E-04	2.43E-03	7.96E-04	2.21E-04	4.34E-04	2.60E-04	1.71E-04	2.42E-04	1.19E-04
3827	565259.6	4222622	0.001738	0.002299	8.24E-04	9.22E-04	2.52E-03	8.24E-04	2.28E-04	4.49E-04	2.69E-04	1.77E-04	2.50E-04	1.23E-04
3828	565246.3	4222618	0.001799	0.002379	8.52E-04	9.54E-04	2.61E-03	8.52E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
3829	565232.9	4222614	0.001859	0.002458	8.81E-04	9.85E-04	2.69E-03	8.81E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
3830	565219.6	4222610	0.001917	0.002535	9.08E-04	1.02E-03	2.78E-03	9.08E-04	2.52E-04	4.95E-04	2.97E-04	1.95E-04	2.76E-04	1.36E-04
3831	565206.2	4222607	0.001974	0.00261	9.35E-04	1.05E-03	2.86E-03	9.35E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
3832	565192.8	4222603	0.002027	0.00268	9.60E-04	1.07E-03	2.94E-03	9.60E-04	2.66E-04	5.24E-04	3.14E-04	2.06E-04	2.92E-04	1.43E-04
3833	565179.5	4222599	0.002072	0.002741	9.82E-04	1.10E-03	3.00E-03	9.82E-04	2.72E-04	5.35E-04	3.21E-04	2.11E-04	2.98E-04	1.47E-04
3834	565166.1	4222595	0.002114	0.002795	1.00E-03	1.12E-03	3.06E-03	1.00E-03	2.78E-04	5.46E-04	3.28E-04	2.15E-04	3.04E-04	1.49E-04
3835	565152.8	4222591	0.002151	0.002845	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.83E-04	5.56E-04	3.33E-04	2.19E-04	3.09E-04	1.52E-04
3836	565142.6	4222583	0.002258	0.002986	1.07E-03	1.20E-03	3.27E-03	1.07E-03	2.96E-04	5.83E-04	3.50E-04	2.29E-04	3.25E-04	1.60E-04
3837	565135.8	4222571	0.002442	0.00323	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.79E-04	2.48E-04	3.51E-04	1.73E-04
3838	565101.6	4222511	0.00341	0.00451	1.62E-03	1.81E-03	4.94E-03	1.62E-03	4.48E-04	8.81E-04	5.29E-04	3.47E-04	4.91E-04	2.41E-04
3839	565094.7	4222499	0.003591	0.00475	1.70E-03	1.90E-03	5.21E-03	1.70E-03	4.72E-04	9.28E-04	5.57E-04	3.65E-04	5.17E-04	2.54E-04
3840	565087.9	4222487	0.003766	0.00498	1.78E-03	2.00E-03	5.46E-03	1.78E-03	4.95E-04	9.73E-04	5.84E-04	3.83E-04	5.42E-04	2.66E-04
3841	565081	4222475	0.003928	0.005195	1.86E-03	2.08E-03	5.69E-03	1.86E-03	5.16E-04	1.01E-03	6.09E-04	3.99E-04	5.65E-04	2.78E-04
3842	565074.2	4222463	0.004077	0.005391	1.93E-03	2.16E-03	5.91E-03	1.93E-03	5.35E-04	1.05E-03	6.32E-04	4.14E-04	5.86E-04	2.88E-04
3843	565067.3	4222451	0.00421	0.005567	1.99E-03	2.23E-03	6.10E-03	1.99E-03	5.53E-04	1.09E-03	6.53E-04	4.28E-04	6.06E-04	2.98E-04
3844	565060.5	4222439	0.004325	0.00572	2.05E-03	2.29E-03	6.27E-03	2.05E-03	5.68E-04	1.12E-03	6.70E-04	4.40E-04	6.22E-04	3.06E-04
3845	565287.3	4222639	0.001501	0.001985	7.11E-04	7.96E-04	2.18E-03	7.11E-04	1.97E-04	3.88E-04	2.33E-04	1.53E-04	2.16E-04	1.06E-04
3846	565274	4222635	0.00155	0.00205	7.35E-04	8.22E-04	2.25E-03	7.35E-04	2.04E-04	4.01E-04	2.40E-04	1.58E-04	2.23E-04	1.10E-04
3847	565260.6	4222631	0.001603	0.00212	7.59E-04	8.50E-04	2.32E-03	7.59E-04	2.11E-04	4.14E-04	2.48E-04	1.63E-04	2.31E-04	1.13E-04
3848	565247.2	4222628	0.001658	0.002193	7.85E-04	8.79E-04	2.40E-03	7.85E-04	2.18E-04	4.28E-04	2.57E-04	1.68E-04	2.38E-04	1.17E-04
3849	565233.8	4222624	0.001714	0.002267	8.12E-04	9.09E-04	2.49E-03	8.12E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
3850	565220.4	4222620	0.001769	0.00234	8.38E-04	9.38E-04	2.57E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.55E-04	1.25E-04
3851	565207	4222616	0.001823	0.002411	8.64E-04	9.66E-04	2.64E-03	8.64E-04	2.39E-04	4.71E-04	2.83E-04	1.85E-04	2.62E-04	1.29E-04
3852	565193.6	4222612	0.001874	0.002478	8.88E-04	9.94E-04	2.72E-03	8.88E-04	2.46E-04	4.84E-04	2.91E-04	1.90E-04	2.70E-04	1.33E-04
3853	565180.2	4222609	0.00192	0.002539	9.09E-04	1.02E-03	2.78E-03	9.09E-04	2.52E-04	4.96E-04	2.98E-04	1.95E-04	2.76E-04	1.36E-04
3854	565166.8	4222605	0.00196	0.002593	9.29E-04	1.04E-03	2.84E-03	9.29E-04	2.57E-04	5.06E-04	3.04E-04	1.99E-04	2.82E-04	1.39E-04
3855	565153.4	4222601	0.002001	0.002647	9.48E-04	1.06E-03	2.90E-03	9.48E-04	2.63E-04	5.17E-04	3.10E-04	2.03E-04	2.88E-04	1.42E-04
3856	565136.6	4222591	0.00212	0.002804	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.48E-04	3.29E-04	2.15E-04	3.05E-04	1.50E-04
3857	565129.7	4222579	0.002291	0.00303	1.09E-03	1.21E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
3858	565102.2	4222531	0.003022	0.003997	1.43E-03	1.60E-03	4.38E-03	1.43E-03	3.97E-04	7.81E-04	4.69E-04	3.07E-04	4.35E-04	2.14E-04
3859	565095.4	4222519	0.003203	0.004236	1.52E-03	1.70E-03	4.64E-03	1.52E-03	4.21E-04	8.28E-04	4.97E-04	3.26E-04	4.61E-04	2.27E-04
3860	565088.5	4222506	0.003377	0.004467	1.60E-03	1.79E-03	4.90E-03	1.60E-03	4.44E-04	8.73E-04	5.24E-04	3.43E-04	4.86E-04	2.39E-04
3861	565081.6	4222494	0.003546	0.004689	1.68E-03	1.88E-03	5.14E-03	1.68E-03	4.66E-04	9.16E-04	5.50E-04	3.60E-04	5.10E-04	2.51E-04
3862	565074.8	4222482	0.003705	0.0049	1.76E-03	1.96E-03	5.37E-03	1.76E-03	4.87E-04	9.57E-04	5.74E-04	3.77E-04	5.33E-04	2.62E-04
3863	565067.9	4222470	0.003851	0.005093	1.82E-03	2.04E-03	5.58E-03	1.82E-03	5.06E-04	9.95E-04	5.97E-04	3.91E-04	5.54E-04	2.72E-04
3864	565061	4222458	0.003983	0.005268	1.89E-03	2.11E-03	5.77E-03	1.89E-03	5.23E-04	1.03E-03	6.17E-04	4.05E-04	5.73E-04	2.82E-04
3865	565054.2	4222446	0.0041	0.005422	1.94E-03	2.17E-03	5.94E-03	1.94E-03	5.38E-04	1.06E-03	6.36E-04	4.17E-04	5.90E-04	2.90E-04
3866	565047.3	4222434	0.004199	0.005553	1.99E-03	2.23E-03	6.09E-03	1.99E-03	5.51E-04	1.08E-03	6.51E-04	4.27E-04	6.04E-04	2.97E-04
3867	565288.4	4222649	0.001393	0.001842	6.60E-04	7.39E-04	2.02E-03	6.60E-04	1.83E-04	3.60E-04	2.16E-04	1.42E-04	2.00E-04	9.85E-05
3868	565274.9	4222645	0.001437	0.0019	6.81E-04	7.62E-04	2.08E-03	6.81E-04	1.89E-04	3.71E-04	2.23E-04	1.46E-04	2.07E-04	1.02E-04
3869	565261.5	4222641	0.001483	0.001962	7.03E-04	7.86E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.13E-04	1.05E-04
3870	565234.6	4222633	0.001585	0.002096	7.51E-04	8.40E-04	2.30E-03	7.51E-04	2.08E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
3871	565221.2	4222630	0.001637	0.002165	7.75E-04	8.68E-04	2.37E-03	7.75E-04	2.15E-04	4.23E-04	2.54E-04	1.66E-04	2.35E-04	1.16E-04
3872	565207.8	4222626	0.001687	0.002231	7.99E-04	8.94E-04	2.45E-03	7.99E-04	2.22E-04	4.36E-04	2.61E-04	1.71E-04	2.43E-04	1.19E-04
3873	565194.4	4222622	0.001735	0.002295	8.22E-04	9.20E-04	2.52E-03	8.22E-04	2.28E-04	4.48E-04	2.69E-04	1.76E-04	2.50E-04	1.23E-04
3874	565180.9	4222618	0.001781	0.002356	8.44E-04	9.44E-04	2.58E-03	8.44E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
3875	565167.5	4222615	0.001823	0.002411	8.64E-04	9.66E-04	2.64E-03	8.64E-04	2.39E-04	4.71E-04	2.83E-04	1.85E-04	2.62E-04	1.29E-04
3876	565154.1	4222611	0.001863	0.002464	8.83E-04	9.88E-04	2.70E-03	8.83E-04	2.45E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
3877	565140.6	4222607	0.001901	0.002515	9.01E-04	1.01E-03	2.76E-03	9.01E-04	2.50E-04	4.91E-04	2.95E-04	1.93E-04	2.74E-04	1.34E-04
3878	565130.5	4222599	0.001996	0.00264	9.46E-04	1.06E-03	2.89E-03	9.46E-04	2.62E-04	5.16E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
3879	565123.6	4222587	0.002156	0.002851	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.52E-04
3880	565116.7	4222575	0.002321	0.00307	1.10E-03	1.23E-03	3.36E-03	1.10E-03	3.05E-04	6.00E-04	3.60E-04	2.36E-04	3.34E-04	1.64E-04
3881	565102.9	4222550	0.002665	0.003525	1.26E-03	1.41E-03	3.86E-03	1.26E-03	3.50E-04	6.89E-04	4.13E-04	2.71E-04	3.83E-04	1.88E-04
3882	565096.1	4222538	0.00284	0.003756	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.34E-04	4.40E-04	2.89E-04	4.09E-04	2.01E-04
3883	565089.2	4222526	0.003012	0.003983	1.43E-03	1.60E-03	4.37E-03	1.43E-03	3.96E-04	7.78E-04	4.67E-04	3.06E-04	4.33E-04	2.13E-04
3884	565082.3	4222514	0.003178	0.004203	1.51E-03	1.69E-03	4.61E-03	1.51E-03	4.17E-04	8.21E-04	4.93E-04	3.23E-04	4.57E-04	2.25E-04
3885	565075.4	4222502	0.003341	0.004418	1.58E-03	1.77E-03	4.84E-03	1.58E-03	4.39E-04	8.63E-04	5.18E-04	3.39E-04	4.81E-04	2.36E-04
3886	565068.5	4222490	0.003497	0.004625	1.66E-03	1.85E-03	5.07E-03	1.66E-03	4.59E-04	9.03E-04	5.42E-04	3.55E-04	5.03E-04	2.47E-04
3887	565061.7	4222478	0.003641	0.004815	1.72E-03	1.93E-03	5.28E-03	1.72E-03	4.78E-04	9.41E-04	5.64E-04	3.70E-04	5.24E-04	2.57E-04
3888	565054.8	4222465	0.003771	0.004987	1.79E-03	2.00E-03	5.47E-03	1.79E-03	4.95E-04	9.74E-04	5.85E-04	3.83E-04	5.42E-04	2.67E-04
3889	565047.9	4222453	0.003887	0.005141	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.00E-03	6.03E-04	3.95E-04	5.59E-04	2.75E-04
3890	565041	4222441	0.003988	0.005274	1.89E-03	2.11E-03	5.78E-03	1.89E-03	5.24E-04	1.03E-03	6.18E-04	4.05E-04	5.74E-04	2.82E-04
3891	565289.4	4222658	0.001298	0.001716	6.15E-04	6.88E-04	1.88E-03	6.15E-04	1.70E-04	3.35E-04	2.01E-04	1.32E-04	1.87E-04	9.18E-05
3892	565275.9	4222655	0.001336	0.001767	6.33E-04	7.08E-04	1.94E-03	6.33E-04	1.75E-04	3.45E-04	2.07E-04	1.36E-04	1.92E-04	9.45E-05
3893	565262.4	4222651	0.001378	0.001822	6.53E-04	7.30E-04	2.00E-03	6.53E-04	1.81E-04	3.56E-04	2.14E-04	1.40E-04	1.98E-04	9.74E-05
3894	565235.5	4222643	0.00147	0.001943	6.96E-04	7.79E-04	2.13E-03	6.96E-04	1.93E-04	3.80E-04	2.28E-04	1.49E-04	2.11E-04	1.04E-04
3895	565222.1	4222639	0.001518	0.002007	7.19E-04	8.05E-04	2.20E-03	7.19E-04	1.99E-04	3.92E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
3896	565208.6	4222636	0.001564	0.002069	7.41E-04	8.29E-04	2.27E-03	7.41E-04	2.05E-04	4.04E-04	2.43E-04	1.59E-04	2.25E-04	1.11E-04
3897	565195.1	4222632	0.00161	0.002129	7.63E-04	8.54E-04	2.33E-03	7.63E-04	2.11E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
3898	565181.7	4222628	0.001655	0.002189	7.84E-04	8.77E-04	2.40E-03	7.84E-04	2.17E-04	4.28E-04	2.57E-04	1.68E-04	2.38E-04	1.17E-04
3899	565168.2	4222624	0.001697	0.002245	8.04E-04	9.00E-04	2.46E-03	8.04E-04	2.23E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
3900	565154.8	4222620	0.001737	0.002297	8.23E-04	9.21E-04	2.52E-03	8.23E-04	2.28E-04	4.49E-04	2.69E-04	1.77E-04	2.50E-04	1.23E-04
3901	565141.3	4222617	0.001775	0.002348	8.41E-04	9.41E-04	2.57E-03	8.41E-04	2.33E-04	4.59E-04	2.75E-04	1.80E-04	2.55E-04	1.26E-04
3902	565124.4	4222607	0.001882	0.002489	8.92E-04	9.98E-04	2.73E-03	8.92E-04	2.47E-04	4.86E-04	2.92E-04	1.91E-04	2.71E-04	1.33E-04
3903	565117.5	4222595	0.002032	0.002687	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
3904	565110.6	4222582	0.002186	0.002891	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.14E-04	1.55E-04
3905	565103.7	4222570	0.002346	0.003103	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.06E-04	3.64E-04	2.38E-04	3.37E-04	1.66E-04
3906	565089.9	4222546	0.002673	0.003535	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.51E-04	6.91E-04	4.14E-04	2.72E-04	3.85E-04	1.89E-04
3907	565083	4222534	0.002836	0.003751	1.34E-03	1.50E-03	4.11E-03	1.34E-03	3.73E-04	7.33E-04	4.40E-04	2.88E-04	4.08E-04	2.01E-04
3908	565076.1	4222522	0.002995	0.003961	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.74E-04	4.64E-04	3.04E-04	4.31E-04	2.12E-04
3909	565069.2	4222509	0.00315	0.004166	1.49E-03	1.67E-03	4.57E-03	1.49E-03	4.14E-04	8.14E-04	4.88E-04	3.20E-04	4.53E-04	2.23E-04
3910	565062.3	4222497	0.003302	0.004367	1.56E-03	1.75E-03	4.79E-03	1.56E-03	4.34E-04	8.53E-04	5.12E-04	3.36E-04	4.75E-04	2.33E-04

3911	565055.4	4222485	0.003444	0.004554	1.63E-03	1.83E-03	4.99E-03	1.63E-03	4.52E-04	8.90E-04	5.34E-04	3.50E-04	4.95E-04	2.44E-04
3912	565048.5	4222473	0.003572	0.004724	1.69E-03	1.89E-03	5.18E-03	1.69E-03	4.69E-04	9.23E-04	5.54E-04	3.63E-04	5.14E-04	2.53E-04
3913	565041.6	4222461	0.003687	0.004876	1.75E-03	1.95E-03	5.35E-03	1.75E-03	4.84E-04	9.53E-04	5.72E-04	3.75E-04	5.30E-04	2.61E-04
3914	565034.7	4222448	0.003787	0.005008	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.78E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
3915	565027.8	4222436	0.003872	0.005121	1.83E-03	2.05E-03	5.61E-03	1.83E-03	5.08E-04	1.00E-03	6.00E-04	3.93E-04	5.57E-04	2.74E-04
3916	565290.4	4222668	0.001213	0.001604	5.75E-04	6.43E-04	1.76E-03	5.75E-04	1.59E-04	3.13E-04	1.88E-04	1.23E-04	1.74E-04	8.58E-05
3917	565276.9	4222664	0.001247	0.001649	5.91E-04	6.61E-04	1.81E-03	5.91E-04	1.64E-04	3.22E-04	1.93E-04	1.27E-04	1.79E-04	8.82E-05
3918	565263.4	4222661	0.001284	0.001697	6.08E-04	6.81E-04	1.86E-03	6.08E-04	1.69E-04	3.32E-04	1.99E-04	1.30E-04	1.85E-04	9.08E-05
3919	565249.9	4222657	0.001323	0.00175	6.27E-04	7.02E-04	1.92E-03	6.27E-04	1.74E-04	3.42E-04	2.05E-04	1.34E-04	1.90E-04	9.36E-05
3920	565222.9	4222649	0.00141	0.001865	6.68E-04	7.48E-04	2.04E-03	6.68E-04	1.85E-04	3.64E-04	2.19E-04	1.43E-04	2.03E-04	9.97E-05
3921	565209.5	4222645	0.001454	0.001922	6.89E-04	7.71E-04	2.11E-03	6.89E-04	1.91E-04	3.76E-04	2.25E-04	1.48E-04	2.09E-04	1.03E-04
3922	565196	4222641	0.001497	0.001979	7.09E-04	7.93E-04	2.17E-03	7.09E-04	1.97E-04	3.87E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
3923	565182.5	4222638	0.00154	0.002037	7.30E-04	8.16E-04	2.23E-03	7.30E-04	2.02E-04	3.98E-04	2.39E-04	1.56E-04	2.22E-04	1.09E-04
3924	565169	4222634	0.001582	0.002092	7.49E-04	8.39E-04	2.29E-03	7.49E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
3925	565155.5	4222630	0.001621	0.002144	7.68E-04	8.59E-04	2.35E-03	7.68E-04	2.13E-04	4.19E-04	2.51E-04	1.65E-04	2.33E-04	1.15E-04
3926	565142	4222626	0.001658	0.002193	7.86E-04	8.79E-04	2.40E-03	7.86E-04	2.18E-04	4.28E-04	2.57E-04	1.69E-04	2.39E-04	1.17E-04
3927	565128.5	4222622	0.001693	0.002239	8.02E-04	8.98E-04	2.45E-03	8.02E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.44E-04	1.20E-04
3928	565118.3	4222614	0.001777	0.00235	8.42E-04	9.42E-04	2.58E-03	8.42E-04	2.33E-04	4.59E-04	2.75E-04	1.81E-04	2.56E-04	1.26E-04
3929	565111.4	4222602	0.001918	0.002536	9.09E-04	1.02E-03	2.78E-03	9.09E-04	2.52E-04	4.95E-04	2.97E-04	1.95E-04	2.76E-04	1.36E-04
3930	565104.5	4222590	0.002063	0.002728	9.77E-04	1.09E-03	2.99E-03	9.77E-04	2.71E-04	5.33E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
3931	565097.6	4222578	0.002213	0.002927	1.05E-03	1.17E-03	3.21E-03	1.05E-03	2.91E-04	5.72E-04	3.43E-04	2.25E-04	3.18E-04	1.57E-04
3932	565083.8	4222553	0.002522	0.003336	1.19E-03	1.34E-03	3.66E-03	1.19E-03	3.31E-04	6.52E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
3933	565076.8	4222541	0.002675	0.003538	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.51E-04	6.91E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
3934	565069.9	4222529	0.002827	0.003738	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.71E-04	7.30E-04	4.38E-04	2.87E-04	4.07E-04	2.00E-04
3935	565063	4222517	0.002974	0.003934	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.91E-04	7.68E-04	4.61E-04	3.02E-04	4.28E-04	2.10E-04
3936	565056.1	4222505	0.00312	0.004126	1.48E-03	1.65E-03	4.52E-03	1.48E-03	4.10E-04	8.06E-04	4.84E-04	3.17E-04	4.49E-04	2.21E-04
3937	565049.2	4222492	0.003258	0.004309	1.54E-03	1.73E-03	4.72E-03	1.54E-03	4.28E-04	8.42E-04	5.05E-04	3.31E-04	4.69E-04	2.30E-04
3938	565042.3	4222480	0.003385	0.004477	1.60E-03	1.79E-03	4.91E-03	1.60E-03	4.45E-04	8.74E-04	5.25E-04	3.44E-04	4.87E-04	2.39E-04
3939	565291.4	4222678	0.001137	0.001504	5.39E-04	6.03E-04	1.65E-03	5.39E-04	1.49E-04	2.94E-04	1.76E-04	1.16E-04	1.64E-04	8.04E-05
3940	565277.9	4222674	0.001167	0.001543	5.53E-04	6.19E-04	1.69E-03	5.53E-04	1.53E-04	3.01E-04	1.81E-04	1.19E-04	1.68E-04	8.25E-05
3941	565264.4	4222670	0.0012	0.001587	5.68E-04	6.36E-04	1.74E-03	5.68E-04	1.58E-04	3.10E-04	1.86E-04	1.22E-04	1.73E-04	8.48E-05
3942	565250.9	4222666	0.001235	0.001633	5.85E-04	6.55E-04	1.79E-03	5.85E-04	1.62E-04	3.19E-04	1.91E-04	1.26E-04	1.78E-04	8.73E-05
3943	565142.7	4222636	0.00155	0.00205	7.34E-04	8.22E-04	2.25E-03	7.34E-04	2.04E-04	4.01E-04	2.40E-04	1.58E-04	2.23E-04	1.10E-04
3944	565129.2	4222632	0.001585	0.002096	7.51E-04	8.40E-04	2.30E-03	7.51E-04	2.08E-04	4.09E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
3945	565112.2	4222622	0.001681	0.002223	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
3946	565105.3	4222610	0.001813	0.002397	8.59E-04	9.61E-04	2.63E-03	8.59E-04	2.38E-04	4.68E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
3947	565098.4	4222598	0.00195	0.002578	9.24E-04	1.03E-03	2.83E-03	9.24E-04	2.56E-04	5.04E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
3948	565091.5	4222585	0.002092	0.002766	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
3949	565084.5	4222573	0.002237	0.002959	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
3950	565070.7	4222549	0.002527	0.003343	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.32E-04	6.53E-04	3.92E-04	2.57E-04	3.64E-04	1.79E-04
3951	565063.7	4222537	0.002672	0.003533	1.27E-03	1.42E-03	3.87E-03	1.27E-03	3.51E-04	6.90E-04	4.14E-04	2.72E-04	3.84E-04	1.89E-04
3952	565056.8	4222524	0.002813	0.00372	1.33E-03	1.49E-03	4.08E-03	1.33E-03	3.69E-04	7.27E-04	4.36E-04	2.86E-04	4.05E-04	1.99E-04
3953	565049.9	4222512	0.002951	0.003903	1.40E-03	1.56E-03	4.28E-03	1.40E-03	3.88E-04	7.62E-04	4.57E-04	3.00E-04	4.24E-04	2.09E-04
3954	565293.5	4222698	0.001006	0.001331	4.77E-04	5.34E-04	1.46E-03	4.77E-04	1.32E-04	2.60E-04	1.56E-04	1.02E-04	1.45E-04	7.12E-05
3955	565279.9	4222694	0.00103	0.001362	4.88E-04	5.46E-04	1.49E-03	4.88E-04	1.35E-04	2.66E-04	1.60E-04	1.05E-04	1.48E-04	7.28E-05
3956	565266.3	4222690	0.001055	0.001396	5.00E-04	5.59E-04	1.53E-03	5.00E-04	1.39E-04	2.73E-04	1.64E-04	1.07E-04	1.52E-04	7.46E-05
3957	565252.7	4222686	0.001083	0.001433	5.13E-04	5.74E-04	1.57E-03	5.13E-04	1.42E-04	2.80E-04	1.68E-04	1.10E-04	1.56E-04	7.66E-05
3958	565225.6	4222679	0.001147	0.001517	5.43E-04	6.08E-04	1.66E-03	5.43E-04	1.51E-04	2.96E-04	1.78E-04	1.17E-04	1.65E-04	8.11E-05
3959	565212	4222675	0.001181	0.001562	5.59E-04	6.26E-04	1.71E-03	5.59E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.35E-05
3960	565198.4	4222671	0.001215	0.001607	5.76E-04	6.44E-04	1.76E-03	5.76E-04	1.60E-04	3.14E-04	1.88E-04	1.23E-04	1.75E-04	8.59E-05
3961	565184.8	4222667	0.00125	0.001653	5.92E-04	6.63E-04	1.81E-03	5.92E-04	1.64E-04	3.23E-04	1.94E-04	1.27E-04	1.80E-04	8.84E-05
3962	565171.3	4222663	0.001286	0.001701	6.09E-04	6.82E-04	1.86E-03	6.09E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.10E-05
3963	565157.7	4222659	0.001322	0.001748	6.26E-04	7.01E-04	1.92E-03	6.26E-04	1.74E-04	3.42E-04	2.05E-04	1.34E-04	1.90E-04	9.35E-05
3964	565144.1	4222655	0.001357	0.001795	6.43E-04	7.20E-04	1.97E-03	6.43E-04	1.78E-04	3.51E-04	2.10E-04	1.38E-04	1.95E-04	9.60E-05
3965	565130.5	4222652	0.001391	0.001839	6.59E-04	7.37E-04	2.02E-03	6.59E-04	1.83E-04	3.59E-04	2.16E-04	1.41E-04	2.00E-04	9.84E-05
3966	565099.9	4222638	0.001508	0.001994	7.14E-04	8.00E-04	2.19E-03	7.14E-04	1.98E-04	3.90E-04	2.34E-04	1.53E-04	2.17E-04	1.07E-04
3967	565092.9	4222626	0.001624	0.002147	7.69E-04	8.61E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
3968	565086	4222613	0.001745	0.002307	8.26E-04	9.25E-04	2.53E-03	8.26E-04	2.29E-04	4.51E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
3969	565079	4222601	0.00187	0.002473	8.86E-04	9.92E-04	2.71E-03	8.86E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
3970	565072	4222589	0.002	0.002646	9.48E-04	1.06E-03	2.90E-03	9.48E-04	2.63E-04	5.17E-04	3.10E-04	2.03E-04	2.88E-04	1.41E-04
3971	565065.1	4222576	0.002132	0.00282	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.51E-04	3.31E-04	2.17E-04	3.07E-04	1.51E-04
3972	565051.2	4222552	0.002392	0.003163	1.13E-03	1.27E-03	3.47E-03	1.13E-03	3.14E-04	6.18E-04	3.71E-04	2.43E-04	3.44E-04	1.69E-04
3973	565030.3	4222515	0.002767	0.00366	1.31E-03	1.47E-03	4.01E-03	1.31E-03	3.63E-04	7.15E-04	4.29E-04	2.81E-04	3.98E-04	1.96E-04
3974	565023.3	4222503	0.002884	0.003814	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.45E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
3975	565016.4	4222491	0.002992	0.003956	1.42E-03	1.59E-03	4.34E-03	1.42E-03	3.93E-04	7.73E-04	4.64E-04	3.04E-04	4.30E-04	2.12E-04
3976	565009.4	4222478	0.003091	0.004087	1.46E-03	1.64E-03	4.48E-03	1.46E-03	4.06E-04	7.98E-04	4.79E-04	3.14E-04	4.45E-04	2.19E-04
3977	565002.4	4222466	0.003181	0.004206	1.51E-03	1.69E-03	4.61E-03	1.51E-03	4.18E-04	8.22E-04	4.93E-04	3.23E-04	4.58E-04	2.25E-04
3978	565295.5	4222718	0.000899	0.001189	4.26E-04	4.77E-04	1.30E-03	4.26E-04	1.18E-04	2.32E-04	1.39E-04	9.14E-05	1.29E-04	6.36E-05
3979	565281.9	4222714	0.000917	0.001213	4.34E-04	4.86E-04	1.33E-03	4.34E-04	1.20E-04	2.37E-04	1.42E-04	9.32E-05	1.32E-04	6.48E-05
3980	565268.3	4222710	0.000938	0.00124	4.44E-04	4.97E-04	1.36E-03	4.44E-04	1.23E-04	2.42E-04	1.45E-04	9.53E-05	1.35E-04	6.63E-05
3981	565241	4222702	0.000985	0.001303	4.67E-04	5.22E-04	1.43E-03	4.67E-04	1.29E-04	2.55E-04	1.53E-04	1.00E-04	1.42E-04	6.97E-05
3982	565227.4	4222698	0.001012	0.001338	4.79E-04	5.37E-04	1.47E-03	4.79E-04	1.33E-04	2.61E-04	1.57E-04	1.03E-04	1.46E-04	7.16E-05
3983	565213.7	4222694	0.00104	0.001376	4.93E-04	5.52E-04	1.51E-03	4.93E-04	1.37E-04	2.69E-04	1.61E-04	1.06E-04	1.50E-04	7.36E-05
3984	565200.1	4222691	0.00107	0.001415	5.07E-04	5.67E-04	1.55E-03	5.07E-04	1.40E-04	2.76E-04	1.66E-04	1.09E-04	1.54E-04	7.56E-05
3985	565186.5	4222687	0.0011	0.001455	5.21E-04	5.83E-04	1.59E-03	5.21E-04	1.44E-04	2.84E-04	1.70E-04	1.12E-04	1.58E-04	7.78E-05
3986	565172.8	4222683	0.001131	0.001495	5.36E-04	6.00E-04	1.64E-03	5.36E-04	1.49E-04	2.92E-04	1.75E-04	1.15E-04	1.63E-04	8.00E-05
3987	565159.2	4222679	0.001162	0.001537	5.51E-04	6.16E-04	1.68E-03	5.51E-04	1.53E-04	3.00E-04	1.80E-04	1.18E-04	1.67E-04	8.22E-05
3988	565145.6	4222675	0.001194	0.001579	5.66E-04	6.33E-04	1.73E-03	5.66E-04	1.57E-04	3.08E-04	1.85E-04	1.21E-04	1.72E-04	8.44E-05
3989	565131.9	4222671	0.001225	0.00162	5.80E-04	6.50E-04	1.78E-03	5.80E-04	1.61E-04	3.17E-04	1.90E-04	1.25E-04	1.76E-04	8.66E-05
3990	565118.3	4222667	0.001255	0.001659	5.94E-04	6.65E-04	1.82E-03	5.94E-04	1.65E-04	3.24E-04	1.95E-04	1.28E-04	1.80E-04	8.87E-05
3991	565104.6	4222664	0.001283	0.001697	6.08E-04	6.80E-04	1.86E-03	6.08E-04	1.69E-04	3.31E-04	1.99E-04	1.30E-04	1.85E-04	9.07E-05
3992	565087.5	4222654	0.001359	0.001797	6.44E-04	7.21E-04	1.97E-03	6.44E-04	1.78E-04	3.51E-04	2.11E-04	1.38E-04	1.95E-04	9.61E-05
3993	565073.5	4222629	0.001569	0.002075	7.43E-04	8.32E-04	2.27E-03	7.43E-04	2.06E-04	4.05E-04	2.43E-04	1.59E-04	2.26E-04	1.11E-04
3994	565066.6	4222617	0.001681	0.002223	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
3995	565059.6	4222604	0.001797	0.002376	8.51E-04	9.53E-04	2.61E-03	8.51E-04	2.36E-04	4.64E-04	2.79E-04	1.83E-04	2.58E-04	1.27E-04
3996	565052.6	4222592	0.001915	0.002533	9.07E-04	1.02E-03	2.78E-03	9.07E-04	2.52E-04	4.95E-04	2.97E-04	1.95E-04	2.75E-04	1.35E-04
3997	565031.6	4222555	0.002269	0.003001	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.86E-04	3.52E-04	2.31E-04	3.26E-04	1.60E-04
3998	565024.6	4222543	0.002385	0.003155	1.13E-03	1.26E-03	3.46E-03	1.13E-03	3.13E-04	6.16E-04	3.70E-04	2.42E-04	3.43E-04	1.69E-04
3999	565017.6	4222530	0.002497	0.003302	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.45E-04	3.87E-04	2.54E-04	3.59E-04	1.77E-04
4000	565010.6	4222518	0.002603	0.003443	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.42E-04	6.72E-04	4.04E-04	2.65E-04	3.74E-04	1.84E-04
4001	565003.6	4222506	0.002705	0.003578	1.28E-03	1.43E-03	3.92E-03	1.28E-03	3.55E-04	6.99E-04	4.19E-04	2.75E-04	3.89E-04	1.91E-04

4002	564996.7	4222493	0.002801	0.003705	1.33E-03	1.49E-03	4.06E-03	1.33E-03	3.68E-04	7.24E-04	4.34E-04	2.85E-04	4.03E-04	1.98E-04
4003	564989.7	4222481	0.00289	0.003821	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.79E-04	7.46E-04	4.48E-04	2.94E-04	4.16E-04	2.04E-04
4004	564968.7	4222444	0.003096	0.004095	1.47E-03	1.64E-03	4.49E-03	1.47E-03	4.07E-04	8.00E-04	4.80E-04	3.15E-04	4.45E-04	2.19E-04
4005	565298.8	4222738	0.000809	0.00107	3.83E-04	4.29E-04	1.17E-03	3.83E-04	1.06E-04	2.09E-04	1.25E-04	8.22E-05	1.16E-04	5.72E-05
4006	565285.5	4222734	0.000822	0.001088	3.90E-04	4.36E-04	1.19E-03	3.90E-04	1.08E-04	2.12E-04	1.27E-04	8.36E-05	1.18E-04	5.82E-05
4007	565272.2	4222730	0.000838	0.001109	3.97E-04	4.44E-04	1.22E-03	3.97E-04	1.10E-04	2.17E-04	1.30E-04	8.52E-05	1.21E-04	5.93E-05
4008	565245.5	4222723	0.000876	0.001158	4.15E-04	4.64E-04	1.27E-03	4.15E-04	1.15E-04	2.26E-04	1.36E-04	8.90E-05	1.26E-04	6.19E-05
4009	565232.1	4222719	0.000897	0.001186	4.25E-04	4.75E-04	1.30E-03	4.25E-04	1.18E-04	2.32E-04	1.39E-04	9.11E-05	1.29E-04	6.34E-05
4010	565218.8	4222715	0.000919	0.001215	4.35E-04	4.87E-04	1.33E-03	4.35E-04	1.21E-04	2.37E-04	1.42E-04	9.34E-05	1.32E-04	6.50E-05
4011	565205.4	4222711	0.000942	0.001246	4.46E-04	5.00E-04	1.37E-03	4.46E-04	1.24E-04	2.43E-04	1.46E-04	9.58E-05	1.36E-04	6.67E-05
4012	565192.1	4222708	0.000967	0.001279	4.58E-04	5.13E-04	1.40E-03	4.58E-04	1.27E-04	2.50E-04	1.50E-04	9.83E-05	1.39E-04	6.84E-05
4013	565178.7	4222704	0.000993	0.001313	4.70E-04	5.26E-04	1.44E-03	4.70E-04	1.30E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.02E-05
4014	565165.4	4222700	0.001019	0.001348	4.83E-04	5.40E-04	1.48E-03	4.83E-04	1.34E-04	2.63E-04	1.58E-04	1.04E-04	1.47E-04	7.21E-05
4015	565152.1	4222696	0.001046	0.001383	4.96E-04	5.55E-04	1.52E-03	4.96E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.40E-05
4016	565138.7	4222692	0.001073	0.001419	5.08E-04	5.69E-04	1.56E-03	5.08E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.59E-05
4017	565125.4	4222689	0.0011	0.001454	5.21E-04	5.83E-04	1.59E-03	5.21E-04	1.44E-04	2.84E-04	1.70E-04	1.12E-04	1.58E-04	7.78E-05
4018	565112	4222685	0.001126	0.001489	5.33E-04	5.97E-04	1.63E-03	5.33E-04	1.48E-04	2.91E-04	1.75E-04	1.14E-04	1.62E-04	7.96E-05
4019	565098.7	4222681	0.001151	0.001523	5.45E-04	6.10E-04	1.67E-03	5.45E-04	1.51E-04	2.97E-04	1.78E-04	1.17E-04	1.66E-04	8.14E-05
4020	565085.3	4222677	0.001176	0.001555	5.57E-04	6.23E-04	1.70E-03	5.57E-04	1.54E-04	3.04E-04	1.82E-04	1.20E-04	1.69E-04	8.32E-05
4021	565075.2	4222669	0.00123	0.001627	5.83E-04	6.52E-04	1.78E-03	5.83E-04	1.62E-04	3.18E-04	1.91E-04	1.25E-04	1.77E-04	8.70E-05
4022	565068.4	4222657	0.001318	0.001743	6.25E-04	6.99E-04	1.91E-03	6.25E-04	1.73E-04	3.41E-04	2.04E-04	1.34E-04	1.90E-04	9.32E-05
4023	565054.7	4222633	0.001509	0.001995	7.15E-04	8.00E-04	2.19E-03	7.15E-04	1.98E-04	3.90E-04	2.34E-04	1.53E-04	2.17E-04	1.07E-04
4024	565027.4	4222585	0.001922	0.002542	9.11E-04	1.02E-03	2.79E-03	9.11E-04	2.52E-04	4.97E-04	2.98E-04	1.95E-04	2.77E-04	1.36E-04
4025	565020.5	4222573	0.002027	0.00268	9.60E-04	1.07E-03	2.94E-03	9.60E-04	2.66E-04	5.24E-04	3.14E-04	2.06E-04	2.92E-04	1.43E-04
4026	565013.7	4222561	0.002131	0.002819	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.51E-04	3.30E-04	2.17E-04	3.07E-04	1.51E-04
4027	565006.8	4222549	0.002234	0.002954	1.06E-03	1.18E-03	3.24E-03	1.06E-03	2.93E-04	5.77E-04	3.46E-04	2.27E-04	3.21E-04	1.58E-04
4028	565000	4222537	0.002332	0.003084	1.10E-03	1.24E-03	3.38E-03	1.10E-03	3.06E-04	6.02E-04	3.61E-04	2.37E-04	3.35E-04	1.65E-04
4029	564993.2	4222525	0.002425	0.003207	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.46E-04	3.49E-04	1.72E-04
4030	564986.3	4222513	0.002515	0.003325	1.19E-03	1.33E-03	3.65E-03	1.19E-03	3.30E-04	6.50E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
4031	564979.5	4222501	0.0026	0.003439	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.42E-04	6.72E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
4032	564972.7	4222488	0.002679	0.003543	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.52E-04	6.92E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
4033	564952.1	4222452	0.002871	0.003796	1.36E-03	1.52E-03	4.16E-03	1.36E-03	3.77E-04	7.42E-04	4.45E-04	2.92E-04	4.13E-04	2.03E-04
4034	565300.9	4222758	0.000735	0.000972	3.48E-04	3.90E-04	1.07E-03	3.48E-04	9.65E-05	1.90E-04	1.14E-04	7.47E-05	1.06E-04	5.20E-05
4035	565287.5	4222754	0.000745	0.000986	3.53E-04	3.95E-04	1.08E-03	3.53E-04	9.79E-05	1.93E-04	1.16E-04	7.58E-05	1.07E-04	5.27E-05
4036	565274.1	4222750	0.000758	0.001003	3.59E-04	4.02E-04	1.10E-03	3.59E-04	9.96E-05	1.96E-04	1.18E-04	7.71E-05	1.09E-04	5.36E-05
4037	565247.3	4222742	0.000789	0.001043	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.58E-05
4038	565233.9	4222739	0.000806	0.001066	3.82E-04	4.27E-04	1.17E-03	3.82E-04	1.06E-04	2.08E-04	1.25E-04	8.19E-05	1.16E-04	5.70E-05
4039	565220.5	4222735	0.000824	0.00109	3.90E-04	4.37E-04	1.19E-03	3.90E-04	1.08E-04	2.13E-04	1.28E-04	8.38E-05	1.19E-04	5.83E-05
4040	565207.1	4222731	0.000844	0.001116	4.00E-04	4.47E-04	1.22E-03	4.00E-04	1.11E-04	2.18E-04	1.31E-04	8.57E-05	1.21E-04	5.97E-05
4041	565193.7	4222727	0.000864	0.001143	4.09E-04	4.58E-04	1.25E-03	4.09E-04	1.14E-04	2.23E-04	1.34E-04	8.78E-05	1.24E-04	6.11E-05
4042	565180.3	4222723	0.000886	0.001172	4.20E-04	4.70E-04	1.28E-03	4.20E-04	1.16E-04	2.29E-04	1.37E-04	9.00E-05	1.27E-04	6.26E-05
4043	565166.9	4222720	0.000908	0.001201	4.30E-04	4.82E-04	1.32E-03	4.30E-04	1.19E-04	2.35E-04	1.41E-04	9.23E-05	1.31E-04	6.42E-05
4044	565153.5	4222716	0.000931	0.001232	4.41E-04	4.94E-04	1.35E-03	4.41E-04	1.22E-04	2.41E-04	1.44E-04	9.47E-05	1.34E-04	6.59E-05
4045	565140	4222712	0.000955	0.001263	4.52E-04	5.06E-04	1.38E-03	4.52E-04	1.25E-04	2.47E-04	1.48E-04	9.70E-05	1.37E-04	6.75E-05
4046	565126.6	4222708	0.000979	0.001294	4.64E-04	5.19E-04	1.42E-03	4.64E-04	1.29E-04	2.53E-04	1.52E-04	9.95E-05	1.41E-04	6.92E-05
4047	565113.2	4222704	0.001003	0.001326	4.75E-04	5.32E-04	1.45E-03	4.75E-04	1.32E-04	2.59E-04	1.55E-04	1.02E-04	1.44E-04	7.09E-05
4048	565099.8	4222701	0.001026	0.001357	4.86E-04	5.44E-04	1.49E-03	4.86E-04	1.35E-04	2.65E-04	1.59E-04	1.04E-04	1.48E-04	7.26E-05
4049	565086.4	4222697	0.001049	0.001387	4.97E-04	5.56E-04	1.52E-03	4.97E-04	1.38E-04	2.71E-04	1.63E-04	1.07E-04	1.51E-04	7.42E-05
4050	565073	4222693	0.001071	0.001417	5.08E-04	5.68E-04	1.55E-03	5.08E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.58E-05
4051	565062.9	4222685	0.00112	0.001481	5.30E-04	5.94E-04	1.62E-03	5.30E-04	1.47E-04	2.89E-04	1.74E-04	1.14E-04	1.61E-04	7.92E-05
4052	565056	4222673	0.001198	0.001584	5.68E-04	6.35E-04	1.74E-03	5.68E-04	1.57E-04	3.09E-04	1.86E-04	1.22E-04	1.72E-04	8.47E-05
4053	565049.1	4222661	0.001281	0.001694	6.07E-04	6.79E-04	1.86E-03	6.07E-04	1.68E-04	3.31E-04	1.99E-04	1.30E-04	1.84E-04	9.06E-05
4054	565028.5	4222625	0.001551	0.002052	7.35E-04	8.22E-04	2.25E-03	7.35E-04	2.04E-04	4.01E-04	2.40E-04	1.58E-04	2.23E-04	1.10E-04
4055	565021.7	4222612	0.001646	0.002177	7.80E-04	8.73E-04	2.39E-03	7.80E-04	2.16E-04	4.25E-04	2.55E-04	1.67E-04	2.37E-04	1.16E-04
4056	565014.8	4222600	0.001742	0.002304	8.25E-04	9.24E-04	2.53E-03	8.25E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
4057	565007.9	4222588	0.001838	0.00243	8.71E-04	9.74E-04	2.66E-03	8.71E-04	2.41E-04	4.75E-04	2.85E-04	1.87E-04	2.64E-04	1.30E-04
4058	565001	4222576	0.001932	0.002555	9.15E-04	1.02E-03	2.80E-03	9.15E-04	2.54E-04	4.99E-04	3.00E-04	1.96E-04	2.78E-04	1.37E-04
4059	564994.2	4222564	0.002027	0.002681	9.60E-04	1.07E-03	2.94E-03	9.60E-04	2.66E-04	5.24E-04	3.14E-04	2.06E-04	2.92E-04	1.43E-04
4060	564987.3	4222552	0.002119	0.002803	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.48E-04	3.29E-04	2.15E-04	3.05E-04	1.50E-04
4061	564980.4	4222540	0.002208	0.00292	1.05E-03	1.17E-03	3.20E-03	1.05E-03	2.90E-04	5.70E-04	3.42E-04	2.24E-04	3.18E-04	1.56E-04
4062	564973.6	4222528	0.002293	0.003032	1.09E-03	1.22E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
4063	564966.7	4222515	0.002374	0.00314	1.12E-03	1.26E-03	3.44E-03	1.12E-03	3.12E-04	6.13E-04	3.68E-04	2.41E-04	3.42E-04	1.68E-04
4064	564959.8	4222503	0.00245	0.00324	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.22E-04	6.33E-04	3.80E-04	2.49E-04	3.52E-04	1.73E-04
4065	564939.2	4222467	0.002641	0.003492	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.82E-04	4.09E-04	2.68E-04	3.80E-04	1.87E-04
4066	564932.3	4222455	0.00269	0.003557	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
4067	565303	4222777	0.000671	0.000888	3.18E-04	3.56E-04	9.73E-04	3.18E-04	8.82E-05	1.73E-04	1.04E-04	6.82E-05	9.66E-05	4.75E-05
4068	565289.5	4222774	0.00068	0.000899	3.22E-04	3.61E-04	9.86E-04	3.22E-04	8.93E-05	1.76E-04	1.05E-04	6.91E-05	9.78E-05	4.81E-05
4069	565276.1	4222770	0.00069	0.000913	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.07E-05	1.78E-04	1.07E-04	7.02E-05	9.93E-05	4.88E-05
4070	565087.6	4222716	0.000939	0.001242	4.45E-04	4.98E-04	1.36E-03	4.45E-04	1.23E-04	2.43E-04	1.46E-04	9.55E-05	1.35E-04	6.64E-05
4071	565074.2	4222713	0.00096	0.00127	4.55E-04	5.09E-04	1.39E-03	4.55E-04	1.26E-04	2.48E-04	1.49E-04	9.76E-05	1.38E-04	6.79E-05
4072	565060.7	4222709	0.000981	0.001297	4.65E-04	5.20E-04	1.42E-03	4.65E-04	1.29E-04	2.53E-04	1.52E-04	9.96E-05	1.41E-04	6.93E-05
4073	565050.5	4222701	0.001024	0.001354	4.85E-04	5.43E-04	1.48E-03	4.85E-04	1.34E-04	2.64E-04	1.59E-04	1.04E-04	1.47E-04	7.24E-05
4074	565029.8	4222664	0.001245	0.001646	5.90E-04	6.60E-04	1.80E-03	5.90E-04	1.64E-04	3.22E-04	1.93E-04	1.27E-04	1.79E-04	8.80E-05
4075	565022.9	4222652	0.001326	0.001754	6.28E-04	7.03E-04	1.92E-03	6.28E-04	1.74E-04	3.43E-04	2.06E-04	1.35E-04	1.91E-04	9.38E-05
4076	565009.1	4222628	0.001496	0.001979	7.09E-04	7.93E-04	2.17E-03	7.09E-04	1.96E-04	3.87E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
4077	565002.2	4222616	0.001584	0.002094	7.50E-04	8.40E-04	2.30E-03	7.50E-04	2.08E-04	4.09E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
4078	564995.3	4222603	0.001672	0.002211	7.92E-04	8.86E-04	2.42E-03	7.92E-04	2.20E-04	4.32E-04	2.59E-04	1.70E-04	2.40E-04	1.18E-04
4079	564988.4	4222591	0.001759	0.002326	8.33E-04	9.33E-04	2.55E-03	8.33E-04	2.31E-04	4.54E-04	2.73E-04	1.79E-04	2.53E-04	1.24E-04
4080	564981.5	4222579	0.001845	0.00244	8.74E-04	9.78E-04	2.67E-03	8.74E-04	2.42E-04	4.77E-04	2.86E-04	1.87E-04	2.65E-04	1.30E-04
4081	564974.6	4222567	0.00193	0.002553	9.15E-04	1.02E-03	2.80E-03	9.15E-04	2.54E-04	4.99E-04	2.99E-04	1.96E-04	2.78E-04	1.37E-04
4082	564967.7	4222555	0.002014	0.002663	9.54E-04	1.07E-03	2.92E-03	9.54E-04	2.64E-04	5.20E-04	3.12E-04	2.05E-04	2.90E-04	1.42E-04
4083	564960.8	4222543	0.002095	0.00277	9.92E-04	1.11E-03	3.04E-03	9.92E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
4084	564953.9	4222530	0.002172	0.002872	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.85E-04	5.61E-04	3.37E-04	2.21E-04	3.12E-04	1.54E-04
4085	564947	4222518	0.002245	0.002969	1.06E-03	1.19E-03	3.26E-03	1.06E-03	2.95E-04	5.80E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
4086	564940.1	4222506	0.002313	0.003059	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.97E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
4087	564919.4	4222470	0.002483	0.003284	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.41E-04	3.85E-04	2.52E-04	3.57E-04	1.76E-04
4088	564912.5	4222457	0.002526	0.003341	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.32E-04	6.53E-04	3.92E-04	2.57E-04	3.63E-04	1.79E-04
4089	565305.1	4222797	0.000617	0.000815	2.92E-04	3.27E-04	8.94E-04	2.92E-04	8.10E-05	1.59E-04	9.56E-05	6.27E-05	8.87E-05	4.36E-05
4090	565291.6	4222793	0.000624	0.000825	2.96E-04	3.31E-04	9.04E-04	2.96E-04	8.19E-05	1.61E-04	9.67E-05	6.34E-05	8.97E-05	4.41E-05
4091	565278.1	4222790	0.000632	0.000836	3.00E-04	3.35E-04	9.17E-04	3.00E-04	8.30E-05	1.63E-04	9.80E-05	6.43E-05	9.09E-05	4.47E-05
4092	565251.1	4222782	0.000653	0.000864	3.09E-04	3.46E-04	9.47E-04	3.09E-04	8.58E-05	1.69E-04	1.01E-04	6.64E-05	9.39E-05	4.62E-05

4093	565237.5	4222778	0.000665	0.000879	3.15E-04	3.53E-04	9.64E-04	3.15E-04	8.73E-05	1.72E-04	1.03E-04	6.76E-05	9.56E-05	4.70E-05
4094	565224	4222774	0.000678	0.000896	3.21E-04	3.59E-04	9.82E-04	3.21E-04	8.90E-05	1.75E-04	1.05E-04	6.89E-05	9.75E-05	4.79E-05
4095	565210.5	4222770	0.000691	0.000914	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.08E-05	1.79E-04	1.07E-04	7.02E-05	9.94E-05	4.89E-05
4096	565197	4222767	0.000706	0.000933	3.34E-04	3.74E-04	1.02E-03	3.34E-04	9.27E-05	1.82E-04	1.09E-04	7.17E-05	1.01E-04	4.99E-05
4097	565183.5	4222763	0.000721	0.000953	3.41E-04	3.82E-04	1.04E-03	3.41E-04	9.46E-05	1.86E-04	1.12E-04	7.32E-05	1.04E-04	5.10E-05
4098	565170	4222759	0.000737	0.000974	3.49E-04	3.91E-04	1.07E-03	3.49E-04	9.67E-05	1.90E-04	1.14E-04	7.49E-05	1.06E-04	5.21E-05
4099	565156.5	4222755	0.000753	0.000996	3.57E-04	3.99E-04	1.09E-03	3.57E-04	9.89E-05	1.95E-04	1.17E-04	7.66E-05	1.08E-04	5.33E-05
4100	565143	4222751	0.000771	0.001019	3.65E-04	4.09E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.19E-04	7.83E-05	1.11E-04	5.45E-05
4101	565129.5	4222747	0.000789	0.001043	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.58E-05
4102	565115.9	4222744	0.000807	0.001067	3.82E-04	4.28E-04	1.17E-03	3.82E-04	1.06E-04	2.08E-04	1.25E-04	8.20E-05	1.16E-04	5.71E-05
4103	565102.4	4222740	0.000826	0.001092	3.91E-04	4.38E-04	1.20E-03	3.91E-04	1.08E-04	2.13E-04	1.28E-04	8.39E-05	1.19E-04	5.84E-05
4104	565088.9	4222736	0.000845	0.001117	4.00E-04	4.48E-04	1.22E-03	4.00E-04	1.11E-04	2.18E-04	1.31E-04	8.58E-05	1.22E-04	5.97E-05
4105	565075.4	4222732	0.000864	0.001142	4.09E-04	4.58E-04	1.25E-03	4.09E-04	1.13E-04	2.23E-04	1.34E-04	8.78E-05	1.24E-04	6.11E-05
4106	565061.9	4222728	0.000883	0.001167	4.18E-04	4.68E-04	1.28E-03	4.18E-04	1.16E-04	2.28E-04	1.37E-04	8.97E-05	1.27E-04	6.24E-05
4107	565031.2	4222704	0.001002	0.001325	4.75E-04	5.31E-04	1.45E-03	4.75E-04	1.32E-04	2.59E-04	1.55E-04	1.02E-04	1.44E-04	7.09E-05
4108	565024.3	4222692	0.001068	0.001413	5.06E-04	5.66E-04	1.55E-03	5.06E-04	1.40E-04	2.76E-04	1.66E-04	1.09E-04	1.54E-04	7.55E-05
4109	565017.4	4222680	0.001138	0.001505	5.39E-04	6.03E-04	1.65E-03	5.39E-04	1.49E-04	2.94E-04	1.76E-04	1.16E-04	1.64E-04	8.05E-05
4110	565010.5	4222668	0.001211	0.001601	5.74E-04	6.42E-04	1.76E-03	5.74E-04	1.59E-04	3.13E-04	1.88E-04	1.23E-04	1.74E-04	8.56E-05
4111	565003.5	4222655	0.001286	0.001701	6.09E-04	6.82E-04	1.86E-03	6.09E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.10E-05
4112	564989.7	4222631	0.001444	0.00191	6.84E-04	7.66E-04	2.09E-03	6.84E-04	1.90E-04	3.73E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
4113	564982.8	4222619	0.001525	0.002016	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
4114	564975.8	4222607	0.001606	0.002123	7.61E-04	8.51E-04	2.33E-03	7.61E-04	2.11E-04	4.15E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
4115	564968.9	4222594	0.001685	0.002229	7.98E-04	8.93E-04	2.44E-03	7.98E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
4116	564962	4222582	0.001764	0.002333	8.36E-04	9.35E-04	2.56E-03	8.36E-04	2.32E-04	4.56E-04	2.73E-04	1.79E-04	2.54E-04	1.25E-04
4117	564955.1	4222570	0.001841	0.002435	8.72E-04	9.76E-04	2.67E-03	8.72E-04	2.42E-04	4.76E-04	2.85E-04	1.87E-04	2.65E-04	1.30E-04
4118	564948.1	4222558	0.001917	0.002535	9.08E-04	1.02E-03	2.78E-03	9.08E-04	2.52E-04	4.95E-04	2.97E-04	1.95E-04	2.76E-04	1.36E-04
4119	564941.2	4222546	0.00199	0.002631	9.43E-04	1.05E-03	2.88E-03	9.43E-04	2.61E-04	5.14E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
4120	564934.3	4222533	0.002059	0.002723	9.76E-04	1.09E-03	2.99E-03	9.76E-04	2.70E-04	5.32E-04	3.19E-04	2.09E-04	2.96E-04	1.46E-04
4121	564927.4	4222521	0.002125	0.00281	1.01E-03	1.13E-03	3.08E-03	1.01E-03	2.79E-04	5.49E-04	3.29E-04	2.16E-04	3.06E-04	1.50E-04
4122	564920.4	4222509	0.002187	0.002892	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.87E-04	5.65E-04	3.39E-04	2.22E-04	3.15E-04	1.55E-04
4123	564906.6	4222484	0.002294	0.003034	1.09E-03	1.22E-03	3.33E-03	1.09E-03	3.01E-04	5.93E-04	3.56E-04	2.33E-04	3.30E-04	1.62E-04
4124	564899.7	4222472	0.002339	0.003093	1.11E-03	1.24E-03	3.39E-03	1.11E-03	3.07E-04	6.04E-04	3.63E-04	2.38E-04	3.36E-04	1.65E-04
4125	564892.7	4222460	0.002378	0.003145	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.12E-04	6.14E-04	3.69E-04	2.42E-04	3.42E-04	1.68E-04
4126	565307.2	4222817	0.000569	0.000752	2.70E-04	3.02E-04	8.25E-04	2.70E-04	7.47E-05	1.47E-04	8.82E-05	5.78E-05	8.18E-05	4.02E-05
4127	565293.7	4222813	0.000575	0.000761	2.73E-04	3.05E-04	8.34E-04	2.73E-04	7.55E-05	1.49E-04	8.92E-05	5.85E-05	8.27E-05	4.07E-05
4128	565280.1	4222809	0.000582	0.00077	2.76E-04	3.09E-04	8.44E-04	2.76E-04	7.65E-05	1.50E-04	9.03E-05	5.92E-05	8.38E-05	4.12E-05
4129	565253	4222802	0.0006	0.000793	2.84E-04	3.18E-04	8.69E-04	2.84E-04	7.88E-05	1.55E-04	9.30E-05	6.09E-05	8.63E-05	4.24E-05
4130	565239.4	4222798	0.00061	0.000806	2.89E-04	3.23E-04	8.84E-04	2.89E-04	8.01E-05	1.57E-04	9.45E-05	6.19E-05	8.77E-05	4.31E-05
4131	565225.9	4222794	0.00062	0.00082	2.94E-04	3.29E-04	8.99E-04	2.94E-04	8.15E-05	1.60E-04	9.61E-05	6.30E-05	8.92E-05	4.39E-05
4132	565212.3	4222790	0.000632	0.000835	2.99E-04	3.35E-04	9.16E-04	2.99E-04	8.29E-05	1.63E-04	9.79E-05	6.42E-05	9.08E-05	4.47E-05
4133	565198.8	4222786	0.000644	0.000851	3.05E-04	3.41E-04	9.33E-04	3.05E-04	8.45E-05	1.66E-04	9.98E-05	6.54E-05	9.26E-05	4.55E-05
4134	565185.2	4222782	0.000656	0.000868	3.11E-04	3.48E-04	9.52E-04	3.11E-04	8.62E-05	1.70E-04	1.02E-04	6.67E-05	9.44E-05	4.64E-05
4135	565171.6	4222779	0.00067	0.000886	3.17E-04	3.55E-04	9.71E-04	3.17E-04	8.80E-05	1.73E-04	1.04E-04	6.81E-05	9.64E-05	4.74E-05
4136	565158.1	4222775	0.000684	0.000905	3.24E-04	3.63E-04	9.92E-04	3.24E-04	8.98E-05	1.77E-04	1.06E-04	6.95E-05	9.84E-05	4.84E-05
4137	565144.5	4222771	0.000699	0.000924	3.31E-04	3.70E-04	1.01E-03	3.31E-04	9.18E-05	1.81E-04	1.08E-04	7.10E-05	1.01E-04	4.94E-05
4138	565131	4222767	0.000714	0.000944	3.38E-04	3.79E-04	1.04E-03	3.38E-04	9.38E-05	1.85E-04	1.11E-04	7.26E-05	1.03E-04	5.05E-05
4139	565117.4	4222763	0.00073	0.000966	3.46E-04	3.87E-04	1.06E-03	3.46E-04	9.59E-05	1.89E-04	1.13E-04	7.42E-05	1.05E-04	5.16E-05
4140	565103.8	4222759	0.000747	0.000987	3.54E-04	3.96E-04	1.08E-03	3.54E-04	9.80E-05	1.93E-04	1.16E-04	7.59E-05	1.07E-04	5.28E-05
4141	565090.3	4222756	0.000763	0.001009	3.62E-04	4.05E-04	1.11E-03	3.62E-04	1.00E-04	1.97E-04	1.18E-04	7.76E-05	1.10E-04	5.40E-05
4142	565076.7	4222752	0.00078	0.001032	3.70E-04	4.14E-04	1.13E-03	3.70E-04	1.02E-04	2.02E-04	1.21E-04	7.93E-05	1.12E-04	5.52E-05
4143	565063.2	4222748	0.000797	0.001054	3.78E-04	4.23E-04	1.16E-03	3.78E-04	1.05E-04	2.06E-04	1.24E-04	8.10E-05	1.15E-04	5.64E-05
4144	565049.6	4222744	0.000814	0.001077	3.86E-04	4.32E-04	1.18E-03	3.86E-04	1.07E-04	2.10E-04	1.26E-04	8.28E-05	1.17E-04	5.76E-05
4145	565025.8	4222732	0.000866	0.001145	4.10E-04	4.59E-04	1.26E-03	4.10E-04	1.14E-04	2.24E-04	1.34E-04	8.80E-05	1.25E-04	6.12E-05
4146	565018.9	4222720	0.000922	0.001219	4.37E-04	4.89E-04	1.34E-03	4.37E-04	1.21E-04	2.38E-04	1.43E-04	9.37E-05	1.33E-04	6.52E-05
4147	565011.9	4222708	0.000981	0.001297	4.65E-04	5.20E-04	1.42E-03	4.65E-04	1.29E-04	2.53E-04	1.52E-04	9.97E-05	1.41E-04	6.94E-05
4148	565005	4222695	0.001044	0.00138	4.94E-04	5.53E-04	1.51E-03	4.94E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.38E-05
4149	564998	4222683	0.001109	0.001467	5.26E-04	5.88E-04	1.61E-03	5.26E-04	1.46E-04	2.87E-04	1.72E-04	1.13E-04	1.60E-04	7.84E-05
4150	564991.1	4222671	0.001178	0.001558	5.58E-04	6.24E-04	1.71E-03	5.58E-04	1.55E-04	3.04E-04	1.83E-04	1.20E-04	1.69E-04	8.33E-05
4151	564984.1	4222659	0.001248	0.001651	5.91E-04	6.62E-04	1.81E-03	5.91E-04	1.64E-04	3.22E-04	1.94E-04	1.27E-04	1.80E-04	8.83E-05
4152	564970.2	4222634	0.001395	0.001844	6.61E-04	7.39E-04	2.02E-03	6.61E-04	1.83E-04	3.60E-04	2.16E-04	1.42E-04	2.01E-04	9.86E-05
4153	564963.3	4222622	0.001469	0.001943	6.96E-04	7.79E-04	2.13E-03	6.96E-04	1.93E-04	3.79E-04	2.28E-04	1.49E-04	2.11E-04	1.04E-04
4154	564956.3	4222610	0.001543	0.002041	7.31E-04	8.18E-04	2.24E-03	7.31E-04	2.03E-04	3.99E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
4155	564949.4	4222597	0.001617	0.002138	7.66E-04	8.57E-04	2.34E-03	7.66E-04	2.12E-04	4.18E-04	2.51E-04	1.64E-04	2.33E-04	1.14E-04
4156	564942.4	4222585	0.001689	0.002233	8.00E-04	8.95E-04	2.45E-03	8.00E-04	2.22E-04	4.36E-04	2.62E-04	1.72E-04	2.43E-04	1.19E-04
4157	564935.5	4222573	0.00176	0.002327	8.34E-04	9.33E-04	2.55E-03	8.34E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.53E-04	1.24E-04
4158	564928.5	4222561	0.001828	0.002417	8.66E-04	9.69E-04	2.65E-03	8.66E-04	2.40E-04	4.72E-04	2.83E-04	1.86E-04	2.63E-04	1.29E-04
4159	564921.6	4222548	0.001893	0.002503	8.97E-04	1.00E-03	2.74E-03	8.97E-04	2.49E-04	4.89E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
4160	564914.6	4222536	0.001956	0.002586	9.26E-04	1.04E-03	2.84E-03	9.26E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
4161	564907.7	4222524	0.002015	0.002665	9.55E-04	1.07E-03	2.92E-03	9.55E-04	2.65E-04	5.21E-04	3.12E-04	2.05E-04	2.90E-04	1.42E-04
4162	564886.8	4222487	0.002167	0.002866	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
4163	564879.9	4222475	0.002208	0.00292	1.05E-03	1.17E-03	3.20E-03	1.05E-03	2.90E-04	5.70E-04	3.42E-04	2.24E-04	3.18E-04	1.56E-04
4164	564872.9	4222463	0.002245	0.002969	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.95E-04	5.80E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
4165	565309.3	4222837	0.000527	0.000697	2.50E-04	2.80E-04	7.64E-04	2.50E-04	6.92E-05	1.36E-04	8.17E-05	5.36E-05	7.58E-05	3.73E-05
4166	565295.7	4222833	0.000532	0.000704	2.52E-04	2.82E-04	7.72E-04	2.52E-04	6.99E-05	1.38E-04	8.25E-05	5.41E-05	7.66E-05	3.77E-05
4167	565282.1	4222829	0.000538	0.000712	2.55E-04	2.85E-04	7.81E-04	2.55E-04	7.07E-05	1.39E-04	8.35E-05	5.47E-05	7.74E-05	3.81E-05
4168	565254.9	4222821	0.000553	0.000732	2.62E-04	2.93E-04	8.02E-04	2.62E-04	7.27E-05	1.43E-04	8.58E-05	5.62E-05	7.96E-05	3.91E-05
4169	565241.3	4222818	0.000562	0.000743	2.66E-04	2.98E-04	8.14E-04	2.66E-04	7.38E-05	1.45E-04	8.71E-05	5.71E-05	8.08E-05	3.97E-05
4170	565227.7	4222814	0.000571	0.000755	2.70E-04	3.03E-04	8.28E-04	2.70E-04	7.50E-05	1.47E-04	8.85E-05	5.80E-05	8.21E-05	4.04E-05
4171	565214.1	4222810	0.00058	0.000768	2.75E-04	3.08E-04	8.41E-04	2.75E-04	7.62E-05	1.50E-04	9.00E-05	5.90E-05	8.35E-05	4.10E-05
4172	565200.5	4222806	0.00059	0.000781	2.80E-04	3.13E-04	8.56E-04	2.80E-04	7.75E-05	1.53E-04	9.15E-05	6.00E-05	8.49E-05	4.18E-05
4173	565186.9	4222802	0.000601	0.000795	2.85E-04	3.19E-04	8.72E-04	2.85E-04	7.90E-05	1.55E-04	9.32E-05	6.11E-05	8.65E-05	4.25E-05
4174	565173.3	4222798	0.000613	0.00081	2.90E-04	3.25E-04	8.88E-04	2.90E-04	8.05E-05	1.58E-04	9.50E-05	6.23E-05	8.81E-05	4.33E-05
4175	565159.7	4222794	0.000625	0.000826	2.96E-04	3.31E-04	9.06E-04	2.96E-04	8.20E-05	1.61E-04	9.68E-05	6.35E-05	8.99E-05	4.42E-05
4176	565146.1	4222791	0.000637	0.000843	3.02E-04	3.38E-04	9.24E-04	3.02E-04	8.37E-05	1.65E-04	9.88E-05	6.48E-05	9.17E-05	4.51E-05
4177	565132.5	4222787	0.00065	0.00086	3.08E-04	3.45E-04	9.43E-04	3.08E-04	8.54E-05	1.68E-04	1.01E-04	6.61E-05	9.36E-05	4.60E-05
4178	565118.9	4222783	0.000664	0.000878	3.15E-04	3.52E-04	9.63E-04	3.15E-04	8.72E-05	1.72E-04	1.03E-04	6.75E-05	9.55E-05	4.70E-05
4179	565105.3	4222779	0.000678	0.000897	3.21E-04	3.60E-04	9.83E-04	3.21E-04	8.91E-05	1.75E-04	1.05E-04	6.89E-05	9.76E-05	4.80E-05
4180	565091.7	4222775	0.000693	0.000916	3.28E-04	3.67E-04	1.00E-03	3.28E-04	9.10E-05	1.79E-04	1.07E-04	7.04E-05	9.97E-05	4.90E-05
4181	565078.1	4222771	0.000708	0.000936	3.35E-04	3.75E-04	1.03E-03	3.35E-04	9.30E-05	1.83E-04	1.10E-04	7.19E-05	1.02E-04	5.01E-05
4182	565064.5	4222768	0.000723	0.000956	3.43E-04	3.83E-04	1.05E-03	3.43E-04	9.50E-05	1.87E-04	1.12E-04	7.35E-05	1.04E-04	5.11E-05
4183	565050.9	4222764	0.000739	0.000977	3.50E-04	3.92E-04	1.07E-03	3.50E-04	9.70E-05	1.91E-04	1.14E-04	7.51E-05	1.06E-04	5.22E-05

4184	565023.7	4222756	0.000769	0.001018	3.65E-04	4.08E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.19E-04	7.82E-05	1.11E-04	5.44E-05
4185	565013.5	4222748	0.000801	0.001059	3.79E-04	4.25E-04	1.16E-03	3.79E-04	1.05E-04	2.07E-04	1.24E-04	8.14E-05	1.15E-04	5.66E-05
4186	565006.5	4222736	0.000851	0.001125	4.03E-04	4.51E-04	1.23E-03	4.03E-04	1.12E-04	2.20E-04	1.32E-04	8.65E-05	1.22E-04	6.02E-05
4187	564999.5	4222723	0.000904	0.001196	4.28E-04	4.79E-04	1.31E-03	4.28E-04	1.19E-04	2.34E-04	1.40E-04	9.19E-05	1.30E-04	6.39E-05
4188	564992.5	4222711	0.000961	0.00127	4.55E-04	5.09E-04	1.39E-03	4.55E-04	1.26E-04	2.48E-04	1.49E-04	9.76E-05	1.38E-04	6.79E-05
4189	564985.6	4222699	0.00102	0.001349	4.83E-04	5.41E-04	1.48E-03	4.83E-04	1.34E-04	2.63E-04	1.58E-04	1.04E-04	1.47E-04	7.21E-05
4190	564978.6	4222686	0.001082	0.001431	5.13E-04	5.74E-04	1.57E-03	5.13E-04	1.42E-04	2.79E-04	1.68E-04	1.10E-04	1.56E-04	7.65E-05
4191	564971.6	4222674	0.001146	0.001516	5.43E-04	6.08E-04	1.66E-03	5.43E-04	1.50E-04	2.96E-04	1.78E-04	1.16E-04	1.65E-04	8.10E-05
4192	564964.7	4222662	0.001212	0.001603	5.74E-04	6.43E-04	1.76E-03	5.74E-04	1.59E-04	3.13E-04	1.88E-04	1.23E-04	1.74E-04	8.57E-05
4193	564950.7	4222637	0.001348	0.001782	6.38E-04	7.14E-04	1.95E-03	6.38E-04	1.77E-04	3.48E-04	2.09E-04	1.37E-04	1.94E-04	9.53E-05
4194	564943.7	4222625	0.001416	0.001873	6.71E-04	7.51E-04	2.05E-03	6.71E-04	1.86E-04	3.66E-04	2.20E-04	1.44E-04	2.04E-04	1.00E-04
4195	564936.8	4222613	0.001485	0.001963	7.03E-04	7.87E-04	2.15E-03	7.03E-04	1.95E-04	3.84E-04	2.30E-04	1.51E-04	2.14E-04	1.05E-04
4196	564929.8	4222600	0.001552	0.002053	7.35E-04	8.23E-04	2.25E-03	7.35E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.23E-04	1.10E-04
4197	564922.8	4222588	0.001619	0.002141	7.67E-04	8.58E-04	2.35E-03	7.67E-04	2.13E-04	4.18E-04	2.51E-04	1.64E-04	2.33E-04	1.14E-04
4198	564915.9	4222576	0.001683	0.002226	7.97E-04	8.92E-04	2.44E-03	7.97E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
4199	564908.9	4222564	0.001745	0.002307	8.27E-04	9.25E-04	2.53E-03	8.27E-04	2.29E-04	4.51E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
4200	564901.9	4222551	0.001804	0.002385	8.54E-04	9.56E-04	2.61E-03	8.54E-04	2.37E-04	4.66E-04	2.80E-04	1.83E-04	2.59E-04	1.28E-04
4201	564867.1	4222490	0.002051	0.002712	9.72E-04	1.09E-03	2.97E-03	9.72E-04	2.69E-04	5.30E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
4202	564860.1	4222477	0.002088	0.002762	9.89E-04	1.11E-03	3.03E-03	9.89E-04	2.74E-04	5.40E-04	3.24E-04	2.12E-04	3.00E-04	1.48E-04
4203	564853.1	4222465	0.002122	0.002806	1.01E-03	1.12E-03	3.08E-03	1.01E-03	2.79E-04	5.48E-04	3.29E-04	2.16E-04	3.05E-04	1.50E-04
4204	565311.5	4222857	0.00049	0.000649	2.32E-04	2.60E-04	7.11E-04	2.32E-04	6.44E-05	1.27E-04	7.60E-05	4.98E-05	7.05E-05	3.47E-05
4205	565297.8	4222853	0.000495	0.000654	2.34E-04	2.62E-04	7.17E-04	2.34E-04	6.50E-05	1.28E-04	7.67E-05	5.03E-05	7.12E-05	3.50E-05
4206	565284.2	4222849	0.0005	0.000661	2.37E-04	2.65E-04	7.24E-04	2.37E-04	6.56E-05	1.29E-04	7.75E-05	5.08E-05	7.19E-05	3.53E-05
4207	565256.9	4222841	0.000512	0.000677	2.43E-04	2.72E-04	7.43E-04	2.43E-04	6.73E-05	1.32E-04	7.94E-05	5.21E-05	7.37E-05	3.62E-05
4208	565079.6	4222791	0.000645	0.000853	3.06E-04	3.42E-04	9.36E-04	3.06E-04	8.47E-05	1.67E-04	1.00E-04	6.56E-05	9.28E-05	4.56E-05
4209	565066	4222787	0.000659	0.000871	3.12E-04	3.49E-04	9.55E-04	3.12E-04	8.65E-05	1.70E-04	1.02E-04	6.70E-05	9.48E-05	4.66E-05
4210	565052.3	4222783	0.000673	0.000889	3.19E-04	3.57E-04	9.75E-04	3.19E-04	8.83E-05	1.74E-04	1.04E-04	6.83E-05	9.67E-05	4.76E-05
4211	565025.1	4222776	0.0007	0.000926	3.32E-04	3.71E-04	1.02E-03	3.32E-04	9.20E-05	1.81E-04	1.09E-04	7.12E-05	1.01E-04	4.95E-05
4212	565011.4	4222772	0.000714	0.000945	3.38E-04	3.79E-04	1.04E-03	3.38E-04	9.38E-05	1.85E-04	1.11E-04	7.26E-05	1.03E-04	5.05E-05
4213	565001.1	4222764	0.000743	0.000983	3.52E-04	3.94E-04	1.08E-03	3.52E-04	9.76E-05	1.92E-04	1.15E-04	7.55E-05	1.07E-04	5.25E-05
4214	564994.1	4222751	0.000788	0.001042	3.73E-04	4.18E-04	1.14E-03	3.73E-04	1.03E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.57E-05
4215	564987.1	4222739	0.000836	0.001106	3.96E-04	4.43E-04	1.21E-03	3.96E-04	1.10E-04	2.16E-04	1.30E-04	8.50E-05	1.20E-04	5.91E-05
4216	564980.1	4222727	0.000887	0.001173	4.20E-04	4.70E-04	1.29E-03	4.20E-04	1.16E-04	2.29E-04	1.38E-04	9.01E-05	1.28E-04	6.27E-05
4217	564973.1	4222714	0.000941	0.001244	4.46E-04	4.99E-04	1.36E-03	4.46E-04	1.24E-04	2.43E-04	1.46E-04	9.56E-05	1.35E-04	6.65E-05
4218	564966.1	4222702	0.000997	0.001318	4.72E-04	5.28E-04	1.45E-03	4.72E-04	1.31E-04	2.58E-04	1.55E-04	1.01E-04	1.43E-04	7.05E-05
4219	564959.2	4222690	0.001055	0.001395	5.00E-04	5.59E-04	1.53E-03	5.00E-04	1.39E-04	2.73E-04	1.64E-04	1.07E-04	1.52E-04	7.46E-05
4220	564952.2	4222677	0.001115	0.001475	5.28E-04	5.91E-04	1.62E-03	5.28E-04	1.46E-04	2.88E-04	1.73E-04	1.13E-04	1.60E-04	7.89E-05
4221	564945.2	4222665	0.001177	0.001557	5.58E-04	6.24E-04	1.71E-03	5.58E-04	1.55E-04	3.04E-04	1.82E-04	1.20E-04	1.69E-04	8.32E-05
4222	564938.2	4222653	0.00124	0.001639	5.87E-04	6.57E-04	1.80E-03	5.87E-04	1.63E-04	3.20E-04	1.92E-04	1.26E-04	1.78E-04	8.77E-05
4223	564924.2	4222628	0.001366	0.001807	6.47E-04	7.24E-04	1.98E-03	6.47E-04	1.79E-04	3.53E-04	2.12E-04	1.39E-04	1.97E-04	9.66E-05
4224	564917.2	4222616	0.001429	0.00189	6.77E-04	7.58E-04	2.07E-03	6.77E-04	1.88E-04	3.69E-04	2.22E-04	1.45E-04	2.06E-04	1.01E-04
4225	564910.2	4222603	0.001491	0.001972	7.06E-04	7.91E-04	2.16E-03	7.06E-04	1.96E-04	3.85E-04	2.31E-04	1.52E-04	2.14E-04	1.05E-04
4226	564903.2	4222591	0.001552	0.002052	7.35E-04	8.23E-04	2.25E-03	7.35E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.23E-04	1.10E-04
4227	564896.2	4222579	0.001611	0.00213	7.63E-04	8.54E-04	2.34E-03	7.63E-04	2.12E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
4228	564875.3	4222542	0.001771	0.002343	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
4229	564868.3	4222529	0.00182	0.002407	8.62E-04	9.65E-04	2.64E-03	8.62E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
4230	564847.3	4222492	0.001944	0.002571	9.21E-04	1.03E-03	2.82E-03	9.21E-04	2.55E-04	5.02E-04	3.01E-04	1.98E-04	2.80E-04	1.37E-04
4231	564840.3	4222480	0.001978	0.002616	9.37E-04	1.05E-03	2.87E-03	9.37E-04	2.60E-04	5.11E-04	3.07E-04	2.01E-04	2.85E-04	1.40E-04
4232	564833.3	4222468	0.002008	0.002656	9.51E-04	1.06E-03	2.91E-03	9.51E-04	2.64E-04	5.19E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
4233	565313.6	4222876	0.000458	0.000605	2.17E-04	2.43E-04	6.64E-04	2.17E-04	6.01E-05	1.18E-04	7.09E-05	4.65E-05	6.58E-05	3.24E-05
4234	565300	4222873	0.000461	0.00061	2.19E-04	2.45E-04	6.69E-04	2.19E-04	6.06E-05	1.19E-04	7.15E-05	4.69E-05	6.63E-05	3.26E-05
4235	565286.3	4222869	0.000465	0.000616	2.21E-04	2.47E-04	6.75E-04	2.21E-04	6.11E-05	1.20E-04	7.22E-05	4.73E-05	6.69E-05	3.29E-05
4236	565258.9	4222861	0.000476	0.00063	2.26E-04	2.52E-04	6.90E-04	2.26E-04	6.25E-05	1.23E-04	7.38E-05	4.84E-05	6.85E-05	3.37E-05
4237	565245.3	4222857	0.000482	0.000638	2.29E-04	2.56E-04	6.99E-04	2.29E-04	6.34E-05	1.25E-04	7.48E-05	4.90E-05	6.94E-05	3.41E-05
4238	565231.6	4222853	0.000489	0.000647	2.32E-04	2.59E-04	7.09E-04	2.32E-04	6.42E-05	1.26E-04	7.58E-05	4.97E-05	7.04E-05	3.46E-05
4239	565217.9	4222849	0.000496	0.000656	2.35E-04	2.63E-04	7.20E-04	2.35E-04	6.52E-05	1.28E-04	7.70E-05	5.04E-05	7.14E-05	3.51E-05
4240	565190.5	4222842	0.000512	0.000677	2.42E-04	2.71E-04	7.42E-04	2.42E-04	6.72E-05	1.32E-04	7.93E-05	5.20E-05	7.36E-05	3.62E-05
4241	565176.9	4222838	0.00052	0.000688	2.46E-04	2.76E-04	7.54E-04	2.46E-04	6.83E-05	1.34E-04	8.06E-05	5.29E-05	7.48E-05	3.68E-05
4242	565163.2	4222834	0.000529	0.0007	2.51E-04	2.81E-04	7.67E-04	2.51E-04	6.95E-05	1.37E-04	8.20E-05	5.38E-05	7.61E-05	3.74E-05
4243	565149.5	4222830	0.000538	0.000712	2.55E-04	2.85E-04	7.81E-04	2.55E-04	7.07E-05	1.39E-04	8.35E-05	5.47E-05	7.74E-05	3.81E-05
4244	565122.2	4222822	0.000558	0.000738	2.64E-04	2.96E-04	8.09E-04	2.64E-04	7.33E-05	1.44E-04	8.65E-05	5.67E-05	8.03E-05	3.95E-05
4245	565108.5	4222818	0.000569	0.000752	2.69E-04	3.01E-04	8.24E-04	2.69E-04	7.47E-05	1.47E-04	8.82E-05	5.78E-05	8.18E-05	4.02E-05
4246	565094.8	4222815	0.00058	0.000767	2.75E-04	3.07E-04	8.40E-04	2.75E-04	7.61E-05	1.50E-04	8.98E-05	5.89E-05	8.34E-05	4.10E-05
4247	565081.1	4222811	0.000591	0.000782	2.80E-04	3.13E-04	8.57E-04	2.80E-04	7.76E-05	1.53E-04	9.16E-05	6.01E-05	8.50E-05	4.18E-05
4248	565067.5	4222807	0.000603	0.000797	2.86E-04	3.20E-04	8.74E-04	2.86E-04	7.92E-05	1.56E-04	9.34E-05	6.13E-05	8.67E-05	4.26E-05
4249	565026.4	4222795	0.00064	0.000846	3.03E-04	3.39E-04	9.28E-04	3.03E-04	8.41E-05	1.65E-04	9.92E-05	6.50E-05	9.21E-05	4.53E-05
4250	565012.8	4222791	0.000653	0.000863	3.09E-04	3.46E-04	9.46E-04	3.09E-04	8.57E-05	1.69E-04	1.01E-04	6.63E-05	9.39E-05	4.62E-05
4251	564999.1	4222788	0.000665	0.00088	3.15E-04	3.53E-04	9.65E-04	3.15E-04	8.74E-05	1.72E-04	1.03E-04	6.76E-05	9.57E-05	4.71E-05
4252	564988.7	4222779	0.000691	0.000914	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.08E-05	1.79E-04	1.07E-04	7.02E-05	9.94E-05	4.89E-05
4253	564981.7	4222767	0.000732	0.000968	3.47E-04	3.88E-04	1.06E-03	3.47E-04	9.61E-05	1.89E-04	1.13E-04	7.44E-05	1.05E-04	5.18E-05
4254	564974.7	4222755	0.000775	0.001026	3.67E-04	4.11E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.88E-05	1.12E-04	5.48E-05
4255	564967.7	4222742	0.000822	0.001087	3.89E-04	4.36E-04	1.19E-03	3.89E-04	1.08E-04	2.12E-04	1.27E-04	8.35E-05	1.18E-04	5.81E-05
4256	564960.7	4222730	0.00087	0.001151	4.12E-04	4.61E-04	1.26E-03	4.12E-04	1.14E-04	2.25E-04	1.35E-04	8.84E-05	1.25E-04	6.15E-05
4257	564953.7	4222718	0.000921	0.001218	4.36E-04	4.88E-04	1.34E-03	4.36E-04	1.21E-04	2.38E-04	1.43E-04	9.36E-05	1.33E-04	6.51E-05
4258	564946.7	4222705	0.000974	0.001289	4.62E-04	5.17E-04	1.41E-03	4.62E-04	1.28E-04	2.52E-04	1.51E-04	9.90E-05	1.40E-04	6.89E-05
4259	564939.7	4222693	0.001029	0.001361	4.88E-04	5.46E-04	1.49E-03	4.88E-04	1.35E-04	2.66E-04	1.60E-04	1.05E-04	1.48E-04	7.28E-05
4260	564932.7	4222681	0.001086	0.001436	5.14E-04	5.76E-04	1.57E-03	5.14E-04	1.43E-04	2.80E-04	1.68E-04	1.10E-04	1.56E-04	7.68E-05
4261	564925.7	4222668	0.001143	0.001512	5.42E-04	6.06E-04	1.66E-03	5.42E-04	1.50E-04	2.95E-04	1.77E-04	1.16E-04	1.64E-04	8.09E-05
4262	564918.6	4222656	0.001202	0.001589	5.69E-04	6.37E-04	1.74E-03	5.69E-04	1.58E-04	3.10E-04	1.86E-04	1.22E-04	1.73E-04	8.50E-05
4263	564904.6	4222631	0.001319	0.001744	6.25E-04	6.99E-04	1.91E-03	6.25E-04	1.73E-04	3.41E-04	2.04E-04	1.34E-04	1.90E-04	9.33E-05
4264	564897.6	4222619	0.001377	0.001821	6.52E-04	7.30E-04	2.00E-03	6.52E-04	1.81E-04	3.56E-04	2.13E-04	1.40E-04	1.98E-04	9.74E-05
4265	564890.6	4222606	0.001434	0.001896	6.79E-04	7.60E-04	2.08E-03	6.79E-04	1.88E-04	3.70E-04	2.22E-04	1.46E-04	2.06E-04	1.01E-04
4266	564883.6	4222594	0.001489	0.00197	7.06E-04	7.90E-04	2.16E-03	7.06E-04	1.96E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
4267	564876.6	4222582	0.001543	0.002041	7.31E-04	8.18E-04	2.24E-03	7.31E-04	2.03E-04	3.99E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
4268	564869.6	4222569	0.001595	0.002109	7.55E-04	8.45E-04	2.31E-03	7.55E-04	2.09E-04	4.12E-04	2.47E-04	1.62E-04	2.29E-04	1.13E-04
4269	564862.6	4222557	0.001643	0.002173	7.78E-04	8.71E-04	2.38E-03	7.78E-04	2.16E-04	4.25E-04	2.55E-04	1.67E-04	2.36E-04	1.16E-04
4270	564855.6	4222545	0.001689	0.002234	8.00E-04	8.96E-04	2.45E-03	8.00E-04	2.22E-04	4.36E-04	2.62E-04	1.72E-04	2.43E-04	1.19E-04
4271	564848.5	4222532	0.001733	0.002292	8.21E-04	9.19E-04	2.51E-03	8.21E-04	2.28E-04	4.48E-04	2.69E-04	1.76E-04	2.49E-04	1.23E-04
4272	564827.5	4222495	0.001846	0.002441	8.74E-04	9.79E-04	2.68E-03	8.74E-04	2.42E-04	4.77E-04	2.86E-04	1.88E-04	2.66E-04	1.31E-04
4273	564820.5	4222483	0.001877	0.002482	8.89E-04	9.95E-04	2.72E-03	8.89E-04	2.46E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
4274	564813.5	4222470	0.001904	0.002518	9.02E-04	1.01E-03	2.76E-03	9.02E-04	2.50E-04	4.92E-04	2.95E-04	1.93E-04	2.74E-04	1.35E-04

4275	565316.6	4222897	0.000428	0.000566	2.03E-04	2.27E-04	6.21E-04	2.03E-04	5.62E-05	1.11E-04	6.64E-05	4.35E-05	6.16E-05	3.03E-05
4276	565303.2	4222893	0.000431	0.00057	2.04E-04	2.29E-04	6.25E-04	2.04E-04	5.66E-05	1.11E-04	6.68E-05	4.38E-05	6.20E-05	3.05E-05
4277	565289.7	4222889	0.000435	0.000575	2.06E-04	2.30E-04	6.30E-04	2.06E-04	5.71E-05	1.12E-04	6.74E-05	4.42E-05	6.25E-05	3.07E-05
4278	565262.8	4222881	0.000443	0.000586	2.10E-04	2.35E-04	6.43E-04	2.10E-04	5.82E-05	1.15E-04	6.87E-05	4.51E-05	6.38E-05	3.14E-05
4279	565249.3	4222877	0.000449	0.000593	2.13E-04	2.38E-04	6.50E-04	2.13E-04	5.89E-05	1.16E-04	6.95E-05	4.56E-05	6.45E-05	3.17E-05
4280	565235.8	4222874	0.000454	0.000601	2.15E-04	2.41E-04	6.59E-04	2.15E-04	5.97E-05	1.17E-04	7.04E-05	4.62E-05	6.54E-05	3.21E-05
4281	565222.3	4222870	0.00046	0.000609	2.18E-04	2.44E-04	6.68E-04	2.18E-04	6.05E-05	1.19E-04	7.14E-05	4.68E-05	6.62E-05	3.26E-05
4282	565208.9	4222866	0.000467	0.000618	2.21E-04	2.48E-04	6.77E-04	2.21E-04	6.13E-05	1.21E-04	7.24E-05	4.75E-05	6.72E-05	3.30E-05
4283	565181.9	4222858	0.000481	0.000636	2.28E-04	2.55E-04	6.97E-04	2.28E-04	6.31E-05	1.24E-04	7.45E-05	4.89E-05	6.92E-05	3.40E-05
4284	565168.5	4222855	0.000488	0.000646	2.31E-04	2.59E-04	7.08E-04	2.31E-04	6.41E-05	1.26E-04	7.57E-05	4.96E-05	7.02E-05	3.45E-05
4285	565155	4222851	0.000496	0.000656	2.35E-04	2.63E-04	7.19E-04	2.35E-04	6.51E-05	1.28E-04	7.69E-05	5.04E-05	7.13E-05	3.51E-05
4286	565141.5	4222847	0.000504	0.000667	2.39E-04	2.67E-04	7.31E-04	2.39E-04	6.62E-05	1.30E-04	7.81E-05	5.12E-05	7.25E-05	3.57E-05
4287	565114.6	4222839	0.000521	0.00069	2.47E-04	2.76E-04	7.56E-04	2.47E-04	6.85E-05	1.35E-04	8.08E-05	5.30E-05	7.50E-05	3.69E-05
4288	565101.1	4222836	0.000531	0.000702	2.51E-04	2.81E-04	7.69E-04	2.51E-04	6.97E-05	1.37E-04	8.22E-05	5.39E-05	7.63E-05	3.75E-05
4289	565087.7	4222832	0.00054	0.000714	2.56E-04	2.86E-04	7.83E-04	2.56E-04	7.10E-05	1.40E-04	8.38E-05	5.49E-05	7.77E-05	3.82E-05
4290	565074.2	4222828	0.00055	0.000728	2.61E-04	2.92E-04	7.98E-04	2.61E-04	7.23E-05	1.42E-04	8.53E-05	5.59E-05	7.92E-05	3.89E-05
4291	565060.7	4222824	0.00056	0.000741	2.66E-04	2.97E-04	8.13E-04	2.66E-04	7.36E-05	1.45E-04	8.69E-05	5.70E-05	8.06E-05	3.96E-05
4292	565020.3	4222813	0.000593	0.000785	2.81E-04	3.15E-04	8.60E-04	2.81E-04	7.79E-05	1.53E-04	9.20E-05	6.03E-05	8.54E-05	4.20E-05
4293	565006.8	4222809	0.000605	0.0008	2.87E-04	3.21E-04	8.77E-04	2.87E-04	7.94E-05	1.56E-04	9.38E-05	6.15E-05	8.70E-05	4.28E-05
4294	564993.4	4222805	0.000616	0.000815	2.92E-04	3.27E-04	8.93E-04	2.92E-04	8.09E-05	1.59E-04	9.55E-05	6.26E-05	8.86E-05	4.36E-05
4295	564976.4	4222795	0.000645	0.000853	3.05E-04	3.42E-04	9.35E-04	3.05E-04	8.47E-05	1.67E-04	1.00E-04	6.55E-05	9.28E-05	4.56E-05
4296	564969.5	4222783	0.000681	0.000901	3.23E-04	3.61E-04	9.87E-04	3.23E-04	8.94E-05	1.76E-04	1.06E-04	6.92E-05	9.79E-05	4.82E-05
4297	564962.6	4222771	0.00072	0.000952	3.41E-04	3.81E-04	1.04E-03	3.41E-04	9.45E-05	1.86E-04	1.12E-04	7.31E-05	1.04E-04	5.09E-05
4298	564955.7	4222759	0.000761	0.001006	3.60E-04	4.03E-04	1.10E-03	3.60E-04	9.99E-05	1.96E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05
4299	564948.8	4222747	0.000804	0.001063	3.81E-04	4.26E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.17E-05	1.16E-04	5.68E-05
4300	564941.9	4222734	0.000849	0.001123	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.12E-04	2.19E-04	1.32E-04	8.63E-05	1.22E-04	6.01E-05
4301	564935	4222722	0.000897	0.001186	4.25E-04	4.75E-04	1.30E-03	4.25E-04	1.18E-04	2.32E-04	1.39E-04	9.11E-05	1.29E-04	6.34E-05
4302	564928.1	4222710	0.000946	0.001251	4.48E-04	5.01E-04	1.37E-03	4.48E-04	1.24E-04	2.44E-04	1.47E-04	9.61E-05	1.36E-04	6.69E-05
4303	564921.2	4222698	0.000996	0.001318	4.72E-04	5.28E-04	1.44E-03	4.72E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.05E-05
4304	564914.3	4222686	0.001048	0.001386	4.97E-04	5.56E-04	1.52E-03	4.97E-04	1.38E-04	2.71E-04	1.62E-04	1.07E-04	1.51E-04	7.41E-05
4305	564907.4	4222673	0.001101	0.001456	5.22E-04	5.84E-04	1.60E-03	5.22E-04	1.45E-04	2.84E-04	1.71E-04	1.12E-04	1.58E-04	7.79E-05
4306	564900.5	4222661	0.001154	0.001526	5.47E-04	6.12E-04	1.67E-03	5.47E-04	1.52E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.16E-05
4307	564886.7	4222637	0.001261	0.001668	5.97E-04	6.69E-04	1.83E-03	5.97E-04	1.66E-04	3.26E-04	1.95E-04	1.28E-04	1.81E-04	8.92E-05
4308	564879.8	4222625	0.001314	0.001737	6.22E-04	6.96E-04	1.90E-03	6.22E-04	1.73E-04	3.39E-04	2.04E-04	1.33E-04	1.89E-04	9.29E-05
4309	564872.9	4222613	0.001365	0.001806	6.47E-04	7.24E-04	1.98E-03	6.47E-04	1.79E-04	3.53E-04	2.12E-04	1.39E-04	1.96E-04	9.66E-05
4310	564866	4222600	0.001416	0.001873	6.71E-04	7.51E-04	2.05E-03	6.71E-04	1.86E-04	3.66E-04	2.19E-04	1.44E-04	2.04E-04	1.00E-04
4311	564859.1	4222588	0.001465	0.001937	6.94E-04	7.77E-04	2.12E-03	6.94E-04	1.92E-04	3.78E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
4312	564852.2	4222576	0.001512	0.002	7.16E-04	8.02E-04	2.19E-03	7.16E-04	1.99E-04	3.91E-04	2.34E-04	1.54E-04	2.17E-04	1.07E-04
4313	564845.3	4222564	0.001556	0.002058	7.37E-04	8.25E-04	2.26E-03	7.37E-04	2.04E-04	4.02E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
4314	564838.4	4222552	0.001598	0.002114	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
4315	564831.5	4222540	0.001638	0.002166	7.76E-04	8.68E-04	2.37E-03	7.76E-04	2.15E-04	4.23E-04	2.54E-04	1.66E-04	2.36E-04	1.16E-04
4316	564824.6	4222527	0.001676	0.002216	7.94E-04	8.88E-04	2.43E-03	7.94E-04	2.20E-04	4.33E-04	2.60E-04	1.70E-04	2.41E-04	1.19E-04
4317	564796.9	4222479	0.001797	0.002376	8.51E-04	9.53E-04	2.61E-03	8.51E-04	2.36E-04	4.64E-04	2.79E-04	1.83E-04	2.58E-04	1.27E-04
4318	564790	4222466	0.00182	0.002407	8.62E-04	9.65E-04	2.64E-03	8.62E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
4319	565318.8	4222916	0.000402	0.000532	1.91E-04	2.13E-04	5.83E-04	1.91E-04	5.28E-05	1.04E-04	6.23E-05	4.09E-05	5.78E-05	2.84E-05
4320	565305.3	4222913	0.000404	0.000535	1.92E-04	2.14E-04	5.86E-04	1.92E-04	5.31E-05	1.04E-04	6.27E-05	4.11E-05	5.82E-05	2.86E-05
4321	565291.8	4222909	0.000407	0.000539	1.93E-04	2.16E-04	5.91E-04	1.93E-04	5.35E-05	1.05E-04	6.31E-05	4.14E-05	5.86E-05	2.88E-05
4322	565264.7	4222901	0.000415	0.000549	1.97E-04	2.20E-04	6.01E-04	1.97E-04	5.45E-05	1.07E-04	6.43E-05	4.22E-05	5.97E-05	2.93E-05
4323	565251.2	4222897	0.000419	0.000555	1.99E-04	2.22E-04	6.08E-04	1.99E-04	5.51E-05	1.08E-04	6.50E-05	4.26E-05	6.03E-05	2.97E-05
4324	565237.7	4222893	0.000424	0.000561	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.58E-05	4.31E-05	6.10E-05	3.00E-05
4325	565224.2	4222890	0.00043	0.000568	2.04E-04	2.28E-04	6.23E-04	2.04E-04	5.64E-05	1.11E-04	6.66E-05	4.37E-05	6.18E-05	3.04E-05
4326	565210.7	4222886	0.000436	0.000576	2.06E-04	2.31E-04	6.31E-04	2.06E-04	5.72E-05	1.13E-04	6.75E-05	4.43E-05	6.26E-05	3.08E-05
4327	565183.7	4222878	0.000448	0.000592	2.12E-04	2.37E-04	6.49E-04	2.12E-04	5.88E-05	1.16E-04	6.94E-05	4.55E-05	6.44E-05	3.17E-05
4328	565170.2	4222874	0.000454	0.000601	2.15E-04	2.41E-04	6.59E-04	2.15E-04	5.97E-05	1.17E-04	7.04E-05	4.62E-05	6.53E-05	3.21E-05
4329	565156.7	4222871	0.000461	0.00061	2.18E-04	2.44E-04	6.68E-04	2.18E-04	6.05E-05	1.19E-04	7.15E-05	4.68E-05	6.63E-05	3.26E-05
4330	565143.2	4222867	0.000468	0.000619	2.22E-04	2.48E-04	6.79E-04	2.22E-04	6.15E-05	1.21E-04	7.26E-05	4.76E-05	6.73E-05	3.31E-05
4331	565116.1	4222859	0.000483	0.000639	2.29E-04	2.56E-04	7.01E-04	2.29E-04	6.35E-05	1.25E-04	7.49E-05	4.91E-05	6.95E-05	3.42E-05
4332	565102.6	4222855	0.000491	0.00065	2.33E-04	2.60E-04	7.12E-04	2.33E-04	6.45E-05	1.27E-04	7.61E-05	4.99E-05	7.07E-05	3.47E-05
4333	565089.1	4222851	0.0005	0.000661	2.37E-04	2.65E-04	7.24E-04	2.37E-04	6.56E-05	1.29E-04	7.75E-05	5.08E-05	7.19E-05	3.53E-05
4334	565075.6	4222848	0.000508	0.000672	2.41E-04	2.70E-04	7.37E-04	2.41E-04	6.68E-05	1.31E-04	7.88E-05	5.17E-05	7.31E-05	3.60E-05
4335	565062.1	4222844	0.000517	0.000684	2.45E-04	2.74E-04	7.50E-04	2.45E-04	6.79E-05	1.34E-04	8.02E-05	5.26E-05	7.44E-05	3.66E-05
4336	565048.6	4222840	0.000527	0.000696	2.50E-04	2.79E-04	7.64E-04	2.50E-04	6.92E-05	1.36E-04	8.16E-05	5.35E-05	7.58E-05	3.72E-05
4337	565021.6	4222832	0.000546	0.000722	2.59E-04	2.90E-04	7.92E-04	2.59E-04	7.17E-05	1.41E-04	8.47E-05	5.55E-05	7.86E-05	3.86E-05
4338	565008.1	4222829	0.000556	0.000736	2.64E-04	2.95E-04	8.07E-04	2.64E-04	7.31E-05	1.44E-04	8.63E-05	5.66E-05	8.00E-05	3.94E-05
4339	564994.6	4222825	0.000567	0.00075	2.69E-04	3.01E-04	8.22E-04	2.69E-04	7.44E-05	1.46E-04	8.79E-05	5.76E-05	8.15E-05	4.01E-05
4340	564981.1	4222821	0.000577	0.000763	2.73E-04	3.06E-04	8.37E-04	2.73E-04	7.58E-05	1.49E-04	8.95E-05	5.87E-05	8.30E-05	4.08E-05
4341	564964.1	4222811	0.000603	0.000798	2.86E-04	3.20E-04	8.75E-04	2.86E-04	7.92E-05	1.56E-04	9.35E-05	6.13E-05	8.68E-05	4.27E-05
4342	564957.2	4222799	0.000636	0.000841	3.01E-04	3.37E-04	9.22E-04	3.01E-04	8.35E-05	1.64E-04	9.86E-05	6.46E-05	9.15E-05	4.50E-05
4343	564950.2	4222787	0.000671	0.000888	3.18E-04	3.56E-04	9.73E-04	3.18E-04	8.81E-05	1.73E-04	1.04E-04	6.82E-05	9.65E-05	4.75E-05
4344	564943.3	4222774	0.000708	0.000937	3.36E-04	3.76E-04	1.03E-03	3.36E-04	9.30E-05	1.83E-04	1.10E-04	7.20E-05	1.02E-04	5.01E-05
4345	564936.4	4222762	0.000748	0.000989	3.54E-04	3.97E-04	1.08E-03	3.54E-04	9.82E-05	1.93E-04	1.16E-04	7.60E-05	1.08E-04	5.29E-05
4346	564929.5	4222750	0.000789	0.001044	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.02E-05	1.14E-04	5.58E-05
4347	564922.6	4222738	0.000833	0.001101	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.46E-05	1.20E-04	5.89E-05
4348	564915.6	4222725	0.000878	0.001161	4.16E-04	4.65E-04	1.27E-03	4.16E-04	1.15E-04	2.27E-04	1.36E-04	8.92E-05	1.26E-04	6.21E-05
4349	564908.7	4222713	0.000924	0.001222	4.38E-04	4.90E-04	1.34E-03	4.38E-04	1.21E-04	2.39E-04	1.43E-04	9.39E-05	1.33E-04	6.54E-05
4350	564901.8	4222701	0.000972	0.001285	4.60E-04	5.15E-04	1.41E-03	4.60E-04	1.28E-04	2.51E-04	1.51E-04	9.88E-05	1.40E-04	6.87E-05
4351	564894.9	4222689	0.001021	0.00135	4.83E-04	5.41E-04	1.48E-03	4.83E-04	1.34E-04	2.64E-04	1.58E-04	1.04E-04	1.47E-04	7.22E-05
4352	564887.9	4222677	0.00107	0.001415	5.07E-04	5.67E-04	1.55E-03	5.07E-04	1.40E-04	2.76E-04	1.66E-04	1.09E-04	1.54E-04	7.57E-05
4353	564881	4222664	0.00112	0.001481	5.30E-04	5.94E-04	1.62E-03	5.30E-04	1.47E-04	2.89E-04	1.74E-04	1.14E-04	1.61E-04	7.92E-05
4354	564874.1	4222652	0.001169	0.001546	5.54E-04	6.20E-04	1.70E-03	5.54E-04	1.54E-04	3.02E-04	1.81E-04	1.19E-04	1.68E-04	8.27E-05
4355	564867.2	4222640	0.001219	0.001612	5.77E-04	6.46E-04	1.77E-03	5.77E-04	1.60E-04	3.15E-04	1.89E-04	1.24E-04	1.75E-04	8.62E-05
4356	564860.2	4222628	0.001267	0.001676	6.00E-04	6.72E-04	1.84E-03	6.00E-04	1.66E-04	3.27E-04	1.96E-04	1.29E-04	1.82E-04	8.96E-05
4357	564853.3	4222616	0.001315	0.001739	6.23E-04	6.97E-04	1.91E-03	6.23E-04	1.73E-04	3.40E-04	2.04E-04	1.34E-04	1.89E-04	9.30E-05
4358	564846.4	4222603	0.001361	0.0018	6.45E-04	7.22E-04	1.97E-03	6.45E-04	1.79E-04	3.52E-04	2.11E-04	1.38E-04	1.96E-04	9.63E-05
4359	564839.5	4222591	0.001406	0.00186	6.66E-04	7.46E-04	2.04E-03	6.66E-04	1.85E-04	3.63E-04	2.18E-04	1.43E-04	2.02E-04	9.95E-05
4360	564832.5	4222579	0.00145	0.001917	6.87E-04	7.69E-04	2.10E-03	6.87E-04	1.90E-04	3.74E-04	2.25E-04	1.47E-04	2.09E-04	1.03E-04
4361	564825.6	4222567	0.00149	0.001971	7.06E-04	7.90E-04	2.16E-03	7.06E-04	1.96E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
4362	564818.7	4222555	0.001529	0.002021	7.24E-04	8.10E-04	2.22E-03	7.24E-04	2.01E-04	3.95E-04	2.37E-04	1.55E-04	2.20E-04	1.08E-04
4363	564811.8	4222542	0.001565	0.002069	7.41E-04	8.30E-04	2.27E-03	7.41E-04	2.05E-04	4.04E-04	2.43E-04	1.59E-04	2.25E-04	1.11E-04
4364	564784.1	4222493	0.001686	0.00223	7.99E-04	8.94E-04	2.44E-03	7.99E-04	2.21E-04	4.36E-04	2.61E-04	1.71E-04	2.43E-04	1.19E-04
4365	564777.1	4222481	0.00171	0.002261	8.10E-04	9.06E-04	2.48E-03	8.10E-04	2.25E-04	4.42E-04	2.65E-04	1.74E-04	2.46E-04	1.21E-04

4366	564770.2	4222469	0.001731	0.002289	8.20E-04	9.18E-04	2.51E-03	8.20E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
4367	565320.9	4222936	0.000378	0.000501	1.79E-04	2.01E-04	5.49E-04	1.79E-04	4.97E-05	9.78E-05	5.87E-05	3.85E-05	5.44E-05	2.68E-05
4368	565307.4	4222932	0.00038	0.000503	1.80E-04	2.02E-04	5.52E-04	1.80E-04	5.00E-05	9.83E-05	5.90E-05	3.87E-05	5.47E-05	2.69E-05
4369	565293.8	4222929	0.000383	0.000506	1.81E-04	2.03E-04	5.55E-04	1.81E-04	5.03E-05	9.89E-05	5.93E-05	3.89E-05	5.51E-05	2.71E-05
4370	565266.7	4222921	0.000389	0.000515	1.84E-04	2.06E-04	5.64E-04	1.84E-04	5.11E-05	1.01E-04	6.03E-05	3.96E-05	5.60E-05	2.75E-05
4371	565253.2	4222917	0.000393	0.00052	1.86E-04	2.08E-04	5.70E-04	1.86E-04	5.16E-05	1.02E-04	6.09E-05	4.00E-05	5.66E-05	2.78E-05
4372	565239.7	4222913	0.000398	0.000526	1.88E-04	2.11E-04	5.76E-04	1.88E-04	5.22E-05	1.03E-04	6.16E-05	4.04E-05	5.72E-05	2.81E-05
4373	565226.1	4222909	0.000402	0.000532	1.91E-04	2.13E-04	5.83E-04	1.91E-04	5.28E-05	1.04E-04	6.24E-05	4.09E-05	5.79E-05	2.85E-05
4374	565212.6	4222906	0.000407	0.000539	1.93E-04	2.16E-04	5.91E-04	1.93E-04	5.35E-05	1.05E-04	6.31E-05	4.14E-05	5.86E-05	2.88E-05
4375	565185.5	4222898	0.000418	0.000553	1.98E-04	2.22E-04	6.06E-04	1.98E-04	5.49E-05	1.08E-04	6.49E-05	4.25E-05	6.02E-05	2.96E-05
4376	565171.9	4222894	0.000424	0.000561	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.57E-05	4.31E-05	6.10E-05	3.00E-05
4377	565158.4	4222890	0.00043	0.000569	2.04E-04	2.28E-04	6.24E-04	2.04E-04	5.65E-05	1.11E-04	6.67E-05	4.37E-05	6.19E-05	3.04E-05
4378	565144.8	4222886	0.000436	0.000577	2.07E-04	2.31E-04	6.33E-04	2.07E-04	5.73E-05	1.13E-04	6.76E-05	4.43E-05	6.28E-05	3.09E-05
4379	565117.7	4222879	0.00045	0.000595	2.13E-04	2.38E-04	6.52E-04	2.13E-04	5.90E-05	1.16E-04	6.97E-05	4.57E-05	6.47E-05	3.18E-05
4380	565104.2	4222875	0.000457	0.000604	2.16E-04	2.42E-04	6.62E-04	2.16E-04	6.00E-05	1.18E-04	7.08E-05	4.64E-05	6.57E-05	3.23E-05
4381	565090.7	4222871	0.000464	0.000613	2.20E-04	2.46E-04	6.73E-04	2.20E-04	6.09E-05	1.20E-04	7.19E-05	4.71E-05	6.67E-05	3.28E-05
4382	565077.1	4222867	0.000471	0.000623	2.23E-04	2.50E-04	6.83E-04	2.23E-04	6.19E-05	1.22E-04	7.31E-05	4.79E-05	6.78E-05	3.33E-05
4383	565063.6	4222863	0.000479	0.000634	2.27E-04	2.54E-04	6.95E-04	2.27E-04	6.29E-05	1.24E-04	7.43E-05	4.87E-05	6.89E-05	3.39E-05
4384	565050	4222860	0.000487	0.000645	2.31E-04	2.58E-04	7.07E-04	2.31E-04	6.40E-05	1.26E-04	7.56E-05	4.95E-05	7.01E-05	3.45E-05
4385	565022.9	4222852	0.000505	0.000667	2.39E-04	2.68E-04	7.32E-04	2.39E-04	6.63E-05	1.30E-04	7.82E-05	5.13E-05	7.26E-05	3.57E-05
4386	565009.4	4222848	0.000514	0.000679	2.43E-04	2.72E-04	7.45E-04	2.43E-04	6.75E-05	1.33E-04	7.96E-05	5.22E-05	7.39E-05	3.63E-05
4387	564995.8	4222844	0.000523	0.000691	2.48E-04	2.77E-04	7.58E-04	2.48E-04	6.87E-05	1.35E-04	8.11E-05	5.31E-05	7.52E-05	3.70E-05
4388	564982.3	4222840	0.000532	0.000704	2.52E-04	2.82E-04	7.72E-04	2.52E-04	6.99E-05	1.38E-04	8.25E-05	5.41E-05	7.66E-05	3.76E-05
4389	564968.8	4222837	0.000542	0.000717	2.57E-04	2.87E-04	7.86E-04	2.57E-04	7.12E-05	1.40E-04	8.40E-05	5.51E-05	7.79E-05	3.83E-05
4390	564951.7	4222827	0.000566	0.000748	2.68E-04	3.00E-04	8.20E-04	2.68E-04	7.43E-05	1.46E-04	8.77E-05	5.75E-05	8.14E-05	4.00E-05
4391	564944.8	4222814	0.000596	0.000788	2.82E-04	3.16E-04	8.63E-04	2.82E-04	7.82E-05	1.54E-04	9.23E-05	6.05E-05	8.57E-05	4.21E-05
4392	564937.9	4222802	0.000628	0.00083	2.97E-04	3.33E-04	9.10E-04	2.97E-04	8.24E-05	1.62E-04	9.73E-05	6.38E-05	9.03E-05	4.44E-05
4393	564930.9	4222790	0.000662	0.000875	3.13E-04	3.51E-04	9.59E-04	3.13E-04	8.69E-05	1.71E-04	1.03E-04	6.72E-05	9.52E-05	4.68E-05
4394	564924	4222778	0.000698	0.000923	3.30E-04	3.70E-04	1.01E-03	3.30E-04	9.16E-05	1.80E-04	1.08E-04	7.09E-05	1.00E-04	4.93E-05
4395	564917	4222765	0.000735	0.000973	3.48E-04	3.90E-04	1.07E-03	3.48E-04	9.66E-05	1.90E-04	1.14E-04	7.47E-05	1.06E-04	5.20E-05
4396	564910.1	4222753	0.000775	0.001025	3.67E-04	4.11E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.88E-05	1.11E-04	5.48E-05
4397	564903.1	4222741	0.000816	0.00108	3.87E-04	4.33E-04	1.18E-03	3.87E-04	1.07E-04	2.11E-04	1.27E-04	8.30E-05	1.17E-04	5.77E-05
4398	564896.2	4222729	0.000859	0.001136	4.07E-04	4.55E-04	1.25E-03	4.07E-04	1.13E-04	2.22E-04	1.33E-04	8.73E-05	1.24E-04	6.07E-05
4399	564889.3	4222716	0.000903	0.001194	4.28E-04	4.79E-04	1.31E-03	4.28E-04	1.19E-04	2.33E-04	1.40E-04	9.18E-05	1.30E-04	6.39E-05
4400	564882.3	4222704	0.000948	0.001254	4.49E-04	5.03E-04	1.37E-03	4.49E-04	1.24E-04	2.45E-04	1.47E-04	9.63E-05	1.36E-04	6.70E-05
4401	564875.4	4222692	0.000994	0.001314	4.71E-04	5.27E-04	1.44E-03	4.71E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.03E-05
4402	564868.4	4222680	0.00104	0.001375	4.93E-04	5.51E-04	1.51E-03	4.93E-04	1.37E-04	2.69E-04	1.61E-04	1.06E-04	1.50E-04	7.35E-05
4403	564861.5	4222667	0.001086	0.001437	5.15E-04	5.76E-04	1.57E-03	5.15E-04	1.43E-04	2.81E-04	1.68E-04	1.10E-04	1.56E-04	7.68E-05
4404	564854.5	4222655	0.001132	0.001498	5.37E-04	6.00E-04	1.64E-03	5.37E-04	1.49E-04	2.93E-04	1.76E-04	1.15E-04	1.63E-04	8.01E-05
4405	564840.7	4222631	0.001223	0.001618	5.80E-04	6.49E-04	1.77E-03	5.80E-04	1.61E-04	3.16E-04	1.90E-04	1.24E-04	1.76E-04	8.65E-05
4406	564833.7	4222619	0.001267	0.001676	6.00E-04	6.72E-04	1.84E-03	6.00E-04	1.66E-04	3.27E-04	1.96E-04	1.29E-04	1.82E-04	8.96E-05
4407	564826.8	4222606	0.00131	0.001733	6.21E-04	6.95E-04	1.90E-03	6.21E-04	1.72E-04	3.38E-04	2.03E-04	1.33E-04	1.88E-04	9.26E-05
4408	564819.8	4222594	0.001351	0.001787	6.40E-04	7.16E-04	1.96E-03	6.40E-04	1.77E-04	3.49E-04	2.09E-04	1.37E-04	1.94E-04	9.56E-05
4409	564812.9	4222582	0.001391	0.00184	6.59E-04	7.37E-04	2.02E-03	6.59E-04	1.83E-04	3.59E-04	2.16E-04	1.41E-04	2.00E-04	9.84E-05
4410	564799	4222557	0.001463	0.001935	6.93E-04	7.76E-04	2.12E-03	6.93E-04	1.92E-04	3.78E-04	2.27E-04	1.49E-04	2.10E-04	1.03E-04
4411	564792.1	4222545	0.001496	0.001979	7.09E-04	7.93E-04	2.17E-03	7.09E-04	1.96E-04	3.87E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
4412	564785.1	4222533	0.001527	0.00202	7.24E-04	8.10E-04	2.21E-03	7.24E-04	2.01E-04	3.95E-04	2.37E-04	1.55E-04	2.20E-04	1.08E-04
4413	564778.2	4222521	0.001556	0.002058	7.37E-04	8.25E-04	2.26E-03	7.37E-04	2.04E-04	4.02E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
4414	564757.3	4222484	0.001629	0.002154	7.72E-04	8.63E-04	2.36E-03	7.72E-04	2.14E-04	4.21E-04	2.52E-04	1.66E-04	2.34E-04	1.15E-04
4415	564750.4	4222472	0.001648	0.002179	7.81E-04	8.74E-04	2.39E-03	7.81E-04	2.16E-04	4.26E-04	2.55E-04	1.67E-04	2.37E-04	1.17E-04
4416	565323.1	4222956	0.000357	0.000472	1.69E-04	1.89E-04	5.18E-04	1.69E-04	4.69E-05	9.23E-05	5.54E-05	3.63E-05	5.14E-05	2.53E-05
4417	565309.5	4222952	0.000359	0.000474	1.70E-04	1.90E-04	5.20E-04	1.70E-04	4.71E-05	9.27E-05	5.56E-05	3.65E-05	5.16E-05	2.54E-05
4418	565295.9	4222948	0.000361	0.000477	1.71E-04	1.91E-04	5.23E-04	1.71E-04	4.74E-05	9.32E-05	5.59E-05	3.67E-05	5.19E-05	2.55E-05
4419	565268.8	4222941	0.000366	0.000484	1.73E-04	1.94E-04	5.31E-04	1.73E-04	4.81E-05	9.46E-05	5.68E-05	3.72E-05	5.27E-05	2.59E-05
4420	565255.2	4222937	0.00037	0.000489	1.75E-04	1.96E-04	5.36E-04	1.75E-04	4.85E-05	9.55E-05	5.73E-05	3.76E-05	5.32E-05	2.61E-05
4421	565241.6	4222933	0.000373	0.000494	1.77E-04	1.98E-04	5.41E-04	1.77E-04	4.90E-05	9.65E-05	5.79E-05	3.79E-05	5.37E-05	2.64E-05
4422	565228	4222929	0.000378	0.000499	1.79E-04	2.00E-04	5.47E-04	1.79E-04	4.96E-05	9.75E-05	5.85E-05	3.84E-05	5.43E-05	2.67E-05
4423	565214.4	4222925	0.000382	0.000505	1.81E-04	2.03E-04	5.54E-04	1.81E-04	5.02E-05	9.87E-05	5.92E-05	3.88E-05	5.50E-05	2.70E-05
4424	565187.3	4222918	0.000392	0.000518	1.86E-04	2.08E-04	5.68E-04	1.86E-04	5.15E-05	1.01E-04	6.07E-05	3.98E-05	5.64E-05	2.77E-05
4425	565173.7	4222914	0.000397	0.000525	1.88E-04	2.11E-04	5.76E-04	1.88E-04	5.21E-05	1.03E-04	6.16E-05	4.04E-05	5.71E-05	2.81E-05
4426	565160.1	4222910	0.000403	0.000532	1.91E-04	2.13E-04	5.84E-04	1.91E-04	5.29E-05	1.04E-04	6.24E-05	4.09E-05	5.79E-05	2.85E-05
4427	565146.6	4222906	0.000408	0.00054	1.93E-04	2.16E-04	5.92E-04	1.93E-04	5.36E-05	1.05E-04	6.33E-05	4.15E-05	5.87E-05	2.89E-05
4428	565133	4222902	0.000414	0.000547	1.96E-04	2.19E-04	6.00E-04	1.96E-04	5.43E-05	1.07E-04	6.41E-05	4.21E-05	5.95E-05	2.93E-05
4429	565119.4	4222898	0.00042	0.000555	1.99E-04	2.23E-04	6.09E-04	1.99E-04	5.51E-05	1.08E-04	6.51E-05	4.27E-05	6.04E-05	2.97E-05
4430	565105.8	4222895	0.000426	0.000563	2.02E-04	2.26E-04	6.17E-04	2.02E-04	5.59E-05	1.10E-04	6.60E-05	4.33E-05	6.13E-05	3.01E-05
4431	565092.2	4222891	0.000432	0.000572	2.05E-04	2.29E-04	6.27E-04	2.05E-04	5.68E-05	1.12E-04	6.70E-05	4.39E-05	6.22E-05	3.06E-05
4432	565078.7	4222887	0.000439	0.00058	2.08E-04	2.33E-04	6.36E-04	2.08E-04	5.76E-05	1.13E-04	6.80E-05	4.46E-05	6.31E-05	3.10E-05
4433	565065.1	4222883	0.000446	0.000589	2.11E-04	2.36E-04	6.46E-04	2.11E-04	5.85E-05	1.15E-04	6.91E-05	4.53E-05	6.41E-05	3.15E-05
4434	565051.5	4222879	0.000453	0.000599	2.14E-04	2.40E-04	6.56E-04	2.14E-04	5.95E-05	1.17E-04	7.02E-05	4.60E-05	6.51E-05	3.20E-05
4435	565024.3	4222872	0.000468	0.000619	2.22E-04	2.48E-04	6.78E-04	2.22E-04	6.14E-05	1.21E-04	7.25E-05	4.75E-05	6.73E-05	3.31E-05
4436	565010.8	4222868	0.000476	0.000629	2.25E-04	2.52E-04	6.90E-04	2.25E-04	6.25E-05	1.23E-04	7.37E-05	4.83E-05	6.84E-05	3.36E-05
4437	564997.2	4222864	0.000484	0.00064	2.29E-04	2.57E-04	7.02E-04	2.29E-04	6.36E-05	1.25E-04	7.50E-05	4.92E-05	6.96E-05	3.42E-05
4438	564983.6	4222860	0.000492	0.000651	2.33E-04	2.61E-04	7.14E-04	2.33E-04	6.47E-05	1.27E-04	7.63E-05	5.00E-05	7.08E-05	3.48E-05
4439	564970	4222856	0.000501	0.000663	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.77E-05	5.09E-05	7.21E-05	3.54E-05
4440	564956.4	4222852	0.00051	0.000674	2.42E-04	2.70E-04	7.39E-04	2.42E-04	6.70E-05	1.32E-04	7.90E-05	5.18E-05	7.33E-05	3.61E-05
4441	564939.4	4222842	0.000532	0.000703	2.52E-04	2.82E-04	7.71E-04	2.52E-04	6.98E-05	1.37E-04	8.24E-05	5.40E-05	7.65E-05	3.76E-05
4442	564932.4	4222830	0.000559	0.000739	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.34E-05	1.44E-04	8.67E-05	5.68E-05	8.04E-05	3.95E-05
4443	564925.5	4222818	0.000588	0.000778	2.79E-04	3.12E-04	8.53E-04	2.79E-04	7.73E-05	1.52E-04	9.12E-05	5.98E-05	8.46E-05	4.16E-05
4444	564918.5	4222806	0.000619	0.000819	2.93E-04	3.28E-04	8.98E-04	2.93E-04	8.13E-05	1.60E-04	9.60E-05	6.29E-05	8.91E-05	4.38E-05
4445	564911.5	4222793	0.000652	0.000863	3.09E-04	3.46E-04	9.46E-04	3.09E-04	8.57E-05	1.69E-04	1.01E-04	6.63E-05	9.38E-05	4.61E-05
4446	564904.6	4222781	0.000687	0.000908	3.25E-04	3.64E-04	9.96E-04	3.25E-04	9.02E-05	1.77E-04	1.06E-04	6.98E-05	9.88E-05	4.86E-05
4447	564897.6	4222769	0.000723	0.000956	3.43E-04	3.83E-04	1.05E-03	3.43E-04	9.50E-05	1.87E-04	1.12E-04	7.35E-05	1.04E-04	5.11E-05
4448	564890.7	4222756	0.000761	0.001007	3.61E-04	4.04E-04	1.10E-03	3.61E-04	9.99E-05	1.97E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05
4449	564883.7	4222744	0.0008	0.001059	3.79E-04	4.24E-04	1.16E-03	3.79E-04	1.05E-04	2.07E-04	1.24E-04	8.13E-05	1.15E-04	5.66E-05
4450	564876.7	4222732	0.000841	0.001112	3.98E-04	4.46E-04	1.22E-03	3.98E-04	1.10E-04	2.17E-04	1.30E-04	8.55E-05	1.21E-04	5.95E-05
4451	564869.8	4222720	0.000882	0.001167	4.18E-04	4.68E-04	1.28E-03	4.18E-04	1.16E-04	2.28E-04	1.37E-04	8.97E-05	1.27E-04	6.24E-05
4452	564862.8	4222707	0.000925	0.001223	4.38E-04	4.90E-04	1.34E-03	4.38E-04	1.21E-04	2.39E-04	1.43E-04	9.40E-05	1.33E-04	6.54E-05
4453	564855.9	4222695	0.000968	0.00128	4.59E-04	5.13E-04	1.40E-03	4.59E-04	1.27E-04	2.50E-04	1.50E-04	9.84E-05	1.39E-04	6.84E-05
4454	564848.9	4222683	0.001011	0.001337	4.79E-04	5.36E-04	1.47E-03	4.79E-04	1.33E-04	2.61E-04	1.57E-04	1.03E-04	1.45E-04	7.15E-05
4455	564841.9	4222671	0.001054	0.001394	4.99E-04	5.59E-04	1.53E-03	4.99E-04	1.38E-04	2.72E-04	1.63E-04	1.07E-04	1.52E-04	7.46E-05
4456	564835	4222658	0.001097	0.001451	5.20E-04	5.82E-04	1.59E-03	5.20E-04	1.44E-04	2.83E-04	1.70E-04	1.12E-04	1.58E-04	7.76E-05

4457	564821.1	4222634	0.001182	0.001563	5.60E-04	6.26E-04	1.71E-03	5.60E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.36E-05
4458	564800.2	4222597	0.0013	0.001719	6.16E-04	6.89E-04	1.88E-03	6.16E-04	1.71E-04	3.36E-04	2.01E-04	1.32E-04	1.87E-04	9.19E-05
4459	564793.2	4222585	0.001336	0.001767	6.33E-04	7.08E-04	1.94E-03	6.33E-04	1.75E-04	3.45E-04	2.07E-04	1.36E-04	1.92E-04	9.45E-05
4460	564786.3	4222572	0.00137	0.001812	6.49E-04	7.27E-04	1.99E-03	6.49E-04	1.80E-04	3.54E-04	2.12E-04	1.39E-04	1.97E-04	9.69E-05
4461	564779.3	4222560	0.001402	0.001855	6.64E-04	7.44E-04	2.03E-03	6.64E-04	1.84E-04	3.62E-04	2.17E-04	1.43E-04	2.02E-04	9.92E-05
4462	564772.3	4222548	0.001432	0.001894	6.79E-04	7.59E-04	2.08E-03	6.79E-04	1.88E-04	3.70E-04	2.22E-04	1.46E-04	2.06E-04	1.01E-04
4463	564765.4	4222535	0.001461	0.001932	6.92E-04	7.75E-04	2.12E-03	6.92E-04	1.92E-04	3.77E-04	2.27E-04	1.48E-04	2.10E-04	1.03E-04
4464	564758.4	4222523	0.001488	0.001967	7.05E-04	7.89E-04	2.16E-03	7.05E-04	1.95E-04	3.84E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
4465	564737.5	4222486	0.001554	0.002055	7.36E-04	8.24E-04	2.25E-03	7.36E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.23E-04	1.10E-04
4466	565325.2	4222976	0.000338	0.000447	1.60E-04	1.79E-04	4.90E-04	1.60E-04	4.43E-05	8.72E-05	5.23E-05	3.43E-05	4.86E-05	2.39E-05
4467	565311.6	4222972	0.000339	0.000448	1.61E-04	1.80E-04	4.91E-04	1.61E-04	4.45E-05	8.76E-05	5.26E-05	3.45E-05	4.88E-05	2.40E-05
4468	565298	4222968	0.000341	0.000451	1.61E-04	1.81E-04	4.94E-04	1.61E-04	4.47E-05	8.80E-05	5.28E-05	3.46E-05	4.90E-05	2.41E-05
4469	565270.8	4222960	0.000345	0.000457	1.64E-04	1.83E-04	5.01E-04	1.64E-04	4.53E-05	8.92E-05	5.35E-05	3.51E-05	4.97E-05	2.44E-05
4470	565257.2	4222957	0.000348	0.000461	1.65E-04	1.85E-04	5.05E-04	1.65E-04	4.57E-05	9.00E-05	5.40E-05	3.54E-05	5.01E-05	2.46E-05
4471	565243.6	4222953	0.000352	0.000465	1.67E-04	1.86E-04	5.10E-04	1.67E-04	4.62E-05	9.08E-05	5.45E-05	3.57E-05	5.06E-05	2.49E-05
4472	565230	4222949	0.000355	0.00047	1.68E-04	1.88E-04	5.15E-04	1.68E-04	4.67E-05	9.18E-05	5.51E-05	3.61E-05	5.11E-05	2.51E-05
4473	565216.4	4222945	0.000359	0.000475	1.70E-04	1.90E-04	5.21E-04	1.70E-04	4.72E-05	9.28E-05	5.57E-05	3.65E-05	5.17E-05	2.54E-05
4474	565189.1	4222937	0.000368	0.000487	1.74E-04	1.95E-04	5.34E-04	1.74E-04	4.83E-05	9.51E-05	5.71E-05	3.74E-05	5.29E-05	2.60E-05
4475	565175.5	4222934	0.000373	0.000493	1.77E-04	1.98E-04	5.40E-04	1.77E-04	4.89E-05	9.63E-05	5.78E-05	3.79E-05	5.36E-05	2.64E-05
4476	565161.9	4222930	0.000378	0.000499	1.79E-04	2.00E-04	5.47E-04	1.79E-04	4.96E-05	9.75E-05	5.85E-05	3.84E-05	5.43E-05	2.67E-05
4477	565148.3	4222926	0.000383	0.000506	1.81E-04	2.03E-04	5.55E-04	1.81E-04	5.02E-05	9.88E-05	5.93E-05	3.89E-05	5.50E-05	2.71E-05
4478	565134.7	4222922	0.000388	0.000513	1.84E-04	2.06E-04	5.62E-04	1.84E-04	5.09E-05	1.00E-04	6.01E-05	3.94E-05	5.58E-05	2.74E-05
4479	565107.5	4222914	0.000398	0.000527	1.89E-04	2.11E-04	5.78E-04	1.89E-04	5.23E-05	1.03E-04	6.18E-05	4.05E-05	5.73E-05	2.82E-05
4480	565093.9	4222910	0.000404	0.000534	1.91E-04	2.14E-04	5.86E-04	1.91E-04	5.31E-05	1.04E-04	6.26E-05	4.11E-05	5.81E-05	2.86E-05
4481	565080.2	4222907	0.00041	0.000542	1.94E-04	2.17E-04	5.94E-04	1.94E-04	5.38E-05	1.06E-04	6.35E-05	4.16E-05	5.89E-05	2.90E-05
4482	565066.6	4222903	0.000416	0.00055	1.97E-04	2.20E-04	6.03E-04	1.97E-04	5.46E-05	1.07E-04	6.45E-05	4.23E-05	5.98E-05	2.94E-05
4483	565053	4222899	0.000422	0.000558	2.00E-04	2.24E-04	6.12E-04	2.00E-04	5.54E-05	1.09E-04	6.54E-05	4.29E-05	6.07E-05	2.98E-05
4484	565025.8	4222891	0.000435	0.000576	2.06E-04	2.31E-04	6.31E-04	2.06E-04	5.72E-05	1.12E-04	6.75E-05	4.42E-05	6.26E-05	3.08E-05
4485	565012.2	4222887	0.000442	0.000585	2.09E-04	2.34E-04	6.41E-04	2.09E-04	5.81E-05	1.14E-04	6.85E-05	4.49E-05	6.36E-05	3.13E-05
4486	564998.6	4222884	0.000449	0.000594	2.13E-04	2.38E-04	6.52E-04	2.13E-04	5.90E-05	1.16E-04	6.97E-05	4.57E-05	6.46E-05	3.18E-05
4487	564985	4222880	0.000457	0.000604	2.16E-04	2.42E-04	6.62E-04	2.16E-04	6.00E-05	1.18E-04	7.08E-05	4.64E-05	6.57E-05	3.23E-05
4488	564971.4	4222876	0.000465	0.000615	2.20E-04	2.46E-04	6.74E-04	2.20E-04	6.10E-05	1.20E-04	7.20E-05	4.72E-05	6.68E-05	3.29E-05
4489	564957.7	4222872	0.000473	0.000625	2.24E-04	2.51E-04	6.85E-04	2.24E-04	6.21E-05	1.22E-04	7.33E-05	4.80E-05	6.80E-05	3.34E-05
4490	564944.1	4222868	0.000481	0.000636	2.28E-04	2.55E-04	6.97E-04	2.28E-04	6.31E-05	1.24E-04	7.45E-05	4.89E-05	6.91E-05	3.40E-05
4491	564927	4222858	0.000501	0.000662	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.76E-05	5.09E-05	7.20E-05	3.54E-05
4492	564920.1	4222846	0.000526	0.000695	2.49E-04	2.79E-04	7.62E-04	2.49E-04	6.90E-05	1.36E-04	8.15E-05	5.34E-05	7.56E-05	3.72E-05
4493	564913.1	4222834	0.000553	0.000731	2.62E-04	2.93E-04	8.01E-04	2.62E-04	7.26E-05	1.43E-04	8.57E-05	5.62E-05	7.95E-05	3.91E-05
4494	564906.1	4222821	0.000581	0.000768	2.75E-04	3.08E-04	8.42E-04	2.75E-04	7.63E-05	1.50E-04	9.01E-05	5.91E-05	8.36E-05	4.11E-05
4495	564899.1	4222809	0.000611	0.000808	2.90E-04	3.24E-04	8.86E-04	2.90E-04	8.03E-05	1.58E-04	9.48E-05	6.21E-05	8.79E-05	4.32E-05
4496	564892.1	4222797	0.000643	0.00085	3.05E-04	3.41E-04	9.32E-04	3.05E-04	8.44E-05	1.66E-04	9.97E-05	6.53E-05	9.25E-05	4.55E-05
4497	564885.2	4222784	0.000676	0.000894	3.20E-04	3.59E-04	9.81E-04	3.20E-04	8.88E-05	1.75E-04	1.05E-04	6.87E-05	9.73E-05	4.78E-05
4498	564878.2	4222772	0.000711	0.000941	3.37E-04	3.77E-04	1.03E-03	3.37E-04	9.34E-05	1.84E-04	1.10E-04	7.23E-05	1.02E-04	5.03E-05
4499	564871.2	4222760	0.000747	0.000988	3.54E-04	3.96E-04	1.08E-03	3.54E-04	9.81E-05	1.93E-04	1.16E-04	7.59E-05	1.08E-04	5.29E-05
4500	564864.2	4222747	0.000785	0.001038	3.72E-04	4.16E-04	1.14E-03	3.72E-04	1.03E-04	2.03E-04	1.22E-04	7.98E-05	1.13E-04	5.55E-05
4501	564857.3	4222735	0.000823	0.001089	3.90E-04	4.36E-04	1.19E-03	3.90E-04	1.08E-04	2.13E-04	1.28E-04	8.37E-05	1.18E-04	5.82E-05
4502	564850.3	4222723	0.000863	0.001141	4.09E-04	4.57E-04	1.25E-03	4.09E-04	1.13E-04	2.23E-04	1.34E-04	8.77E-05	1.24E-04	6.10E-05
4503	564843.3	4222710	0.000902	0.001194	4.28E-04	4.78E-04	1.31E-03	4.28E-04	1.19E-04	2.33E-04	1.40E-04	9.17E-05	1.30E-04	6.38E-05
4504	564836.3	4222698	0.000943	0.001247	4.47E-04	5.00E-04	1.37E-03	4.47E-04	1.24E-04	2.44E-04	1.46E-04	9.58E-05	1.36E-04	6.67E-05
4505	564829.4	4222686	0.000983	0.0013	4.66E-04	5.21E-04	1.43E-03	4.66E-04	1.29E-04	2.54E-04	1.52E-04	9.99E-05	1.41E-04	6.95E-05
4506	564822.4	4222674	0.001024	0.001354	4.85E-04	5.43E-04	1.48E-03	4.85E-04	1.34E-04	2.64E-04	1.59E-04	1.04E-04	1.47E-04	7.24E-05
4507	564815.4	4222661	0.001064	0.001407	5.04E-04	5.64E-04	1.54E-03	5.04E-04	1.40E-04	2.75E-04	1.65E-04	1.08E-04	1.53E-04	7.52E-05
4508	564801.5	4222637	0.001142	0.00151	5.41E-04	6.05E-04	1.66E-03	5.41E-04	1.50E-04	2.95E-04	1.77E-04	1.16E-04	1.64E-04	8.07E-05
4509	564794.5	4222624	0.001179	0.00156	5.59E-04	6.25E-04	1.71E-03	5.59E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.34E-05
4510	564787.5	4222612	0.001216	0.001608	5.76E-04	6.45E-04	1.76E-03	5.76E-04	1.60E-04	3.14E-04	1.88E-04	1.24E-04	1.75E-04	8.60E-05
4511	564780.5	4222600	0.001251	0.001654	5.93E-04	6.63E-04	1.81E-03	5.93E-04	1.64E-04	3.23E-04	1.94E-04	1.27E-04	1.80E-04	8.85E-05
4512	564773.5	4222587	0.001284	0.001698	6.08E-04	6.81E-04	1.86E-03	6.08E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.08E-05
4513	564766.6	4222575	0.001316	0.00174	6.23E-04	6.98E-04	1.91E-03	6.23E-04	1.73E-04	3.40E-04	2.04E-04	1.34E-04	1.89E-04	9.31E-05
4514	564759.6	4222563	0.001346	0.00178	6.38E-04	7.13E-04	1.95E-03	6.38E-04	1.77E-04	3.48E-04	2.09E-04	1.37E-04	1.94E-04	9.52E-05
4515	564752.6	4222550	0.001374	0.001817	6.51E-04	7.28E-04	1.99E-03	6.51E-04	1.80E-04	3.55E-04	2.13E-04	1.40E-04	1.98E-04	9.71E-05
4516	564745.6	4222538	0.0014	0.001851	6.63E-04	7.42E-04	2.03E-03	6.63E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.01E-04	9.90E-05
4517	564738.7	4222526	0.001424	0.001883	6.74E-04	7.55E-04	2.06E-03	6.74E-04	1.87E-04	3.68E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
4518	564717.7	4222489	0.001484	0.001963	7.03E-04	7.87E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.13E-04	1.05E-04
4519	564710.8	4222477	0.001501	0.001984	7.11E-04	7.96E-04	2.18E-03	7.11E-04	1.97E-04	3.88E-04	2.33E-04	1.52E-04	2.16E-04	1.06E-04
4520	565318.1	4222992	0.000322	0.000426	1.53E-04	1.71E-04	4.67E-04	1.53E-04	4.23E-05	8.32E-05	4.99E-05	3.27E-05	4.63E-05	2.28E-05
4521	565214.4	4222859	0.000479	0.000634	2.27E-04	2.54E-04	6.95E-04	2.27E-04	6.30E-05	1.24E-04	7.43E-05	4.87E-05	6.90E-05	3.39E-05
4522	565191.5	4222956	0.000348	0.00046	1.65E-04	1.84E-04	5.04E-04	1.65E-04	4.56E-05	8.98E-05	5.39E-05	3.53E-05	5.00E-05	2.46E-05
4523	565186.9	4222976	0.000328	0.000434	1.56E-04	1.74E-04	4.76E-04	1.56E-04	4.31E-05	8.48E-05	5.09E-05	3.34E-05	4.72E-05	2.32E-05
4524	565119.1	4222869	0.000466	0.000616	2.21E-04	2.47E-04	6.75E-04	2.21E-04	6.12E-05	1.20E-04	7.22E-05	4.73E-05	6.70E-05	3.29E-05
4525	565111	4222887	0.000437	0.000578	2.07E-04	2.32E-04	6.33E-04	2.07E-04	5.74E-05	1.13E-04	6.77E-05	4.44E-05	6.28E-05	3.09E-05
4526	565102.9	4222905	0.000411	0.000543	1.95E-04	2.18E-04	5.95E-04	1.95E-04	5.39E-05	1.06E-04	6.36E-05	4.17E-05	5.91E-05	2.90E-05
4527	565091.9	4222922	0.000388	0.000514	1.84E-04	2.06E-04	5.63E-04	1.84E-04	5.10E-05	1.00E-04	6.02E-05	3.95E-05	5.59E-05	2.75E-05
4528	565083.9	4222941	0.000367	0.000485	1.74E-04	1.94E-04	5.32E-04	1.74E-04	4.81E-05	9.47E-05	5.68E-05	3.73E-05	5.27E-05	2.59E-05
4529	565182.2	4222656	0.001345	0.001779	6.37E-04	7.13E-04	1.95E-03	6.37E-04	1.77E-04	3.48E-04	2.09E-04	1.37E-04	1.94E-04	9.51E-05
4530	565170.8	4222673	0.001206	0.001595	5.71E-04	6.39E-04	1.75E-03	5.71E-04	1.58E-04	3.12E-04	1.87E-04	1.23E-04	1.73E-04	8.53E-05
4531	565159.4	4222689	0.001089	0.001441	5.16E-04	5.78E-04	1.58E-03	5.16E-04	1.43E-04	2.81E-04	1.69E-04	1.11E-04	1.57E-04	7.70E-05
4532	565141.7	4222701	0.001016	0.001344	4.81E-04	5.39E-04	1.47E-03	4.81E-04	1.33E-04	2.63E-04	1.58E-04	1.03E-04	1.46E-04	7.19E-05
4533	565130.3	4222718	0.000926	0.001225	4.39E-04	4.91E-04	1.34E-03	4.39E-04	1.22E-04	2.39E-04	1.44E-04	9.41E-05	1.33E-04	6.55E-05
4534	565118.9	4222734	0.000848	0.001121	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.11E-04	2.19E-04	1.31E-04	8.62E-05	1.22E-04	6.00E-05
4535	565107.5	4222751	0.00078	0.001031	3.69E-04	4.14E-04	1.13E-03	3.69E-04	1.02E-04	2.01E-04	1.21E-04	7.93E-05	1.12E-04	5.52E-05
4536	565096.1	4222767	0.00072	0.000953	3.41E-04	3.82E-04	1.04E-03	3.41E-04	9.46E-05	1.86E-04	1.12E-04	7.32E-05	1.04E-04	5.09E-05
4537	565084.7	4222783	0.000668	0.000883	3.16E-04	3.54E-04	9.68E-04	3.16E-04	8.77E-05	1.72E-04	1.03E-04	6.78E-05	9.60E-05	4.72E-05
4538	565055.6	4222812	0.000591	0.000781	2.80E-04	3.13E-04	8.57E-04	2.80E-04	7.76E-05	1.53E-04	9.16E-05	6.00E-05	8.50E-05	4.18E-05
4539	565026.5	4222840	0.000528	0.000698	2.50E-04	2.80E-04	7.65E-04	2.50E-04	6.93E-05	1.36E-04	8.18E-05	5.36E-05	7.59E-05	3.73E-05
4540	565015.1	4222857	0.000496	0.000655	2.35E-04	2.63E-04	7.18E-04	2.35E-04	6.51E-05	1.28E-04	7.68E-05	5.04E-05	7.13E-05	3.50E-05
4541	565003.7	4222873	0.000466	0.000617	2.21E-04	2.47E-04	6.76E-04	2.21E-04	6.12E-05	1.20E-04	7.23E-05	4.74E-05	6.71E-05	3.30E-05
4542	564992.3	4222890	0.00044	0.000582	2.08E-04	2.33E-04	6.38E-04	2.08E-04	5.78E-05	1.14E-04	6.82E-05	4.47E-05	6.33E-05	3.11E-05
4543	565004.8	4222898	0.000425	0.000563	2.02E-04	2.26E-04	6.17E-04	2.02E-04	5.59E-05	1.10E-04	6.59E-05	4.32E-05	6.12E-05	3.01E-05
4544	565003.3	4222169	0.003792	0.005014	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.98E-04	9.80E-04	5.88E-04	3.85E-04	5.45E-04	2.68E-04
4545	564992	4222150	0.003456	0.00457	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.93E-04	5.36E-04	3.51E-04	4.97E-04	2.44E-04
4546	564975.6	4222139	0.003195	0.004226	1.51E-03	1.69E-03	4.63E-03	1.51E-03	4.20E-04	8.26E-04	4.95E-04	3.25E-04	4.60E-04	2.26E-04
4547	564950.4	4222175	0.003344	0.004422	1.58E-03	1.77E-03	4.85E-03	1.58E-03	4.39E-04	8.64E-04	5.18E-04	3.40E-04	4.81E-04	2.36E-04

4548	564959.2	4222127	0.002964	0.00392	1.40E-03	1.57E-03	4.30E-03	1.40E-03	3.89E-04	7.66E-04	4.59E-04	3.01E-04	4.26E-04	2.10E-04
4549	564922.7	4222145	0.002881	0.00381	1.36E-03	1.53E-03	4.18E-03	1.36E-03	3.78E-04	7.44E-04	4.47E-04	2.93E-04	4.14E-04	2.04E-04
4550	564840.8	4222087	0.002094	0.00277	9.92E-04	1.11E-03	3.04E-03	9.92E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
4551	564835.8	4222094	0.002115	0.002797	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.46E-04	3.28E-04	2.15E-04	3.04E-04	1.50E-04
4552	564963.8	4222230	0.00388	0.005132	1.84E-03	2.06E-03	5.63E-03	1.84E-03	5.10E-04	1.00E-03	6.02E-04	3.94E-04	5.58E-04	2.74E-04
4553	564969	4222222	0.003895	0.005151	1.85E-03	2.07E-03	5.65E-03	1.85E-03	5.12E-04	1.01E-03	6.04E-04	3.96E-04	5.60E-04	2.75E-04
4554	564979.3	4222204	0.003894	0.00515	1.84E-03	2.06E-03	5.65E-03	1.84E-03	5.11E-04	1.01E-03	6.04E-04	3.96E-04	5.60E-04	2.75E-04
4555	564942.2	4222228	0.003608	0.004772	1.71E-03	1.91E-03	5.23E-03	1.71E-03	4.74E-04	9.32E-04	5.59E-04	3.67E-04	5.19E-04	2.55E-04
4556	564949.9	4222215	0.003627	0.004797	1.72E-03	1.92E-03	5.26E-03	1.72E-03	4.76E-04	9.37E-04	5.62E-04	3.69E-04	5.22E-04	2.57E-04
4557	564955.1	4222206	0.003629	0.0048	1.72E-03	1.92E-03	5.26E-03	1.72E-03	4.77E-04	9.38E-04	5.63E-04	3.69E-04	5.22E-04	2.57E-04
4558	564932.2	4222205	0.003387	0.00448	1.60E-03	1.80E-03	4.91E-03	1.60E-03	4.45E-04	8.75E-04	5.25E-04	3.44E-04	4.87E-04	2.40E-04
4559	564938.7	4222195	0.003382	0.004473	1.60E-03	1.79E-03	4.90E-03	1.60E-03	4.44E-04	8.74E-04	5.24E-04	3.44E-04	4.87E-04	2.39E-04
4560	564914	4222236	0.003336	0.004412	1.58E-03	1.77E-03	4.84E-03	1.58E-03	4.38E-04	8.62E-04	5.17E-04	3.39E-04	4.80E-04	2.36E-04
4561	564917.6	4222191	0.003166	0.004187	1.50E-03	1.68E-03	4.59E-03	1.50E-03	4.16E-04	8.18E-04	4.91E-04	3.22E-04	4.55E-04	2.24E-04
4562	564923.9	4222180	0.003153	0.004169	1.49E-03	1.67E-03	4.57E-03	1.49E-03	4.14E-04	8.14E-04	4.89E-04	3.20E-04	4.53E-04	2.23E-04
4563	564929	4222172	0.003135	0.004147	1.49E-03	1.66E-03	4.55E-03	1.49E-03	4.12E-04	8.10E-04	4.86E-04	3.19E-04	4.51E-04	2.22E-04
4564	564898.5	4222184	0.002971	0.003929	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.90E-04	7.68E-04	4.61E-04	3.02E-04	4.27E-04	2.10E-04
4565	564906.2	4222171	0.002954	0.003906	1.40E-03	1.57E-03	4.28E-03	1.40E-03	3.88E-04	7.63E-04	4.58E-04	3.00E-04	4.25E-04	2.09E-04
4566	564884.6	4222168	0.002784	0.003681	1.32E-03	1.48E-03	4.04E-03	1.32E-03	3.66E-04	7.19E-04	4.31E-04	2.83E-04	4.00E-04	1.97E-04
4567	564892.3	4222155	0.002759	0.003649	1.31E-03	1.46E-03	4.00E-03	1.31E-03	3.62E-04	7.13E-04	4.28E-04	2.80E-04	3.97E-04	1.95E-04
4568	564897.5	4222147	0.002736	0.003618	1.30E-03	1.45E-03	3.97E-03	1.30E-03	3.59E-04	7.07E-04	4.24E-04	2.78E-04	3.94E-04	1.93E-04
4569	564850.1	4222187	0.002637	0.003487	1.25E-03	1.40E-03	3.82E-03	1.25E-03	3.46E-04	6.81E-04	4.09E-04	2.68E-04	3.79E-04	1.86E-04
4570	564869.4	4222155	0.002611	0.003453	1.24E-03	1.38E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.65E-04	3.76E-04	1.85E-04
4571	564877.2	4222142	0.002584	0.003417	1.22E-03	1.37E-03	3.75E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.63E-04	3.72E-04	1.83E-04
4572	564882.3	4222133	0.002559	0.003384	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.97E-04	2.60E-04	3.68E-04	1.81E-04
4573	564842.5	4222200	0.002631	0.003479	1.25E-03	1.39E-03	3.81E-03	1.25E-03	3.46E-04	6.80E-04	4.08E-04	2.67E-04	3.78E-04	1.86E-04
4574	564827	4222187	0.002491	0.003295	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.44E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
4575	564836.1	4222172	0.002492	0.003296	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.44E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
4576	564854.3	4222141	0.002454	0.003246	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.22E-04	6.34E-04	3.80E-04	2.49E-04	3.53E-04	1.74E-04
4577	564862.1	4222128	0.002423	0.003205	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
4578	564809.2	4222178	0.002361	0.003123	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.10E-04	3.66E-04	2.40E-04	3.40E-04	1.67E-04
4579	564817	4222165	0.00236	0.003121	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.10E-04	3.66E-04	2.40E-04	3.39E-04	1.67E-04
4580	564836.5	4222132	0.002317	0.003065	1.10E-03	1.23E-03	3.36E-03	1.10E-03	3.04E-04	5.99E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
4581	564795.1	4222163	0.002239	0.002962	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
4582	564800.2	4222154	0.002236	0.002957	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
4583	564807.8	4222141	0.002224	0.002941	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.75E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
4584	564790	4222171	0.002239	0.002962	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.79E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
4585	564953.8	4222296	0.003877	0.005127	1.84E-03	2.06E-03	5.62E-03	1.84E-03	5.09E-04	1.00E-03	6.01E-04	3.94E-04	5.58E-04	2.74E-04
4586	564912.4	4222291	0.003368	0.004454	1.60E-03	1.79E-03	4.88E-03	1.60E-03	4.42E-04	8.70E-04	5.22E-04	3.42E-04	4.84E-04	2.38E-04
4587	564917.6	4222279	0.003435	0.004543	1.63E-03	1.82E-03	4.98E-03	1.63E-03	4.51E-04	8.87E-04	5.32E-04	3.49E-04	4.94E-04	2.43E-04
4588	564892.2	4222288	0.003159	0.004177	1.50E-03	1.67E-03	4.58E-03	1.50E-03	4.15E-04	8.16E-04	4.90E-04	3.21E-04	4.54E-04	2.23E-04
4589	564896	4222279	0.003203	0.004236	1.52E-03	1.70E-03	4.64E-03	1.52E-03	4.21E-04	8.27E-04	4.97E-04	3.25E-04	4.61E-04	2.27E-04
4590	564873.3	4222281	0.002985	0.003948	1.41E-03	1.58E-03	4.33E-03	1.41E-03	3.92E-04	7.71E-04	4.63E-04	3.03E-04	4.29E-04	2.11E-04
4591	564880.9	4222263	0.003056	0.004041	1.45E-03	1.62E-03	4.43E-03	1.45E-03	4.01E-04	7.89E-04	4.74E-04	3.11E-04	4.40E-04	2.16E-04
4592	564888.5	4222245	0.003106	0.004108	1.47E-03	1.65E-03	4.50E-03	1.47E-03	4.08E-04	8.03E-04	4.82E-04	3.16E-04	4.47E-04	2.20E-04
4593	564894.9	4222230	0.003132	0.004141	1.48E-03	1.66E-03	4.54E-03	1.48E-03	4.11E-04	8.09E-04	4.85E-04	3.18E-04	4.50E-04	2.21E-04
4594	564861.1	4222259	0.00288	0.003809	1.36E-03	1.53E-03	4.18E-03	1.36E-03	3.78E-04	7.44E-04	4.46E-04	2.93E-04	4.14E-04	2.04E-04
4595	564846	4222243	0.002745	0.003631	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.09E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
4596	564849.9	4222234	0.002763	0.003654	1.31E-03	1.46E-03	4.01E-03	1.31E-03	3.63E-04	7.14E-04	4.28E-04	2.81E-04	3.97E-04	1.95E-04
4597	564856.5	4222219	0.002782	0.003679	1.32E-03	1.48E-03	4.03E-03	1.32E-03	3.65E-04	7.19E-04	4.31E-04	2.83E-04	4.00E-04	1.97E-04
4598	564833.1	4222274	0.002656	0.003512	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.49E-04	6.86E-04	4.12E-04	2.70E-04	3.82E-04	1.88E-04
4599	564824.4	4222243	0.002587	0.003421	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.68E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
4600	564830.9	4222228	0.002613	0.003456	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.66E-04	3.76E-04	1.85E-04
4601	564836	4222216	0.002626	0.003473	1.24E-03	1.39E-03	3.81E-03	1.24E-03	3.45E-04	6.78E-04	4.07E-04	2.67E-04	3.78E-04	1.86E-04
4602	564799	4222252	0.002424	0.003205	1.15E-03	1.28E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
4603	564809.3	4222228	0.00247	0.003267	1.17E-03	1.31E-03	3.58E-03	1.17E-03	3.24E-04	6.38E-04	3.83E-04	2.51E-04	3.55E-04	1.75E-04
4604	564815.7	4222213	0.002486	0.003288	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.27E-04	6.42E-04	3.85E-04	2.53E-04	3.58E-04	1.76E-04
4605	564822	4222198	0.002491	0.003295	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.44E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
4606	564801.4	4222195	0.002364	0.003126	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.10E-04	6.11E-04	3.66E-04	2.40E-04	3.40E-04	1.67E-04
4607	565036.4	4222433	0.004051	0.005357	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.32E-04	1.05E-03	6.28E-04	4.12E-04	5.83E-04	2.86E-04
4608	564969.6	4222415	0.003386	0.004478	1.60E-03	1.80E-03	4.91E-03	1.60E-03	4.45E-04	8.75E-04	5.25E-04	3.44E-04	4.87E-04	2.39E-04
4609	564981.3	4222345	0.004108	0.005433	1.95E-03	2.18E-03	5.96E-03	1.95E-03	5.40E-04	1.06E-03	6.37E-04	4.18E-04	5.91E-04	2.91E-04
4610	564949.6	4222415	0.003163	0.004183	1.50E-03	1.68E-03	4.59E-03	1.50E-03	4.15E-04	8.17E-04	4.90E-04	3.21E-04	4.55E-04	2.24E-04
4611	564961	4222346	0.003797	0.005021	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.99E-04	9.81E-04	5.89E-04	3.86E-04	5.46E-04	2.69E-04
4612	564943.9	4222459	0.002747	0.003633	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.61E-04	7.10E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
4613	564929.5	4222416	0.002964	0.00392	1.40E-03	1.57E-03	4.30E-03	1.40E-03	3.89E-04	7.66E-04	4.60E-04	3.01E-04	4.26E-04	2.10E-04
4614	564940.8	4222348	0.003525	0.004662	1.67E-03	1.87E-03	5.11E-03	1.67E-03	4.63E-04	9.11E-04	5.46E-04	3.58E-04	5.07E-04	2.49E-04
4615	564923.8	4222450	0.002665	0.003524	1.26E-03	1.41E-03	3.86E-03	1.26E-03	3.50E-04	6.88E-04	4.13E-04	2.71E-04	3.83E-04	1.88E-04
4616	564923.9	4222459	0.002596	0.003433	1.23E-03	1.38E-03	3.76E-03	1.23E-03	3.41E-04	6.71E-04	4.02E-04	2.64E-04	3.73E-04	1.84E-04
4617	564909.8	4222414	0.002804	0.003708	1.33E-03	1.49E-03	4.06E-03	1.33E-03	3.68E-04	7.24E-04	4.35E-04	2.85E-04	4.03E-04	1.98E-04
4618	564903.8	4222450	0.002519	0.003332	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.91E-04	2.56E-04	3.62E-04	1.78E-04
4619	564889.7	4222415	0.00264	0.003491	1.25E-03	1.40E-03	3.83E-03	1.25E-03	3.47E-04	6.82E-04	4.09E-04	2.68E-04	3.80E-04	1.87E-04
4620	564901.3	4222345	0.003103	0.004104	1.47E-03	1.65E-03	4.50E-03	1.47E-03	4.08E-04	8.02E-04	4.81E-04	3.15E-04	4.46E-04	2.19E-04
4621	564869.6	4222415	0.002488	0.00329	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.43E-04	3.86E-04	2.53E-04	3.58E-04	1.76E-04
4622	564863.9	4222459	0.002214	0.002928	1.05E-03	1.17E-03	3.21E-03	1.05E-03	2.91E-04	5.72E-04	3.43E-04	2.25E-04	3.18E-04	1.57E-04
4623	564863.9	4222468	0.002162	0.002859	1.02E-03	1.15E-03	3.13E-03	1.02E-03	2.84E-04	5.58E-04	3.35E-04	2.20E-04	3.11E-04	1.53E-04
4624	564849.5	4222416	0.002352	0.00311	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
4625	564843.9	4222459	0.002105	0.002783	9.97E-04	1.12E-03	3.05E-03	9.97E-04	2.76E-04	5.44E-04	3.26E-04	2.14E-04	3.03E-04	1.49E-04
4626	564843.9	4222468	0.002057	0.00272	9.75E-04	1.09E-03	2.98E-03	9.75E-04	2.70E-04	5.31E-04	3.19E-04	2.09E-04	2.96E-04	1.45E-04
4627	564828.3	4222424	0.00219	0.002896	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.88E-04	5.66E-04	3.39E-04	2.23E-04	3.15E-04	1.55E-04
4628	564829.8	4222415	0.002238	0.002959	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
4629	564840.1	4222352	0.002553	0.003376	1.21E-03	1.35E-03	3.70E-03	1.21E-03	3.35E-04	6.60E-04	3.96E-04	2.59E-04	3.67E-04	1.81E-04
4630	564823.9	4222459	0.002003	0.002649	9.49E-04	1.06E-03	2.90E-03	9.49E-04	2.63E-04	5.17E-04	3.11E-04	2.04E-04	2.88E-04	1.42E-04
4631	564823.9	4222469	0.00196	0.002592	9.29E-04	1.04E-03	2.84E-03	9.29E-04	2.57E-04	5.06E-04	3.04E-04	1.99E-04	2.82E-04	1.39E-04
4632	564819.9	4222354	0.002408	0.003185	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.22E-04	3.73E-04	2.45E-04	3.46E-04	1.70E-04
4633	564802.6	4222337	0.002342	0.003097	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
4634	564812.8	4222277	0.00251	0.003319	1.19E-03	1.33E-03	3.64E-03	1.19E-03	3.30E-04	6.48E-04	3.89E-04	2.55E-04	3.61E-04	1.77E-04
4635	564768.1	4222425	0.001881	0.002488	8.91E-04	9.97E-04	2.73E-03	8.91E-04	2.47E-04	4.86E-04	2.92E-04	1.91E-04	2.71E-04	1.33E-04
4636	564779.6	4222356	0.002156	0.002851	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.52E-04
4637	564789.6	4222296	0.00234	0.003095	1.11E-03	1.24E-03	3.39E-03	1.11E-03	3.07E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.65E-04
4638	564748.3	4222424	0.001798	0.002378	8.52E-04	9.53E-04	2.61E-03	8.52E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04

4639	564744	4222478	0.001603	0.00212	7.60E-04	8.50E-04	2.32E-03	7.60E-04	2.11E-04	4.14E-04	2.49E-04	1.63E-04	2.31E-04	1.13E-04
4640	564740	4222354	0.001957	0.002588	9.27E-04	1.04E-03	2.84E-03	9.27E-04	2.57E-04	5.06E-04	3.03E-04	1.99E-04	2.82E-04	1.38E-04
4641	565287.9	4222688	0.001068	0.001413	5.06E-04	5.66E-04	1.55E-03	5.06E-04	1.40E-04	2.76E-04	1.66E-04	1.09E-04	1.54E-04	7.55E-05
4642	565275.9	4222684	0.001094	0.001447	5.19E-04	5.80E-04	1.59E-03	5.19E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.57E-04	7.74E-05
4643	565264	4222680	0.001123	0.001485	5.32E-04	5.95E-04	1.63E-03	5.32E-04	1.47E-04	2.90E-04	1.74E-04	1.14E-04	1.62E-04	7.94E-05
4644	565252	4222676	0.001154	0.001526	5.47E-04	6.12E-04	1.67E-03	5.47E-04	1.52E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.16E-05
4645	565216.1	4222665	0.001259	0.001665	5.96E-04	6.67E-04	1.82E-03	5.96E-04	1.65E-04	3.25E-04	1.95E-04	1.28E-04	1.81E-04	8.90E-05
4646	565200.2	4222660	0.001308	0.001729	6.19E-04	6.93E-04	1.90E-03	6.19E-04	1.72E-04	3.38E-04	2.03E-04	1.33E-04	1.88E-04	9.25E-05
4647	565162.3	4222651	0.001399	0.00185	6.63E-04	7.42E-04	2.03E-03	6.63E-04	1.84E-04	3.61E-04	2.17E-04	1.42E-04	2.01E-04	9.89E-05
4648	565294.3	4222709	0.000944	0.001249	4.47E-04	5.01E-04	1.37E-03	4.47E-04	1.24E-04	2.44E-04	1.46E-04	9.60E-05	1.36E-04	6.68E-05
4649	565278.4	4222704	0.000971	0.001284	4.60E-04	5.15E-04	1.41E-03	4.60E-04	1.28E-04	2.51E-04	1.51E-04	9.87E-05	1.40E-04	6.87E-05
4650	565266.5	4222700	0.000994	0.001314	4.71E-04	5.27E-04	1.44E-03	4.71E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.03E-05
4651	565242.6	4222692	0.001045	0.001382	4.95E-04	5.54E-04	1.51E-03	4.95E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.39E-05
4652	565230.7	4222689	0.001073	0.00142	5.09E-04	5.69E-04	1.56E-03	5.09E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.59E-05
4653	565218.8	4222685	0.001103	0.001459	5.23E-04	5.85E-04	1.60E-03	5.23E-04	1.45E-04	2.85E-04	1.71E-04	1.12E-04	1.59E-04	7.80E-05
4654	565202.9	4222680	0.001144	0.001513	5.42E-04	6.07E-04	1.66E-03	5.42E-04	1.50E-04	2.96E-04	1.77E-04	1.16E-04	1.65E-04	8.09E-05
4655	565163.2	4222667	0.001253	0.001657	5.93E-04	6.64E-04	1.82E-03	5.93E-04	1.65E-04	3.24E-04	1.94E-04	1.27E-04	1.80E-04	8.86E-05
4656	565152.3	4222651	0.001401	0.001853	6.64E-04	7.43E-04	2.03E-03	6.64E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.02E-04	9.91E-05
4657	565149.2	4222666	0.001269	0.001678	6.01E-04	6.73E-04	1.84E-03	6.01E-04	1.67E-04	3.28E-04	1.97E-04	1.29E-04	1.83E-04	8.97E-05
4658	565295.5	4222728	0.00085	0.001124	4.03E-04	4.51E-04	1.23E-03	4.03E-04	1.12E-04	2.20E-04	1.32E-04	8.64E-05	1.22E-04	6.01E-05
4659	565283.4	4222724	0.000866	0.001145	4.10E-04	4.59E-04	1.25E-03	4.10E-04	1.14E-04	2.24E-04	1.34E-04	8.80E-05	1.25E-04	6.12E-05
4660	565271.3	4222720	0.000884	0.001169	4.19E-04	4.69E-04	1.28E-03	4.19E-04	1.16E-04	2.28E-04	1.37E-04	8.98E-05	1.27E-04	6.25E-05
4661	565247.1	4222713	0.000926	0.001224	4.38E-04	4.91E-04	1.34E-03	4.38E-04	1.22E-04	2.39E-04	1.43E-04	9.41E-05	1.33E-04	6.55E-05
4662	565235	4222709	0.000949	0.001255	4.49E-04	5.03E-04	1.38E-03	4.49E-04	1.25E-04	2.45E-04	1.47E-04	9.64E-05	1.36E-04	6.71E-05
4663	565218.8	4222704	0.000982	0.001299	4.65E-04	5.21E-04	1.42E-03	4.65E-04	1.29E-04	2.54E-04	1.52E-04	9.98E-05	1.41E-04	6.94E-05
4664	565190.5	4222695	0.001045	0.001382	4.95E-04	5.54E-04	1.52E-03	4.95E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.39E-05
4665	565178.4	4222691	0.001074	0.00142	5.09E-04	5.69E-04	1.56E-03	5.09E-04	1.41E-04	2.77E-04	1.66E-04	1.09E-04	1.54E-04	7.59E-05
4666	565139.1	4222665	0.001273	0.001683	6.03E-04	6.75E-04	1.85E-03	6.03E-04	1.67E-04	3.29E-04	1.97E-04	1.29E-04	1.83E-04	9.00E-05
4667	565136.1	4222680	0.001156	0.001529	5.48E-04	6.13E-04	1.68E-03	5.48E-04	1.52E-04	2.99E-04	1.79E-04	1.18E-04	1.66E-04	8.18E-05
4668	565127.4	4222661	0.001307	0.001729	6.19E-04	6.93E-04	1.90E-03	6.19E-04	1.72E-04	3.38E-04	2.03E-04	1.33E-04	1.88E-04	9.24E-05
4669	565116.9	4222638	0.001517	0.002006	7.18E-04	8.04E-04	2.20E-03	7.18E-04	1.99E-04	3.92E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
4670	565294	4222746	0.000774	0.001024	3.67E-04	4.10E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.87E-05	1.11E-04	5.47E-05
4671	565281.9	4222742	0.000787	0.001041	3.73E-04	4.17E-04	1.14E-03	3.73E-04	1.03E-04	2.03E-04	1.22E-04	8.00E-05	1.13E-04	5.57E-05
4672	565249.7	4222732	0.000831	0.001098	3.93E-04	4.40E-04	1.20E-03	3.93E-04	1.09E-04	2.15E-04	1.29E-04	8.44E-05	1.19E-04	5.87E-05
4673	565237.6	4222729	0.000849	0.001123	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.12E-04	2.19E-04	1.32E-04	8.63E-05	1.22E-04	6.01E-05
4674	565197.4	4222716	0.00092	0.001217	4.36E-04	4.88E-04	1.33E-03	4.36E-04	1.21E-04	2.38E-04	1.43E-04	9.35E-05	1.32E-04	6.51E-05
4675	565115.7	4222657	0.00134	0.001772	6.35E-04	7.11E-04	1.94E-03	6.35E-04	1.76E-04	3.46E-04	2.08E-04	1.36E-04	1.93E-04	9.48E-05
4676	565096.5	4222615	0.001744	0.002307	8.26E-04	9.25E-04	2.53E-03	8.26E-04	2.29E-04	4.51E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
4677	565091.3	4222603	0.001868	0.002471	8.85E-04	9.91E-04	2.71E-03	8.85E-04	2.45E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
4678	565082.6	4222584	0.002088	0.002761	9.89E-04	1.11E-03	3.03E-03	9.89E-04	2.74E-04	5.39E-04	3.24E-04	2.12E-04	3.00E-04	1.48E-04
4679	565124.8	4222699	0.001034	0.001367	4.90E-04	5.48E-04	1.50E-03	4.90E-04	1.36E-04	2.67E-04	1.60E-04	1.05E-04	1.49E-04	7.31E-05
4680	565114.4	4222676	0.001189	0.001573	5.63E-04	6.31E-04	1.72E-03	5.63E-04	1.56E-04	3.07E-04	1.84E-04	1.21E-04	1.71E-04	8.41E-05
4681	565103.9	4222653	0.001372	0.001814	6.50E-04	7.27E-04	1.99E-03	6.50E-04	1.80E-04	3.54E-04	2.13E-04	1.39E-04	1.97E-04	9.70E-05
4682	565053.5	4222542	0.002542	0.003361	1.20E-03	1.35E-03	3.68E-03	1.20E-03	3.34E-04	6.57E-04	3.94E-04	2.58E-04	3.66E-04	1.80E-04
4683	565048.3	4222530	0.002674	0.003537	1.27E-03	1.42E-03	3.88E-03	1.27E-03	3.51E-04	6.91E-04	4.15E-04	2.72E-04	3.85E-04	1.89E-04
4684	565111.5	4222714	0.00095	0.001256	4.50E-04	5.04E-04	1.38E-03	4.50E-04	1.25E-04	2.45E-04	1.47E-04	9.65E-05	1.37E-04	6.72E-05
4685	565101.1	4222691	0.001086	0.001436	5.14E-04	5.76E-04	1.57E-03	5.14E-04	1.43E-04	2.81E-04	1.68E-04	1.10E-04	1.56E-04	7.68E-05
4686	565092.4	4222672	0.001217	0.001609	5.77E-04	6.45E-04	1.76E-03	5.77E-04	1.60E-04	3.14E-04	1.89E-04	1.24E-04	1.75E-04	8.61E-05
4687	565030	4222534	0.002519	0.003331	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
4688	565024.8	4222523	0.002635	0.003484	1.25E-03	1.40E-03	3.82E-03	1.25E-03	3.46E-04	6.81E-04	4.08E-04	2.68E-04	3.79E-04	1.86E-04
4689	565014.4	4222500	0.002858	0.00378	1.35E-03	1.52E-03	4.14E-03	1.35E-03	3.75E-04	7.38E-04	4.43E-04	2.90E-04	4.11E-04	2.02E-04
4690	565098.3	4222729	0.000876	0.001159	4.15E-04	4.65E-04	1.27E-03	4.15E-04	1.15E-04	2.26E-04	1.36E-04	8.90E-05	1.26E-04	6.20E-05
4691	565087.9	4222706	0.000996	0.001317	4.72E-04	5.28E-04	1.44E-03	4.72E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.04E-05
4692	565077.5	4222683	0.001136	0.001502	5.38E-04	6.02E-04	1.65E-03	5.38E-04	1.49E-04	2.93E-04	1.76E-04	1.15E-04	1.63E-04	8.03E-05
4693	565029	4222576	0.002021	0.002673	9.57E-04	1.07E-03	2.93E-03	9.57E-04	2.65E-04	5.22E-04	3.13E-04	2.05E-04	2.91E-04	1.43E-04
4694	565023.8	4222565	0.002128	0.002815	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.50E-04	3.30E-04	2.16E-04	3.06E-04	1.51E-04
4695	565018.6	4222553	0.002236	0.002958	1.06E-03	1.19E-03	3.24E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.27E-04	3.22E-04	1.58E-04
4696	565013.4	4222542	0.002343	0.003099	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
4697	565008.2	4222530	0.002447	0.003236	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.21E-04	6.32E-04	3.79E-04	2.49E-04	3.52E-04	1.73E-04
4698	565001.3	4222515	0.002581	0.003413	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.67E-04	4.00E-04	2.62E-04	3.71E-04	1.83E-04
4699	565064.2	4222698	0.001041	0.001377	4.93E-04	5.52E-04	1.51E-03	4.93E-04	1.37E-04	2.69E-04	1.61E-04	1.06E-04	1.50E-04	7.36E-05
4700	565003.7	4222565	0.002055	0.002718	9.74E-04	1.09E-03	2.98E-03	9.74E-04	2.70E-04	5.31E-04	3.19E-04	2.09E-04	2.96E-04	1.45E-04
4701	564998.6	4222553	0.002153	0.002847	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.83E-04	5.56E-04	3.34E-04	2.19E-04	3.10E-04	1.52E-04
4702	564989.9	4222534	0.00231	0.003055	1.09E-03	1.22E-03	3.35E-03	1.09E-03	3.03E-04	5.97E-04	3.58E-04	2.35E-04	3.32E-04	1.63E-04
4703	565113.9	4222775	0.000689	0.000911	3.26E-04	3.65E-04	9.99E-04	3.26E-04	9.05E-05	1.78E-04	1.07E-04	7.00E-05	9.91E-05	4.87E-05
4704	565050.7	4222712	0.000961	0.001271	4.55E-04	5.10E-04	1.39E-03	4.55E-04	1.26E-04	2.48E-04	1.49E-04	9.77E-05	1.38E-04	6.80E-05
4705	564991.2	4222581	0.001855	0.002454	8.79E-04	9.84E-04	2.69E-03	8.79E-04	2.44E-04	4.79E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
4706	564986	4222570	0.001945	0.002572	9.21E-04	1.03E-03	2.82E-03	9.21E-04	2.55E-04	5.02E-04	3.01E-04	1.98E-04	2.80E-04	1.38E-04
4707	564977.2	4222550	0.002093	0.002768	9.92E-04	1.11E-03	3.03E-03	9.92E-04	2.75E-04	5.41E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
4708	565049.7	4222754	0.000773	0.001023	3.66E-04	4.10E-04	1.12E-03	3.66E-04	1.02E-04	2.00E-04	1.20E-04	7.86E-05	1.11E-04	5.47E-05
4709	564978.1	4222596	0.001691	0.002236	8.01E-04	8.96E-04	2.45E-03	8.01E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
4710	564972.9	4222585	0.001772	0.002343	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
4711	564967.6	4222573	0.001852	0.00245	8.78E-04	9.82E-04	2.69E-03	8.78E-04	2.43E-04	4.79E-04	2.87E-04	1.88E-04	2.66E-04	1.31E-04
4712	565103.2	4222810	0.000589	0.000779	2.79E-04	3.12E-04	8.54E-04	2.79E-04	7.74E-05	1.52E-04	9.13E-05	5.99E-05	8.48E-05	4.17E-05
4713	565026	4222746	0.000807	0.001067	3.82E-04	4.28E-04	1.17E-03	3.82E-04	1.06E-04	2.08E-04	1.25E-04	8.20E-05	1.16E-04	5.70E-05
4714	564965	4222612	0.001545	0.002043	7.32E-04	8.19E-04	2.24E-03	7.32E-04	2.03E-04	3.99E-04	2.40E-04	1.57E-04	2.22E-04	1.09E-04
4715	564959.8	4222600	0.00162	0.002142	7.67E-04	8.59E-04	2.35E-03	7.67E-04	2.13E-04	4.18E-04	2.51E-04	1.65E-04	2.33E-04	1.15E-04
4716	564954.5	4222589	0.001693	0.00224	8.02E-04	8.98E-04	2.46E-03	8.02E-04	2.22E-04	4.37E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
4717	564949.3	4222577	0.001767	0.002337	8.37E-04	9.37E-04	2.56E-03	8.37E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
4718	565110	4222832	0.000538	0.000712	2.55E-04	2.85E-04	7.80E-04	2.55E-04	7.07E-05	1.39E-04	8.34E-05	5.47E-05	7.74E-05	3.81E-05
4719	565081.8	4222823	0.000561	0.000742	2.66E-04	2.98E-04	8.14E-04	2.66E-04	7.37E-05	1.45E-04	8.70E-05	5.71E-05	8.08E-05	3.97E-05
4720	565069.8	4222819	0.000572	0.000756	2.71E-04	3.03E-04	8.29E-04	2.71E-04	7.51E-05	1.48E-04	8.87E-05	5.81E-05	8.23E-05	4.04E-05
4721	565031.9	4222804	0.000616	0.000815	2.92E-04	3.27E-04	8.93E-04	2.92E-04	8.09E-05	1.59E-04	9.55E-05	6.26E-05	8.86E-05	4.36E-05
4722	565023.2	4222784	0.000672	0.000889	3.19E-04	3.57E-04	9.75E-04	3.19E-04	8.83E-05	1.74E-04	1.04E-04	6.83E-05	9.67E-05	4.76E-05
4723	565012.7	4222761	0.00075	0.000992	3.55E-04	3.98E-04	1.09E-03	3.55E-04	9.85E-05	1.94E-04	1.16E-04	7.63E-05	1.08E-04	5.31E-05
4724	564946.6	4222616	0.001484	0.001963	7.03E-04	7.87E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.14E-04	1.05E-04
4725	564941.4	4222604	0.001553	0.002054	7.36E-04	8.23E-04	2.25E-03	7.36E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.23E-04	1.10E-04
4726	564936.2	4222592	0.001621	0.002144	7.68E-04	8.60E-04	2.35E-03	7.68E-04	2.13E-04	4.19E-04	2.51E-04	1.65E-04	2.33E-04	1.15E-04
4727	564931	4222581	0.001689	0.002234	8.00E-04	8.96E-04	2.45E-03	8.00E-04	2.22E-04	4.36E-04	2.62E-04	1.72E-04	2.43E-04	1.19E-04
4728	564925.7	4222569	0.001756	0.002323	8.32E-04	9.31E-04	2.55E-03	8.32E-04	2.31E-04	4.54E-04	2.72E-04	1.78E-04	2.53E-04	1.24E-04
4729	565084.5	4222843	0.000517	0.000684	2.45E-04	2.74E-04	7.50E-04	2.45E-04	6.79E-05	1.34E-04	8.02E-05	5.26E-05	7.44E-05	3.66E-05

4730	565072.5	4222839	0.000526	0.000696	2.49E-04	2.79E-04	7.63E-04	2.49E-04	6.91E-05	1.36E-04	8.16E-05	5.35E-05	7.57E-05	3.72E-05
4731	565060.5	4222835	0.000536	0.000709	2.54E-04	2.84E-04	7.77E-04	2.54E-04	7.04E-05	1.38E-04	8.31E-05	5.44E-05	7.71E-05	3.79E-05
4732	565032.4	4222826	0.000559	0.000739	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.34E-05	1.44E-04	8.66E-05	5.68E-05	8.04E-05	3.95E-05
4733	564999.5	4222776	0.0007	0.000926	3.32E-04	3.71E-04	1.01E-03	3.32E-04	9.19E-05	1.81E-04	1.09E-04	7.11E-05	1.01E-04	4.95E-05
4734	564933.5	4222631	0.001364	0.001804	6.46E-04	7.23E-04	1.98E-03	6.46E-04	1.79E-04	3.52E-04	2.11E-04	1.39E-04	1.96E-04	9.65E-05
4735	564928.3	4222619	0.001427	0.001887	6.76E-04	7.57E-04	2.07E-03	6.76E-04	1.87E-04	3.69E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
4736	564923.1	4222608	0.00149	0.001971	7.06E-04	7.90E-04	2.16E-03	7.06E-04	1.96E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
4737	564917.8	4222596	0.001553	0.002054	7.36E-04	8.23E-04	2.25E-03	7.36E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.23E-04	1.10E-04
4738	564912.6	4222585	0.001615	0.002136	7.65E-04	8.56E-04	2.34E-03	7.65E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
4739	565099.2	4222867	0.000471	0.000623	2.23E-04	2.50E-04	6.83E-04	2.23E-04	6.19E-05	1.22E-04	7.30E-05	4.79E-05	6.78E-05	3.33E-05
4740	565071.2	4222858	0.000489	0.000647	2.32E-04	2.59E-04	7.09E-04	2.32E-04	6.43E-05	1.26E-04	7.58E-05	4.97E-05	7.04E-05	3.46E-05
4741	565059.2	4222854	0.000497	0.000658	2.36E-04	2.64E-04	7.21E-04	2.36E-04	6.53E-05	1.29E-04	7.71E-05	5.06E-05	7.16E-05	3.52E-05
4742	565047.1	4222850	0.000506	0.000669	2.40E-04	2.68E-04	7.34E-04	2.40E-04	6.65E-05	1.31E-04	7.84E-05	5.14E-05	7.28E-05	3.58E-05
4743	565015.1	4222840	0.00053	0.000701	2.51E-04	2.81E-04	7.69E-04	2.51E-04	6.96E-05	1.37E-04	8.22E-05	5.39E-05	7.63E-05	3.75E-05
4744	564996.7	4222814	0.000592	0.000783	2.80E-04	3.14E-04	8.58E-04	2.80E-04	7.77E-05	1.53E-04	9.17E-05	6.01E-05	8.51E-05	4.18E-05
4745	564988	4222795	0.000644	0.000851	3.05E-04	3.41E-04	9.33E-04	3.05E-04	8.45E-05	1.66E-04	9.98E-05	6.54E-05	9.26E-05	4.55E-05
4746	564979.3	4222776	0.000702	0.000928	3.33E-04	3.72E-04	1.02E-03	3.33E-04	9.22E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.97E-05
4747	564915.1	4222634	0.001315	0.001739	6.23E-04	6.97E-04	1.91E-03	6.23E-04	1.73E-04	3.40E-04	2.04E-04	1.34E-04	1.89E-04	9.30E-05
4748	564909.9	4222623	0.001373	0.001816	6.50E-04	7.28E-04	1.99E-03	6.50E-04	1.80E-04	3.55E-04	2.13E-04	1.40E-04	1.98E-04	9.71E-05
4749	564904.7	4222612	0.001431	0.001893	6.78E-04	7.59E-04	2.07E-03	6.78E-04	1.88E-04	3.70E-04	2.22E-04	1.45E-04	2.06E-04	1.01E-04
4750	564899.5	4222600	0.001489	0.001969	7.05E-04	7.89E-04	2.16E-03	7.05E-04	1.96E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
4751	564894.3	4222589	0.001546	0.002045	7.32E-04	8.20E-04	2.24E-03	7.32E-04	2.03E-04	3.99E-04	2.40E-04	1.57E-04	2.22E-04	1.09E-04
4752	565086.8	4222882	0.000446	0.00059	2.12E-04	2.37E-04	6.47E-04	2.12E-04	5.86E-05	1.15E-04	6.92E-05	4.54E-05	6.42E-05	3.16E-05
4753	565074.7	4222878	0.000453	0.0006	2.15E-04	2.40E-04	6.57E-04	2.15E-04	5.95E-05	1.17E-04	7.03E-05	4.61E-05	6.52E-05	3.21E-05
4754	565062.5	4222874	0.000461	0.000609	2.18E-04	2.44E-04	6.68E-04	2.18E-04	6.05E-05	1.19E-04	7.14E-05	4.68E-05	6.63E-05	3.26E-05
4755	565001.9	4222855	0.000501	0.000662	2.37E-04	2.65E-04	7.26E-04	2.37E-04	6.57E-05	1.29E-04	7.76E-05	5.09E-05	7.20E-05	3.54E-05
4756	564974.5	4222810	0.000605	0.000801	2.87E-04	3.21E-04	8.78E-04	2.87E-04	7.95E-05	1.56E-04	9.38E-05	6.15E-05	8.71E-05	4.28E-05
4757	564897.5	4222640	0.001261	0.001667	5.97E-04	6.68E-04	1.83E-03	5.97E-04	1.66E-04	3.26E-04	1.95E-04	1.28E-04	1.81E-04	8.91E-05
4758	564892.3	4222628	0.001315	0.001739	6.23E-04	6.97E-04	1.91E-03	6.23E-04	1.73E-04	3.40E-04	2.04E-04	1.34E-04	1.89E-04	9.30E-05
4759	564887	4222617	0.001369	0.00181	6.49E-04	7.26E-04	1.98E-03	6.49E-04	1.80E-04	3.54E-04	2.12E-04	1.39E-04	1.97E-04	9.68E-05
4760	564881.8	4222605	0.001423	0.001882	6.74E-04	7.54E-04	2.06E-03	6.74E-04	1.87E-04	3.68E-04	2.21E-04	1.45E-04	2.05E-04	1.01E-04
4761	565089.5	4222902	0.000416	0.00055	1.97E-04	2.21E-04	6.03E-04	1.97E-04	5.47E-05	1.08E-04	6.45E-05	4.23E-05	5.99E-05	2.94E-05
4762	565073.4	4222897	0.000424	0.000561	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.58E-05	4.31E-05	6.10E-05	3.00E-05
4763	565061.3	4222893	0.000431	0.000569	2.04E-04	2.28E-04	6.24E-04	2.04E-04	5.65E-05	1.11E-04	6.67E-05	4.38E-05	6.19E-05	3.04E-05
4764	565049.2	4222889	0.000437	0.000578	2.07E-04	2.32E-04	6.34E-04	2.07E-04	5.74E-05	1.13E-04	6.78E-05	4.44E-05	6.29E-05	3.09E-05
4765	565024.9	4222881	0.000451	0.000596	2.14E-04	2.39E-04	6.54E-04	2.14E-04	5.92E-05	1.17E-04	6.99E-05	4.58E-05	6.49E-05	3.19E-05
4766	565012.8	4222878	0.000458	0.000606	2.17E-04	2.43E-04	6.64E-04	2.17E-04	6.02E-05	1.18E-04	7.10E-05	4.66E-05	6.59E-05	3.24E-05
4767	564988.6	4222870	0.000474	0.000626	2.24E-04	2.51E-04	6.87E-04	2.24E-04	6.22E-05	1.22E-04	7.34E-05	4.81E-05	6.81E-05	3.35E-05
4768	564963	4222829	0.00056	0.000741	2.65E-04	2.97E-04	8.12E-04	2.65E-04	7.35E-05	1.45E-04	8.68E-05	5.69E-05	8.06E-05	3.96E-05
4769	564954.3	4222809	0.000608	0.000803	2.88E-04	3.22E-04	8.81E-04	2.88E-04	7.98E-05	1.57E-04	9.42E-05	6.17E-05	8.74E-05	4.30E-05
4770	564884.4	4222655	0.001167	0.001543	5.53E-04	6.19E-04	1.69E-03	5.53E-04	1.53E-04	3.01E-04	1.81E-04	1.19E-04	1.68E-04	8.25E-05
4771	564873.9	4222632	0.001267	0.001676	6.00E-04	6.72E-04	1.84E-03	6.00E-04	1.66E-04	3.27E-04	1.96E-04	1.29E-04	1.82E-04	8.96E-05
4772	564868.7	4222620	0.001317	0.001742	6.24E-04	6.98E-04	1.91E-03	6.24E-04	1.73E-04	3.40E-04	2.04E-04	1.34E-04	1.89E-04	9.32E-05
4773	565326.1	4222996	0.00032	0.000423	1.51E-04	1.69E-04	4.63E-04	1.51E-04	4.20E-05	8.26E-05	4.96E-05	3.25E-05	4.60E-05	2.26E-05
4774	565305.9	4222989	0.000322	0.000426	1.53E-04	1.71E-04	4.67E-04	1.53E-04	4.23E-05	8.32E-05	4.99E-05	3.27E-05	4.63E-05	2.28E-05
4775	565281.7	4222982	0.000326	0.000431	1.54E-04	1.73E-04	4.73E-04	1.54E-04	4.28E-05	8.42E-05	5.05E-05	3.31E-05	4.69E-05	2.30E-05
4776	565269.6	4222978	0.000328	0.000434	1.56E-04	1.74E-04	4.76E-04	1.56E-04	4.31E-05	8.48E-05	5.09E-05	3.34E-05	4.72E-05	2.32E-05
4777	565257.5	4222974	0.000331	0.000438	1.57E-04	1.76E-04	4.80E-04	1.57E-04	4.35E-05	8.55E-05	5.13E-05	3.36E-05	4.76E-05	2.34E-05
4778	565245.4	4222970	0.000334	0.000442	1.58E-04	1.77E-04	4.84E-04	1.58E-04	4.39E-05	8.63E-05	5.18E-05	3.39E-05	4.81E-05	2.36E-05
4779	565233.3	4222966	0.000337	0.000446	1.60E-04	1.79E-04	4.89E-04	1.60E-04	4.43E-05	8.72E-05	5.23E-05	3.43E-05	4.85E-05	2.39E-05
4780	565221.2	4222963	0.000341	0.000451	1.62E-04	1.81E-04	4.94E-04	1.62E-04	4.48E-05	8.81E-05	5.29E-05	3.46E-05	4.90E-05	2.41E-05
4781	565180.9	4222950	0.000354	0.000469	1.68E-04	1.88E-04	5.14E-04	1.68E-04	4.65E-05	9.15E-05	5.49E-05	3.60E-05	5.10E-05	2.51E-05
4782	565168.8	4222946	0.000359	0.000474	1.70E-04	1.90E-04	5.20E-04	1.70E-04	4.71E-05	9.27E-05	5.56E-05	3.64E-05	5.16E-05	2.54E-05
4783	565156.7	4222942	0.000363	0.00048	1.72E-04	1.93E-04	5.26E-04	1.72E-04	4.77E-05	9.38E-05	5.63E-05	3.69E-05	5.22E-05	2.57E-05
4784	565144.6	4222938	0.000368	0.000486	1.74E-04	1.95E-04	5.33E-04	1.74E-04	4.83E-05	9.50E-05	5.70E-05	3.74E-05	5.29E-05	2.60E-05
4785	565132.5	4222935	0.000373	0.000493	1.76E-04	1.98E-04	5.40E-04	1.76E-04	4.89E-05	9.62E-05	5.77E-05	3.79E-05	5.36E-05	2.63E-05
4786	565108.3	4222927	0.000382	0.000506	1.81E-04	2.03E-04	5.54E-04	1.81E-04	5.02E-05	9.88E-05	5.93E-05	3.89E-05	5.50E-05	2.70E-05
4787	565080.1	4222918	0.000394	0.000522	1.87E-04	2.09E-04	5.72E-04	1.87E-04	5.18E-05	1.02E-04	6.12E-05	4.01E-05	5.67E-05	2.79E-05
4788	565068	4222914	0.0004	0.000529	1.89E-04	2.12E-04	5.80E-04	1.89E-04	5.25E-05	1.03E-04	6.20E-05	4.06E-05	5.75E-05	2.83E-05
4789	565055.9	4222910	0.000406	0.000536	1.92E-04	2.15E-04	5.88E-04	1.92E-04	5.33E-05	1.05E-04	6.29E-05	4.12E-05	5.83E-05	2.87E-05
4790	565031.7	4222903	0.000418	0.000552	1.98E-04	2.21E-04	6.05E-04	1.98E-04	5.48E-05	1.08E-04	6.47E-05	4.24E-05	6.01E-05	2.95E-05
4791	565019.6	4222899	0.000424	0.000561	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.57E-05	4.31E-05	6.10E-05	3.00E-05
4792	564975.3	4222885	0.000449	0.000594	2.13E-04	2.38E-04	6.51E-04	2.13E-04	5.90E-05	1.16E-04	6.96E-05	4.56E-05	6.46E-05	3.18E-05
4793	564958.5	4222863	0.000489	0.000647	2.32E-04	2.59E-04	7.09E-04	2.32E-04	6.42E-05	1.26E-04	7.58E-05	4.97E-05	7.03E-05	3.46E-05
4794	564949.8	4222844	0.000528	0.000698	2.50E-04	2.80E-04	7.66E-04	2.50E-04	6.94E-05	1.36E-04	8.19E-05	5.37E-05	7.60E-05	3.73E-05
4795	564944.5	4222832	0.000554	0.000732	2.62E-04	2.93E-04	8.02E-04	2.62E-04	7.27E-05	1.43E-04	8.58E-05	5.63E-05	7.96E-05	3.91E-05
4796	564935.8	4222813	0.0006	0.000793	2.84E-04	3.18E-04	8.70E-04	2.84E-04	7.88E-05	1.55E-04	9.30E-05	6.10E-05	8.63E-05	4.24E-05
4797	564871.3	4222670	0.001083	0.001432	5.13E-04	5.74E-04	1.57E-03	5.13E-04	1.42E-04	2.80E-04	1.68E-04	1.10E-04	1.56E-04	7.66E-05
4798	564866	4222659	0.001129	0.001493	5.35E-04	5.99E-04	1.64E-03	5.35E-04	1.48E-04	2.92E-04	1.75E-04	1.15E-04	1.62E-04	7.98E-05
4799	564855.5	4222636	0.001222	0.001616	5.79E-04	6.48E-04	1.77E-03	5.79E-04	1.60E-04	3.16E-04	1.89E-04	1.24E-04	1.76E-04	8.64E-05
4800	564850.3	4222624	0.001268	0.001677	6.01E-04	6.73E-04	1.84E-03	6.01E-04	1.67E-04	3.28E-04	1.97E-04	1.29E-04	1.82E-04	8.97E-05
4801	565328.4	4223016	0.000303	0.000401	1.44E-04	1.61E-04	4.40E-04	1.44E-04	3.99E-05	7.84E-05	4.70E-05	3.08E-05	4.37E-05	2.15E-05
4802	565316.3	4223012	0.000305	0.000403	1.44E-04	1.61E-04	4.42E-04	1.44E-04	4.00E-05	7.87E-05	4.72E-05	3.10E-05	4.38E-05	2.15E-05
4803	565304.3	4223008	0.000306	0.000405	1.45E-04	1.62E-04	4.44E-04	1.45E-04	4.02E-05	7.90E-05	4.74E-05	3.11E-05	4.40E-05	2.16E-05
4804	565280.1	4223000	0.000309	0.000409	1.47E-04	1.64E-04	4.49E-04	1.47E-04	4.06E-05	7.99E-05	4.80E-05	3.14E-05	4.45E-05	2.19E-05
4805	565268	4222997	0.000312	0.000412	1.48E-04	1.65E-04	4.52E-04	1.48E-04	4.09E-05	8.05E-05	4.83E-05	3.17E-05	4.48E-05	2.20E-05
4806	565255.9	4222993	0.000314	0.000415	1.49E-04	1.66E-04	4.55E-04	1.49E-04	4.12E-05	8.11E-05	4.87E-05	3.19E-05	4.52E-05	2.22E-05
4807	565243.9	4222989	0.000317	0.000419	1.50E-04	1.68E-04	4.59E-04	1.50E-04	4.16E-05	8.18E-05	4.91E-05	3.22E-05	4.56E-05	2.24E-05
4808	565231.8	4222985	0.00032	0.000423	1.51E-04	1.70E-04	4.64E-04	1.51E-04	4.20E-05	8.26E-05	4.96E-05	3.25E-05	4.60E-05	2.26E-05
4809	565219.7	4222981	0.000323	0.000427	1.53E-04	1.71E-04	4.68E-04	1.53E-04	4.24E-05	8.34E-05	5.01E-05	3.28E-05	4.65E-05	2.28E-05
4810	565179.4	4222969	0.000335	0.000443	1.59E-04	1.78E-04	4.86E-04	1.59E-04	4.40E-05	8.66E-05	5.19E-05	3.41E-05	4.82E-05	2.37E-05
4811	565167.4	4222965	0.000339	0.000448	1.61E-04	1.80E-04	4.92E-04	1.61E-04	4.45E-05	8.76E-05	5.26E-05	3.45E-05	4.88E-05	2.40E-05
4812	565155.3	4222961	0.000343	0.000454	1.63E-04	1.82E-04	4.97E-04	1.63E-04	4.51E-05	8.86E-05	5.32E-05	3.49E-05	4.94E-05	2.43E-05
4813	565143.2	4222957	0.000347	0.000459	1.65E-04	1.84E-04	5.04E-04	1.65E-04	4.56E-05	8.97E-05	5.38E-05	3.53E-05	5.00E-05	2.46E-05
4814	565131.1	4222953	0.000352	0.000465	1.67E-04	1.86E-04	5.10E-04	1.67E-04	4.62E-05	9.08E-05	5.45E-05	3.57E-05	5.06E-05	2.49E-05
4815	565107	4222946	0.000361	0.000477	1.71E-04	1.91E-04	5.23E-04	1.71E-04	4.73E-05	9.31E-05	5.59E-05	3.66E-05	5.19E-05	2.55E-05
4816	565094.9	4222942	0.000365	0.000483	1.73E-04	1.94E-04	5.29E-04	1.73E-04	4.79E-05	9.43E-05	5.66E-05	3.71E-05	5.25E-05	2.58E-05
4817	565074.8	4222935	0.000373	0.000493	1.77E-04	1.98E-04	5.41E-04	1.77E-04	4.90E-05	9.64E-05	5.78E-05	3.79E-05	5.37E-05	2.64E-05
4818	565062.7	4222932	0.000378	0.0005	1.79E-04	2.00E-04	5.48E-04	1.79E-04	4.96E-05	9.76E-05	5.86E-05	3.84E-05	5.44E-05	2.67E-05
4819	565050.6	4222928	0.000383	0.000507	1.81E-04	2.03E-04	5.55E-04	1.81E-04	5.03E-05	9.89E-05	5.94E-05	3.89E-05	5.51E-05	2.71E-05
4820	565026.4	4222920	0.000394	0.000521	1.87E-04	2.09E-04	5.71E-04	1.87E-04	5.17E-05	1.02E-04	6.10E-05	4.00E-05	5.66E-05	2.78E-05

4821	565014.4	4222916	0.000399	0.000528	1.89E-04	2.12E-04	5.79E-04	1.89E-04	5.24E-05	1.03E-04	6.19E-05	4.06E-05	5.74E-05	2.82E-05
4822	565002.3	4222913	0.000405	0.000536	1.92E-04	2.15E-04	5.87E-04	1.92E-04	5.32E-05	1.05E-04	6.28E-05	4.12E-05	5.83E-05	2.87E-05
4823	564990.2	4222909	0.000411	0.000544	1.95E-04	2.18E-04	5.96E-04	1.95E-04	5.40E-05	1.06E-04	6.38E-05	4.18E-05	5.92E-05	2.91E-05
4824	564978.1	4222905	0.000418	0.000552	1.98E-04	2.21E-04	6.05E-04	1.98E-04	5.48E-05	1.08E-04	6.47E-05	4.24E-05	6.01E-05	2.95E-05
4825	564966	4222901	0.000424	0.000561	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.58E-05	4.31E-05	6.10E-05	3.00E-05
4826	564952.2	4222893	0.000437	0.000578	2.07E-04	2.32E-04	6.34E-04	2.07E-04	5.74E-05	1.13E-04	6.77E-05	4.44E-05	6.29E-05	3.09E-05
4827	564947	4222882	0.000456	0.000603	2.16E-04	2.42E-04	6.62E-04	2.16E-04	5.99E-05	1.18E-04	7.07E-05	4.64E-05	6.56E-05	3.23E-05
4828	564936.5	4222859	0.000499	0.00066	2.36E-04	2.64E-04	7.23E-04	2.36E-04	6.55E-05	1.29E-04	7.73E-05	5.07E-05	7.18E-05	3.53E-05
4829	564931.3	4222847	0.000522	0.00069	2.47E-04	2.77E-04	7.57E-04	2.47E-04	6.86E-05	1.35E-04	8.09E-05	5.31E-05	7.51E-05	3.69E-05
4830	564922.6	4222828	0.000564	0.000746	2.67E-04	2.99E-04	8.18E-04	2.67E-04	7.41E-05	1.46E-04	8.75E-05	5.74E-05	8.12E-05	3.99E-05
4831	564858.1	4222686	0.001007	0.001332	4.77E-04	5.34E-04	1.46E-03	4.77E-04	1.32E-04	2.60E-04	1.56E-04	1.02E-04	1.45E-04	7.12E-05
4832	564852.9	4222674	0.00105	0.001388	4.97E-04	5.57E-04	1.52E-03	4.97E-04	1.38E-04	2.71E-04	1.63E-04	1.07E-04	1.51E-04	7.42E-05
4833	564847.6	4222663	0.001093	0.001445	5.18E-04	5.80E-04	1.58E-03	5.18E-04	1.44E-04	2.82E-04	1.69E-04	1.11E-04	1.57E-04	7.73E-05
4834	564837.2	4222640	0.001179	0.00156	5.59E-04	6.25E-04	1.71E-03	5.59E-04	1.55E-04	3.05E-04	1.83E-04	1.20E-04	1.70E-04	8.34E-05
4835	564832	4222628	0.001222	0.001616	5.79E-04	6.48E-04	1.77E-03	5.79E-04	1.61E-04	3.16E-04	1.89E-04	1.24E-04	1.76E-04	8.64E-05
4836	564767.5	4222486	0.001657	0.002192	7.85E-04	8.79E-04	2.40E-03	7.85E-04	2.18E-04	4.28E-04	2.57E-04	1.68E-04	2.38E-04	1.17E-04
4837	565330.8	4223036	0.000289	0.000382	1.37E-04	1.53E-04	4.18E-04	1.37E-04	3.79E-05	7.46E-05	4.47E-05	2.93E-05	4.15E-05	2.04E-05
4838	565318.7	4223032	0.000289	0.000383	1.37E-04	1.53E-04	4.20E-04	1.37E-04	3.80E-05	7.48E-05	4.49E-05	2.94E-05	4.16E-05	2.05E-05
4839	565306.6	4223028	0.000291	0.000384	1.38E-04	1.54E-04	4.21E-04	1.38E-04	3.82E-05	7.51E-05	4.51E-05	2.95E-05	4.18E-05	2.06E-05
4840	565282.5	4223020	0.000294	0.000388	1.39E-04	1.56E-04	4.26E-04	1.39E-04	3.86E-05	7.59E-05	4.55E-05	2.98E-05	4.22E-05	2.08E-05
4841	565270.4	4223016	0.000296	0.000391	1.40E-04	1.57E-04	4.28E-04	1.40E-04	3.88E-05	7.63E-05	4.58E-05	3.00E-05	4.25E-05	2.09E-05
4842	565258.4	4223013	0.000298	0.000394	1.41E-04	1.58E-04	4.32E-04	1.41E-04	3.91E-05	7.69E-05	4.61E-05	3.02E-05	4.28E-05	2.11E-05
4843	565246.3	4223009	0.0003	0.000397	1.42E-04	1.59E-04	4.35E-04	1.42E-04	3.94E-05	7.75E-05	4.65E-05	3.05E-05	4.32E-05	2.12E-05
4844	565234.2	4223005	0.000303	0.0004	1.43E-04	1.60E-04	4.39E-04	1.43E-04	3.97E-05	7.82E-05	4.69E-05	3.08E-05	4.35E-05	2.14E-05
4845	565222.2	4223001	0.000305	0.000404	1.45E-04	1.62E-04	4.43E-04	1.45E-04	4.01E-05	7.89E-05	4.74E-05	3.10E-05	4.39E-05	2.16E-05
4846	565198.1	4222994	0.000312	0.000412	1.48E-04	1.65E-04	4.52E-04	1.48E-04	4.09E-05	8.05E-05	4.83E-05	3.17E-05	4.48E-05	2.20E-05
4847	565186	4222990	0.000315	0.000417	1.49E-04	1.67E-04	4.57E-04	1.49E-04	4.14E-05	8.14E-05	4.89E-05	3.20E-05	4.53E-05	2.23E-05
4848	565173.9	4222986	0.000319	0.000421	1.51E-04	1.69E-04	4.62E-04	1.51E-04	4.19E-05	8.23E-05	4.94E-05	3.24E-05	4.58E-05	2.25E-05
4849	565161.9	4222982	0.000322	0.000426	1.53E-04	1.71E-04	4.67E-04	1.53E-04	4.23E-05	8.33E-05	5.00E-05	3.28E-05	4.64E-05	2.28E-05
4850	565149.8	4222978	0.000326	0.000431	1.54E-04	1.73E-04	4.73E-04	1.54E-04	4.28E-05	8.42E-05	5.06E-05	3.31E-05	4.69E-05	2.31E-05
4851	565137.7	4222975	0.00033	0.000436	1.56E-04	1.75E-04	4.78E-04	1.56E-04	4.33E-05	8.52E-05	5.11E-05	3.35E-05	4.75E-05	2.33E-05
4852	565113.6	4222967	0.000338	0.000447	1.60E-04	1.79E-04	4.90E-04	1.60E-04	4.44E-05	8.73E-05	5.24E-05	3.43E-05	4.86E-05	2.39E-05
4853	565101.5	4222963	0.000342	0.000452	1.62E-04	1.81E-04	4.96E-04	1.62E-04	4.49E-05	8.84E-05	5.30E-05	3.48E-05	4.92E-05	2.42E-05
4854	565089.5	4222959	0.000346	0.000458	1.64E-04	1.84E-04	5.02E-04	1.64E-04	4.55E-05	8.94E-05	5.37E-05	3.52E-05	4.98E-05	2.45E-05
4855	565077.4	4222955	0.00035	0.000464	1.66E-04	1.86E-04	5.08E-04	1.66E-04	4.60E-05	9.05E-05	5.43E-05	3.56E-05	5.04E-05	2.48E-05
4856	565065.3	4222952	0.000355	0.000469	1.68E-04	1.88E-04	5.14E-04	1.68E-04	4.66E-05	9.17E-05	5.50E-05	3.61E-05	5.10E-05	2.51E-05
4857	565053.3	4222948	0.000359	0.000475	1.70E-04	1.91E-04	5.21E-04	1.70E-04	4.72E-05	9.28E-05	5.57E-05	3.65E-05	5.17E-05	2.54E-05
4858	565029.2	4222940	0.000369	0.000488	1.75E-04	1.96E-04	5.35E-04	1.75E-04	4.84E-05	9.53E-05	5.72E-05	3.75E-05	5.30E-05	2.61E-05
4859	565017.1	4222936	0.000374	0.000494	1.77E-04	1.98E-04	5.42E-04	1.77E-04	4.91E-05	9.65E-05	5.79E-05	3.80E-05	5.38E-05	2.64E-05
4860	565005	4222933	0.000379	0.000501	1.79E-04	2.01E-04	5.49E-04	1.79E-04	4.98E-05	9.79E-05	5.87E-05	3.85E-05	5.45E-05	2.68E-05
4861	564993	4222929	0.000384	0.000508	1.82E-04	2.04E-04	5.57E-04	1.82E-04	5.05E-05	9.92E-05	5.96E-05	3.90E-05	5.53E-05	2.72E-05
4862	564980.9	4222925	0.00039	0.000515	1.85E-04	2.07E-04	5.65E-04	1.85E-04	5.12E-05	1.01E-04	6.04E-05	3.96E-05	5.61E-05	2.76E-05
4863	564968.8	4222921	0.000395	0.000523	1.87E-04	2.10E-04	5.73E-04	1.87E-04	5.19E-05	1.02E-04	6.13E-05	4.02E-05	5.69E-05	2.80E-05
4864	564956.8	4222917	0.000401	0.000531	1.90E-04	2.13E-04	5.82E-04	1.90E-04	5.27E-05	1.04E-04	6.22E-05	4.08E-05	5.77E-05	2.84E-05
4865	564944.7	4222913	0.000408	0.000539	1.93E-04	2.16E-04	5.91E-04	1.93E-04	5.35E-05	1.05E-04	6.32E-05	4.14E-05	5.86E-05	2.88E-05
4866	564937.2	4222905	0.000421	0.000557	1.99E-04	2.23E-04	6.10E-04	1.99E-04	5.53E-05	1.09E-04	6.53E-05	4.28E-05	6.06E-05	2.98E-05
4867	564932	4222893	0.000439	0.000581	2.08E-04	2.33E-04	6.37E-04	2.08E-04	5.77E-05	1.13E-04	6.81E-05	4.46E-05	6.32E-05	3.11E-05
4868	564926.8	4222881	0.000459	0.000606	2.17E-04	2.43E-04	6.65E-04	2.17E-04	6.02E-05	1.18E-04	7.11E-05	4.66E-05	6.60E-05	3.24E-05
4869	564921.5	4222870	0.000479	0.000634	2.27E-04	2.54E-04	6.95E-04	2.27E-04	6.29E-05	1.24E-04	7.43E-05	4.87E-05	6.89E-05	3.39E-05
4870	564916.3	4222858	0.000501	0.000662	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.77E-05	5.09E-05	7.21E-05	3.54E-05
4871	564911.1	4222847	0.000524	0.000693	2.48E-04	2.78E-04	7.60E-04	2.48E-04	6.88E-05	1.35E-04	8.12E-05	5.33E-05	7.54E-05	3.71E-05
4872	564904.1	4222832	0.000557	0.000737	2.64E-04	2.96E-04	8.08E-04	2.64E-04	7.32E-05	1.44E-04	8.64E-05	5.66E-05	8.02E-05	3.94E-05
4873	564845	4222701	0.000938	0.001241	4.45E-04	4.97E-04	1.36E-03	4.45E-04	1.23E-04	2.42E-04	1.45E-04	9.54E-05	1.35E-04	6.64E-05
4874	564839.7	4222689	0.000978	0.001293	4.63E-04	5.19E-04	1.42E-03	4.63E-04	1.28E-04	2.53E-04	1.52E-04	9.94E-05	1.41E-04	6.92E-05
4875	564834.5	4222678	0.001018	0.001347	4.82E-04	5.40E-04	1.48E-03	4.82E-04	1.34E-04	2.63E-04	1.58E-04	1.03E-04	1.46E-04	7.20E-05
4876	564829.3	4222666	0.001059	0.0014	5.01E-04	5.61E-04	1.53E-03	5.01E-04	1.39E-04	2.73E-04	1.64E-04	1.08E-04	1.52E-04	7.49E-05
4877	564824.1	4222655	0.001099	0.001453	5.21E-04	5.83E-04	1.59E-03	5.21E-04	1.44E-04	2.84E-04	1.70E-04	1.12E-04	1.58E-04	7.77E-05
4878	564749.2	4222490	0.00158	0.00209	7.49E-04	8.38E-04	2.29E-03	7.49E-04	2.08E-04	4.08E-04	2.45E-04	1.61E-04	2.27E-04	1.12E-04
4879	565333.1	4223055	0.000275	0.000364	1.30E-04	1.46E-04	3.98E-04	1.30E-04	3.61E-05	7.10E-05	4.26E-05	2.79E-05	3.95E-05	1.94E-05
4880	565321	4223052	0.000276	0.000365	1.31E-04	1.46E-04	4.00E-04	1.31E-04	3.62E-05	7.12E-05	4.27E-05	2.80E-05	3.96E-05	1.95E-05
4881	565309	4223048	0.000277	0.000366	1.31E-04	1.47E-04	4.01E-04	1.31E-04	3.63E-05	7.15E-05	4.29E-05	2.81E-05	3.98E-05	1.96E-05
4882	565284.9	4223040	0.000279	0.000369	1.32E-04	1.48E-04	4.05E-04	1.32E-04	3.67E-05	7.21E-05	4.33E-05	2.84E-05	4.02E-05	1.97E-05
4883	565272.8	4223036	0.000281	0.000371	1.33E-04	1.49E-04	4.07E-04	1.33E-04	3.69E-05	7.25E-05	4.35E-05	2.85E-05	4.04E-05	1.99E-05
4884	565260.8	4223033	0.000283	0.000374	1.34E-04	1.50E-04	4.10E-04	1.34E-04	3.71E-05	7.30E-05	4.38E-05	2.87E-05	4.07E-05	2.00E-05
4885	565248.7	4223029	0.000285	0.000377	1.35E-04	1.51E-04	4.13E-04	1.35E-04	3.74E-05	7.36E-05	4.41E-05	2.89E-05	4.10E-05	2.01E-05
4886	565236.7	4223025	0.000287	0.00038	1.36E-04	1.52E-04	4.16E-04	1.36E-04	3.77E-05	7.41E-05	4.45E-05	2.92E-05	4.13E-05	2.03E-05
4887	565224.6	4223021	0.000289	0.000383	1.37E-04	1.53E-04	4.20E-04	1.37E-04	3.80E-05	7.48E-05	4.49E-05	2.94E-05	4.16E-05	2.05E-05
4888	565212.6	4223017	0.000292	0.000386	1.38E-04	1.55E-04	4.24E-04	1.38E-04	3.84E-05	7.55E-05	4.53E-05	2.97E-05	4.20E-05	2.07E-05
4889	565188.5	4223010	0.000298	0.000394	1.41E-04	1.58E-04	4.32E-04	1.41E-04	3.92E-05	7.70E-05	4.62E-05	3.03E-05	4.29E-05	2.11E-05
4890	565176.4	4223006	0.000301	0.000399	1.43E-04	1.60E-04	4.37E-04	1.43E-04	3.96E-05	7.79E-05	4.67E-05	3.06E-05	4.33E-05	2.13E-05
4891	565164.4	4223002	0.000305	0.000403	1.44E-04	1.62E-04	4.42E-04	1.44E-04	4.00E-05	7.87E-05	4.72E-05	3.10E-05	4.38E-05	2.15E-05
4892	565104.1	4222983	0.000323	0.000427	1.53E-04	1.71E-04	4.68E-04	1.53E-04	4.24E-05	8.33E-05	5.00E-05	3.28E-05	4.64E-05	2.28E-05
4893	565092.1	4222979	0.000326	0.000432	1.55E-04	1.73E-04	4.73E-04	1.55E-04	4.29E-05	8.43E-05	5.06E-05	3.32E-05	4.69E-05	2.31E-05
4894	565080	4222975	0.00033	0.000437	1.56E-04	1.75E-04	4.79E-04	1.56E-04	4.34E-05	8.53E-05	5.12E-05	3.36E-05	4.75E-05	2.33E-05
4895	565068	4222972	0.000334	0.000442	1.58E-04	1.77E-04	4.84E-04	1.58E-04	4.39E-05	8.63E-05	5.18E-05	3.40E-05	4.81E-05	2.36E-05
4896	565055.9	4222968	0.000338	0.000447	1.60E-04	1.79E-04	4.90E-04	1.60E-04	4.44E-05	8.73E-05	5.24E-05	3.44E-05	4.86E-05	2.39E-05
4897	565043.9	4222964	0.000342	0.000453	1.62E-04	1.81E-04	4.96E-04	1.62E-04	4.49E-05	8.84E-05	5.31E-05	3.48E-05	4.92E-05	2.42E-05
4898	565019.8	4222956	0.000351	0.000464	1.66E-04	1.86E-04	5.09E-04	1.66E-04	4.61E-05	9.06E-05	5.44E-05	3.57E-05	5.05E-05	2.48E-05
4899	565007.7	4222953	0.000355	0.00047	1.68E-04	1.88E-04	5.15E-04	1.68E-04	4.67E-05	9.18E-05	5.51E-05	3.61E-05	5.11E-05	2.51E-05
4900	564995.7	4222949	0.00036	0.000476	1.71E-04	1.91E-04	5.22E-04	1.71E-04	4.73E-05	9.30E-05	5.58E-05	3.66E-05	5.18E-05	2.55E-05
4901	564983.6	4222945	0.000365	0.000482	1.73E-04	1.93E-04	5.29E-04	1.73E-04	4.79E-05	9.43E-05	5.66E-05	3.71E-05	5.25E-05	2.58E-05
4902	564971.6	4222941	0.00037	0.000489	1.75E-04	1.96E-04	5.36E-04	1.75E-04	4.86E-05	9.56E-05	5.73E-05	3.76E-05	5.32E-05	2.62E-05
4903	564959.5	4222937	0.000375	0.000496	1.78E-04	1.99E-04	5.44E-04	1.78E-04	4.93E-05	9.69E-05	5.81E-05	3.81E-05	5.40E-05	2.65E-05
4904	564947.5	4222934	0.000381	0.000503	1.80E-04	2.02E-04	5.52E-04	1.80E-04	5.00E-05	9.83E-05	5.90E-05	3.87E-05	5.47E-05	2.69E-05
4905	564935.4	4222930	0.000386	0.000511	1.83E-04	2.05E-04	5.60E-04	1.83E-04	5.07E-05	9.98E-05	5.99E-05	3.92E-05	5.55E-05	2.73E-05
4906	564925.7	4222923	0.000395	0.000523	1.87E-04	2.10E-04	5.73E-04	1.87E-04	5.19E-05	1.02E-04	6.13E-05	4.02E-05	5.68E-05	2.79E-05
4907	564920.5	4222912	0.000412	0.000544	1.95E-04	2.18E-04	5.97E-04	1.95E-04	5.40E-05	1.06E-04	6.38E-05	4.18E-05	5.92E-05	2.91E-05
4908	564915.2	4222900	0.000429	0.000567	2.03E-04	2.27E-04	6.22E-04	2.03E-04	5.63E-05	1.11E-04	6.65E-05	4.36E-05	6.17E-05	3.03E-05
4909	564910	4222889	0.000448	0.000592	2.12E-04	2.37E-04	6.49E-04	2.12E-04	5.88E-05	1.16E-04	6.94E-05	4.55E-05	6.44E-05	3.16E-05
4910	564904.8	4222877	0.000467	0.000618	2.21E-04	2.48E-04	6.77E-04	2.21E-04	6.14E-05	1.21E-04	7.24E-05	4.75E-05	6.72E-05	3.30E-05
4911	564899.6	4222866	0.000488	0.000646	2.31E-04	2.59E-04	7.08E-04	2.31E-04	6.41E-05	1.26E-04	7.57E-05	4.96E-05	7.02E-05	3.45E-05

4912	564894.4	4222854	0.00051	0.000675	2.42E-04	2.71E-04	7.40E-04	2.42E-04	6.70E-05	1.32E-04	7.91E-05	5.19E-05	7.34E-05	3.61E-05
4913	564889.2	4222843	0.000534	0.000706	2.53E-04	2.83E-04	7.74E-04	2.53E-04	7.01E-05	1.38E-04	8.28E-05	5.43E-05	7.68E-05	3.78E-05
4914	564883.9	4222831	0.000559	0.000739	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.34E-05	1.44E-04	8.66E-05	5.68E-05	8.04E-05	3.95E-05
4915	564878.7	4222820	0.000585	0.000774	2.77E-04	3.10E-04	8.48E-04	2.77E-04	7.69E-05	1.51E-04	9.07E-05	5.95E-05	8.42E-05	4.14E-05
4916	564873.5	4222808	0.000613	0.00081	2.90E-04	3.25E-04	8.88E-04	2.90E-04	8.05E-05	1.58E-04	9.50E-05	6.23E-05	8.81E-05	4.33E-05
4917	564868.3	4222797	0.000642	0.000849	3.04E-04	3.40E-04	9.30E-04	3.04E-04	8.43E-05	1.66E-04	9.95E-05	6.52E-05	9.23E-05	4.54E-05
4918	564863.1	4222785	0.000672	0.000889	3.18E-04	3.56E-04	9.74E-04	3.18E-04	8.82E-05	1.74E-04	1.04E-04	6.83E-05	9.67E-05	4.75E-05
4919	564857.9	4222774	0.000703	0.00093	3.33E-04	3.73E-04	1.02E-03	3.33E-04	9.24E-05	1.82E-04	1.09E-04	7.15E-05	1.01E-04	4.97E-05
4920	564852.7	4222762	0.000736	0.000973	3.49E-04	3.90E-04	1.07E-03	3.49E-04	9.67E-05	1.90E-04	1.14E-04	7.48E-05	1.06E-04	5.21E-05
4921	564847.4	4222751	0.00077	0.001018	3.65E-04	4.08E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.19E-04	7.82E-05	1.11E-04	5.44E-05
4922	564842.2	4222739	0.000804	0.001064	3.81E-04	4.26E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.17E-05	1.16E-04	5.69E-05
4923	564837	4222728	0.00084	0.001111	3.98E-04	4.45E-04	1.22E-03	3.98E-04	1.10E-04	2.17E-04	1.30E-04	8.54E-05	1.21E-04	5.94E-05
4924	564831.8	4222716	0.000876	0.001159	4.15E-04	4.65E-04	1.27E-03	4.15E-04	1.15E-04	2.26E-04	1.36E-04	8.90E-05	1.26E-04	6.20E-05
4925	564826.6	4222705	0.000913	0.001208	4.33E-04	4.84E-04	1.32E-03	4.33E-04	1.20E-04	2.36E-04	1.42E-04	9.28E-05	1.31E-04	6.46E-05
4926	564821.4	4222693	0.00095	0.001257	4.50E-04	5.04E-04	1.38E-03	4.50E-04	1.25E-04	2.46E-04	1.47E-04	9.66E-05	1.37E-04	6.72E-05
4927	564816.1	4222682	0.000988	0.001307	4.68E-04	5.24E-04	1.43E-03	4.68E-04	1.30E-04	2.55E-04	1.53E-04	1.00E-04	1.42E-04	6.99E-05
4928	565045.8	4222984	0.000323	0.000427	1.53E-04	1.71E-04	4.68E-04	1.53E-04	4.24E-05	8.34E-05	5.01E-05	3.28E-05	4.64E-05	2.28E-05
4929	565036	4223001	0.000307	0.000407	1.46E-04	1.63E-04	4.46E-04	1.46E-04	4.04E-05	7.94E-05	4.77E-05	3.12E-05	4.42E-05	2.17E-05
4930	564894.5	4222482	0.002243	0.002966	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.95E-04	5.79E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
4931	564814.4	4222490	0.001818	0.002405	8.61E-04	9.64E-04	2.64E-03	8.61E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
4932	564794.4	4222489	0.001741	0.002302	8.25E-04	9.23E-04	2.52E-03	8.25E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.50E-04	1.23E-04
4933	565206.9	4222702	0.000996	0.001317	4.72E-04	5.28E-04	1.44E-03	4.72E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.04E-05
4934	565204.7	4222740	0.000803	0.001062	3.80E-04	4.26E-04	1.16E-03	3.80E-04	1.05E-04	2.07E-04	1.24E-04	8.16E-05	1.16E-04	5.68E-05
4935	565075.1	4222576	0.002172	0.002873	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.85E-04	5.61E-04	3.37E-04	2.21E-04	3.12E-04	1.54E-04
4936	565287.9	4222785	0.000645	0.000853	3.06E-04	3.42E-04	9.36E-04	3.06E-04	8.48E-05	1.67E-04	1.00E-04	6.56E-05	9.28E-05	4.56E-05
4937	565271.4	4222778	0.000664	0.000878	3.15E-04	3.52E-04	9.62E-04	3.15E-04	8.72E-05	1.71E-04	1.03E-04	6.75E-05	9.55E-05	4.69E-05
4938	565254.9	4222771	0.000685	0.000906	3.24E-04	3.63E-04	9.93E-04	3.24E-04	9.00E-05	1.77E-04	1.06E-04	6.96E-05	9.85E-05	4.84E-05
4939	565091.3	4222688	0.001107	0.001464	5.25E-04	5.87E-04	1.61E-03	5.25E-04	1.45E-04	2.86E-04	1.72E-04	1.13E-04	1.59E-04	7.83E-05
4940	565080.8	4222662	0.001287	0.001702	6.10E-04	6.82E-04	1.87E-03	6.10E-04	1.69E-04	3.32E-04	1.99E-04	1.31E-04	1.85E-04	9.10E-05
4941	565077.3	4222654	0.001353	0.001789	6.41E-04	7.17E-04	1.96E-03	6.41E-04	1.78E-04	3.49E-04	2.10E-04	1.37E-04	1.95E-04	9.57E-05
4942	565261.8	4222814	0.000569	0.000753	2.70E-04	3.02E-04	8.25E-04	2.70E-04	7.48E-05	1.47E-04	8.83E-05	5.79E-05	8.19E-05	4.03E-05
4943	565253.5	4222811	0.000577	0.000764	2.74E-04	3.06E-04	8.37E-04	2.74E-04	7.58E-05	1.49E-04	8.95E-05	5.87E-05	8.30E-05	4.08E-05
4944	565245.1	4222807	0.000586	0.000775	2.77E-04	3.11E-04	8.49E-04	2.77E-04	7.69E-05	1.51E-04	9.08E-05	5.95E-05	8.42E-05	4.14E-05
4945	565128.1	4222758	0.000747	0.000988	3.54E-04	3.96E-04	1.08E-03	3.54E-04	9.81E-05	1.93E-04	1.16E-04	7.59E-05	1.07E-04	5.28E-05
4946	565119.7	4222755	0.000762	0.001008	3.61E-04	4.04E-04	1.10E-03	3.61E-04	1.00E-04	1.97E-04	1.18E-04	7.74E-05	1.10E-04	5.39E-05
4947	565077.3	4222702	0.001018	0.001346	4.82E-04	5.40E-04	1.48E-03	4.82E-04	1.34E-04	2.63E-04	1.58E-04	1.03E-04	1.46E-04	7.20E-05
4948	565279	4222842	0.000513	0.000678	2.43E-04	2.72E-04	7.44E-04	2.43E-04	6.74E-05	1.32E-04	7.95E-05	5.21E-05	7.38E-05	3.63E-05
4949	565105.3	4222769	0.000713	0.000943	3.38E-04	3.78E-04	1.03E-03	3.38E-04	9.37E-05	1.84E-04	1.11E-04	7.25E-05	1.03E-04	5.04E-05
4950	565073.6	4222742	0.000822	0.001088	3.90E-04	4.36E-04	1.19E-03	3.90E-04	1.08E-04	2.12E-04	1.27E-04	8.36E-05	1.18E-04	5.82E-05
4951	565053.1	4222692	0.001076	0.001423	5.10E-04	5.71E-04	1.56E-03	5.10E-04	1.41E-04	2.78E-04	1.67E-04	1.09E-04	1.55E-04	7.61E-05
4952	564977.8	4222509	0.002499	0.003304	1.18E-03	1.32E-03	3.62E-03	1.18E-03	3.28E-04	6.45E-04	3.87E-04	2.54E-04	3.59E-04	1.77E-04
4953	565252.3	4222850	0.000495	0.000654	2.34E-04	2.62E-04	7.17E-04	2.34E-04	6.50E-05	1.28E-04	7.67E-05	5.03E-05	7.11E-05	3.50E-05
4954	565243.8	4222847	0.000501	0.000663	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.77E-05	5.09E-05	7.21E-05	3.54E-05
4955	565235.4	4222843	0.000508	0.000671	2.41E-04	2.69E-04	7.36E-04	2.41E-04	6.67E-05	1.31E-04	7.87E-05	5.16E-05	7.30E-05	3.59E-05
4956	565117	4222794	0.000633	0.000837	3.00E-04	3.35E-04	9.17E-04	3.00E-04	8.31E-05	1.63E-04	9.81E-05	6.43E-05	9.10E-05	4.47E-05
4957	565108.5	4222790	0.000644	0.000852	3.05E-04	3.42E-04	9.34E-04	3.05E-04	8.46E-05	1.66E-04	9.99E-05	6.55E-05	9.27E-05	4.56E-05
4958	565100.1	4222787	0.000656	0.000868	3.11E-04	3.48E-04	9.51E-04	3.11E-04	8.62E-05	1.69E-04	1.02E-04	6.67E-05	9.44E-05	4.64E-05
4959	565027.8	4222679	0.001148	0.001518	5.44E-04	6.08E-04	1.66E-03	5.44E-04	1.51E-04	2.96E-04	1.78E-04	1.17E-04	1.65E-04	8.12E-05
4960	565020.8	4222662	0.001255	0.001659	5.94E-04	6.65E-04	1.82E-03	5.94E-04	1.65E-04	3.24E-04	1.94E-04	1.28E-04	1.80E-04	8.87E-05
4961	564968.4	4222535	0.002198	0.002907	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.23E-04	3.16E-04	1.55E-04
4962	565244.6	4222867	0.000465	0.000615	2.20E-04	2.47E-04	6.74E-04	2.20E-04	6.11E-05	1.20E-04	7.21E-05	4.73E-05	6.69E-05	3.29E-05
4963	565236.2	4222864	0.000471	0.000623	2.23E-04	2.50E-04	6.82E-04	2.23E-04	6.18E-05	1.22E-04	7.30E-05	4.78E-05	6.77E-05	3.33E-05
4964	565020.9	4222711	0.000967	0.001279	4.58E-04	5.13E-04	1.40E-03	4.58E-04	1.27E-04	2.50E-04	1.50E-04	9.82E-05	1.39E-04	6.84E-05
4965	565014	4222694	0.001054	0.001394	4.99E-04	5.59E-04	1.53E-03	4.99E-04	1.38E-04	2.72E-04	1.63E-04	1.07E-04	1.52E-04	7.46E-05
4966	565007.1	4222677	0.001149	0.001519	5.44E-04	6.09E-04	1.67E-03	5.44E-04	1.51E-04	2.97E-04	1.78E-04	1.17E-04	1.65E-04	8.12E-05
4967	564958.6	4222560	0.001938	0.002562	9.18E-04	1.03E-03	2.81E-03	9.18E-04	2.54E-04	5.01E-04	3.00E-04	1.97E-04	2.79E-04	1.37E-04
4968	564951.7	4222543	0.002054	0.002716	9.73E-04	1.09E-03	2.98E-03	9.73E-04	2.70E-04	5.31E-04	3.18E-04	2.09E-04	2.95E-04	1.45E-04
4969	565245.3	4222888	0.000433	0.000573	2.05E-04	2.30E-04	6.28E-04	2.05E-04	5.69E-05	1.12E-04	6.71E-05	4.40E-05	6.23E-05	3.06E-05
4970	565237	4222884	0.000438	0.000579	2.08E-04	2.32E-04	6.35E-04	2.08E-04	5.75E-05	1.13E-04	6.79E-05	4.45E-05	6.30E-05	3.10E-05
4971	565228.7	4222881	0.000443	0.000586	2.10E-04	2.35E-04	6.43E-04	2.10E-04	5.82E-05	1.15E-04	6.87E-05	4.51E-05	6.38E-05	3.14E-05
4972	565095.9	4222825	0.000555	0.000734	2.63E-04	2.94E-04	8.04E-04	2.63E-04	7.29E-05	1.43E-04	8.60E-05	5.64E-05	7.98E-05	3.92E-05
4973	564996.7	4222701	0.001014	0.001341	4.80E-04	5.38E-04	1.47E-03	4.80E-04	1.33E-04	2.62E-04	1.57E-04	1.03E-04	1.46E-04	7.17E-05
4974	564938.4	4222559	0.001872	0.002475	8.87E-04	9.92E-04	2.71E-03	8.87E-04	2.46E-04	4.84E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
4975	564931.5	4222543	0.001975	0.002612	9.36E-04	1.05E-03	2.86E-03	9.36E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
4976	565235	4222903	0.00041	0.000543	1.94E-04	2.18E-04	5.95E-04	1.94E-04	5.39E-05	1.06E-04	6.36E-05	4.17E-05	5.90E-05	2.90E-05
4977	565226.5	4222900	0.000415	0.000549	1.97E-04	2.20E-04	6.02E-04	1.97E-04	5.45E-05	1.07E-04	6.44E-05	4.22E-05	5.97E-05	2.94E-05
4978	565218.1	4222896	0.00042	0.000556	1.99E-04	2.23E-04	6.09E-04	1.99E-04	5.52E-05	1.09E-04	6.51E-05	4.27E-05	6.04E-05	2.97E-05
4979	565099.7	4222847	0.000508	0.000672	2.41E-04	2.69E-04	7.37E-04	2.41E-04	6.67E-05	1.31E-04	7.88E-05	5.16E-05	7.31E-05	3.59E-05
4980	564988.7	4222730	0.000875	0.001157	4.14E-04	4.64E-04	1.27E-03	4.14E-04	1.15E-04	2.26E-04	1.36E-04	8.89E-05	1.26E-04	6.19E-05
4981	564978.2	4222704	0.000989	0.001308	4.69E-04	5.25E-04	1.43E-03	4.69E-04	1.30E-04	2.56E-04	1.53E-04	1.01E-04	1.42E-04	7.00E-05
4982	564974.7	4222696	0.001031	0.001363	4.88E-04	5.46E-04	1.49E-03	4.88E-04	1.35E-04	2.66E-04	1.60E-04	1.05E-04	1.48E-04	7.29E-05
4983	564918.8	4222560	0.001799	0.002379	8.52E-04	9.54E-04	2.61E-03	8.52E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
4984	565235.7	4222924	0.000384	0.000508	1.82E-04	2.04E-04	5.57E-04	1.82E-04	5.05E-05	9.93E-05	5.96E-05	3.91E-05	5.53E-05	2.72E-05
4985	565227.4	4222920	0.000388	0.000514	1.84E-04	2.06E-04	5.63E-04	1.84E-04	5.10E-05	1.00E-04	6.02E-05	3.95E-05	5.59E-05	2.75E-05
4986	565219	4222917	0.000393	0.000519	1.86E-04	2.08E-04	5.69E-04	1.86E-04	5.16E-05	1.01E-04	6.09E-05	3.99E-05	5.65E-05	2.78E-05
4987	565084.9	4222860	0.000483	0.000639	2.29E-04	2.56E-04	7.01E-04	2.29E-04	6.35E-05	1.25E-04	7.49E-05	4.91E-05	6.95E-05	3.42E-05
4988	564964.4	4222719	0.000916	0.001211	4.34E-04	4.86E-04	1.33E-03	4.34E-04	1.20E-04	2.37E-04	1.42E-04	9.31E-05	1.32E-04	6.48E-05
4989	564961	4222711	0.000953	0.00126	4.51E-04	5.05E-04	1.38E-03	4.51E-04	1.25E-04	2.46E-04	1.48E-04	9.68E-05	1.37E-04	6.74E-05
4990	564905.6	4222577	0.00165	0.002182	7.81E-04	8.75E-04	2.39E-03	7.81E-04	2.17E-04	4.26E-04	2.56E-04	1.68E-04	2.37E-04	1.17E-04
4991	564991.9	4222834	0.000545	0.00072	2.58E-04	2.89E-04	7.90E-04	2.58E-04	7.15E-05	1.41E-04	8.44E-05	5.53E-05	7.83E-05	3.85E-05
4992	564947.2	4222726	0.000884	0.001169	4.19E-04	4.68E-04	1.28E-03	4.19E-04	1.16E-04	2.28E-04	1.37E-04	8.98E-05	1.27E-04	6.25E-05
4993	564943.7	4222718	0.000918	0.001214	4.35E-04	4.87E-04	1.33E-03	4.35E-04	1.21E-04	2.37E-04	1.42E-04	9.33E-05	1.32E-04	6.49E-05
4994	564885.3	4222576	0.001598	0.002114	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
4995	564977.6	4222848	0.000516	0.000682	2.44E-04	2.74E-04	7.48E-04	2.44E-04	6.78E-05	1.33E-04	8.00E-05	5.24E-05	7.42E-05	3.65E-05
4996	564932.2	4222738	0.000832	0.001101	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.46E-05	1.20E-04	5.89E-05
4997	564925.2	4222721	0.000897	0.001187	4.25E-04	4.76E-04	1.30E-03	4.25E-04	1.18E-04	2.32E-04	1.39E-04	9.12E-05	1.29E-04	6.35E-05
4998	564872.8	4222594	0.001464	0.001936	6.94E-04	7.76E-04	2.12E-03	6.94E-04	1.92E-04	3.78E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
4999	565201.7	4222970	0.000334	0.000442	1.58E-04	1.77E-04	4.84E-04	1.58E-04	4.38E-05	8.63E-05	5.18E-05	3.39E-05	4.80E-05	2.36E-05
5000	565193.3	4222966	0.000337	0.000446	1.60E-04	1.79E-04	4.89E-04	1.60E-04	4.43E-05	8.72E-05	5.23E-05	3.43E-05	4.85E-05	2.39E-05
5001	565176.6	4222959	0.000345	0.000456	1.63E-04	1.83E-04	5.00E-04	1.63E-04	4.53E-05	8.90E-05	5.34E-05	3.50E-05	4.96E-05	2.44E-05
5002	565168.2	4222956	0.000348	0.000461	1.65E-04	1.85E-04	5.05E-04	1.65E-04	4.58E-05	9.00E-05	5.40E-05	3.54E-05	5.01E-05	2.46E-05

5003	565159.8	4222952	0.000352	0.000466	1.67E-04	1.87E-04	5.11E-04	1.67E-04	4.63E-05	9.10E-05	5.46E-05	3.58E-05	5.07E-05	2.49E-05
5004	564914.9	4222745	0.000805	0.001065	3.81E-04	4.27E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.18E-05	1.16E-04	5.69E-05
5005	564911.4	4222736	0.000835	0.001104	3.95E-04	4.43E-04	1.21E-03	3.95E-04	1.10E-04	2.16E-04	1.29E-04	8.48E-05	1.20E-04	5.90E-05
5006	564856	4222602	0.001388	0.001835	6.57E-04	7.36E-04	2.01E-03	6.57E-04	1.82E-04	3.59E-04	2.15E-04	1.41E-04	2.00E-04	9.81E-05
5007	564849	4222585	0.001458	0.001928	6.91E-04	7.73E-04	2.11E-03	6.91E-04	1.91E-04	3.77E-04	2.26E-04	1.48E-04	2.10E-04	1.03E-04
5008	565157	4222971	0.000333	0.000441	1.58E-04	1.77E-04	4.83E-04	1.58E-04	4.37E-05	8.61E-05	5.16E-05	3.39E-05	4.79E-05	2.36E-05
5009	565148.5	4222967	0.000337	0.000445	1.60E-04	1.79E-04	4.88E-04	1.60E-04	4.42E-05	8.70E-05	5.22E-05	3.42E-05	4.84E-05	2.38E-05
5010	564986.8	4222899	0.000425	0.000562	2.01E-04	2.25E-04	6.17E-04	2.01E-04	5.58E-05	1.10E-04	6.59E-05	4.32E-05	6.12E-05	3.01E-05
5011	564978.3	4222896	0.000431	0.00057	2.04E-04	2.29E-04	6.25E-04	2.04E-04	5.66E-05	1.11E-04	6.69E-05	4.38E-05	6.20E-05	3.05E-05
5012	564961.2	4222889	0.000444	0.000587	2.10E-04	2.35E-04	6.44E-04	2.10E-04	5.83E-05	1.15E-04	6.88E-05	4.51E-05	6.39E-05	3.14E-05
5013	564899.9	4222757	0.000761	0.001006	3.60E-04	4.03E-04	1.10E-03	3.60E-04	9.99E-05	1.97E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05
5014	564896.4	4222749	0.000789	0.001043	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.58E-05
5015	564892.9	4222740	0.000817	0.001081	3.87E-04	4.33E-04	1.18E-03	3.87E-04	1.07E-04	2.11E-04	1.27E-04	8.31E-05	1.18E-04	5.78E-05
5016	564840.1	4222612	0.001309	0.001731	6.20E-04	6.94E-04	1.90E-03	6.20E-04	1.72E-04	3.38E-04	2.03E-04	1.33E-04	1.88E-04	9.25E-05
5017	564836.6	4222603	0.001342	0.001775	6.36E-04	7.12E-04	1.95E-03	6.36E-04	1.76E-04	3.47E-04	2.08E-04	1.36E-04	1.93E-04	9.49E-05
5018	565335.8	4223046	0.000282	0.000373	1.34E-04	1.49E-04	4.09E-04	1.34E-04	3.70E-05	7.28E-05	4.37E-05	2.86E-05	4.05E-05	1.99E-05
5019	565327.2	4223062	0.000269	0.000356	1.28E-04	1.43E-04	3.90E-04	1.28E-04	3.54E-05	6.96E-05	4.17E-05	2.74E-05	3.87E-05	1.90E-05
5020	565158.2	4222991	0.000314	0.000415	1.49E-04	1.66E-04	4.55E-04	1.49E-04	4.12E-05	8.11E-05	4.87E-05	3.19E-05	4.52E-05	2.22E-05
5021	565149.8	4222988	0.000317	0.00042	1.50E-04	1.68E-04	4.60E-04	1.50E-04	4.17E-05	8.20E-05	4.92E-05	3.22E-05	4.56E-05	2.24E-05
5022	565141.3	4222984	0.000321	0.000424	1.52E-04	1.70E-04	4.65E-04	1.52E-04	4.21E-05	8.28E-05	4.97E-05	3.26E-05	4.61E-05	2.27E-05
5023	564963.9	4222910	0.000411	0.000544	1.95E-04	2.18E-04	5.96E-04	1.95E-04	5.40E-05	1.06E-04	6.38E-05	4.18E-05	5.92E-05	2.91E-05
5024	564955.4	4222906	0.000417	0.000552	1.98E-04	2.21E-04	6.05E-04	1.98E-04	5.48E-05	1.08E-04	6.47E-05	4.24E-05	6.00E-05	2.95E-05
5025	564947	4222903	0.000423	0.000559	2.00E-04	2.24E-04	6.13E-04	2.00E-04	5.56E-05	1.09E-04	6.56E-05	4.30E-05	6.09E-05	2.99E-05
5026	564882.7	4222764	0.000737	0.000975	3.49E-04	3.91E-04	1.07E-03	3.49E-04	9.68E-05	1.90E-04	1.14E-04	7.49E-05	1.06E-04	5.21E-05
5027	564879.2	4222755	0.000763	0.001009	3.62E-04	4.05E-04	1.11E-03	3.62E-04	1.00E-04	1.97E-04	1.18E-04	7.76E-05	1.10E-04	5.40E-05
5028	564823.3	4222620	0.001245	0.001647	5.90E-04	6.60E-04	1.80E-03	5.90E-04	1.64E-04	3.22E-04	1.93E-04	1.27E-04	1.79E-04	8.81E-05
5029	564816.3	4222603	0.001306	0.001727	6.19E-04	6.93E-04	1.89E-03	6.19E-04	1.72E-04	3.37E-04	2.02E-04	1.33E-04	1.88E-04	9.24E-05
5030	565335.6	4223066	0.000268	0.000355	1.27E-04	1.42E-04	3.89E-04	1.27E-04	3.52E-05	6.93E-05	4.16E-05	2.73E-05	3.86E-05	1.90E-05
5031	565327.1	4223082	0.000257	0.000339	1.22E-04	1.36E-04	3.72E-04	1.22E-04	3.37E-05	6.63E-05	3.98E-05	2.61E-05	3.69E-05	1.81E-05
5032	565318.7	4223079	0.000258	0.000341	1.22E-04	1.37E-04	3.73E-04	1.22E-04	3.38E-05	6.66E-05	3.99E-05	2.62E-05	3.71E-05	1.82E-05
5033	565310.3	4223075	0.000259	0.000342	1.23E-04	1.37E-04	3.75E-04	1.23E-04	3.40E-05	6.68E-05	4.01E-05	2.63E-05	3.72E-05	1.83E-05
5034	565285.2	4223065	0.000263	0.000347	1.24E-04	1.39E-04	3.81E-04	1.24E-04	3.45E-05	6.78E-05	4.07E-05	2.67E-05	3.78E-05	1.86E-05
5035	565276.8	4223061	0.000264	0.000349	1.25E-04	1.40E-04	3.83E-04	1.25E-04	3.47E-05	6.82E-05	4.09E-05	2.68E-05	3.80E-05	1.87E-05
5036	565268.4	4223058	0.000266	0.000351	1.26E-04	1.41E-04	3.85E-04	1.26E-04	3.49E-05	6.87E-05	4.12E-05	2.70E-05	3.82E-05	1.88E-05
5037	565260	4223054	0.000267	0.000354	1.27E-04	1.42E-04	3.88E-04	1.27E-04	3.51E-05	6.91E-05	4.15E-05	2.72E-05	3.85E-05	1.89E-05
5038	565251.6	4223051	0.000269	0.000356	1.28E-04	1.43E-04	3.90E-04	1.28E-04	3.54E-05	6.96E-05	4.18E-05	2.74E-05	3.87E-05	1.90E-05
5039	565243.2	4223047	0.000271	0.000359	1.29E-04	1.44E-04	3.93E-04	1.29E-04	3.56E-05	7.01E-05	4.21E-05	2.76E-05	3.90E-05	1.92E-05
5040	565234.8	4223044	0.000273	0.000362	1.30E-04	1.45E-04	3.96E-04	1.30E-04	3.59E-05	7.06E-05	4.24E-05	2.78E-05	3.93E-05	1.93E-05
5041	565226.4	4223040	0.000276	0.000364	1.31E-04	1.46E-04	4.00E-04	1.31E-04	3.62E-05	7.12E-05	4.27E-05	2.80E-05	3.96E-05	1.95E-05
5042	565218	4223037	0.000278	0.000367	1.32E-04	1.47E-04	4.03E-04	1.32E-04	3.65E-05	7.18E-05	4.31E-05	2.82E-05	4.00E-05	1.97E-05
5043	565209.6	4223033	0.00028	0.000371	1.33E-04	1.49E-04	4.06E-04	1.33E-04	3.68E-05	7.24E-05	4.34E-05	2.85E-05	4.03E-05	1.98E-05
5044	564966.3	4222931	0.000383	0.000506	1.81E-04	2.03E-04	5.55E-04	1.81E-04	5.03E-05	9.89E-05	5.93E-05	3.89E-05	5.51E-05	2.71E-05
5045	564957.9	4222927	0.000388	0.000513	1.84E-04	2.06E-04	5.62E-04	1.84E-04	5.09E-05	1.00E-04	6.01E-05	3.94E-05	5.58E-05	2.74E-05
5046	564949.5	4222924	0.000393	0.00052	1.86E-04	2.08E-04	5.70E-04	1.86E-04	5.16E-05	1.02E-04	6.09E-05	3.99E-05	5.65E-05	2.78E-05
5047	564932.7	4222917	0.000404	0.000534	1.91E-04	2.14E-04	5.85E-04	1.91E-04	5.30E-05	1.04E-04	6.26E-05	4.10E-05	5.81E-05	2.85E-05
5048	564872.3	4222787	0.000668	0.000883	3.16E-04	3.54E-04	9.68E-04	3.16E-04	8.77E-05	1.72E-04	1.04E-04	6.79E-05	9.60E-05	4.72E-05
5049	564861.9	4222762	0.000739	0.000977	3.50E-04	3.92E-04	1.07E-03	3.50E-04	9.71E-05	1.91E-04	1.15E-04	7.51E-05	1.06E-04	5.23E-05
5050	564855	4222745	0.00079	0.001045	3.74E-04	4.19E-04	1.15E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.03E-05	1.14E-04	5.59E-05
5051	565335.5	4223086	0.000256	0.000338	1.21E-04	1.36E-04	3.71E-04	1.21E-04	3.36E-05	6.61E-05	3.96E-05	2.60E-05	3.68E-05	1.81E-05
5052	565326.9	4223102	0.000245	0.000324	1.16E-04	1.30E-04	3.55E-04	1.16E-04	3.22E-05	6.33E-05	3.80E-05	2.49E-05	3.52E-05	1.73E-05
5053	565318.4	4223099	0.000246	0.000325	1.16E-04	1.30E-04	3.56E-04	1.16E-04	3.23E-05	6.35E-05	3.81E-05	2.50E-05	3.54E-05	1.74E-05
5054	565309.9	4223095	0.000247	0.000326	1.17E-04	1.31E-04	3.58E-04	1.17E-04	3.24E-05	6.38E-05	3.83E-05	2.51E-05	3.55E-05	1.75E-05
5055	565292.8	4223088	0.000249	0.000329	1.18E-04	1.32E-04	3.61E-04	1.18E-04	3.27E-05	6.43E-05	3.86E-05	2.53E-05	3.58E-05	1.76E-05
5056	565284.3	4223085	0.00025	0.000331	1.19E-04	1.33E-04	3.63E-04	1.19E-04	3.29E-05	6.47E-05	3.88E-05	2.54E-05	3.60E-05	1.77E-05
5057	565190.8	4223045	0.000271	0.000359	1.29E-04	1.44E-04	3.94E-04	1.29E-04	3.57E-05	7.01E-05	4.21E-05	2.76E-05	3.91E-05	1.92E-05
5058	565182.3	4223042	0.000274	0.000362	1.30E-04	1.45E-04	3.97E-04	1.30E-04	3.60E-05	7.08E-05	4.25E-05	2.78E-05	3.94E-05	1.94E-05
5059	565173.8	4223038	0.000277	0.000366	1.31E-04	1.47E-04	4.01E-04	1.31E-04	3.63E-05	7.14E-05	4.29E-05	2.81E-05	3.98E-05	1.96E-05
5060	565165.3	4223035	0.000279	0.000369	1.32E-04	1.48E-04	4.05E-04	1.32E-04	3.67E-05	7.21E-05	4.33E-05	2.84E-05	4.02E-05	1.97E-05
5061	565156.8	4223031	0.000282	0.000373	1.34E-04	1.49E-04	4.09E-04	1.34E-04	3.70E-05	7.28E-05	4.37E-05	2.86E-05	4.06E-05	1.99E-05
5062	565148.3	4223027	0.000285	0.000377	1.35E-04	1.51E-04	4.13E-04	1.35E-04	3.74E-05	7.35E-05	4.41E-05	2.89E-05	4.10E-05	2.01E-05
5063	565139.8	4223024	0.000288	0.00038	1.36E-04	1.52E-04	4.17E-04	1.36E-04	3.78E-05	7.43E-05	4.46E-05	2.92E-05	4.14E-05	2.03E-05
5064	565131.3	4223020	0.00029	0.000384	1.38E-04	1.54E-04	4.21E-04	1.38E-04	3.81E-05	7.50E-05	4.50E-05	2.95E-05	4.18E-05	2.05E-05
5065	565122.8	4223017	0.000293	0.000388	1.39E-04	1.56E-04	4.25E-04	1.39E-04	3.85E-05	7.58E-05	4.55E-05	2.98E-05	4.22E-05	2.07E-05
5066	565114.3	4223013	0.000296	0.000392	1.40E-04	1.57E-04	4.30E-04	1.40E-04	3.89E-05	7.66E-05	4.59E-05	3.01E-05	4.26E-05	2.10E-05
5067	565097.2	4223006	0.000303	0.0004	1.43E-04	1.60E-04	4.39E-04	1.43E-04	3.97E-05	7.82E-05	4.69E-05	3.07E-05	4.35E-05	2.14E-05
5068	565088.7	4223002	0.000306	0.000404	1.45E-04	1.62E-04	4.43E-04	1.45E-04	4.01E-05	7.90E-05	4.74E-05	3.11E-05	4.40E-05	2.16E-05
5069	565080.2	4222999	0.000309	0.000408	1.46E-04	1.64E-04	4.48E-04	1.46E-04	4.06E-05	7.98E-05	4.79E-05	3.14E-05	4.44E-05	2.18E-05
5070	565071.7	4222995	0.000312	0.000413	1.48E-04	1.65E-04	4.52E-04	1.48E-04	4.10E-05	8.06E-05	4.84E-05	3.17E-05	4.49E-05	2.21E-05
5071	565063.2	4222992	0.000315	0.000417	1.49E-04	1.67E-04	4.57E-04	1.49E-04	4.14E-05	8.15E-05	4.89E-05	3.21E-05	4.54E-05	2.23E-05
5072	565054.7	4222988	0.000319	0.000422	1.51E-04	1.69E-04	4.62E-04	1.51E-04	4.19E-05	8.23E-05	4.94E-05	3.24E-05	4.58E-05	2.25E-05
5073	565020.7	4222974	0.000333	0.00044	1.58E-04	1.76E-04	4.83E-04	1.58E-04	4.37E-05	8.60E-05	5.16E-05	3.38E-05	4.79E-05	2.35E-05
5074	565012.2	4222970	0.000337	0.000445	1.59E-04	1.78E-04	4.88E-04	1.59E-04	4.42E-05	8.69E-05	5.22E-05	3.42E-05	4.84E-05	2.38E-05
5075	565003.7	4222967	0.00034	0.00045	1.61E-04	1.80E-04	4.94E-04	1.61E-04	4.47E-05	8.79E-05	5.28E-05	3.46E-05	4.90E-05	2.41E-05
5076	564995.2	4222963	0.000344	0.000455	1.63E-04	1.83E-04	4.99E-04	1.63E-04	4.52E-05	8.90E-05	5.34E-05	3.50E-05	4.95E-05	2.44E-05
5077	564986.7	4222960	0.000348	0.000461	1.65E-04	1.85E-04	5.05E-04	1.65E-04	4.58E-05	9.00E-05	5.40E-05	3.54E-05	5.01E-05	2.46E-05
5078	564978.2	4222956	0.000353	0.000466	1.67E-04	1.87E-04	5.11E-04	1.67E-04	4.63E-05	9.11E-05	5.47E-05	3.58E-05	5.07E-05	2.49E-05
5079	564969.7	4222952	0.000357	0.000472	1.69E-04	1.89E-04	5.17E-04	1.69E-04	4.69E-05	9.22E-05	5.53E-05	3.63E-05	5.13E-05	2.52E-05
5080	564961.2	4222949	0.000361	0.000478	1.71E-04	1.92E-04	5.24E-04	1.71E-04	4.75E-05	9.34E-05	5.60E-05	3.67E-05	5.20E-05	2.56E-05
5081	564952.7	4222945	0.000366	0.000484	1.73E-04	1.94E-04	5.31E-04	1.73E-04	4.81E-05	9.45E-05	5.67E-05	3.72E-05	5.26E-05	2.59E-05
5082	564927.2	4222934	0.000381	0.000503	1.80E-04	2.02E-04	5.52E-04	1.80E-04	5.00E-05	9.83E-05	5.90E-05	3.87E-05	5.47E-05	2.69E-05
5083	564918.7	4222931	0.000386	0.00051	1.83E-04	2.04E-04	5.59E-04	1.83E-04	5.06E-05	9.96E-05	5.98E-05	3.92E-05	5.55E-05	2.73E-05
5084	564906.6	4222919	0.000403	0.000532	1.91E-04	2.13E-04	5.84E-04	1.91E-04	5.29E-05	1.04E-04	6.24E-05	4.09E-05	5.79E-05	2.85E-05
5085	564903.1	4222910	0.000415	0.000549	1.97E-04	2.20E-04	6.01E-04	1.97E-04	5.45E-05	1.07E-04	6.43E-05	4.22E-05	5.97E-05	2.93E-05
5086	564899.6	4222902	0.000428	0.000566	2.03E-04	2.27E-04	6.20E-04	2.03E-04	5.62E-05	1.10E-04	6.63E-05	4.35E-05	6.15E-05	3.02E-05
5087	564896.1	4222893	0.000441	0.000583	2.09E-04	2.34E-04	6.40E-04	2.09E-04	5.79E-05	1.14E-04	6.84E-05	4.48E-05	6.35E-05	3.12E-05
5088	564892.6	4222885	0.000455	0.000602	2.16E-04	2.41E-04	6.60E-04	2.16E-04	5.98E-05	1.18E-04	7.06E-05	4.63E-05	6.55E-05	3.22E-05
5089	564889.1	4222876	0.00047	0.000622	2.23E-04	2.49E-04	6.82E-04	2.23E-04	6.17E-05	1.21E-04	7.29E-05	4.78E-05	6.76E-05	3.32E-05
5090	564885.5	4222868	0.000486	0.000642	2.30E-04	2.57E-04	7.04E-04	2.30E-04	6.38E-05	1.25E-04	7.53E-05	4.93E-05	6.98E-05	3.43E-05
5091	564882	4222859	0.000502	0.000663	2.38E-04	2.66E-04	7.27E-04	2.38E-04	6.59E-05	1.30E-04	7.78E-05	5.10E-05	7.22E-05	3.55E-05
5092	564878.5	4222851	0.000518	0.000686	2.46E-04	2.75E-04	7.52E-04	2.46E-04	6.81E-05	1.34E-04	8.04E-05	5.27E-05	7.46E-05	3.67E-05
5093	564875	4222842	0.000536	0.000709	2.54E-04	2.84E-04	7.77E-04	2.54E-04	7.04E-05	1.38E-04	8.31E-05	5.45E-05	7.71E-05	3.79E-05

5094	564871.5	4222834	0.000554	0.000733	2.63E-04	2.94E-04	8.03E-04	2.63E-04	7.28E-05	1.43E-04	8.59E-05	5.63E-05	7.97E-05	3.92E-05
5095	564868	4222825	0.000573	0.000758	2.72E-04	3.04E-04	8.31E-04	2.72E-04	7.53E-05	1.48E-04	8.88E-05	5.82E-05	8.24E-05	4.05E-05
5096	564864.5	4222816	0.000593	0.000784	2.81E-04	3.14E-04	8.59E-04	2.81E-04	7.78E-05	1.53E-04	9.19E-05	6.02E-05	8.53E-05	4.19E-05
5097	564860.9	4222808	0.000613	0.000811	2.90E-04	3.25E-04	8.89E-04	2.90E-04	8.05E-05	1.58E-04	9.50E-05	6.23E-05	8.82E-05	4.34E-05
5098	564857.4	4222799	0.000634	0.000839	3.00E-04	3.36E-04	9.19E-04	3.00E-04	8.33E-05	1.64E-04	9.83E-05	6.44E-05	9.12E-05	4.48E-05
5099	564853.9	4222791	0.000656	0.000867	3.11E-04	3.48E-04	9.51E-04	3.11E-04	8.61E-05	1.69E-04	1.02E-04	6.66E-05	9.43E-05	4.64E-05
5100	564850.4	4222782	0.000678	0.000897	3.21E-04	3.60E-04	9.83E-04	3.21E-04	8.91E-05	1.75E-04	1.05E-04	6.89E-05	9.75E-05	4.80E-05
5101	564846.9	4222774	0.000701	0.000927	3.32E-04	3.72E-04	1.02E-03	3.32E-04	9.21E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.96E-05
5102	564843.4	4222765	0.000725	0.000959	3.43E-04	3.84E-04	1.05E-03	3.43E-04	9.52E-05	1.87E-04	1.12E-04	7.37E-05	1.04E-04	5.13E-05
5103	564839.8	4222757	0.000749	0.000991	3.55E-04	3.97E-04	1.09E-03	3.55E-04	9.84E-05	1.93E-04	1.16E-04	7.61E-05	1.08E-04	5.30E-05
5104	564836.3	4222748	0.000774	0.001023	3.67E-04	4.10E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.86E-05	1.11E-04	5.47E-05
5105	564832.8	4222740	0.000799	0.001057	3.79E-04	4.24E-04	1.16E-03	3.79E-04	1.05E-04	2.06E-04	1.24E-04	8.12E-05	1.15E-04	5.65E-05
5106	564822.3	4222714	0.000878	0.001161	4.16E-04	4.65E-04	1.27E-03	4.16E-04	1.15E-04	2.27E-04	1.36E-04	8.92E-05	1.26E-04	6.21E-05
5107	564797.7	4222654	0.001069	0.001414	5.07E-04	5.67E-04	1.55E-03	5.07E-04	1.40E-04	2.76E-04	1.66E-04	1.09E-04	1.54E-04	7.56E-05
5108	564794.1	4222646	0.001097	0.00145	5.20E-04	5.81E-04	1.59E-03	5.20E-04	1.44E-04	2.83E-04	1.70E-04	1.11E-04	1.58E-04	7.75E-05
5109	564790.6	4222637	0.001124	0.001486	5.32E-04	5.96E-04	1.63E-03	5.32E-04	1.48E-04	2.90E-04	1.74E-04	1.14E-04	1.62E-04	7.95E-05
5110	564783.6	4222620	0.001178	0.001557	5.58E-04	6.24E-04	1.71E-03	5.58E-04	1.55E-04	3.04E-04	1.83E-04	1.20E-04	1.69E-04	8.33E-05
5111	565335.4	4223106	0.000244	0.000323	1.16E-04	1.29E-04	3.54E-04	1.16E-04	3.20E-05	6.30E-05	3.78E-05	2.48E-05	3.51E-05	1.73E-05

			UnMitigated	T2	T2L3	T4
			1.74E-01	9.24E-02	2.29E-02	1.77E-02
			Yr 1	Yr 1	Yr 1	Yr 1
1	565529.2	4222707	1.02E-02	5.41E-03	1.34E-03	1.04E-03
2	565533.8	4222716	9.71E-03	5.15E-03	1.27E-03	9.86E-04
3	565527.7	4222729	8.65E-03	4.59E-03	1.14E-03	8.80E-04
4	565538.4	4222725	9.25E-03	4.91E-03	1.22E-03	9.41E-04
5	565532.3	4222737	8.28E-03	4.39E-03	1.09E-03	8.42E-04
6	565543	4222733	8.84E-03	4.69E-03	1.16E-03	8.98E-04
7	565536.7	4222746	7.93E-03	4.20E-03	1.04E-03	8.06E-04
8	565547.6	4222742	8.45E-03	4.48E-03	1.11E-03	8.58E-04
9	565541.4	4222755	7.60E-03	4.03E-03	9.98E-04	7.72E-04
10	565530.1	4222758	7.21E-03	3.82E-03	9.47E-04	7.33E-04
11	565552.2	4222751	8.08E-03	4.29E-03	1.06E-03	8.21E-04
12	565546	4222764	7.30E-03	3.87E-03	9.58E-04	7.41E-04
13	565534.8	4222766	6.93E-03	3.68E-03	9.10E-04	7.04E-04
14	565556.8	4222759	7.75E-03	4.11E-03	1.02E-03	7.87E-04
15	565550.7	4222772	7.01E-03	3.72E-03	9.21E-04	7.13E-04
16	565539.5	4222775	6.67E-03	3.54E-03	8.76E-04	6.78E-04
17	565528.4	4222778	6.35E-03	3.37E-03	8.35E-04	6.46E-04
18	565561.4	4222768	7.44E-03	3.94E-03	9.77E-04	7.56E-04
19	565560.1	4222790	6.49E-03	3.44E-03	8.52E-04	6.60E-04
20	565549.1	4222793	6.19E-03	3.28E-03	8.13E-04	6.29E-04
21	565538	4222795	5.91E-03	3.13E-03	7.76E-04	6.01E-04
22	565527	4222798	5.66E-03	3.00E-03	7.43E-04	5.75E-04
23	565558	4222810	5.74E-03	3.04E-03	7.54E-04	5.84E-04
24	565546.7	4222813	5.49E-03	2.91E-03	7.21E-04	5.58E-04
25	565535.4	4222816	5.26E-03	2.79E-03	6.91E-04	5.35E-04
26	565578.8	4222825	4.99E-03	2.64E-03	6.55E-04	5.07E-04
27	565556.4	4222831	4.68E-03	2.48E-03	6.15E-04	4.76E-04
28	565545.2	4222833	4.94E-03	2.62E-03	6.48E-04	5.02E-04
29	565534	4222836	4.75E-03	2.52E-03	6.23E-04	4.82E-04
30	565589.6	4222821	5.21E-03	2.76E-03	6.85E-04	5.30E-04
31	565588.2	4222843	4.59E-03	2.44E-03	6.03E-04	4.67E-04
32	565577.1	4222846	4.46E-03	2.36E-03	5.85E-04	4.53E-04
33	565554.9	4222851	4.24E-03	2.25E-03	5.57E-04	4.31E-04
34	565543.8	4222854	4.47E-03	2.37E-03	5.87E-04	4.54E-04
35	565532.7	4222857	4.31E-03	2.29E-03	5.66E-04	4.38E-04
36	565599	4222839	4.79E-03	2.54E-03	6.29E-04	4.87E-04
37	565597.5	4222861	4.24E-03	2.25E-03	5.57E-04	4.31E-04
38	565586.1	4222863	4.11E-03	2.18E-03	5.40E-04	4.18E-04
39	565574.8	4222866	4.00E-03	2.12E-03	5.26E-04	4.07E-04
40	565552.2	4222872	3.82E-03	2.03E-03	5.02E-04	3.89E-04
41	565540.8	4222874	3.74E-03	1.98E-03	4.92E-04	3.80E-04
42	565608.3	4222856	4.42E-03	2.34E-03	5.81E-04	4.49E-04
43	565606.9	4222878	3.94E-03	2.09E-03	5.17E-04	4.00E-04
44	565595.7	4222881	3.82E-03	2.02E-03	5.02E-04	3.88E-04

45	565584.4	4222884	3.71E-03	1.97E-03	4.87E-04	3.77E-04
46	565562	4222889	3.54E-03	1.88E-03	4.65E-04	3.60E-04
47	565550.8	4222892	3.47E-03	1.84E-03	4.55E-04	3.52E-04
48	565539.5	4222895	3.41E-03	1.81E-03	4.48E-04	3.46E-04
49	565617.7	4222874	4.10E-03	2.18E-03	5.39E-04	4.17E-04
50	565560.6	4222910	3.22E-03	1.71E-03	4.23E-04	3.28E-04
51	565549.5	4222912	3.17E-03	1.68E-03	4.16E-04	3.22E-04
52	565538.4	4222915	3.12E-03	1.65E-03	4.10E-04	3.17E-04
53	565627.1	4222892	3.68E-03	1.95E-03	4.84E-04	3.74E-04
54	565625.6	4222914	3.27E-03	1.73E-03	4.30E-04	3.32E-04
55	565602.9	4222919	3.21E-03	1.70E-03	4.21E-04	3.26E-04
56	565591.6	4222922	3.13E-03	1.66E-03	4.11E-04	3.18E-04
57	565580.2	4222925	3.07E-03	1.63E-03	4.03E-04	3.12E-04
58	565557.6	4222930	2.96E-03	1.57E-03	3.89E-04	3.01E-04
59	565546.2	4222933	2.91E-03	1.54E-03	3.82E-04	2.96E-04
60	565534.9	4222936	2.86E-03	1.51E-03	3.75E-04	2.90E-04
61	565636.5	4222909	3.42E-03	1.81E-03	4.49E-04	3.47E-04
62	565635	4222931	3.04E-03	1.61E-03	4.00E-04	3.09E-04
63	565623.8	4222934	2.94E-03	1.56E-03	3.86E-04	2.99E-04
64	565612.5	4222937	2.95E-03	1.56E-03	3.87E-04	3.00E-04
65	565601.3	4222940	2.90E-03	1.54E-03	3.81E-04	2.95E-04
66	565590	4222942	2.85E-03	1.51E-03	3.74E-04	2.90E-04
67	565578.8	4222945	2.81E-03	1.49E-03	3.68E-04	2.85E-04
68	565556.3	4222951	2.73E-03	1.45E-03	3.58E-04	2.77E-04
69	565545	4222953	2.69E-03	1.43E-03	3.54E-04	2.74E-04
70	565533.8	4222956	2.66E-03	1.41E-03	3.49E-04	2.70E-04
71	565645.8	4222927	3.17E-03	1.68E-03	4.16E-04	3.22E-04
72	565644.3	4222949	2.85E-03	1.51E-03	3.75E-04	2.90E-04
73	565632.9	4222952	2.77E-03	1.47E-03	3.63E-04	2.81E-04
74	565621.4	4222955	2.69E-03	1.42E-03	3.53E-04	2.73E-04
75	565610	4222957	2.71E-03	1.44E-03	3.56E-04	2.75E-04
76	565598.6	4222960	2.66E-03	1.41E-03	3.49E-04	2.70E-04
77	565587.1	4222963	2.61E-03	1.38E-03	3.43E-04	2.65E-04
78	565575.7	4222966	2.57E-03	1.37E-03	3.38E-04	2.62E-04
79	565552.8	4222971	2.53E-03	1.34E-03	3.32E-04	2.57E-04
80	565541.4	4222974	2.51E-03	1.33E-03	3.30E-04	2.55E-04
81	565530	4222977	2.49E-03	1.32E-03	3.27E-04	2.53E-04
82	565655.2	4222945	2.95E-03	1.57E-03	3.88E-04	3.00E-04
83	565642.4	4222969	2.62E-03	1.39E-03	3.44E-04	2.66E-04
84	565631	4222972	2.55E-03	1.35E-03	3.35E-04	2.59E-04
85	565619.7	4222975	2.49E-03	1.32E-03	3.27E-04	2.53E-04
86	565608.3	4222978	2.50E-03	1.33E-03	3.29E-04	2.54E-04
87	565597	4222981	2.47E-03	1.31E-03	3.24E-04	2.51E-04
88	565585.6	4222983	2.44E-03	1.29E-03	3.20E-04	2.48E-04
89	565551.6	4222992	2.38E-03	1.26E-03	3.12E-04	2.42E-04
90	565540.3	4222994	2.36E-03	1.25E-03	3.10E-04	2.40E-04
91	565528.9	4222997	2.35E-03	1.24E-03	3.08E-04	2.39E-04

92	565663.1	4222984	2.57E-03	1.36E-03	3.37E-04	2.61E-04
93	565651.9	4222987	2.50E-03	1.32E-03	3.28E-04	2.54E-04
94	565640.6	4222990	2.43E-03	1.29E-03	3.20E-04	2.47E-04
95	565629.3	4222993	2.38E-03	1.26E-03	3.12E-04	2.42E-04
96	565618.1	4222995	2.33E-03	1.23E-03	3.06E-04	2.36E-04
97	565606.8	4222998	2.33E-03	1.24E-03	3.06E-04	2.37E-04
98	565595.5	4223001	2.32E-03	1.23E-03	3.04E-04	2.35E-04
99	565584.3	4223004	2.30E-03	1.22E-03	3.02E-04	2.33E-04
100	565561.7	4223009	2.27E-03	1.20E-03	2.98E-04	2.31E-04
101	565550.5	4223012	2.26E-03	1.20E-03	2.96E-04	2.29E-04
102	565539.2	4223015	2.24E-03	1.19E-03	2.95E-04	2.28E-04
103	565527.9	4223017	2.23E-03	1.18E-03	2.93E-04	2.27E-04
104	565674	4222980	2.66E-03	1.41E-03	3.49E-04	2.70E-04
105	565672.4	4223002	2.46E-03	1.30E-03	3.23E-04	2.50E-04
106	565661	4223005	2.40E-03	1.27E-03	3.15E-04	2.44E-04
107	565649.6	4223008	2.34E-03	1.24E-03	3.07E-04	2.38E-04
108	565638.1	4223010	2.29E-03	1.21E-03	3.01E-04	2.33E-04
109	565626.7	4223013	2.24E-03	1.19E-03	2.95E-04	2.28E-04
110	565615.3	4223016	2.24E-03	1.19E-03	2.94E-04	2.27E-04
111	565603.8	4223019	2.21E-03	1.17E-03	2.90E-04	2.25E-04
112	565592.4	4223022	2.19E-03	1.16E-03	2.87E-04	2.22E-04
113	565581	4223024	2.17E-03	1.15E-03	2.85E-04	2.20E-04
114	565558.1	4223030	2.16E-03	1.14E-03	2.83E-04	2.19E-04
115	565546.7	4223033	2.15E-03	1.14E-03	2.82E-04	2.18E-04
116	565535.3	4223036	2.13E-03	1.13E-03	2.80E-04	2.17E-04
117	565683.3	4222998	2.52E-03	1.34E-03	3.31E-04	2.56E-04
118	565681.8	4223020	2.36E-03	1.25E-03	3.10E-04	2.40E-04
119	565670.5	4223022	2.31E-03	1.23E-03	3.04E-04	2.35E-04
120	565659.1	4223025	2.26E-03	1.20E-03	2.97E-04	2.30E-04
121	565647.8	4223028	2.21E-03	1.17E-03	2.91E-04	2.25E-04
122	565636.4	4223031	2.17E-03	1.15E-03	2.85E-04	2.20E-04
123	565625.1	4223034	2.13E-03	1.13E-03	2.80E-04	2.17E-04
124	565613.7	4223036	2.12E-03	1.13E-03	2.79E-04	2.16E-04
125	565602.4	4223039	2.11E-03	1.12E-03	2.76E-04	2.14E-04
126	565591	4223042	2.09E-03	1.11E-03	2.74E-04	2.12E-04
127	565579.7	4223045	2.08E-03	1.10E-03	2.73E-04	2.11E-04
128	565557	4223050	2.07E-03	1.10E-03	2.71E-04	2.10E-04
129	565545.6	4223053	2.05E-03	1.09E-03	2.69E-04	2.08E-04
130	565534.3	4223056	2.03E-03	1.08E-03	2.67E-04	2.07E-04
131	565692.7	4223015	2.42E-03	1.28E-03	3.18E-04	2.46E-04
132	565691.3	4223037	2.28E-03	1.21E-03	2.99E-04	2.32E-04
133	565680	4223040	2.23E-03	1.18E-03	2.93E-04	2.27E-04
134	565668.7	4223043	2.19E-03	1.16E-03	2.87E-04	2.22E-04
135	565657.4	4223046	2.14E-03	1.13E-03	2.81E-04	2.17E-04
136	565646.1	4223048	2.10E-03	1.11E-03	2.76E-04	2.13E-04
137	565634.9	4223051	2.06E-03	1.09E-03	2.71E-04	2.10E-04
138	565623.6	4223054	2.03E-03	1.08E-03	2.66E-04	2.06E-04

139	565612.3	4223057	2.03E-03	1.07E-03	2.66E-04	2.06E-04
140	565601	4223059	2.02E-03	1.07E-03	2.65E-04	2.05E-04
141	565589.7	4223062	2.00E-03	1.06E-03	2.63E-04	2.04E-04
142	565578.4	4223065	1.99E-03	1.06E-03	2.62E-04	2.03E-04
143	565555.9	4223070	1.97E-03	1.05E-03	2.59E-04	2.01E-04
144	565544.6	4223073	1.95E-03	1.04E-03	2.57E-04	1.99E-04
145	565533.3	4223076	1.93E-03	1.02E-03	2.54E-04	1.96E-04
146	565702.1	4223033	2.33E-03	1.24E-03	3.07E-04	2.37E-04
147	565529.9	4222867	4.09E-03	2.17E-03	5.37E-04	4.16E-04
148	565535.7	4222886	3.53E-03	1.87E-03	4.64E-04	3.59E-04
149	565541.5	4222906	3.25E-03	1.73E-03	4.27E-04	3.31E-04
150	565548.9	4222924	3.02E-03	1.60E-03	3.96E-04	3.07E-04
151	565593.6	4223078	1.94E-03	1.03E-03	2.55E-04	1.97E-04
152	565549.1	4222507	8.75E-02	4.64E-02	1.15E-02	8.90E-03
153	565543.1	4222521	7.72E-02	4.10E-02	1.01E-02	7.85E-03
154	565552.3	4222491	1.00E-01	5.30E-02	1.31E-02	1.02E-02
155	565552.5	4222482	1.08E-01	5.71E-02	1.42E-02	1.10E-02
156	565552.7	4222473	1.15E-01	6.12E-02	1.52E-02	1.17E-02
157	565558.3	4222509	8.25E-02	4.38E-02	1.08E-02	8.39E-03
158	565551.1	4222525	7.17E-02	3.80E-02	9.42E-03	7.29E-03
159	565547.5	4222533	6.60E-02	3.50E-02	8.66E-03	6.70E-03
160	565561.9	4222501	8.73E-02	4.63E-02	1.15E-02	8.88E-03
161	565562.1	4222492	9.41E-02	4.99E-02	1.24E-02	9.57E-03
162	565562.3	4222483	1.01E-01	5.35E-02	1.33E-02	1.03E-02
163	565562.6	4222473	1.08E-01	5.71E-02	1.41E-02	1.09E-02
164	565568.2	4222509	7.89E-02	4.18E-02	1.04E-02	8.02E-03
165	565561.3	4222525	6.98E-02	3.70E-02	9.17E-03	7.10E-03
166	565554.3	4222541	6.00E-02	3.18E-02	7.87E-03	6.09E-03
167	565542.7	4222552	5.31E-02	2.81E-02	6.97E-03	5.40E-03
168	565572	4222492	8.89E-02	4.71E-02	1.17E-02	9.04E-03
169	565572.2	4222483	9.49E-02	5.03E-02	1.25E-02	9.64E-03
170	565572.4	4222474	1.01E-01	5.35E-02	1.32E-02	1.02E-02
171	565578.1	4222509	7.55E-02	4.00E-02	9.91E-03	7.67E-03
172	565571.3	4222525	6.77E-02	3.59E-02	8.90E-03	6.88E-03
173	565564.5	4222540	5.92E-02	3.14E-02	7.78E-03	6.02E-03
174	565549.7	4222559	4.88E-02	2.59E-02	6.41E-03	4.96E-03
175	565581.8	4222492	8.42E-02	4.46E-02	1.11E-02	8.56E-03
176	565582	4222483	8.95E-02	4.74E-02	1.18E-02	9.09E-03
177	565582.2	4222474	9.47E-02	5.02E-02	1.24E-02	9.63E-03
178	565581.3	4222524	6.56E-02	3.48E-02	8.61E-03	6.66E-03
179	565574.6	4222540	5.82E-02	3.09E-02	7.64E-03	5.92E-03
180	565567.8	4222555	5.05E-02	2.68E-02	6.63E-03	5.13E-03
181	565556.6	4222566	4.51E-02	2.39E-02	5.92E-03	4.58E-03
182	565541	4222572	4.14E-02	2.20E-02	5.44E-03	4.21E-03
183	565577.9	4222555	5.01E-02	2.66E-02	6.58E-03	5.09E-03
184	565563.6	4222573	4.19E-02	2.22E-02	5.50E-03	4.25E-03
185	565548.2	4222579	3.85E-02	2.04E-02	5.06E-03	3.91E-03

186	565601.5	4222493	7.59E-02	4.02E-02	9.97E-03	7.71E-03
187	565607.8	4222509	6.63E-02	3.51E-02	8.70E-03	6.73E-03
188	565601.2	4222524	6.12E-02	3.25E-02	8.04E-03	6.22E-03
189	565570.5	4222580	3.90E-02	2.07E-02	5.12E-03	3.96E-03
190	565555.2	4222586	3.59E-02	1.91E-02	4.72E-03	3.65E-03
191	565540	4222592	3.25E-02	1.72E-02	4.27E-03	3.30E-03
192	565611.3	4222493	7.22E-02	3.83E-02	9.48E-03	7.33E-03
193	565611.5	4222484	7.58E-02	4.02E-02	9.96E-03	7.71E-03
194	565611.7	4222475	7.95E-02	4.21E-02	1.04E-02	8.07E-03
195	565617.3	4222510	6.33E-02	3.36E-02	8.31E-03	6.43E-03
196	565613.7	4222518	6.10E-02	3.23E-02	8.01E-03	6.20E-03
197	565606.5	4222535	5.57E-02	2.95E-02	7.32E-03	5.66E-03
198	565599.3	4222551	4.99E-02	2.64E-02	6.55E-03	5.07E-03
199	565595.8	4222559	4.68E-02	2.48E-02	6.15E-03	4.76E-03
200	565576.6	4222587	3.63E-02	1.92E-02	4.77E-03	3.69E-03
201	565560	4222594	3.32E-02	1.76E-02	4.36E-03	3.38E-03
202	565551.7	4222597	3.15E-02	1.67E-02	4.14E-03	3.20E-03
203	565621.1	4222493	6.87E-02	3.64E-02	9.03E-03	6.98E-03
204	565621.3	4222484	7.20E-02	3.82E-02	9.45E-03	7.31E-03
205	565621.6	4222475	7.51E-02	3.98E-02	9.87E-03	7.63E-03
206	565627.2	4222510	6.07E-02	3.22E-02	7.97E-03	6.16E-03
207	565620.1	4222526	5.65E-02	3.00E-02	7.42E-03	5.74E-03
208	565613	4222543	5.16E-02	2.74E-02	6.78E-03	5.25E-03
209	565606	4222559	4.63E-02	2.45E-02	6.08E-03	4.70E-03
210	565567.2	4222601	3.13E-02	1.66E-02	4.11E-03	3.18E-03
211	565550.8	4222607	2.81E-02	1.49E-02	3.70E-03	2.86E-03
212	565630.8	4222502	6.25E-02	3.31E-02	8.21E-03	6.35E-03
213	565631	4222493	6.55E-02	3.47E-02	8.60E-03	6.65E-03
214	565631.2	4222484	6.84E-02	3.63E-02	8.98E-03	6.95E-03
215	565631.4	4222475	7.11E-02	3.77E-02	9.34E-03	7.23E-03
216	565637.1	4222510	5.82E-02	3.09E-02	7.65E-03	5.92E-03
217	565630.1	4222526	5.45E-02	2.89E-02	7.16E-03	5.54E-03
218	565623.1	4222542	5.03E-02	2.66E-02	6.60E-03	5.11E-03
219	565616.1	4222558	4.56E-02	2.42E-02	5.99E-03	4.63E-03
220	565602.1	4222590	3.56E-02	1.88E-02	4.67E-03	3.61E-03
221	565590.6	4222601	3.20E-02	1.70E-02	4.20E-03	3.25E-03
222	565574.4	4222608	2.95E-02	1.56E-02	3.87E-03	3.00E-03
223	565558.2	4222614	2.67E-02	1.41E-02	3.50E-03	2.71E-03
224	565542	4222621	2.37E-02	1.26E-02	3.12E-03	2.41E-03
225	565640.8	4222493	6.24E-02	3.31E-02	8.20E-03	6.35E-03
226	565641	4222484	6.50E-02	3.45E-02	8.54E-03	6.61E-03
227	565641.2	4222475	6.75E-02	3.58E-02	8.86E-03	6.86E-03
228	565647	4222511	5.59E-02	2.96E-02	7.34E-03	5.68E-03
229	565640.1	4222526	5.27E-02	2.79E-02	6.92E-03	5.35E-03
230	565633.1	4222542	4.89E-02	2.59E-02	6.42E-03	4.97E-03
231	565626.2	4222558	4.47E-02	2.37E-02	5.87E-03	4.54E-03
232	565612.4	4222589	3.57E-02	1.89E-02	4.68E-03	3.62E-03

233	565597.5	4222608	3.01E-02	1.60E-02	3.96E-03	3.06E-03
234	565565.5	4222621	2.53E-02	1.34E-02	3.32E-03	2.57E-03
235	565549.5	4222628	2.27E-02	1.20E-02	2.97E-03	2.30E-03
236	565533.5	4222634	2.00E-02	1.06E-02	2.63E-03	2.04E-03
237	565650.6	4222494	5.96E-02	3.16E-02	7.82E-03	6.05E-03
238	565650.9	4222485	6.18E-02	3.28E-02	8.12E-03	6.28E-03
239	565651.1	4222476	6.40E-02	3.39E-02	8.40E-03	6.50E-03
240	565656.8	4222511	5.36E-02	2.84E-02	7.04E-03	5.44E-03
241	565650	4222526	5.08E-02	2.70E-02	6.68E-03	5.17E-03
242	565643.1	4222542	4.76E-02	2.52E-02	6.25E-03	4.83E-03
243	565636.3	4222558	4.38E-02	2.32E-02	5.75E-03	4.45E-03
244	565622.6	4222589	3.55E-02	1.88E-02	4.67E-03	3.61E-03
245	565615.7	4222605	3.14E-02	1.67E-02	4.13E-03	3.19E-03
246	565604.4	4222616	2.85E-02	1.51E-02	3.74E-03	2.89E-03
247	565572.7	4222628	2.40E-02	1.27E-02	3.16E-03	2.44E-03
248	565556.9	4222634	2.16E-02	1.15E-02	2.84E-03	2.20E-03
249	565541	4222641	1.92E-02	1.02E-02	2.53E-03	1.95E-03
250	565660.5	4222494	5.68E-02	3.01E-02	7.46E-03	5.77E-03
251	565660.7	4222485	5.88E-02	3.12E-02	7.72E-03	5.98E-03
252	565660.9	4222476	6.07E-02	3.22E-02	7.98E-03	6.17E-03
253	565666.7	4222511	5.14E-02	2.73E-02	6.75E-03	5.22E-03
254	565659.9	4222526	4.91E-02	2.60E-02	6.44E-03	4.99E-03
255	565653.1	4222542	4.62E-02	2.45E-02	6.06E-03	4.69E-03
256	565646.3	4222557	4.29E-02	2.27E-02	5.63E-03	4.36E-03
257	565632.7	4222588	3.54E-02	1.88E-02	4.65E-03	3.59E-03
258	565626	4222604	3.15E-02	1.67E-02	4.14E-03	3.20E-03
259	565611.3	4222623	2.69E-02	1.43E-02	3.54E-03	2.74E-03
260	565595.6	4222629	2.50E-02	1.33E-02	3.28E-03	2.54E-03
261	565564.2	4222641	2.07E-02	1.10E-02	2.71E-03	2.10E-03
262	565548.5	4222648	1.85E-02	9.79E-03	2.43E-03	1.88E-03
263	565532.7	4222654	1.64E-02	8.68E-03	2.15E-03	1.66E-03
264	565670.3	4222494	5.42E-02	2.87E-02	7.12E-03	5.51E-03
265	565670.5	4222485	5.60E-02	2.97E-02	7.35E-03	5.69E-03
266	565670.7	4222476	5.77E-02	3.06E-02	7.58E-03	5.86E-03
267	565676.3	4222512	4.93E-02	2.61E-02	6.47E-03	5.01E-03
268	565672.7	4222520	4.82E-02	2.56E-02	6.34E-03	4.90E-03
269	565665.6	4222536	4.58E-02	2.43E-02	6.01E-03	4.65E-03
270	565662	4222544	4.43E-02	2.35E-02	5.82E-03	4.51E-03
271	565640.4	4222594	3.38E-02	1.79E-02	4.44E-03	3.43E-03
272	565636.8	4222602	3.19E-02	1.69E-02	4.19E-03	3.24E-03
273	565629.6	4222618	2.81E-02	1.49E-02	3.69E-03	2.86E-03
274	565617.7	4222630	2.55E-02	1.35E-02	3.34E-03	2.59E-03
275	565601	4222636	2.36E-02	1.25E-02	3.09E-03	2.39E-03
276	565592.7	4222640	2.25E-02	1.19E-02	2.96E-03	2.29E-03
277	565559.5	4222653	1.82E-02	9.65E-03	2.39E-03	1.85E-03
278	565551.1	4222656	1.72E-02	9.10E-03	2.25E-03	1.74E-03
279	565534.5	4222663	1.51E-02	8.03E-03	1.99E-03	1.54E-03

280	565680.1	4222494	5.18E-02	2.74E-02	6.80E-03	5.26E-03
281	565680.4	4222485	5.33E-02	2.83E-02	7.00E-03	5.42E-03
282	565680.6	4222476	5.48E-02	2.91E-02	7.20E-03	5.57E-03
283	565686.2	4222512	4.73E-02	2.51E-02	6.21E-03	4.81E-03
284	565679.1	4222528	4.54E-02	2.41E-02	5.97E-03	4.62E-03
285	565657.7	4222577	3.70E-02	1.96E-02	4.86E-03	3.76E-03
286	565654.2	4222585	3.53E-02	1.87E-02	4.64E-03	3.59E-03
287	565647.1	4222601	3.18E-02	1.69E-02	4.18E-03	3.23E-03
288	565640	4222617	2.83E-02	1.50E-02	3.72E-03	2.88E-03
289	565624.6	4222637	2.41E-02	1.28E-02	3.17E-03	2.45E-03
290	565608.1	4222643	2.24E-02	1.19E-02	2.94E-03	2.28E-03
291	565591.7	4222650	2.05E-02	1.09E-02	2.69E-03	2.08E-03
292	565558.8	4222663	1.65E-02	8.77E-03	2.17E-03	1.68E-03
293	565542.3	4222670	1.47E-02	7.79E-03	1.93E-03	1.49E-03
294	565689.8	4222504	4.80E-02	2.55E-02	6.31E-03	4.88E-03
295	565690	4222495	4.95E-02	2.62E-02	6.50E-03	5.03E-03
296	565690.2	4222486	5.09E-02	2.70E-02	6.68E-03	5.17E-03
297	565690.4	4222477	5.22E-02	2.77E-02	6.86E-03	5.31E-03
298	565696.1	4222512	4.54E-02	2.41E-02	5.96E-03	4.61E-03
299	565674.9	4222560	3.93E-02	2.08E-02	5.16E-03	3.99E-03
300	565667.9	4222576	3.64E-02	1.93E-02	4.78E-03	3.70E-03
301	565660.8	4222592	3.33E-02	1.76E-02	4.37E-03	3.38E-03
302	565653.8	4222608	3.00E-02	1.59E-02	3.95E-03	3.05E-03
303	565646.7	4222625	2.68E-02	1.42E-02	3.52E-03	2.73E-03
304	565631.5	4222644	2.29E-02	1.22E-02	3.01E-03	2.33E-03
305	565615.2	4222650	2.13E-02	1.13E-02	2.80E-03	2.17E-03
306	565598.9	4222657	1.96E-02	1.04E-02	2.57E-03	1.99E-03
307	565566.3	4222670	1.59E-02	8.45E-03	2.09E-03	1.62E-03
308	565550	4222676	1.42E-02	7.54E-03	1.87E-03	1.45E-03
309	565533.7	4222683	1.26E-02	6.70E-03	1.66E-03	1.28E-03
310	565699.8	4222495	4.73E-02	2.51E-02	6.21E-03	4.81E-03
311	565700	4222486	4.85E-02	2.57E-02	6.37E-03	4.93E-03
312	565700.3	4222477	4.97E-02	2.64E-02	6.53E-03	5.05E-03
313	565692	4222544	4.05E-02	2.15E-02	5.32E-03	4.11E-03
314	565685	4222560	3.83E-02	2.03E-02	5.03E-03	3.89E-03
315	565678	4222576	3.57E-02	1.89E-02	4.69E-03	3.63E-03
316	565671	4222592	3.29E-02	1.74E-02	4.32E-03	3.34E-03
317	565664	4222608	2.99E-02	1.59E-02	3.93E-03	3.04E-03
318	565657	4222624	2.69E-02	1.43E-02	3.53E-03	2.73E-03
319	565650	4222640	2.40E-02	1.27E-02	3.15E-03	2.44E-03
320	565638.4	4222651	2.18E-02	1.16E-02	2.87E-03	2.22E-03
321	565622.3	4222657	2.03E-02	1.08E-02	2.67E-03	2.06E-03
322	565606.1	4222664	1.87E-02	9.93E-03	2.46E-03	1.90E-03
323	565589.9	4222670	1.70E-02	9.03E-03	2.24E-03	1.73E-03
324	565557.6	4222683	1.38E-02	7.30E-03	1.81E-03	1.40E-03
325	565541.4	4222690	1.23E-02	6.52E-03	1.61E-03	1.25E-03
326	565709.7	4222495	4.53E-02	2.40E-02	5.95E-03	4.60E-03

327	565709.9	4222486	0.04637766	2.46E-02	6.09E-03	4.71E-03
328	565710.1	4222477	0.0474245	2.51E-02	6.23E-03	4.82E-03
329	565708.9	4222528	0.04076333	2.16E-02	5.35E-03	4.14E-03
330	565701.9	4222544	0.0392172	2.08E-02	5.15E-03	3.99E-03
331	565695	4222560	0.03726216	1.98E-02	4.89E-03	3.79E-03
332	565688.1	4222576	0.03498149	1.85E-02	4.59E-03	3.56E-03
333	565681.1	4222591	0.03242487	1.72E-02	4.26E-03	3.30E-03
334	565674.2	4222607	0.02969976	1.57E-02	3.90E-03	3.02E-03
335	565667.2	4222623	0.0269039	1.43E-02	3.53E-03	2.73E-03
336	565660.3	4222639	0.02413392	1.28E-02	3.17E-03	2.45E-03
337	565645.3	4222658	0.02082318	1.10E-02	2.73E-03	2.12E-03
338	565629.3	4222664	0.01940078	1.03E-02	2.55E-03	1.97E-03
339	565613.2	4222671	0.01793962	9.51E-03	2.36E-03	1.82E-03
340	565597.2	4222677	0.01637493	8.68E-03	2.15E-03	1.66E-03
341	565565.1	4222690	0.01333214	7.07E-03	1.75E-03	1.35E-03
342	565549	4222696	0.01194414	6.33E-03	1.57E-03	1.21E-03
343	565719.7	4222486	0.04435629	2.35E-02	5.83E-03	4.51E-03
344	565719.9	4222477	0.0452803	2.40E-02	5.95E-03	4.60E-03
345	565725.5	4222513	0.04028397	2.14E-02	5.29E-03	4.09E-03
346	565718.2	4222529	0.03922908	2.08E-02	5.15E-03	3.99E-03
347	565711	4222546	0.03777096	2.00E-02	4.96E-03	3.84E-03
348	565707.4	4222554	0.03688047	1.96E-02	4.84E-03	3.75E-03
349	565700.1	4222571	0.03483678	1.85E-02	4.58E-03	3.54E-03
350	565692.8	4222587	0.03247404	1.72E-02	4.26E-03	3.30E-03
351	565685.6	4222604	0.02988465	1.58E-02	3.92E-03	3.04E-03
352	565678.3	4222620	0.02716792	1.44E-02	3.57E-03	2.76E-03
353	565671.1	4222637	0.02442322	1.29E-02	3.21E-03	2.48E-03
354	565667.5	4222645	0.0230814	1.22E-02	3.03E-03	2.35E-03
355	565651.8	4222665	0.0198389	1.05E-02	2.61E-03	2.02E-03
356	565643.4	4222669	0.01917044	1.02E-02	2.52E-03	1.95E-03
357	565635	4222672	0.01845972	9.79E-03	2.42E-03	1.88E-03
358	565618.2	4222679	0.017024	9.03E-03	2.24E-03	1.73E-03
359	565609.9	4222682	0.01626017	8.62E-03	2.14E-03	1.65E-03
360	565601.5	4222685	0.01549307	8.21E-03	2.03E-03	1.57E-03
361	565584.7	4222692	0.01397753	7.41E-03	1.84E-03	1.42E-03
362	565559.5	4222702	0.01184898	6.28E-03	1.56E-03	1.20E-03
363	565551.1	4222705	0.01120015	5.94E-03	1.47E-03	1.14E-03
364	565729.8	4222477	0.04326776	2.29E-02	5.68E-03	4.40E-03
365	565735.4	4222513	0.0395562	2.10E-02	5.19E-03	4.02E-03
366	565728.2	4222529	0.03785609	2.01E-02	4.97E-03	3.85E-03
367	565721	4222546	0.03658842	1.94E-02	4.81E-03	3.72E-03
368	565713.8	4222562	0.03494972	1.85E-02	4.59E-03	3.55E-03
369	565706.6	4222579	0.03298572	1.75E-02	4.33E-03	3.35E-03
370	565703	4222587	0.03188909	1.69E-02	4.19E-03	3.24E-03
371	565695.8	4222603	0.02954039	1.57E-02	3.88E-03	3.00E-03
372	565688.6	4222620	0.02704511	1.43E-02	3.55E-03	2.75E-03
373	565685	4222628	0.02525196	1.34E-02	3.32E-03	2.57E-03

374	565677.8	4222644	0.02253475	1.19E-02	2.96E-03	2.29E-03
375	565625.4	4222686	0.01631302	8.65E-03	2.14E-03	1.66E-03
376	565617.1	4222689	0.01565585	8.30E-03	2.06E-03	1.59E-03
377	565600.5	4222695	0.01423455	7.55E-03	1.87E-03	1.45E-03
378	565592.2	4222699	0.01353333	7.18E-03	1.78E-03	1.38E-03
379	565558.9	4222712	0.01092984	5.79E-03	1.44E-03	1.11E-03
380	565550.6	4222715	0.01034908	5.49E-03	1.36E-03	1.05E-03
381	565745.2	4222513	0.03808063	2.02E-02	5.00E-03	3.87E-03
382	565741.6	4222521	0.03769054	2.00E-02	4.95E-03	3.83E-03
383	565734.5	4222538	0.03663022	1.94E-02	4.81E-03	3.72E-03
384	565730.9	4222546	0.03543216	1.88E-02	4.65E-03	3.60E-03
385	565723.8	4222562	0.03399792	1.80E-02	4.46E-03	3.46E-03
386	565716.7	4222578	0.03225311	1.71E-02	4.24E-03	3.28E-03
387	565709.6	4222595	0.03022701	1.60E-02	3.97E-03	3.07E-03
388	565702.4	4222611	0.02776804	1.47E-02	3.65E-03	2.82E-03
389	565695.3	4222627	0.02520441	1.34E-02	3.31E-03	2.56E-03
390	565665.6	4222679	0.01728665	9.17E-03	2.27E-03	1.76E-03
391	565566.6	4222719	0.01066458	5.65E-03	1.40E-03	1.08E-03
392	565550.1	4222725	0.009592508	5.09E-03	1.26E-03	9.75E-04
393	565755.1	4222513	0.03666737	1.94E-02	4.82E-03	3.73E-03
394	565748	4222530	0.03591781	1.90E-02	4.72E-03	3.65E-03
395	565740.9	4222546	0.0348367	1.85E-02	4.58E-03	3.54E-03
396	565737.4	4222554	0.03418037	1.81E-02	4.49E-03	3.47E-03
397	565730.3	4222570	0.03231043	1.71E-02	4.24E-03	3.28E-03
398	565723.2	4222586	0.03061935	1.62E-02	4.02E-03	3.11E-03
399	565716.1	4222602	0.02861055	1.52E-02	3.76E-03	2.91E-03
400	565694.9	4222651	0.0214739	1.14E-02	2.82E-03	2.18E-03
401	565691.3	4222659	0.0203079	1.08E-02	2.67E-03	2.06E-03
402	565672.5	4222686	0.01646116	8.73E-03	2.16E-03	1.67E-03
403	565656.1	4222693	0.01628058	8.63E-03	2.14E-03	1.65E-03
404	565639.8	4222699	0.01510961	8.01E-03	1.98E-03	1.54E-03
405	565557.8	4222732	0.009380589	4.97E-03	1.23E-03	9.53E-04
406	565764.9	4222514	0.03531339	1.87E-02	4.64E-03	3.59E-03
407	565757.9	4222530	0.03466784	1.84E-02	4.55E-03	3.52E-03
408	565750.9	4222546	0.0337204	1.79E-02	4.43E-03	3.43E-03
409	565743.8	4222562	0.03250462	1.72E-02	4.27E-03	3.30E-03
410	565736.8	4222578	0.03099717	1.64E-02	4.07E-03	3.15E-03
411	565729.8	4222594	0.02917489	1.55E-02	3.83E-03	2.96E-03
412	565708.7	4222642	0.02263029	1.20E-02	2.97E-03	2.30E-03
413	565701.6	4222658	0.02038135	1.08E-02	2.68E-03	2.07E-03
414	565679.4	4222693	0.0156672	8.31E-03	2.06E-03	1.59E-03
415	565663.2	4222700	0.01468604	7.79E-03	1.93E-03	1.49E-03
416	565646.9	4222706	0.01454182	7.71E-03	1.91E-03	1.48E-03
417	565614.3	4222719	0.01227373	6.51E-03	1.61E-03	1.25E-03
418	565598	4222726	0.01117446	5.92E-03	1.47E-03	1.14E-03
419	565581.8	4222732	0.01013864	5.38E-03	1.33E-03	1.03E-03
420	565565.5	4222739	0.009168832	4.86E-03	1.20E-03	9.32E-04

421	565769.1	4222478	0.03633882	1.93E-02	4.77E-03	3.69E-03
422	565767.8	4222530	0.03346435	1.77E-02	4.39E-03	3.40E-03
423	565760.8	4222546	0.032616	1.73E-02	4.28E-03	3.31E-03
424	565753.8	4222562	0.03156321	1.67E-02	4.15E-03	3.21E-03
425	565746.8	4222578	0.03022785	1.60E-02	3.97E-03	3.07E-03
426	565725.9	4222625	0.02463522	1.31E-02	3.24E-03	2.50E-03
427	565718.9	4222641	0.02251767	1.19E-02	2.96E-03	2.29E-03
428	565711.9	4222657	0.02042909	1.08E-02	2.68E-03	2.08E-03
429	565704.9	4222673	0.0183222	9.71E-03	2.41E-03	1.86E-03
430	565686.3	4222700	0.01492827	7.91E-03	1.96E-03	1.52E-03
431	565670.1	4222707	0.01400157	7.42E-03	1.84E-03	1.42E-03
432	565654	4222713	0.01305586	6.92E-03	1.71E-03	1.33E-03
433	565621.6	4222726	0.01185215	6.28E-03	1.56E-03	1.20E-03
434	565605.4	4222733	0.0108542	5.75E-03	1.43E-03	1.10E-03
435	565589.3	4222739	0.009876214	5.24E-03	1.30E-03	1.00E-03
436	565778.5	4222497	0.03476946	1.84E-02	4.57E-03	3.53E-03
437	565778.7	4222488	0.03530456	1.87E-02	4.64E-03	3.59E-03
438	565778.9	4222479	0.03577617	1.90E-02	4.70E-03	3.64E-03
439	565777.3	4222531	0.03227643	1.71E-02	4.24E-03	3.28E-03
440	565770	4222547	0.03147951	1.67E-02	4.13E-03	3.20E-03
441	565748.3	4222597	0.02759751	1.46E-02	3.62E-03	2.80E-03
442	565741.1	4222613	0.02577177	1.37E-02	3.38E-03	2.62E-03
443	565733.8	4222630	0.02371369	1.26E-02	3.11E-03	2.41E-03
444	565726.6	4222646	0.02168111	1.15E-02	2.85E-03	2.20E-03
445	565719.3	4222663	0.01965423	1.04E-02	2.58E-03	2.00E-03
446	565712.1	4222679	0.0175622	9.31E-03	2.31E-03	1.78E-03
447	565692.9	4222708	0.01422072	7.54E-03	1.87E-03	1.45E-03
448	565684.5	4222711	0.01377023	7.30E-03	1.81E-03	1.40E-03
449	565676.1	4222714	0.01331052	7.06E-03	1.75E-03	1.35E-03
450	565659.4	4222721	0.01237755	6.56E-03	1.63E-03	1.26E-03
451	565651	4222724	0.01191439	6.32E-03	1.56E-03	1.21E-03
452	565625.9	4222734	0.01033701	5.48E-03	1.36E-03	1.05E-03
453	565609.1	4222741	0.01033303	5.48E-03	1.36E-03	1.05E-03
454	565600.7	4222744	0.009849963	5.22E-03	1.29E-03	1.00E-03
455	565584	4222751	0.008931926	4.74E-03	1.17E-03	9.08E-04
456	565788.1	4222506	0.03289371	1.74E-02	4.32E-03	3.34E-03
457	565788.3	4222497	0.03343404	1.77E-02	4.39E-03	3.40E-03
458	565788.6	4222488	0.03391861	1.80E-02	4.45E-03	3.45E-03
459	565788.8	4222479	0.03434166	1.82E-02	4.51E-03	3.49E-03
460	565762	4222588	0.02774609	1.47E-02	3.64E-03	2.82E-03
461	565754.8	4222605	0.02620585	1.39E-02	3.44E-03	2.66E-03
462	565751.2	4222613	0.02535129	1.34E-02	3.33E-03	2.58E-03
463	565736.8	4222646	0.02156491	1.14E-02	2.83E-03	2.19E-03
464	565733.3	4222654	0.02063437	1.09E-02	2.71E-03	2.10E-03
465	565726.1	4222670	0.01870367	9.92E-03	2.46E-03	1.90E-03
466	565718.9	4222687	0.01670708	8.86E-03	2.19E-03	1.70E-03
467	565699.8	4222715	0.01357779	7.20E-03	1.78E-03	1.38E-03

468	565691.4	4222718	0.01315349	6.97E-03	1.73E-03	1.34E-03
469	565683.1	4222721	0.01272199	6.75E-03	1.67E-03	1.29E-03
470	565666.5	4222728	0.01184215	6.28E-03	1.56E-03	1.20E-03
471	565658.2	4222731	0.01140567	6.05E-03	1.50E-03	1.16E-03
472	565624.9	4222745	0.009509047	5.04E-03	1.25E-03	9.66E-04
473	565616.6	4222748	0.01006333	5.34E-03	1.32E-03	1.02E-03
474	565599.9	4222755	0.009161274	4.86E-03	1.20E-03	9.31E-04
475	565591.6	4222758	0.008734424	4.63E-03	1.15E-03	8.88E-04
476	565798.2	4222497	0.03214405	1.70E-02	4.22E-03	3.27E-03
477	565798.4	4222488	0.03257367	1.73E-02	4.28E-03	3.31E-03
478	565798.6	4222479	0.03295998	1.75E-02	4.33E-03	3.35E-03
479	565804.2	4222515	0.03043522	1.61E-02	4.00E-03	3.09E-03
480	565779.2	4222572	0.02822162	1.50E-02	3.71E-03	2.87E-03
481	565775.6	4222580	0.02768374	1.47E-02	3.64E-03	2.81E-03
482	565768.5	4222596	0.02640505	1.40E-02	3.47E-03	2.68E-03
483	565764.9	4222604	0.02567238	1.36E-02	3.37E-03	2.61E-03
484	565757.8	4222621	0.02407693	1.28E-02	3.16E-03	2.45E-03
485	565754.2	4222629	0.02321037	1.23E-02	3.05E-03	2.36E-03
486	565747.1	4222645	0.02142234	1.14E-02	2.81E-03	2.18E-03
487	565739.9	4222661	0.01965539	1.04E-02	2.58E-03	2.00E-03
488	565732.8	4222678	0.01777714	9.43E-03	2.33E-03	1.81E-03
489	565729.2	4222686	0.01681894	8.92E-03	2.21E-03	1.71E-03
490	565706.7	4222722	0.01297606	6.88E-03	1.70E-03	1.32E-03
491	565690.1	4222728	0.01216964	6.45E-03	1.60E-03	1.24E-03
492	565673.6	4222735	0.01134335	6.01E-03	1.49E-03	1.15E-03
493	565640.5	4222748	0.009696356	5.14E-03	1.27E-03	9.85E-04
494	565624	4222755	0.008769685	4.65E-03	1.15E-03	8.91E-04
495	565607.5	4222761	0.008946235	4.74E-03	1.17E-03	9.09E-04
496	565590.9	4222768	0.008154693	4.32E-03	1.07E-03	8.29E-04
497	565557.9	4222781	0.006793829	3.60E-03	8.92E-04	6.90E-04
498	565808	4222497	0.03087536	1.64E-02	4.05E-03	3.14E-03
499	565808.2	4222488	0.0312351	1.66E-02	4.10E-03	3.17E-03
500	565808.4	4222479	0.0315996	1.68E-02	4.15E-03	3.21E-03
501	565824.3	4222515	0.0282638	1.50E-02	3.71E-03	2.87E-03
502	565817.2	4222531	0.0280752	1.49E-02	3.69E-03	2.85E-03
503	565803.1	4222563	0.02700065	1.43E-02	3.55E-03	2.74E-03
504	565796	4222580	0.02614765	1.39E-02	3.43E-03	2.66E-03
505	565788.9	4222596	0.02518599	1.34E-02	3.31E-03	2.56E-03
506	565785.4	4222604	0.02462151	1.31E-02	3.23E-03	2.50E-03
507	565778.3	4222620	0.02328738	1.23E-02	3.06E-03	2.37E-03
508	565771.2	4222636	0.02180074	1.16E-02	2.86E-03	2.22E-03
509	565757.1	4222668	0.01859915	9.86E-03	2.44E-03	1.89E-03
510	565750	4222684	0.01692669	8.97E-03	2.22E-03	1.72E-03
511	565743	4222701	0.01525232	8.09E-03	2.00E-03	1.55E-03
512	565720.7	4222736	0.01189688	6.31E-03	1.56E-03	1.21E-03
513	565704.3	4222743	0.01115477	5.91E-03	1.46E-03	1.13E-03
514	565687.9	4222749	0.01041767	5.52E-03	1.37E-03	1.06E-03

515	565655.2	4222762	0.008982223	4.76E-03	1.18E-03	9.13E-04
516	565638.9	4222769	0.008269918	4.38E-03	1.09E-03	8.40E-04
517	565622.5	4222775	0.00750226	3.98E-03	9.85E-04	7.62E-04
518	565606.2	4222782	0.007796913	4.13E-03	1.02E-03	7.92E-04
519	565589.8	4222788	0.00714631	3.79E-03	9.39E-04	7.26E-04
520	565557.1	4222801	0.006023159	3.19E-03	7.91E-04	6.12E-04
521	565828	4222498	0.02845463	1.51E-02	3.74E-03	2.89E-03
522	565828.2	4222489	0.02867516	1.52E-02	3.77E-03	2.91E-03
523	565828.4	4222480	0.02898229	1.54E-02	3.81E-03	2.95E-03
524	565844.2	4222516	0.02617231	1.39E-02	3.44E-03	2.66E-03
525	565840.5	4222524	0.02624103	1.39E-02	3.45E-03	2.67E-03
526	565833.3	4222541	0.02612419	1.39E-02	3.43E-03	2.65E-03
527	565829.7	4222549	0.02593137	1.37E-02	3.41E-03	2.64E-03
528	565815.2	4222582	0.02461279	1.30E-02	3.23E-03	2.50E-03
529	565807.9	4222598	0.02375177	1.26E-02	3.12E-03	2.41E-03
530	565800.7	4222615	0.0227322	1.21E-02	2.99E-03	2.31E-03
531	565793.4	4222631	0.02150176	1.14E-02	2.82E-03	2.19E-03
532	565786.2	4222648	0.02011282	1.07E-02	2.64E-03	2.04E-03
533	565775.3	4222673	0.0178737	9.48E-03	2.35E-03	1.82E-03
534	565768.1	4222689	0.01633437	8.66E-03	2.15E-03	1.66E-03
535	565760.8	4222706	0.01480312	7.85E-03	1.94E-03	1.50E-03
536	565753.6	4222722	0.01331729	7.06E-03	1.75E-03	1.35E-03
537	565734.4	4222751	0.01099546	5.83E-03	1.44E-03	1.12E-03
538	565726	4222754	0.0106507	5.65E-03	1.40E-03	1.08E-03
539	565709.2	4222761	0.009910453	5.25E-03	1.30E-03	1.01E-03
540	565700.8	4222764	0.009548129	5.06E-03	1.25E-03	9.70E-04
541	565667.3	4222777	0.008224705	4.36E-03	1.08E-03	8.36E-04
542	565650.5	4222784	0.007612779	4.04E-03	1.00E-03	7.74E-04
543	565642.1	4222787	0.007312451	3.88E-03	9.60E-04	7.43E-04
544	565625.4	4222794	0.006639685	3.52E-03	8.72E-04	6.75E-04
545	565617	4222797	0.006525051	3.46E-03	8.57E-04	6.63E-04
546	565558.3	4222821	0.004938147	2.62E-03	6.49E-04	5.02E-04
547	565848	4222498	0.02631435	1.40E-02	3.46E-03	2.67E-03
548	565848.2	4222489	0.02651554	1.41E-02	3.48E-03	2.69E-03
549	565848.4	4222480	0.02674661	1.42E-02	3.51E-03	2.72E-03
550	565864.2	4222516	0.0243701	1.29E-02	3.20E-03	2.48E-03
551	565860.6	4222524	0.02448315	1.30E-02	3.22E-03	2.49E-03
552	565853.4	4222541	0.02458748	1.30E-02	3.23E-03	2.50E-03
553	565849.9	4222549	0.02450771	1.30E-02	3.22E-03	2.49E-03
554	565831.9	4222590	0.02303708	1.22E-02	3.03E-03	2.34E-03
555	565828.3	4222598	0.02259831	1.20E-02	2.97E-03	2.30E-03
556	565821.2	4222614	0.02169916	1.15E-02	2.85E-03	2.21E-03
557	565814	4222631	0.0207554	1.10E-02	2.73E-03	2.11E-03
558	565810.4	4222639	0.02020682	1.07E-02	2.65E-03	2.05E-03
559	565803.2	4222655	0.01897719	1.01E-02	2.49E-03	1.93E-03
560	565799.7	4222663	0.01833008	9.72E-03	2.41E-03	1.86E-03
561	565788.9	4222688	0.01630323	8.64E-03	2.14E-03	1.66E-03

562	565781.7	4222704	0.01492241	7.91E-03	1.96E-03	1.52E-03
563	565774.6	4222721	0.01355912	7.19E-03	1.78E-03	1.38E-03
564	565771	4222729	0.0128905	6.83E-03	1.69E-03	1.31E-03
565	565748.3	4222765	0.0101426	5.38E-03	1.33E-03	1.03E-03
566	565731.7	4222771	0.009550764	5.06E-03	1.25E-03	9.71E-04
567	565723.5	4222775	0.009214583	4.89E-03	1.21E-03	9.36E-04
568	565706.9	4222781	0.008545071	4.53E-03	1.12E-03	8.68E-04
569	565682	4222791	0.007656998	4.06E-03	1.01E-03	7.78E-04
570	565665.4	4222798	0.007098568	3.76E-03	9.32E-04	7.21E-04
571	565657.1	4222801	0.006838316	3.63E-03	8.98E-04	6.95E-04
572	565640.5	4222808	0.006328356	3.36E-03	8.31E-04	6.43E-04
573	565607.3	4222821	0.005407629	2.87E-03	7.10E-04	5.50E-04
574	565599	4222824	0.005210127	2.76E-03	6.84E-04	5.29E-04
575	565557.5	4222841	0.004463314	2.37E-03	5.86E-04	4.54E-04
576	565868	4222499	0.02451193	1.30E-02	3.22E-03	2.49E-03
577	565868.2	4222490	0.02468224	1.31E-02	3.24E-03	2.51E-03
578	565868.4	4222481	0.0248622	1.32E-02	3.27E-03	2.53E-03
579	565884.2	4222517	0.02284355	1.21E-02	3.00E-03	2.32E-03
580	565877.1	4222533	0.02301432	1.22E-02	3.02E-03	2.34E-03
581	565873.6	4222541	0.02305305	1.22E-02	3.03E-03	2.34E-03
582	565866.5	4222557	0.0229183	1.22E-02	3.01E-03	2.33E-03
583	565859.4	4222573	0.02257507	1.20E-02	2.96E-03	2.29E-03
584	565845.1	4222606	0.0213329	1.13E-02	2.80E-03	2.17E-03
585	565841.6	4222614	0.02090172	1.11E-02	2.75E-03	2.12E-03
586	565834.5	4222630	0.01999603	1.06E-02	2.63E-03	2.03E-03
587	565827.4	4222646	0.01901686	1.01E-02	2.50E-03	1.93E-03
588	565823.8	4222654	0.01848132	9.80E-03	2.43E-03	1.88E-03
589	565816.7	4222671	0.01732772	9.19E-03	2.28E-03	1.76E-03
590	565799	4222711	0.01426769	7.56E-03	1.87E-03	1.45E-03
591	565791.9	4222727	0.01306627	6.93E-03	1.72E-03	1.33E-03
592	565784.8	4222743	0.0118628	6.29E-03	1.56E-03	1.21E-03
593	565762.3	4222779	0.009351057	4.96E-03	1.23E-03	9.50E-04
594	565745.9	4222786	0.008835824	4.68E-03	1.16E-03	8.98E-04
595	565729.4	4222792	0.008291247	4.40E-03	1.09E-03	8.43E-04
596	565696.6	4222805	0.007189426	3.81E-03	9.44E-04	7.31E-04
597	565680.1	4222812	0.006659426	3.53E-03	8.75E-04	6.77E-04
598	565663.7	4222819	0.00618045	3.28E-03	8.12E-04	6.28E-04
599	565647.2	4222825	0.005754676	3.05E-03	7.56E-04	5.85E-04
600	565614.4	4222838	0.004957486	2.63E-03	6.51E-04	5.04E-04
601	565556.8	4222861	0.004035872	2.14E-03	5.30E-04	4.10E-04
602	565888	4222499	0.02292016	1.22E-02	3.01E-03	2.33E-03
603	565888.2	4222490	0.02306368	1.22E-02	3.03E-03	2.34E-03
604	565888.4	4222481	0.02321026	1.23E-02	3.05E-03	2.36E-03
605	565904.1	4222517	0.02133922	1.13E-02	2.80E-03	2.17E-03
606	565900.5	4222525	0.0214701	1.14E-02	2.82E-03	2.18E-03
607	565893.3	4222542	0.02162914	1.15E-02	2.84E-03	2.20E-03
608	565889.6	4222550	0.02161744	1.15E-02	2.84E-03	2.20E-03

609	565882.4	4222567	0.02141604	1.14E-02	2.81E-03	2.18E-03
610	565875.1	4222583	0.02109863	1.12E-02	2.77E-03	2.14E-03
611	565860.6	4222616	0.01994485	1.06E-02	2.62E-03	2.03E-03
612	565857	4222625	0.01951485	1.03E-02	2.56E-03	1.98E-03
613	565849.7	4222641	0.01860203	9.86E-03	2.44E-03	1.89E-03
614	565842.5	4222658	0.01766925	9.37E-03	2.32E-03	1.80E-03
615	565835.2	4222674	0.01659551	8.80E-03	2.18E-03	1.69E-03
616	565828	4222691	0.01540181	8.17E-03	2.02E-03	1.57E-03
617	565824.3	4222699	0.01480804	7.85E-03	1.94E-03	1.50E-03
618	565817.1	4222716	0.01370756	7.27E-03	1.80E-03	1.39E-03
619	565809.8	4222732	0.01260383	6.68E-03	1.66E-03	1.28E-03
620	565802.6	4222749	0.01151578	6.11E-03	1.51E-03	1.17E-03
621	565795.3	4222765	0.01046299	5.55E-03	1.37E-03	1.06E-03
622	565776.1	4222794	0.008715677	4.62E-03	1.14E-03	8.86E-04
623	565767.7	4222797	0.008460858	4.49E-03	1.11E-03	8.60E-04
624	565759.3	4222800	0.008211257	4.35E-03	1.08E-03	8.34E-04
625	565742.5	4222807	0.007699871	4.08E-03	1.01E-03	7.83E-04
626	565734.1	4222810	0.007433727	3.94E-03	9.76E-04	7.55E-04
627	565717.3	4222817	0.006949184	3.68E-03	9.13E-04	7.06E-04
628	565708.9	4222820	0.006721638	3.56E-03	8.83E-04	6.83E-04
629	565700.5	4222824	0.006488687	3.44E-03	8.52E-04	6.59E-04
630	565683.7	4222830	0.006009415	3.19E-03	7.89E-04	6.11E-04
631	565675.3	4222834	0.005782004	3.07E-03	7.59E-04	5.88E-04
632	565658.5	4222841	0.005367687	2.85E-03	7.05E-04	5.45E-04
633	565633.4	4222851	0.004759123	2.52E-03	6.25E-04	4.84E-04
634	565625	4222854	0.004562616	2.42E-03	5.99E-04	4.64E-04
635	565557.8	4222881	0.003678361	1.95E-03	4.83E-04	3.74E-04
636	565908	4222500	0.02143054	1.14E-02	2.81E-03	2.18E-03
637	565908.2	4222491	0.02158178	1.14E-02	2.83E-03	2.19E-03
638	565908.4	4222482	0.02171502	1.15E-02	2.85E-03	2.21E-03
639	565924.2	4222518	0.02001854	1.06E-02	2.63E-03	2.03E-03
640	565920.6	4222526	0.02012715	1.07E-02	2.64E-03	2.05E-03
641	565913.4	4222542	0.02029918	1.08E-02	2.67E-03	2.06E-03
642	565909.8	4222550	0.02031387	1.08E-02	2.67E-03	2.06E-03
643	565902.6	4222567	0.02018035	1.07E-02	2.65E-03	2.05E-03
644	565895.4	4222583	0.01994786	1.06E-02	2.62E-03	2.03E-03
645	565891.8	4222591	0.01980805	1.05E-02	2.60E-03	2.01E-03
646	565877.4	4222624	0.01878113	9.96E-03	2.47E-03	1.91E-03
647	565873.8	4222632	0.01839245	9.75E-03	2.42E-03	1.87E-03
648	565866.7	4222649	0.01756183	9.31E-03	2.31E-03	1.78E-03
649	565859.5	4222665	0.01668554	8.85E-03	2.19E-03	1.70E-03
650	565855.9	4222673	0.01619198	8.58E-03	2.13E-03	1.65E-03
651	565848.7	4222690	0.01514457	8.03E-03	1.99E-03	1.54E-03
652	565841.5	4222706	0.01410709	7.48E-03	1.85E-03	1.43E-03
653	565837.9	4222714	0.01359785	7.21E-03	1.79E-03	1.38E-03
654	565830.7	4222731	0.01256053	6.66E-03	1.65E-03	1.28E-03
655	565823.5	4222747	0.01153805	6.12E-03	1.52E-03	1.17E-03

656	565816.3	4222764	0.01056649	5.60E-03	1.39E-03	1.07E-03
657	565812.7	4222772	0.01009338	5.35E-03	1.33E-03	1.03E-03
658	565790	4222808	0.008183231	4.34E-03	1.07E-03	8.32E-04
659	565781.7	4222811	0.007953156	4.22E-03	1.04E-03	8.08E-04
660	565765.1	4222818	0.007482115	3.97E-03	9.83E-04	7.60E-04
661	565756.8	4222821	0.007244752	3.84E-03	9.51E-04	7.36E-04
662	565723.5	4222835	0.006339518	3.36E-03	8.33E-04	6.44E-04
663	565715.2	4222838	0.006137928	3.25E-03	8.06E-04	6.24E-04
664	565698.5	4222845	0.005734666	3.04E-03	7.53E-04	5.83E-04
665	565690.2	4222848	0.005515888	2.92E-03	7.24E-04	5.61E-04
666	565673.6	4222854	0.005093099	2.70E-03	6.69E-04	5.18E-04
667	565648.6	4222864	0.004534267	2.40E-03	5.95E-04	4.61E-04
668	565632	4222871	0.004190205	2.22E-03	5.50E-04	4.26E-04
669	565557.1	4222901	0.003338818	1.77E-03	4.38E-04	3.39E-04
670	565928	4222500	0.02011252	1.07E-02	2.64E-03	2.04E-03
671	565928.2	4222491	0.02024585	1.07E-02	2.66E-03	2.06E-03
672	565928.4	4222482	0.02035026	1.08E-02	2.67E-03	2.07E-03
673	565944.2	4222518	0.01885782	1.00E-02	2.48E-03	1.92E-03
674	565937.1	4222534	0.0190175	1.01E-02	2.50E-03	1.93E-03
675	565929.9	4222551	0.01910204	1.01E-02	2.51E-03	1.94E-03
676	565922.8	4222567	0.01901882	1.01E-02	2.50E-03	1.93E-03
677	565915.7	4222583	0.01883576	9.99E-03	2.47E-03	1.91E-03
678	565908.5	4222599	0.01856561	9.84E-03	2.44E-03	1.89E-03
679	565901.4	4222616	0.01819116	9.64E-03	2.39E-03	1.85E-03
680	565890.7	4222640	0.01732525	9.19E-03	2.28E-03	1.76E-03
681	565883.6	4222656	0.01657521	8.79E-03	2.18E-03	1.68E-03
682	565876.4	4222673	0.01573216	8.34E-03	2.07E-03	1.60E-03
683	565869.3	4222689	0.01481423	7.85E-03	1.95E-03	1.51E-03
684	565862.2	4222705	0.01388261	7.36E-03	1.82E-03	1.41E-03
685	565858.6	4222713	0.01342961	7.12E-03	1.76E-03	1.36E-03
686	565844.3	4222746	0.01151272	6.10E-03	1.51E-03	1.17E-03
687	565837.2	4222762	0.01057432	5.61E-03	1.39E-03	1.07E-03
688	565830.1	4222778	0.009696033	5.14E-03	1.27E-03	9.85E-04
689	565823	4222795	0.008881925	4.71E-03	1.17E-03	9.03E-04
690	565804	4222822	0.007638466	4.05E-03	1.00E-03	7.76E-04
691	565787.5	4222829	0.007279502	3.86E-03	9.56E-04	7.40E-04
692	565771	4222836	0.00685042	3.63E-03	9.00E-04	6.96E-04
693	565738	4222849	0.005984562	3.17E-03	7.86E-04	6.08E-04
694	565721.5	4222855	0.005564894	2.95E-03	7.31E-04	5.66E-04
695	565705	4222862	0.005161336	2.74E-03	6.78E-04	5.25E-04
696	565688.5	4222868	0.00478801	2.54E-03	6.29E-04	4.87E-04
697	565672	4222875	0.004461512	2.37E-03	5.86E-04	4.53E-04
698	565655.5	4222882	0.004146094	2.20E-03	5.45E-04	4.21E-04
699	565639	4222888	0.003860048	2.05E-03	5.07E-04	3.92E-04
700	565948	4222501	0.01892434	1.00E-02	2.49E-03	1.92E-03
701	565948.2	4222492	0.01903555	1.01E-02	2.50E-03	1.93E-03
702	565948.4	4222483	0.01911344	1.01E-02	2.51E-03	1.94E-03

703	565964.2	4222518	0.01778989	9.43E-03	2.34E-03	1.81E-03
704	565957.1	4222535	0.01790635	9.49E-03	2.35E-03	1.82E-03
705	565950.1	4222551	0.01797391	9.53E-03	2.36E-03	1.83E-03
706	565946.5	4222559	0.01796307	9.52E-03	2.36E-03	1.83E-03
707	565939.4	4222575	0.01787881	9.48E-03	2.35E-03	1.82E-03
708	565932.4	4222591	0.01770435	9.39E-03	2.33E-03	1.80E-03
709	565925.3	4222607	0.01743603	9.24E-03	2.29E-03	1.77E-03
710	565918.2	4222623	0.01706072	9.05E-03	2.24E-03	1.73E-03
711	565904	4222656	0.01595774	8.46E-03	2.10E-03	1.62E-03
712	565900.5	4222664	0.01560424	8.27E-03	2.05E-03	1.59E-03
713	565893.4	4222680	0.01483983	7.87E-03	1.95E-03	1.51E-03
714	565886.3	4222696	0.01400972	7.43E-03	1.84E-03	1.42E-03
715	565879.3	4222712	0.01314532	6.97E-03	1.73E-03	1.34E-03
716	565872.2	4222728	0.01228605	6.51E-03	1.61E-03	1.25E-03
717	565858	4222761	0.01050525	5.57E-03	1.38E-03	1.07E-03
718	565854.5	4222769	0.01006734	5.34E-03	1.32E-03	1.02E-03
719	565847.4	4222785	0.009235267	4.90E-03	1.21E-03	9.39E-04
720	565840.3	4222801	0.008503273	4.51E-03	1.12E-03	8.64E-04
721	565818	4222837	0.007204111	3.82E-03	9.46E-04	7.32E-04
722	565801.6	4222843	0.006871076	3.64E-03	9.02E-04	6.98E-04
723	565785.2	4222850	0.006480886	3.44E-03	8.51E-04	6.59E-04
724	565752.4	4222863	0.005615836	2.98E-03	7.38E-04	5.71E-04
725	565736.1	4222869	0.005212843	2.76E-03	6.85E-04	5.30E-04
726	565719.7	4222876	0.004833438	2.56E-03	6.35E-04	4.91E-04
727	565703.3	4222882	0.004480313	2.38E-03	5.88E-04	4.55E-04
728	565686.9	4222889	0.004197279	2.23E-03	5.51E-04	4.27E-04
729	565670.5	4222896	0.003935171	2.09E-03	5.17E-04	4.00E-04
730	565654.1	4222902	0.003676532	1.95E-03	4.83E-04	3.74E-04
731	565547.7	4222945	0.002784451	1.48E-03	3.66E-04	2.83E-04
732	565968	4222501	0.01783728	9.46E-03	2.34E-03	1.81E-03
733	565968.2	4222492	0.01793061	9.51E-03	2.35E-03	1.82E-03
734	565968.4	4222483	0.01799634	9.54E-03	2.36E-03	1.83E-03
735	565984.1	4222519	0.01676754	8.89E-03	2.20E-03	1.70E-03
736	565976.9	4222535	0.01688635	8.95E-03	2.22E-03	1.72E-03
737	565969.7	4222552	0.01692674	8.97E-03	2.22E-03	1.72E-03
738	565962.5	4222568	0.01690993	8.97E-03	2.22E-03	1.72E-03
739	565955.3	4222585	0.01679735	8.91E-03	2.21E-03	1.71E-03
740	565948.1	4222601	0.01661768	8.81E-03	2.18E-03	1.69E-03
741	565944.5	4222609	0.01649543	8.75E-03	2.17E-03	1.68E-03
742	565937.3	4222626	0.01611974	8.55E-03	2.12E-03	1.64E-03
743	565930.1	4222642	0.01570131	8.32E-03	2.06E-03	1.60E-03
744	565915.7	4222675	0.01454276	7.71E-03	1.91E-03	1.48E-03
745	565912.1	4222683	0.01418616	7.52E-03	1.86E-03	1.44E-03
746	565904.9	4222700	0.01342676	7.12E-03	1.76E-03	1.36E-03
747	565897.7	4222716	0.01261916	6.69E-03	1.66E-03	1.28E-03
748	565890.5	4222733	0.01176702	6.24E-03	1.55E-03	1.20E-03
749	565886.9	4222741	0.01133764	6.01E-03	1.49E-03	1.15E-03

750	565872.5	4222774	0.009625456	5.10E-03	1.26E-03	9.78E-04
751	565865.3	4222790	0.008852392	4.69E-03	1.16E-03	9.00E-04
752	565858.1	4222807	0.008189847	4.34E-03	1.08E-03	8.32E-04
753	565854.5	4222815	0.007840567	4.16E-03	1.03E-03	7.97E-04
754	565831.7	4222851	0.006829225	3.62E-03	8.97E-04	6.94E-04
755	565823.4	4222854	0.006674166	3.54E-03	8.77E-04	6.78E-04
756	565815.1	4222858	0.006494604	3.44E-03	8.53E-04	6.60E-04
757	565798.4	4222864	0.006130181	3.25E-03	8.05E-04	6.23E-04
758	565790.1	4222868	0.005932894	3.15E-03	7.79E-04	6.03E-04
759	565773.4	4222874	0.005478932	2.90E-03	7.20E-04	5.57E-04
760	565756.7	4222881	0.005057569	2.68E-03	6.64E-04	5.14E-04
761	565748.4	4222884	0.004882014	2.59E-03	6.41E-04	4.96E-04
762	565731.7	4222891	0.004542229	2.41E-03	5.97E-04	4.62E-04
763	565723.4	4222894	0.004369444	2.32E-03	5.74E-04	4.44E-04
764	565698.4	4222904	0.003892943	2.06E-03	5.11E-04	3.96E-04
765	565681.7	4222911	0.00366225	1.94E-03	4.81E-04	3.72E-04
766	565673.4	4222914	0.003552243	1.88E-03	4.67E-04	3.61E-04
767	565656.7	4222921	0.003328436	1.76E-03	4.37E-04	3.38E-04
768	565556.7	4222961	0.002619278	1.39E-03	3.44E-04	2.66E-04
769	565988	4222502	0.01681058	8.91E-03	2.21E-03	1.71E-03
770	565988.2	4222493	0.0169084	8.96E-03	2.22E-03	1.72E-03
771	565988.4	4222484	0.01697693	9.00E-03	2.23E-03	1.73E-03
772	566004.2	4222519	0.01579434	8.37E-03	2.07E-03	1.61E-03
773	565997	4222536	0.01596476	8.46E-03	2.10E-03	1.62E-03
774	565989.9	4222552	0.0160206	8.49E-03	2.10E-03	1.63E-03
775	565982.7	4222568	0.01597334	8.47E-03	2.10E-03	1.62E-03
776	565975.6	4222585	0.01585494	8.41E-03	2.08E-03	1.61E-03
777	565972	4222593	0.01575878	8.36E-03	2.07E-03	1.60E-03
778	565964.8	4222609	0.01555453	8.25E-03	2.04E-03	1.58E-03
779	565961.3	4222617	0.01544323	8.19E-03	2.03E-03	1.57E-03
780	565954.1	4222634	0.0151258	8.02E-03	1.99E-03	1.54E-03
781	565950.5	4222642	0.01494572	7.92E-03	1.96E-03	1.52E-03
782	565943.4	4222658	0.01454843	7.71E-03	1.91E-03	1.48E-03
783	565932.6	4222683	0.01372233	7.28E-03	1.80E-03	1.39E-03
784	565929.1	4222691	0.01339763	7.10E-03	1.76E-03	1.36E-03
785	565921.9	4222707	0.01270865	6.74E-03	1.67E-03	1.29E-03
786	565918.3	4222715	0.01234753	6.55E-03	1.62E-03	1.25E-03
787	565911.2	4222732	0.01156737	6.13E-03	1.52E-03	1.18E-03
788	565907.6	4222740	0.0111498	5.91E-03	1.46E-03	1.13E-03
789	565900.5	4222756	0.01033975	5.48E-03	1.36E-03	1.05E-03
790	565896.9	4222764	0.009961638	5.28E-03	1.31E-03	1.01E-03
791	565882.6	4222797	0.008496845	4.51E-03	1.12E-03	8.64E-04
792	565875.4	4222813	0.007959424	4.22E-03	1.05E-03	8.09E-04
793	565871.8	4222821	0.007689192	4.08E-03	1.01E-03	7.81E-04
794	565864.7	4222838	0.007230954	3.83E-03	9.50E-04	7.35E-04
795	565845.7	4222865	0.006457136	3.42E-03	8.48E-04	6.56E-04
796	565829.1	4222872	0.006153931	3.26E-03	8.08E-04	6.25E-04

797	565812.6	4222879	0.005817426	3.08E-03	7.64E-04	5.91E-04
798	565779.5	4222892	0.005049392	2.68E-03	6.63E-04	5.13E-04
799	565762.9	4222899	0.004638976	2.46E-03	6.09E-04	4.71E-04
800	565746.4	4222905	0.004330229	2.30E-03	5.69E-04	4.40E-04
801	565696.7	4222925	0.00347669	1.84E-03	4.57E-04	3.53E-04
802	565680.2	4222932	0.003267434	1.73E-03	4.29E-04	3.32E-04
803	565663.6	4222938	0.003077463	1.63E-03	4.04E-04	3.13E-04
804	565556.1	4222981	0.002452546	1.30E-03	3.22E-04	2.49E-04
805	566008	4222502	0.01587409	8.42E-03	2.08E-03	1.61E-03
806	566008.2	4222493	0.01597342	8.47E-03	2.10E-03	1.62E-03
807	566008.4	4222484	0.01604507	8.51E-03	2.11E-03	1.63E-03
808	566024.2	4222520	0.01505202	7.98E-03	1.98E-03	1.53E-03
809	566017.1	4222536	0.01515541	8.04E-03	1.99E-03	1.54E-03
810	566010	4222552	0.0151939	8.06E-03	2.00E-03	1.54E-03
811	566002.9	4222569	0.01511423	8.01E-03	1.98E-03	1.54E-03
812	565995.8	4222585	0.01499653	7.95E-03	1.97E-03	1.52E-03
813	565992.2	4222593	0.01491337	7.91E-03	1.96E-03	1.52E-03
814	565985.1	4222609	0.01471218	7.80E-03	1.93E-03	1.50E-03
815	565978	4222625	0.01452345	7.70E-03	1.91E-03	1.48E-03
816	565970.9	4222641	0.01426769	7.56E-03	1.87E-03	1.45E-03
817	565963.8	4222658	0.01394334	7.39E-03	1.83E-03	1.42E-03
818	565960.2	4222666	0.01375369	7.29E-03	1.81E-03	1.40E-03
819	565946	4222698	0.01266341	6.71E-03	1.66E-03	1.29E-03
820	565942.5	4222706	0.01235598	6.55E-03	1.62E-03	1.26E-03
821	565935.4	4222723	0.01170882	6.21E-03	1.54E-03	1.19E-03
822	565928.3	4222739	0.01099105	5.83E-03	1.44E-03	1.12E-03
823	565924.7	4222747	0.01060635	5.62E-03	1.39E-03	1.08E-03
824	565917.6	4222763	0.009864945	5.23E-03	1.30E-03	1.00E-03
825	565910.5	4222779	0.009203125	4.88E-03	1.21E-03	9.35E-04
826	565896.3	4222812	0.007992533	4.24E-03	1.05E-03	8.12E-04
827	565892.7	4222820	0.007739758	4.10E-03	1.02E-03	7.87E-04
828	565885.6	4222836	0.007216456	3.83E-03	9.48E-04	7.33E-04
829	565878.5	4222852	0.006753081	3.58E-03	8.87E-04	6.86E-04
830	565859.7	4222880	0.006083434	3.23E-03	7.99E-04	6.18E-04
831	565843.2	4222886	0.005816028	3.08E-03	7.64E-04	5.91E-04
832	565826.8	4222893	0.005496011	2.91E-03	7.22E-04	5.59E-04
833	565793.9	4222906	0.004861492	2.58E-03	6.38E-04	4.94E-04
834	565777.4	4222913	0.00447929	2.37E-03	5.88E-04	4.55E-04
835	565761	4222919	0.004124765	2.19E-03	5.42E-04	4.19E-04
836	565744.6	4222926	0.003832103	2.03E-03	5.03E-04	3.89E-04
837	565728.1	4222932	0.003555551	1.89E-03	4.67E-04	3.61E-04
838	565711.7	4222939	0.003331851	1.77E-03	4.38E-04	3.39E-04
839	566028	4222503	0.01507816	7.99E-03	1.98E-03	1.53E-03
840	566028.2	4222494	0.01514191	8.03E-03	1.99E-03	1.54E-03
841	566028.4	4222485	0.01519159	8.05E-03	2.00E-03	1.54E-03
842	566044.1	4222520	0.01435688	7.61E-03	1.89E-03	1.46E-03
843	566036.9	4222537	0.01443216	7.65E-03	1.90E-03	1.47E-03

844	566029.7	4222553	0.01441909	7.64E-03	1.89E-03	1.47E-03
845	566022.5	4222570	0.01430037	7.58E-03	1.88E-03	1.45E-03
846	566015.3	4222586	0.01417696	7.52E-03	1.86E-03	1.44E-03
847	566008	4222603	0.01401655	7.43E-03	1.84E-03	1.42E-03
848	566000.8	4222619	0.01387077	7.35E-03	1.82E-03	1.41E-03
849	565993.6	4222636	0.01368408	7.26E-03	1.80E-03	1.39E-03
850	565990	4222644	0.01354374	7.18E-03	1.78E-03	1.38E-03
851	565982.8	4222660	0.01324486	7.02E-03	1.74E-03	1.35E-03
852	565975.6	4222677	0.01286599	6.82E-03	1.69E-03	1.31E-03
853	565968.4	4222693	0.01238433	6.57E-03	1.63E-03	1.26E-03
854	565961.1	4222710	0.01183405	6.27E-03	1.55E-03	1.20E-03
855	565953.9	4222726	0.01124141	5.96E-03	1.48E-03	1.14E-03
856	565946.7	4222743	0.01062147	5.63E-03	1.39E-03	1.08E-03
857	565943.1	4222751	0.01028639	5.45E-03	1.35E-03	1.05E-03
858	565935.9	4222767	0.009644042	5.11E-03	1.27E-03	9.80E-04
859	565928.7	4222784	0.009015547	4.78E-03	1.18E-03	9.16E-04
860	565914.2	4222817	0.007767838	4.12E-03	1.02E-03	7.89E-04
861	565907	4222833	0.007361806	3.90E-03	9.67E-04	7.48E-04
862	565899.8	4222850	0.006899587	3.66E-03	9.06E-04	7.01E-04
863	565873.4	4222894	0.005676569	3.01E-03	7.46E-04	5.77E-04
864	565856.7	4222901	0.005470594	2.90E-03	7.18E-04	5.56E-04
865	565848.4	4222904	0.005332022	2.83E-03	7.00E-04	5.42E-04
866	565831.7	4222911	0.005029865	2.67E-03	6.61E-04	5.11E-04
867	565815	4222918	0.004735804	2.51E-03	6.22E-04	4.81E-04
868	565806.6	4222921	0.004589809	2.43E-03	6.03E-04	4.66E-04
869	565789.9	4222928	0.00428792	2.27E-03	5.63E-04	4.36E-04
870	565781.6	4222931	0.004113119	2.18E-03	5.40E-04	4.18E-04
871	565764.9	4222938	0.003781537	2.00E-03	4.97E-04	3.84E-04
872	565739.9	4222948	0.003392961	1.80E-03	4.46E-04	3.45E-04
873	565731.5	4222951	0.003279376	1.74E-03	4.31E-04	3.33E-04
874	565714.8	4222958	0.003092068	1.64E-03	4.06E-04	3.14E-04
875	565706.5	4222961	0.003005891	1.59E-03	3.95E-04	3.05E-04
876	565689.8	4222968	0.002848384	1.51E-03	3.74E-04	2.89E-04
877	565681.4	4222971	0.002777565	1.47E-03	3.65E-04	2.82E-04
878	565556.2	4223021	0.002203832	1.17E-03	2.89E-04	2.24E-04
879	565539.5	4223028	0.002173358	1.15E-03	2.85E-04	2.21E-04
880	566047.7	4222512	0.01429706	7.58E-03	1.88E-03	1.45E-03
881	566047.9	4222503	0.01434028	7.60E-03	1.88E-03	1.46E-03
882	566048.2	4222494	0.01437541	7.62E-03	1.89E-03	1.46E-03
883	566048.4	4222485	0.01440282	7.64E-03	1.89E-03	1.46E-03
884	566064.1	4222521	0.01370232	7.26E-03	1.80E-03	1.39E-03
885	566057	4222537	0.01379084	7.31E-03	1.81E-03	1.40E-03
886	566049.8	4222554	0.01376652	7.30E-03	1.81E-03	1.40E-03
887	566046.2	4222562	0.01368825	7.26E-03	1.80E-03	1.39E-03
888	566039	4222578	0.0134985	7.16E-03	1.77E-03	1.37E-03
889	566035.5	4222586	0.01343241	7.12E-03	1.76E-03	1.37E-03
890	566028.3	4222603	0.01328932	7.05E-03	1.75E-03	1.35E-03

891	566024.7	4222611	0.01323031	7.01E-03	1.74E-03	1.34E-03
892	566017.5	4222627	0.01311328	6.95E-03	1.72E-03	1.33E-03
893	566014	4222635	0.01303571	6.91E-03	1.71E-03	1.32E-03
894	566006.8	4222652	0.01272917	6.75E-03	1.67E-03	1.29E-03
895	565999.6	4222668	0.01241227	6.58E-03	1.63E-03	1.26E-03
896	565996	4222676	0.0122049	6.47E-03	1.60E-03	1.24E-03
897	565988.9	4222693	0.01178421	6.25E-03	1.55E-03	1.20E-03
898	565985.3	4222701	0.01160193	6.15E-03	1.52E-03	1.18E-03
899	565974.5	4222725	0.01094433	5.80E-03	1.44E-03	1.11E-03
900	565967.4	4222742	0.01044973	5.54E-03	1.37E-03	1.06E-03
901	565963.8	4222750	0.01017633	5.40E-03	1.34E-03	1.03E-03
902	565956.6	4222766	0.00961225	5.10E-03	1.26E-03	9.77E-04
903	565949.4	4222783	0.00903911	4.79E-03	1.19E-03	9.19E-04
904	565945.9	4222791	0.008767211	4.65E-03	1.15E-03	8.91E-04
905	565938.7	4222807	0.008235947	4.37E-03	1.08E-03	8.37E-04
906	565913.6	4222864	0.006608753	3.50E-03	8.68E-04	6.72E-04
907	565906.4	4222881	0.006155006	3.26E-03	8.08E-04	6.26E-04
908	565899.3	4222897	0.005705805	3.03E-03	7.49E-04	5.80E-04
909	565887.4	4222909	0.005371668	2.85E-03	7.05E-04	5.46E-04
910	565879.1	4222912	0.005248562	2.78E-03	6.89E-04	5.33E-04
911	565862.5	4222919	0.005000763	2.65E-03	6.57E-04	5.08E-04
912	565854.2	4222922	0.004868647	2.58E-03	6.39E-04	4.95E-04
913	565812.7	4222938	0.004230012	2.24E-03	5.56E-04	4.30E-04
914	565796.2	4222945	0.003973714	2.11E-03	5.22E-04	4.04E-04
915	565779.6	4222952	0.003687614	1.96E-03	4.84E-04	3.75E-04
916	565754.7	4222962	0.003308021	1.75E-03	4.34E-04	3.36E-04
917	565746.4	4222965	0.003196292	1.69E-03	4.20E-04	3.25E-04
918	565729.8	4222971	0.003002798	1.59E-03	3.94E-04	3.05E-04
919	565721.5	4222975	0.002920897	1.55E-03	3.84E-04	2.97E-04
920	565704.9	4222981	0.002762799	1.46E-03	3.63E-04	2.81E-04
921	565688.3	4222988	0.002629122	1.39E-03	3.45E-04	2.67E-04
922	565555.6	4223041	0.002107112	1.12E-03	2.77E-04	2.14E-04
923	566067.7	4222513	0.01362456	7.22E-03	1.79E-03	1.38E-03
924	566067.9	4222504	0.0136453	7.23E-03	1.79E-03	1.39E-03
925	566068.2	4222495	0.0136577	7.24E-03	1.79E-03	1.39E-03
926	566068.4	4222486	0.01366289	7.24E-03	1.79E-03	1.39E-03
927	566084.2	4222521	0.01303953	6.91E-03	1.71E-03	1.33E-03
928	566077	4222538	0.01314755	6.97E-03	1.73E-03	1.34E-03
929	566069.9	4222554	0.01314542	6.97E-03	1.73E-03	1.34E-03
930	566062.8	4222570	0.01298364	6.88E-03	1.71E-03	1.32E-03
931	566055.7	4222586	0.01283108	6.80E-03	1.69E-03	1.30E-03
932	566048.5	4222603	0.0126853	6.73E-03	1.67E-03	1.29E-03
933	566045	4222611	0.01262002	6.69E-03	1.66E-03	1.28E-03
934	566037.8	4222627	0.01249533	6.62E-03	1.64E-03	1.27E-03
935	566030.7	4222643	0.012228	6.48E-03	1.61E-03	1.24E-03
936	566023.6	4222660	0.01185024	6.28E-03	1.56E-03	1.20E-03
937	566016.5	4222676	0.01155276	6.13E-03	1.52E-03	1.17E-03

938	566009.3	4222692	0.01118554	5.93E-03	1.47E-03	1.14E-03
939	566002.2	4222708	0.01090351	5.78E-03	1.43E-03	1.11E-03
940	565988	4222741	0.01020812	5.41E-03	1.34E-03	1.04E-03
941	565980.8	4222757	0.009760074	5.17E-03	1.28E-03	9.92E-04
942	565973.7	4222773	0.009284622	4.92E-03	1.22E-03	9.44E-04
943	565966.6	4222790	0.00875976	4.64E-03	1.15E-03	8.90E-04
944	565959.5	4222806	0.008256954	4.38E-03	1.08E-03	8.39E-04
945	565952.3	4222822	0.007788737	4.13E-03	1.02E-03	7.92E-04
946	565941.6	4222847	0.007096282	3.76E-03	9.32E-04	7.21E-04
947	565934.5	4222863	0.006695253	3.55E-03	8.79E-04	6.80E-04
948	565927.4	4222879	0.00629234	3.34E-03	8.26E-04	6.39E-04
949	565920.3	4222895	0.005863312	3.11E-03	7.70E-04	5.96E-04
950	565913.1	4222912	0.00541828	2.87E-03	7.12E-04	5.51E-04
951	565901.3	4222923	0.005075159	2.69E-03	6.67E-04	5.16E-04
952	565884.9	4222930	0.004829646	2.56E-03	6.34E-04	4.91E-04
953	565868.4	4222936	0.004581794	2.43E-03	6.02E-04	4.66E-04
954	565851.9	4222943	0.004336281	2.30E-03	5.69E-04	4.41E-04
955	565835.4	4222949	0.004111236	2.18E-03	5.40E-04	4.18E-04
956	565769.4	4222976	0.003224991	1.71E-03	4.24E-04	3.28E-04
957	565752.9	4222982	0.003026978	1.60E-03	3.98E-04	3.08E-04
958	565736.5	4222989	0.002860864	1.52E-03	3.76E-04	2.91E-04
959	565720	4222995	0.002702685	1.43E-03	3.55E-04	2.75E-04
960	565703.5	4223002	0.002558653	1.36E-03	3.36E-04	2.60E-04
961	565687	4223009	0.002454859	1.30E-03	3.22E-04	2.49E-04
962	566082.4	4222571	0.01231262	6.53E-03	1.62E-03	1.25E-03
963	566075.2	4222588	0.01224288	6.49E-03	1.61E-03	1.24E-03
964	566068	4222604	0.01214748	6.44E-03	1.60E-03	1.23E-03
965	566060.8	4222621	0.0120336	6.38E-03	1.58E-03	1.22E-03
966	566053.5	4222637	0.01189449	6.31E-03	1.56E-03	1.21E-03
967	566046.3	4222654	0.0114902	6.09E-03	1.51E-03	1.17E-03
968	566039.1	4222670	0.01105695	5.86E-03	1.45E-03	1.12E-03
969	566031.9	4222687	0.01078981	5.72E-03	1.42E-03	1.10E-03
970	566024.6	4222703	0.01056033	5.60E-03	1.39E-03	1.07E-03
971	566017.4	4222720	0.01033771	5.48E-03	1.36E-03	1.05E-03
972	566013.8	4222728	0.01020174	5.41E-03	1.34E-03	1.04E-03
973	565999.3	4222761	0.009418836	4.99E-03	1.24E-03	9.57E-04
974	565992.1	4222777	0.008980771	4.76E-03	1.18E-03	9.13E-04
975	565984.9	4222794	0.008532672	4.52E-03	1.12E-03	8.67E-04
976	565977.7	4222810	0.008057031	4.27E-03	1.06E-03	8.19E-04
977	565970.4	4222827	0.007634081	4.05E-03	1.00E-03	7.76E-04
978	565956	4222860	0.006803969	3.61E-03	8.94E-04	6.91E-04
979	565948.8	4222876	0.006401353	3.39E-03	8.41E-04	6.51E-04
980	565941.5	4222893	0.006020872	3.19E-03	7.91E-04	6.12E-04
981	565934.3	4222909	0.005607606	2.97E-03	7.36E-04	5.70E-04
982	565927.1	4222926	0.00513409	2.72E-03	6.74E-04	5.22E-04
983	565915.1	4222937	0.004797505	2.54E-03	6.30E-04	4.88E-04
984	565898.4	4222944	0.004560384	2.42E-03	5.99E-04	4.63E-04

985	565890.1	4222947	0.004447633	2.36E-03	5.84E-04	4.52E-04
986	565873.3	4222954	0.004219469	2.24E-03	5.54E-04	4.29E-04
987	565865	4222957	0.00410349	2.18E-03	5.39E-04	4.17E-04
988	565848.3	4222964	0.003874868	2.05E-03	5.09E-04	3.94E-04
989	565839.9	4222967	0.003763409	2.00E-03	4.94E-04	3.82E-04
990	565823.2	4222974	0.003557488	1.89E-03	4.67E-04	3.62E-04
991	565814.8	4222977	0.00347322	1.84E-03	4.56E-04	3.53E-04
992	565806.5	4222981	0.003390379	1.80E-03	4.45E-04	3.45E-04
993	565781.4	4222991	0.003110142	1.65E-03	4.08E-04	3.16E-04
994	565764.7	4222997	0.002913662	1.54E-03	3.83E-04	2.96E-04
995	565756.3	4223001	0.002837679	1.50E-03	3.73E-04	2.88E-04
996	565739.6	4223007	0.002698058	1.43E-03	3.54E-04	2.74E-04
997	565731.2	4223011	0.002630359	1.39E-03	3.45E-04	2.67E-04
998	565714.5	4223017	0.002491142	1.32E-03	3.27E-04	2.53E-04
999	565706.2	4223021	0.002427828	1.29E-03	3.19E-04	2.47E-04
1000	565689.4	4223027	0.00233108	1.24E-03	3.06E-04	2.37E-04
1001	565681.1	4223031	0.002289633	1.21E-03	3.01E-04	2.33E-04
1002	565555.7	4223081	0.001926581	1.02E-03	2.53E-04	1.96E-04
1003	565539	4223087	0.0018843	9.99E-04	2.47E-04	1.91E-04
1004	565530.6	4223091	0.00186176	9.87E-04	2.45E-04	1.89E-04
1005	565552.5	4222461	0.1263107	6.70E-02	1.66E-02	1.28E-02
1006	565552.2	4222451	0.1352195	7.17E-02	1.78E-02	1.37E-02
1007	565562.3	4222461	0.1175901	6.23E-02	1.54E-02	1.20E-02
1008	565562.1	4222451	0.1253826	6.65E-02	1.65E-02	1.27E-02
1009	565572.1	4222461	0.1098554	5.82E-02	1.44E-02	1.12E-02
1010	565571.9	4222451	0.1166298	6.18E-02	1.53E-02	1.19E-02
1011	565582	4222460	0.1028988	5.46E-02	1.35E-02	1.05E-02
1012	565581.7	4222451	0.1087621	5.77E-02	1.43E-02	1.11E-02
1013	565611.5	4222460	0.08551118	4.53E-02	1.12E-02	8.69E-03
1014	565611.2	4222450	0.08929603	4.73E-02	1.17E-02	9.07E-03
1015	565621.3	4222459	0.08062241	4.27E-02	1.06E-02	8.19E-03
1016	565621.1	4222450	0.08389729	4.45E-02	1.10E-02	8.53E-03
1017	565631.2	4222459	0.07604019	4.03E-02	9.99E-03	7.73E-03
1018	565630.9	4222449	0.07885912	4.18E-02	1.04E-02	8.01E-03
1019	565640.8	4222449	0.07430003	3.94E-02	9.76E-03	7.55E-03
1020	565650.6	4222449	0.07006854	3.72E-02	9.20E-03	7.12E-03
1021	565660.7	4222458	0.06432502	3.41E-02	8.45E-03	6.54E-03
1022	565670.5	4222458	0.0609376	3.23E-02	8.00E-03	6.19E-03
1023	565670.3	4222448	0.06251722	3.31E-02	8.21E-03	6.35E-03
1024	565680.6	4222468	0.05624957	2.98E-02	7.39E-03	5.72E-03
1025	565680.3	4222458	0.05778682	3.06E-02	7.59E-03	5.87E-03
1026	565680.1	4222448	0.05915301	3.14E-02	7.77E-03	6.01E-03
1027	565690.4	4222467	0.05350035	2.84E-02	7.03E-03	5.44E-03
1028	565690.2	4222458	0.05484534	2.91E-02	7.20E-03	5.57E-03
1029	565689.9	4222448	0.05602602	2.97E-02	7.36E-03	5.69E-03
1030	565700.2	4222467	0.0509258	2.70E-02	6.69E-03	5.18E-03
1031	565700	4222457	0.05210325	2.76E-02	6.84E-03	5.30E-03

1032	565699.8	4222448	0.05312377	2.82E-02	6.98E-03	5.40E-03
1033	565710.1	4222467	0.04853622	2.57E-02	6.37E-03	4.93E-03
1034	565709.8	4222457	0.04956606	2.63E-02	6.51E-03	5.04E-03
1035	565709.6	4222447	0.05044854	2.67E-02	6.63E-03	5.13E-03
1036	565719.9	4222467	0.04630686	2.46E-02	6.08E-03	4.71E-03
1037	565719.7	4222457	0.04720901	2.50E-02	6.20E-03	4.80E-03
1038	565719.4	4222447	0.04797319	2.54E-02	6.30E-03	4.88E-03
1039	565729.8	4222467	0.04421565	2.34E-02	5.81E-03	4.49E-03
1040	565729.5	4222457	0.04500625	2.39E-02	5.91E-03	4.57E-03
1041	565729.3	4222447	0.04566858	2.42E-02	6.00E-03	4.64E-03
1042	565739.6	4222466	0.04224912	2.24E-02	5.55E-03	4.29E-03
1043	565739.4	4222457	0.04294265	2.28E-02	5.64E-03	4.36E-03
1044	565739.1	4222447	0.04351649	2.31E-02	5.72E-03	4.42E-03
1045	565749.2	4222456	0.04101174	2.17E-02	5.39E-03	4.17E-03
1046	565748.9	4222447	0.04150949	2.20E-02	5.45E-03	4.22E-03
1047	565758.8	4222446	0.03963138	2.10E-02	5.20E-03	4.03E-03
1048	565769.1	4222466	0.03701689	1.96E-02	4.86E-03	3.76E-03
1049	565778.9	4222465	0.03545287	1.88E-02	4.66E-03	3.60E-03
1050	565778.7	4222456	0.03586652	1.90E-02	4.71E-03	3.64E-03
1051	565788.8	4222465	0.03491798	1.85E-02	4.59E-03	3.55E-03
1052	565788.5	4222455	0.03434422	1.82E-02	4.51E-03	3.49E-03
1053	565798.6	4222465	0.03351072	1.78E-02	4.40E-03	3.41E-03
1054	565798.4	4222455	0.0338313	1.79E-02	4.44E-03	3.44E-03
1055	565798.1	4222445	0.03408211	1.81E-02	4.48E-03	3.46E-03
1056	565808.4	4222465	0.0321459	1.70E-02	4.22E-03	3.27E-03
1057	565808.2	4222455	0.03245015	1.72E-02	4.26E-03	3.30E-03
1058	565808	4222445	0.03267434	1.73E-02	4.29E-03	3.32E-03
1059	565828.4	4222464	0.02953577	1.57E-02	3.88E-03	3.00E-03
1060	565828.2	4222454	0.02981719	1.58E-02	3.92E-03	3.03E-03
1061	565828	4222445	0.03001353	1.59E-02	3.94E-03	3.05E-03
1062	565848.4	4222464	0.02717984	1.44E-02	3.57E-03	2.76E-03
1063	565848.2	4222454	0.02740058	1.45E-02	3.60E-03	2.78E-03
1064	565848	4222444	0.02756938	1.46E-02	3.62E-03	2.80E-03
1065	565868.4	4222472	0.02505597	1.33E-02	3.29E-03	2.55E-03
1066	565868.4	4222463	0.02521786	1.34E-02	3.31E-03	2.56E-03
1067	565868.2	4222453	0.02538639	1.35E-02	3.33E-03	2.58E-03
1068	565867.9	4222444	0.02551862	1.35E-02	3.35E-03	2.59E-03
1069	565888.4	4222472	0.02337474	1.24E-02	3.07E-03	2.38E-03
1070	565888.4	4222463	0.02351231	1.25E-02	3.09E-03	2.39E-03
1071	565888.2	4222453	0.02364306	1.25E-02	3.11E-03	2.40E-03
1072	565887.9	4222443	0.0237401	1.26E-02	3.12E-03	2.41E-03
1073	565908.4	4222469	0.02189878	1.16E-02	2.88E-03	2.23E-03
1074	565908.2	4222452	0.02206258	1.17E-02	2.90E-03	2.24E-03
1075	565907.9	4222443	0.02210831	1.17E-02	2.90E-03	2.25E-03
1076	565928.4	4222468	0.02047544	1.09E-02	2.69E-03	2.08E-03
1077	565928.2	4222452	0.02058953	1.09E-02	2.70E-03	2.09E-03
1078	565927.9	4222442	0.0206348	1.09E-02	2.71E-03	2.10E-03

1079	565948.4	4222468	0.01918429	1.02E-02	2.52E-03	1.95E-03
1080	565948.2	4222451	0.01925702	1.02E-02	2.53E-03	1.96E-03
1081	565947.9	4222442	0.01931587	1.02E-02	2.54E-03	1.96E-03
1082	565968.4	4222468	0.01805339	9.57E-03	2.37E-03	1.83E-03
1083	565968.2	4222451	0.01811119	9.60E-03	2.38E-03	1.84E-03
1084	565967.9	4222441	0.01815727	9.63E-03	2.38E-03	1.85E-03
1085	565988.4	4222468	0.0170215	9.02E-03	2.24E-03	1.73E-03
1086	565988.1	4222450	0.01706793	9.05E-03	2.24E-03	1.73E-03
1087	565987.9	4222441	0.01710488	9.07E-03	2.25E-03	1.74E-03
1088	566008.4	4222468	0.01608934	8.53E-03	2.11E-03	1.64E-03
1089	566008.1	4222450	0.01612646	8.55E-03	2.12E-03	1.64E-03
1090	566007.9	4222440	0.01615053	8.56E-03	2.12E-03	1.64E-03
1091	566028.4	4222468	0.01526173	8.09E-03	2.00E-03	1.55E-03
1092	566028.1	4222449	0.01529772	8.11E-03	2.01E-03	1.55E-03
1093	566027.9	4222440	0.01529657	8.11E-03	2.01E-03	1.55E-03
1094	566048.4	4222467	0.01444824	7.66E-03	1.90E-03	1.47E-03
1095	566048.4	4222459	0.01446035	7.67E-03	1.90E-03	1.47E-03
1096	566048.1	4222449	0.01446511	7.67E-03	1.90E-03	1.47E-03
1097	566047.9	4222439	0.01445846	7.67E-03	1.90E-03	1.47E-03
1098	566068.4	4222467	0.01367696	7.25E-03	1.80E-03	1.39E-03
1099	566068.4	4222476	0.01367351	7.25E-03	1.80E-03	1.39E-03
1100	566068.4	4222458	0.0136737	7.25E-03	1.80E-03	1.39E-03
1101	566068.1	4222448	0.01367241	7.25E-03	1.80E-03	1.39E-03
1102	566067.9	4222439	0.01366396	7.24E-03	1.79E-03	1.39E-03
1103	565551.8	4222441	0.1454766	7.71E-02	1.91E-02	1.48E-02
1104	565561.6	4222440	0.1343502	7.12E-02	1.76E-02	1.37E-02
1105	565561.2	4222431	0.1423702	7.55E-02	1.87E-02	1.45E-02
1106	565560.7	4222421	0.150275	7.97E-02	1.97E-02	1.53E-02
1107	565571.4	4222440	0.124425	6.60E-02	1.63E-02	1.26E-02
1108	565571	4222430	0.131136	6.95E-02	1.72E-02	1.33E-02
1109	565570.6	4222421	0.1375896	7.29E-02	1.81E-02	1.40E-02
1110	565581.3	4222439	0.1155398	6.13E-02	1.52E-02	1.17E-02
1111	565580.8	4222430	0.1211642	6.42E-02	1.59E-02	1.23E-02
1112	565580.4	4222420	0.1264826	6.71E-02	1.66E-02	1.29E-02
1113	565591.1	4222439	0.1075452	5.70E-02	1.41E-02	1.09E-02
1114	565590.6	4222429	0.1122659	5.95E-02	1.47E-02	1.14E-02
1115	565590.2	4222420	0.1166745	6.19E-02	1.53E-02	1.19E-02
1116	565610.7	4222438	0.09375078	4.97E-02	1.23E-02	9.53E-03
1117	565610.3	4222429	0.09711109	5.15E-02	1.28E-02	9.87E-03
1118	565609.9	4222419	0.1001732	5.31E-02	1.32E-02	1.02E-02
1119	565620.6	4222438	0.08777405	4.65E-02	1.15E-02	8.92E-03
1120	565620.1	4222428	0.09061662	4.80E-02	1.19E-02	9.21E-03
1121	565619.7	4222419	0.09318388	4.94E-02	1.22E-02	9.47E-03
1122	565630.4	4222437	0.08221843	4.36E-02	1.08E-02	8.36E-03
1123	565630	4222428	0.08460931	4.49E-02	1.11E-02	8.60E-03
1124	565629.5	4222418	0.08674049	4.60E-02	1.14E-02	8.82E-03
1125	565640.2	4222437	0.07722746	4.09E-02	1.01E-02	7.85E-03

1126	565639.8	4222427	0.0792577	4.20E-02	1.04E-02	8.05E-03
1127	565639.4	4222418	0.08103646	4.30E-02	1.06E-02	8.24E-03
1128	565650.1	4222436	0.07262138	3.85E-02	9.54E-03	7.38E-03
1129	565649.6	4222427	0.07434043	3.94E-02	9.76E-03	7.55E-03
1130	565649.2	4222417	0.07583714	4.02E-02	9.96E-03	7.71E-03
1131	565659.9	4222436	0.06836673	3.62E-02	8.98E-03	6.95E-03
1132	565659.4	4222426	0.06982004	3.70E-02	9.17E-03	7.10E-03
1133	565659	4222417	0.07108749	3.77E-02	9.34E-03	7.22E-03
1134	565669.7	4222435	0.06445031	3.42E-02	8.46E-03	6.55E-03
1135	565669.3	4222426	0.06567771	3.48E-02	8.63E-03	6.67E-03
1136	565668.8	4222416	0.06675374	3.54E-02	8.77E-03	6.78E-03
1137	565679.1	4222425	0.06187056	3.28E-02	8.13E-03	6.29E-03
1138	565678.7	4222416	0.06278075	3.33E-02	8.24E-03	6.38E-03
1139	565689.4	4222435	0.05748738	3.05E-02	7.55E-03	5.84E-03
1140	565688.5	4222415	0.0591355	3.14E-02	7.77E-03	6.01E-03
1141	565699.2	4222434	0.05439221	2.88E-02	7.14E-03	5.53E-03
1142	565698.8	4222425	0.05513771	2.92E-02	7.24E-03	5.60E-03
1143	565709	4222434	0.05155074	2.73E-02	6.77E-03	5.24E-03
1144	565708.6	4222424	0.05218126	2.77E-02	6.85E-03	5.30E-03
1145	565708.2	4222415	0.0527204	2.80E-02	6.92E-03	5.36E-03
1146	565718.9	4222433	0.04893429	2.59E-02	6.43E-03	4.97E-03
1147	565718.4	4222424	0.04947324	2.62E-02	6.50E-03	5.03E-03
1148	565718	4222414	0.0499221	2.65E-02	6.56E-03	5.07E-03
1149	565728.7	4222433	0.0465049	2.47E-02	6.11E-03	4.73E-03
1150	565728.2	4222423	0.04696231	2.49E-02	6.17E-03	4.77E-03
1151	565727.8	4222414	0.04733754	2.51E-02	6.22E-03	4.81E-03
1152	565738.5	4222432	0.04424801	2.35E-02	5.81E-03	4.50E-03
1153	565738.1	4222423	0.04463298	2.37E-02	5.86E-03	4.54E-03
1154	565737.6	4222413	0.04494194	2.38E-02	5.90E-03	4.57E-03
1155	565748.3	4222432	0.04214517	2.23E-02	5.53E-03	4.28E-03
1156	565747.9	4222422	0.04246758	2.25E-02	5.58E-03	4.32E-03
1157	565747.5	4222413	0.04271347	2.26E-02	5.61E-03	4.34E-03
1158	565758.2	4222431	0.04018599	2.13E-02	5.28E-03	4.08E-03
1159	565757.7	4222422	0.04045412	2.14E-02	5.31E-03	4.11E-03
1160	565757.3	4222412	0.04064735	2.16E-02	5.34E-03	4.13E-03
1161	565768	4222431	0.03834588	2.03E-02	5.04E-03	3.90E-03
1162	565767.6	4222421	0.03856933	2.04E-02	5.07E-03	3.92E-03
1163	565767.1	4222412	0.03872421	2.05E-02	5.09E-03	3.94E-03
1164	565777.8	4222431	0.03661193	1.94E-02	4.81E-03	3.72E-03
1165	565777.4	4222421	0.03679862	1.95E-02	4.83E-03	3.74E-03
1166	565777	4222411	0.03692332	1.96E-02	4.85E-03	3.75E-03
1167	565787.2	4222421	0.03514934	1.86E-02	4.62E-03	3.57E-03
1168	565786.8	4222411	0.03524641	1.87E-02	4.63E-03	3.58E-03
1169	565796.6	4222411	0.03458532	1.83E-02	4.54E-03	3.51E-03
1170	565807.3	4222429	0.03295503	1.75E-02	4.33E-03	3.35E-03
1171	565827.3	4222428	0.03026359	1.60E-02	3.97E-03	3.08E-03
1172	565826.9	4222419	0.03033341	1.61E-02	3.98E-03	3.08E-03

1173	565826.4	4222409	0.03035375	1.61E-02	3.99E-03	3.08E-03
1174	565847.3	4222427	0.0277944	1.47E-02	3.65E-03	2.82E-03
1175	565846.8	4222418	0.02786341	1.48E-02	3.66E-03	2.83E-03
1176	565846.4	4222408	0.02789303	1.48E-02	3.66E-03	2.83E-03
1177	565867.2	4222427	0.02569511	1.36E-02	3.37E-03	2.61E-03
1178	565866.8	4222417	0.02573341	1.36E-02	3.38E-03	2.62E-03
1179	565866.4	4222407	0.02574022	1.36E-02	3.38E-03	2.62E-03
1180	565887.2	4222426	0.02386617	1.27E-02	3.13E-03	2.43E-03
1181	565886.8	4222416	0.02387103	1.27E-02	3.13E-03	2.43E-03
1182	565886.4	4222406	0.02385019	1.26E-02	3.13E-03	2.42E-03
1183	565907.2	4222425	0.02216229	1.18E-02	2.91E-03	2.25E-03
1184	565906.8	4222415	0.02218787	1.18E-02	2.91E-03	2.25E-03
1185	565906.3	4222406	0.02218975	1.18E-02	2.91E-03	2.26E-03
1186	565927.2	4222424	0.02069166	1.10E-02	2.72E-03	2.10E-03
1187	565926.8	4222414	0.02071673	1.10E-02	2.72E-03	2.11E-03
1188	565926.3	4222405	0.02072138	1.10E-02	2.72E-03	2.11E-03
1189	565947.6	4222432	0.01935874	1.03E-02	2.54E-03	1.97E-03
1190	565947.2	4222423	0.01939244	1.03E-02	2.55E-03	1.97E-03
1191	565946.7	4222413	0.01940581	1.03E-02	2.55E-03	1.97E-03
1192	565946.3	4222404	0.01940296	1.03E-02	2.55E-03	1.97E-03
1193	565967.6	4222432	0.01819274	9.65E-03	2.39E-03	1.85E-03
1194	565967.1	4222422	0.01820705	9.65E-03	2.39E-03	1.85E-03
1195	565966.7	4222412	0.01819309	9.65E-03	2.39E-03	1.85E-03
1196	565966.3	4222403	0.01816622	9.63E-03	2.39E-03	1.85E-03
1197	565987.6	4222431	0.01713355	9.08E-03	2.25E-03	1.74E-03
1198	565987.1	4222421	0.01713589	9.09E-03	2.25E-03	1.74E-03
1199	565986.7	4222412	0.01711198	9.07E-03	2.25E-03	1.74E-03
1200	565986.3	4222402	0.01707742	9.05E-03	2.24E-03	1.74E-03
1201	566007.5	4222430	0.01616947	8.57E-03	2.12E-03	1.64E-03
1202	566007.1	4222420	0.01616202	8.57E-03	2.12E-03	1.64E-03
1203	566006.7	4222411	0.01613488	8.55E-03	2.12E-03	1.64E-03
1204	566006.2	4222401	0.01609932	8.54E-03	2.11E-03	1.64E-03
1205	566027.5	4222429	0.01529046	8.11E-03	2.01E-03	1.55E-03
1206	566027.1	4222419	0.01526149	8.09E-03	2.00E-03	1.55E-03
1207	566026.7	4222410	0.0152159	8.07E-03	2.00E-03	1.55E-03
1208	566026.2	4222400	0.01516146	8.04E-03	1.99E-03	1.54E-03
1209	566047.5	4222428	0.01444502	7.66E-03	1.90E-03	1.47E-03
1210	566047.1	4222418	0.01441734	7.64E-03	1.89E-03	1.47E-03
1211	566046.6	4222409	0.01437794	7.62E-03	1.89E-03	1.46E-03
1212	566046.2	4222399	0.01432974	7.60E-03	1.88E-03	1.46E-03
1213	566067.5	4222427	0.01364874	7.24E-03	1.79E-03	1.39E-03
1214	566067	4222417	0.01363032	7.23E-03	1.79E-03	1.39E-03
1215	565560.4	4222408	0.1596299	8.46E-02	2.10E-02	1.62E-02
1216	565570.3	4222408	0.1449477	7.69E-02	1.90E-02	1.47E-02
1217	565580.1	4222408	0.1323173	7.02E-02	1.74E-02	1.34E-02
1218	565589.9	4222408	0.1213466	6.43E-02	1.59E-02	1.23E-02
1219	565619.5	4222407	0.09560549	5.07E-02	1.26E-02	9.72E-03

1220	565629.3	4222407	0.08866223	4.70E-02	1.16E-02	9.01E-03
1221	565639.1	4222407	0.08258251	4.38E-02	1.08E-02	8.39E-03
1222	565649	4222406	0.07708098	4.09E-02	1.01E-02	7.83E-03
1223	565658.8	4222406	0.07209445	3.82E-02	9.47E-03	7.33E-03
1224	565668.6	4222406	0.06757446	3.58E-02	8.87E-03	6.87E-03
1225	565678.5	4222406	0.06344278	3.36E-02	8.33E-03	6.45E-03
1226	565688.3	4222405	0.05965945	3.16E-02	7.84E-03	6.06E-03
1227	565698.1	4222405	0.05619609	2.98E-02	7.38E-03	5.71E-03
1228	565717.8	4222405	0.05017288	2.66E-02	6.59E-03	5.10E-03
1229	565727.7	4222405	0.04752854	2.52E-02	6.24E-03	4.83E-03
1230	565737.6	4222400	0.04508621	2.39E-02	5.92E-03	4.58E-03
1231	565747.4	4222400	0.04279658	2.27E-02	5.62E-03	4.35E-03
1232	565757.2	4222400	0.04068024	2.16E-02	5.34E-03	4.13E-03
1233	565767.1	4222400	0.03872042	2.05E-02	5.09E-03	3.94E-03
1234	565776.9	4222400	0.03690196	1.96E-02	4.85E-03	3.75E-03
1235	565786.7	4222400	0.03521089	1.87E-02	4.62E-03	3.58E-03
1236	565796.6	4222400	0.03452136	1.83E-02	4.53E-03	3.51E-03
1237	565806.4	4222400	0.03303255	1.75E-02	4.34E-03	3.36E-03
1238	565560.8	4222399	0.1648777	8.74E-02	2.17E-02	1.68E-02
1239	565570.6	4222400	0.1485697	7.88E-02	1.95E-02	1.51E-02
1240	565581.1	4222394	0.1361999	7.22E-02	1.79E-02	1.38E-02
1241	565590.9	4222394	0.1240973	6.58E-02	1.63E-02	1.26E-02
1242	565620.3	4222397	0.09647194	5.11E-02	1.27E-02	9.80E-03
1243	565630.1	4222398	0.08918212	4.73E-02	1.17E-02	9.06E-03
1244	565925.2	4222433	0.02083158	1.10E-02	2.74E-03	2.12E-03
1245	565561.7	4222389	0.1681414	8.91E-02	2.21E-02	1.71E-02
1246	565571.5	4222389	0.1512349	8.02E-02	1.99E-02	1.54E-02
1247	565581.7	4222381	0.1383204	7.33E-02	1.82E-02	1.41E-02
1248	565591.5	4222381	0.1257644	6.67E-02	1.65E-02	1.28E-02
1249	565621	4222383	0.097184	5.15E-02	1.28E-02	9.88E-03
1250	565630.9	4222383	0.08975283	4.76E-02	1.18E-02	9.12E-03
1251	565640.4	4222392	0.08308983	4.41E-02	1.09E-02	8.44E-03
1252	565650.2	4222392	0.07735788	4.10E-02	1.02E-02	7.86E-03
1253	565659.7	4222397	0.0721867	3.83E-02	9.48E-03	7.34E-03
1254	565660.3	4222384	0.07219668	3.83E-02	9.48E-03	7.34E-03
1255	565669.9	4222393	0.06755768	3.58E-02	8.87E-03	6.87E-03
1256	565679.7	4222393	0.06333584	3.36E-02	8.32E-03	6.44E-03
1257	565689.5	4222394	0.05948881	3.15E-02	7.81E-03	6.05E-03
1258	565699.3	4222394	0.05598563	2.97E-02	7.35E-03	5.69E-03
1259	565709.2	4222394	0.05280865	2.80E-02	6.94E-03	5.37E-03
1260	565728.8	4222395	0.04726802	2.51E-02	6.21E-03	4.80E-03
1261	565739	4222387	0.04464588	2.37E-02	5.86E-03	4.54E-03
1262	565748.8	4222388	0.04237132	2.25E-02	5.56E-03	4.31E-03
1263	565758.7	4222388	0.04027192	2.14E-02	5.29E-03	4.09E-03
1264	565768.5	4222388	0.03833122	2.03E-02	5.03E-03	3.90E-03
1265	565778.3	4222389	0.03653154	1.94E-02	4.80E-03	3.71E-03
1266	565788.2	4222389	0.03486281	1.85E-02	4.58E-03	3.54E-03

1267	565798	4222390	0.03416996	1.81E-02	4.49E-03	3.47E-03
1268	565807.8	4222390	0.03270194	1.73E-02	4.29E-03	3.32E-03
1269	565847.8	4222392	0.02761198	1.46E-02	3.63E-03	2.81E-03
1270	565867.8	4222392	0.02549562	1.35E-02	3.35E-03	2.59E-03
1271	565887.7	4222393	0.02362173	1.25E-02	3.10E-03	2.40E-03
1272	565907.7	4222394	0.02200957	1.17E-02	2.89E-03	2.24E-03
1273	565927.7	4222395	0.02057409	1.09E-02	2.70E-03	2.09E-03
1274	565562.1	4222378	0.1711922	9.08E-02	2.25E-02	1.74E-02
1275	565562	4222368	0.1733682	9.19E-02	2.28E-02	1.76E-02
1276	565562	4222358	0.1742846	9.24E-02	2.29E-02	1.77E-02
1277	565562	4222348	0.1739309	9.22E-02	2.28E-02	1.77E-02
1278	565561.9	4222338	0.1723081	9.14E-02	2.26E-02	1.75E-02
1279	565561.9	4222328	0.1694261	8.98E-02	2.23E-02	1.72E-02
1280	565561.8	4222318	0.1653082	8.76E-02	2.17E-02	1.68E-02
1281	565571.9	4222378	0.1536117	8.14E-02	2.02E-02	1.56E-02
1282	565571.9	4222368	0.1551629	8.23E-02	2.04E-02	1.58E-02
1283	565571.8	4222358	0.1556503	8.25E-02	2.04E-02	1.58E-02
1284	565571.8	4222348	0.1550571	8.22E-02	2.04E-02	1.58E-02
1285	565571.8	4222338	0.1533785	8.13E-02	2.01E-02	1.56E-02
1286	565571.7	4222328	0.1506423	7.99E-02	1.98E-02	1.53E-02
1287	565571.7	4222318	0.1468253	7.78E-02	1.93E-02	1.49E-02
1288	565571.6	4222308	0.1419841	7.53E-02	1.86E-02	1.44E-02
1289	565571.6	4222299	0.1361621	7.22E-02	1.79E-02	1.38E-02
1290	565581.7	4222368	0.1398715	7.42E-02	1.84E-02	1.42E-02
1291	565581.7	4222358	0.1400338	7.42E-02	1.84E-02	1.42E-02
1292	565581.6	4222348	0.139274	7.38E-02	1.83E-02	1.42E-02
1293	565581.6	4222338	0.1376027	7.30E-02	1.81E-02	1.40E-02
1294	565581.6	4222328	0.1350044	7.16E-02	1.77E-02	1.37E-02
1295	565581.5	4222318	0.1315132	6.97E-02	1.73E-02	1.34E-02
1296	565581.5	4222308	0.1271785	6.74E-02	1.67E-02	1.29E-02
1297	565581.4	4222298	0.1220562	6.47E-02	1.60E-02	1.24E-02
1298	565591.6	4222368	0.1268463	6.73E-02	1.67E-02	1.29E-02
1299	565591.5	4222358	0.1267673	6.72E-02	1.66E-02	1.29E-02
1300	565591.5	4222348	0.1259125	6.68E-02	1.65E-02	1.28E-02
1301	565591.4	4222338	0.1242561	6.59E-02	1.63E-02	1.26E-02
1302	565591.4	4222328	0.1218563	6.46E-02	1.60E-02	1.24E-02
1303	565591.4	4222318	0.1187179	6.29E-02	1.56E-02	1.21E-02
1304	565591.3	4222308	0.1148946	6.09E-02	1.51E-02	1.17E-02
1305	565591.3	4222298	0.1104036	5.85E-02	1.45E-02	1.12E-02
1306	565601.2	4222328	0.1106606	5.87E-02	1.45E-02	1.12E-02
1307	565601.2	4222318	0.1078638	5.72E-02	1.42E-02	1.10E-02
1308	565601.2	4222308	0.1044845	5.54E-02	1.37E-02	1.06E-02
1309	565601.1	4222298	0.1005422	5.33E-02	1.32E-02	1.02E-02
1310	565621.1	4222368	0.09735364	5.16E-02	1.28E-02	9.89E-03
1311	565621	4222358	0.0968956	5.14E-02	1.27E-02	9.85E-03
1312	565621	4222338	0.09450217	5.01E-02	1.24E-02	9.60E-03
1313	565620.9	4222328	0.09267744	4.91E-02	1.22E-02	9.42E-03

1314	565620.9	4222318	0.09041516	4.79E-02	1.19E-02	9.19E-03
1315	565620.8	4222308	0.08770411	4.65E-02	1.15E-02	8.91E-03
1316	565620.8	4222298	0.08463679	4.49E-02	1.11E-02	8.60E-03
1317	565630.9	4222367	0.08982728	4.76E-02	1.18E-02	9.13E-03
1318	565630.9	4222358	0.08932558	4.74E-02	1.17E-02	9.08E-03
1319	565630.8	4222338	0.08704147	4.61E-02	1.14E-02	8.85E-03
1320	565630.8	4222328	0.08529915	4.52E-02	1.12E-02	8.67E-03
1321	565630.7	4222318	0.08320172	4.41E-02	1.09E-02	8.46E-03
1322	565630.7	4222308	0.08076782	4.28E-02	1.06E-02	8.21E-03
1323	565630.6	4222298	0.07805249	4.14E-02	1.03E-02	7.93E-03
1324	565640.8	4222377	0.08327813	4.42E-02	1.09E-02	8.46E-03
1325	565640.8	4222367	0.08316872	4.41E-02	1.09E-02	8.45E-03
1326	565640.6	4222338	0.08047682	4.27E-02	1.06E-02	8.18E-03
1327	565640.6	4222328	0.07889182	4.18E-02	1.04E-02	8.02E-03
1328	565640.5	4222318	0.07699528	4.08E-02	1.01E-02	7.82E-03
1329	565640.5	4222308	0.07482169	3.97E-02	9.83E-03	7.60E-03
1330	565640.5	4222298	0.07241228	3.84E-02	9.51E-03	7.36E-03
1331	565650.6	4222377	0.07739277	4.10E-02	1.02E-02	7.87E-03
1332	565650.6	4222367	0.07720398	4.09E-02	1.01E-02	7.85E-03
1333	565650.4	4222328	0.0731871	3.88E-02	9.61E-03	7.44E-03
1334	565650.4	4222318	0.07148933	3.79E-02	9.39E-03	7.27E-03
1335	565650.3	4222308	0.06956358	3.69E-02	9.14E-03	7.07E-03
1336	565650.3	4222298	0.06741875	3.57E-02	8.85E-03	6.85E-03
1337	565660.4	4222367	0.07185616	3.81E-02	9.44E-03	7.30E-03
1338	565660.3	4222338	0.06939819	3.68E-02	9.11E-03	7.05E-03
1339	565660.3	4222328	0.06810298	3.61E-02	8.94E-03	6.92E-03
1340	565660.2	4222318	0.06659368	3.53E-02	8.75E-03	6.77E-03
1341	565660.2	4222308	0.06488609	3.44E-02	8.52E-03	6.59E-03
1342	565660.1	4222298	0.06297468	3.34E-02	8.27E-03	6.40E-03
1343	565670.3	4222377	0.06735361	3.57E-02	8.85E-03	6.84E-03
1344	565670.3	4222367	0.067055	3.56E-02	8.81E-03	6.81E-03
1345	565670.2	4222357	0.06651384	3.53E-02	8.74E-03	6.76E-03
1346	565670.2	4222348	0.06573314	3.49E-02	8.63E-03	6.68E-03
1347	565670.1	4222338	0.06472971	3.43E-02	8.50E-03	6.58E-03
1348	565670.1	4222328	0.06356675	3.37E-02	8.35E-03	6.46E-03
1349	565670.1	4222318	0.06222017	3.30E-02	8.17E-03	6.32E-03
1350	565670	4222308	0.06070441	3.22E-02	7.97E-03	6.17E-03
1351	565670	4222298	0.05899561	3.13E-02	7.75E-03	6.00E-03
1352	565680.2	4222377	0.06307285	3.34E-02	8.28E-03	6.41E-03
1353	565680.1	4222367	0.06276735	3.33E-02	8.24E-03	6.38E-03
1354	565680.1	4222357	0.06223762	3.30E-02	8.17E-03	6.32E-03
1355	565680	4222348	0.06150431	3.26E-02	8.08E-03	6.25E-03
1356	565680	4222338	0.06057848	3.21E-02	7.96E-03	6.16E-03
1357	565679.9	4222328	0.05951399	3.16E-02	7.82E-03	6.05E-03
1358	565679.9	4222318	0.05828954	3.09E-02	7.66E-03	5.92E-03
1359	565679.9	4222308	0.056919	3.02E-02	7.48E-03	5.78E-03
1360	565679.8	4222298	0.0553843	2.94E-02	7.27E-03	5.63E-03

1361	565690	4222377	0.05920526	3.14E-02	7.78E-03	6.02E-03
1362	565689.9	4222367	0.058904	3.12E-02	7.74E-03	5.99E-03
1363	565689.9	4222357	0.0583967	3.10E-02	7.67E-03	5.93E-03
1364	565689.9	4222347	0.05770952	3.06E-02	7.58E-03	5.86E-03
1365	565689.8	4222338	0.05685673	3.01E-02	7.47E-03	5.78E-03
1366	565689.8	4222328	0.05586815	2.96E-02	7.34E-03	5.68E-03
1367	565689.7	4222318	0.05474346	2.90E-02	7.19E-03	5.56E-03
1368	565689.7	4222308	0.05348833	2.84E-02	7.02E-03	5.44E-03
1369	565689.7	4222298	0.05210831	2.76E-02	6.84E-03	5.30E-03
1370	565699.8	4222377	0.05569068	2.95E-02	7.31E-03	5.66E-03
1371	565699.8	4222367	0.05540076	2.94E-02	7.28E-03	5.63E-03
1372	565699.7	4222357	0.05491737	2.91E-02	7.21E-03	5.58E-03
1373	565699.7	4222347	0.05427546	2.88E-02	7.13E-03	5.52E-03
1374	565699.7	4222338	0.05348919	2.84E-02	7.02E-03	5.44E-03
1375	565699.6	4222328	0.05257279	2.79E-02	6.90E-03	5.34E-03
1376	565699.6	4222318	0.05153722	2.73E-02	6.77E-03	5.24E-03
1377	565699.5	4222308	0.05038765	2.67E-02	6.62E-03	5.12E-03
1378	565699.5	4222298	0.04913623	2.61E-02	6.45E-03	4.99E-03
1379	565709.7	4222377	0.05248083	2.78E-02	6.89E-03	5.33E-03
1380	565709.6	4222367	0.05219153	2.77E-02	6.85E-03	5.30E-03
1381	565709.6	4222357	0.05173014	2.74E-02	6.79E-03	5.26E-03
1382	565709.5	4222347	0.05113102	2.71E-02	6.72E-03	5.20E-03
1383	565709.5	4222337	0.05040701	2.67E-02	6.62E-03	5.12E-03
1384	565709.5	4222328	0.04956606	2.63E-02	6.51E-03	5.04E-03
1385	565709.4	4222318	0.04861521	2.58E-02	6.38E-03	4.94E-03
1386	565709.4	4222308	0.04756608	2.52E-02	6.25E-03	4.83E-03
1387	565719.5	4222377	0.04954619	2.63E-02	6.51E-03	5.04E-03
1388	565719.5	4222367	0.04924893	2.61E-02	6.47E-03	5.01E-03
1389	565719.4	4222357	0.04881132	2.59E-02	6.41E-03	4.96E-03
1390	565719.4	4222347	0.04825268	2.56E-02	6.34E-03	4.90E-03
1391	565719.3	4222337	0.04758615	2.52E-02	6.25E-03	4.84E-03
1392	565719.3	4222328	0.04681281	2.48E-02	6.15E-03	4.76E-03
1393	565719.3	4222318	0.0459455	2.44E-02	6.03E-03	4.67E-03
1394	565729.3	4222367	0.04655813	2.47E-02	6.11E-03	4.73E-03
1395	565729.3	4222357	0.04614323	2.45E-02	6.06E-03	4.69E-03
1396	565729.2	4222347	0.04562525	2.42E-02	5.99E-03	4.64E-03
1397	565729.2	4222337	0.04500738	2.39E-02	5.91E-03	4.57E-03
1398	565729.1	4222328	0.04429771	2.35E-02	5.82E-03	4.50E-03
1399	565729	4222298	0.04169909	2.21E-02	5.48E-03	4.24E-03
1400	565739.1	4222357	0.04370071	2.32E-02	5.74E-03	4.44E-03
1401	565739.1	4222347	0.04321633	2.29E-02	5.68E-03	4.39E-03
1402	565739	4222337	0.04264482	2.26E-02	5.60E-03	4.33E-03
1403	565738.9	4222308	0.04047351	2.15E-02	5.32E-03	4.11E-03
1404	565738.9	4222298	0.03961745	2.10E-02	5.20E-03	4.03E-03
1405	565749	4222377	0.04210765	2.23E-02	5.53E-03	4.28E-03
1406	565748.9	4222347	0.04100424	2.17E-02	5.39E-03	4.17E-03
1407	565748.8	4222318	0.03920991	2.08E-02	5.15E-03	3.98E-03

1408	565748.7	4222308	0.03848279	2.04E-02	5.05E-03	3.91E-03
1409	565748.7	4222298	0.03769971	2.00E-02	4.95E-03	3.83E-03
1410	565758.9	4222377	0.04000823	2.12E-02	5.25E-03	4.07E-03
1411	565758.8	4222367	0.03973641	2.11E-02	5.22E-03	4.04E-03
1412	565758.7	4222327	0.03792613	2.01E-02	4.98E-03	3.85E-03
1413	565758.6	4222318	0.03731291	1.98E-02	4.90E-03	3.79E-03
1414	565758.6	4222308	0.03664553	1.94E-02	4.81E-03	3.72E-03
1415	565758.5	4222298	0.03592927	1.90E-02	4.72E-03	3.65E-03
1416	565768.7	4222377	0.03806696	2.02E-02	5.00E-03	3.87E-03
1417	565768.7	4222367	0.0378077	2.00E-02	4.97E-03	3.84E-03
1418	565768.5	4222327	0.036129	1.92E-02	4.74E-03	3.67E-03
1419	565768.5	4222317	0.03556829	1.89E-02	4.67E-03	3.61E-03
1420	565768.4	4222308	0.0349601	1.85E-02	4.59E-03	3.55E-03
1421	565768.4	4222298	0.03430073	1.82E-02	4.50E-03	3.49E-03
1422	565778.5	4222377	0.03626975	1.92E-02	4.76E-03	3.69E-03
1423	565778.5	4222367	0.03602389	1.91E-02	4.73E-03	3.66E-03
1424	565778.5	4222357	0.03571587	1.89E-02	4.69E-03	3.63E-03
1425	565778.4	4222337	0.03492893	1.85E-02	4.59E-03	3.55E-03
1426	565778.3	4222327	0.03446924	1.83E-02	4.53E-03	3.50E-03
1427	565778.3	4222317	0.03396221	1.80E-02	4.46E-03	3.45E-03
1428	565778.2	4222308	0.03340827	1.77E-02	4.39E-03	3.40E-03
1429	565778.2	4222298	0.03280108	1.74E-02	4.31E-03	3.33E-03
1430	565788.4	4222377	0.0346035	1.83E-02	4.54E-03	3.52E-03
1431	565788.3	4222367	0.03436864	1.82E-02	4.51E-03	3.49E-03
1432	565788.3	4222357	0.03407929	1.81E-02	4.48E-03	3.46E-03
1433	565788.3	4222347	0.03373732	1.79E-02	4.43E-03	3.43E-03
1434	565788.2	4222337	0.03334614	1.77E-02	4.38E-03	3.39E-03
1435	565788.2	4222327	0.0329298	1.75E-02	4.32E-03	3.35E-03
1436	565788.1	4222317	0.03246858	1.72E-02	4.26E-03	3.30E-03
1437	565788.1	4222308	0.03196416	1.69E-02	4.20E-03	3.25E-03
1438	565788	4222298	0.03140444	1.67E-02	4.12E-03	3.19E-03
1439	565798.2	4222377	0.03387794	1.80E-02	4.45E-03	3.44E-03
1440	565798.2	4222367	0.03362565	1.78E-02	4.42E-03	3.42E-03
1441	565798.1	4222357	0.03332349	1.77E-02	4.38E-03	3.39E-03
1442	565798.1	4222347	0.0329733	1.75E-02	4.33E-03	3.35E-03
1443	565798	4222337	0.03188866	1.69E-02	4.19E-03	3.24E-03
1444	565798	4222327	0.0315017	1.67E-02	4.14E-03	3.20E-03
1445	565798	4222317	0.03107525	1.65E-02	4.08E-03	3.16E-03
1446	565797.9	4222307	0.03060927	1.62E-02	4.02E-03	3.11E-03
1447	565797.9	4222298	0.03009215	1.60E-02	3.95E-03	3.06E-03
1448	565808.1	4222377	0.03241204	1.72E-02	4.26E-03	3.29E-03
1449	565808	4222367	0.03217178	1.71E-02	4.23E-03	3.27E-03
1450	565808	4222357	0.03189434	1.69E-02	4.19E-03	3.24E-03
1451	565807.9	4222347	0.03156988	1.67E-02	4.15E-03	3.21E-03
1452	565807.9	4222337	0.03120228	1.65E-02	4.10E-03	3.17E-03
1453	565807.8	4222327	0.03017577	1.60E-02	3.96E-03	3.07E-03
1454	565807.8	4222317	0.02977235	1.58E-02	3.91E-03	3.03E-03

1455	565807.8	4222307	0.02933423	1.56E-02	3.85E-03	2.98E-03
1456	565807.7	4222298	0.02885405	1.53E-02	3.79E-03	2.93E-03
1457	565828.1	4222377	0.02971608	1.58E-02	3.90E-03	3.02E-03
1458	565828	4222367	0.02950363	1.56E-02	3.87E-03	3.00E-03
1459	565828	4222357	0.02926955	1.55E-02	3.84E-03	2.97E-03
1460	565827.9	4222347	0.02899458	1.54E-02	3.81E-03	2.95E-03
1461	565827.9	4222337	0.02867922	1.52E-02	3.77E-03	2.91E-03
1462	565827.8	4222327	0.0283223	1.50E-02	3.72E-03	2.88E-03
1463	565827.8	4222317	0.02793324	1.48E-02	3.67E-03	2.84E-03
1464	565848	4222357	0.0269819	1.43E-02	3.54E-03	2.74E-03
1465	565847.9	4222347	0.02672961	1.42E-02	3.51E-03	2.72E-03
1466	565847.9	4222337	0.02644843	1.40E-02	3.47E-03	2.69E-03
1467	565847.8	4222307	0.0254333	1.35E-02	3.34E-03	2.58E-03
1468	565847.7	4222297	0.02504556	1.33E-02	3.29E-03	2.55E-03
1469	565868.1	4222376	0.0252908	1.34E-02	3.32E-03	2.57E-03
1470	565868	4222366	0.02514481	1.33E-02	3.30E-03	2.56E-03
1471	565867.8	4222327	0.02420299	1.28E-02	3.18E-03	2.46E-03
1472	565867.8	4222317	0.0239173	1.27E-02	3.14E-03	2.43E-03
1473	565867.8	4222307	0.02360887	1.25E-02	3.10E-03	2.40E-03
1474	565867.7	4222297	0.02327132	1.23E-02	3.06E-03	2.36E-03
1475	565888.1	4222376	0.0234295	1.24E-02	3.08E-03	2.38E-03
1476	565888	4222366	0.02330045	1.24E-02	3.06E-03	2.37E-03
1477	565888	4222357	0.02312581	1.23E-02	3.04E-03	2.35E-03
1478	565887.8	4222327	0.02249209	1.19E-02	2.95E-03	2.29E-03
1479	565887.8	4222317	0.02225169	1.18E-02	2.92E-03	2.26E-03
1480	565887.8	4222307	0.02198905	1.17E-02	2.89E-03	2.23E-03
1481	565887.7	4222297	0.02169356	1.15E-02	2.85E-03	2.20E-03
1482	565907.9	4222385	0.02190567	1.16E-02	2.88E-03	2.23E-03
1483	565908.1	4222376	0.0217856	1.16E-02	2.86E-03	2.21E-03
1484	565908	4222366	0.02164958	1.15E-02	2.84E-03	2.20E-03
1485	565908	4222356	0.02151757	1.14E-02	2.83E-03	2.19E-03
1486	565907.9	4222347	0.02136249	1.13E-02	2.81E-03	2.17E-03
1487	565907.9	4222337	0.02118782	1.12E-02	2.78E-03	2.15E-03
1488	565907.8	4222327	0.02097859	1.11E-02	2.76E-03	2.13E-03
1489	565907.7	4222297	0.02024867	1.07E-02	2.66E-03	2.06E-03
1490	565927.9	4222385	0.0204685	1.09E-02	2.69E-03	2.08E-03
1491	565928.1	4222376	0.02034771	1.08E-02	2.67E-03	2.07E-03
1492	565928	4222366	0.02021871	1.07E-02	2.66E-03	2.05E-03
1493	565928	4222356	0.02009173	1.07E-02	2.64E-03	2.04E-03
1494	565927.9	4222346	0.01994797	1.06E-02	2.62E-03	2.03E-03
1495	565927.9	4222337	0.01978702	1.05E-02	2.60E-03	2.01E-03
1496	565927.8	4222327	0.01959694	1.04E-02	2.57E-03	1.99E-03
1497	565927.8	4222317	0.01939188	1.03E-02	2.55E-03	1.97E-03
1498	565927.8	4222307	0.01917264	1.02E-02	2.52E-03	1.95E-03
1499	565947.9	4222386	0.01916971	1.02E-02	2.52E-03	1.95E-03
1500	565948.1	4222376	0.01905384	1.01E-02	2.50E-03	1.94E-03
1501	565948	4222366	0.01893872	1.00E-02	2.49E-03	1.92E-03

1502	565948	4222356	0.01880801	9.97E-03	2.47E-03	1.91E-03
1503	565947.9	4222346	0.01866376	9.90E-03	2.45E-03	1.90E-03
1504	565947.9	4222336	0.01850609	9.81E-03	2.43E-03	1.88E-03
1505	565947.8	4222327	0.0183357	9.72E-03	2.41E-03	1.86E-03
1506	565947.8	4222317	0.01815264	9.62E-03	2.38E-03	1.84E-03
1507	565947.8	4222307	0.01795761	9.52E-03	2.36E-03	1.82E-03
1508	565947.7	4222297	0.01775153	9.41E-03	2.33E-03	1.80E-03
1509	565967.9	4222383	0.01791111	9.50E-03	2.35E-03	1.82E-03
1510	565968	4222366	0.0177309	9.40E-03	2.33E-03	1.80E-03
1511	565968	4222356	0.01761282	9.34E-03	2.31E-03	1.79E-03
1512	565967.9	4222346	0.01748281	9.27E-03	2.30E-03	1.78E-03
1513	565967.9	4222336	0.01734138	9.19E-03	2.28E-03	1.76E-03
1514	565967.8	4222327	0.01718853	9.11E-03	2.26E-03	1.75E-03
1515	565967.8	4222317	0.01702586	9.03E-03	2.24E-03	1.73E-03
1516	565967.8	4222307	0.01685135	8.93E-03	2.21E-03	1.71E-03
1517	565967.7	4222297	0.01666663	8.84E-03	2.19E-03	1.69E-03
1518	565987.9	4222383	0.0168499	8.93E-03	2.21E-03	1.71E-03
1519	565988	4222366	0.01668317	8.85E-03	2.19E-03	1.70E-03
1520	565988	4222356	0.01657615	8.79E-03	2.18E-03	1.68E-03
1521	565987.9	4222346	0.01645861	8.73E-03	2.16E-03	1.67E-03
1522	565987.9	4222336	0.01633104	8.66E-03	2.14E-03	1.66E-03
1523	565987.8	4222326	0.01619341	8.59E-03	2.13E-03	1.65E-03
1524	565987.8	4222317	0.01604618	8.51E-03	2.11E-03	1.63E-03
1525	565987.8	4222307	0.01588937	8.42E-03	2.09E-03	1.61E-03
1526	565987.7	4222297	0.01572352	8.34E-03	2.06E-03	1.60E-03
1527	566007.9	4222383	0.01589077	8.43E-03	2.09E-03	1.61E-03
1528	566008	4222366	0.01573576	8.34E-03	2.07E-03	1.60E-03
1529	566008	4222356	0.01563831	8.29E-03	2.05E-03	1.59E-03
1530	566007.9	4222346	0.01553183	8.23E-03	2.04E-03	1.58E-03
1531	566007.9	4222336	0.01541623	8.17E-03	2.02E-03	1.57E-03
1532	566007.8	4222326	0.01529197	8.11E-03	2.01E-03	1.55E-03
1533	566007.8	4222316	0.01515891	8.04E-03	1.99E-03	1.54E-03
1534	566007.8	4222307	0.01501757	7.96E-03	1.97E-03	1.53E-03
1535	566007.7	4222297	0.01486883	7.88E-03	1.95E-03	1.51E-03
1536	566027.9	4222383	0.01496617	7.94E-03	1.97E-03	1.52E-03
1537	566028	4222366	0.01482205	7.86E-03	1.95E-03	1.51E-03
1538	566028	4222356	0.01473335	7.81E-03	1.93E-03	1.50E-03
1539	566027.9	4222346	0.01463644	7.76E-03	1.92E-03	1.49E-03
1540	566027.9	4222336	0.01453168	7.70E-03	1.91E-03	1.48E-03
1541	566027.8	4222326	0.01441898	7.64E-03	1.89E-03	1.47E-03
1542	566047.9	4222384	0.01414544	7.50E-03	1.86E-03	1.44E-03
1543	566048	4222366	0.01398339	7.41E-03	1.84E-03	1.42E-03
1544	566047.8	4222326	0.01366267	7.24E-03	1.79E-03	1.39E-03
1545	566047.8	4222316	0.01355339	7.19E-03	1.78E-03	1.38E-03
1546	566047.8	4222306	0.01343731	7.12E-03	1.76E-03	1.37E-03
1547	566047.7	4222297	0.01330072	7.05E-03	1.75E-03	1.35E-03
1548	566068	4222366	0.01321186	7.00E-03	1.74E-03	1.34E-03

1549	566068	4222356	0.01317213	6.98E-03	1.73E-03	1.34E-03
1550	566067.9	4222346	0.01312375	6.96E-03	1.72E-03	1.33E-03
1551	566067.9	4222336	0.01306562	6.93E-03	1.72E-03	1.33E-03
1552	566067.8	4222326	0.01296772	6.88E-03	1.70E-03	1.32E-03
1553	566067.8	4222316	0.01286443	6.82E-03	1.69E-03	1.31E-03
1554	566067.8	4222306	0.01275526	6.76E-03	1.68E-03	1.30E-03
1555	566067.7	4222296	0.01261325	6.69E-03	1.66E-03	1.28E-03
1556	566087.9	4222384	0.01262613	6.69E-03	1.66E-03	1.28E-03
1557	566088	4222366	0.01249724	6.63E-03	1.64E-03	1.27E-03
1558	566088	4222356	0.01246472	6.61E-03	1.64E-03	1.27E-03
1559	566087.9	4222346	0.01242427	6.59E-03	1.63E-03	1.26E-03
1560	566087.9	4222336	0.01237413	6.56E-03	1.63E-03	1.26E-03
1561	566087.8	4222326	0.01226397	6.50E-03	1.61E-03	1.25E-03
1562	566087.8	4222316	0.01214732	6.44E-03	1.60E-03	1.23E-03
1563	566087.8	4222306	0.01202313	6.37E-03	1.58E-03	1.22E-03
1564	566087.7	4222296	0.01188765	6.30E-03	1.56E-03	1.21E-03
1565	566107.9	4222384	0.0119762	6.35E-03	1.57E-03	1.22E-03
1566	566108	4222365	0.01183569	6.28E-03	1.55E-03	1.20E-03
1567	566108	4222356	0.01179196	6.25E-03	1.55E-03	1.20E-03
1568	566107.9	4222346	0.01174351	6.23E-03	1.54E-03	1.19E-03
1569	566107.9	4222336	0.01168633	6.20E-03	1.53E-03	1.19E-03
1570	566107.8	4222326	0.0115728	6.14E-03	1.52E-03	1.18E-03
1571	566107.8	4222316	0.01145284	6.07E-03	1.50E-03	1.16E-03
1572	565571.6	4222289	0.1298556	6.88E-02	1.71E-02	1.32E-02
1573	565571.6	4222280	0.1227749	6.51E-02	1.61E-02	1.25E-02
1574	565571.5	4222270	0.115174	6.11E-02	1.51E-02	1.17E-02
1575	565571.5	4222261	0.1072256	5.69E-02	1.41E-02	1.09E-02
1576	565571.5	4222252	0.09917638	5.26E-02	1.30E-02	1.01E-02
1577	565571.5	4222242	0.0912388	4.84E-02	1.20E-02	9.27E-03
1578	565571.4	4222233	0.08359234	4.43E-02	1.10E-02	8.50E-03
1579	565581.4	4222289	0.1165981	6.18E-02	1.53E-02	1.18E-02
1580	565581.4	4222280	0.110555	5.86E-02	1.45E-02	1.12E-02
1581	565581.4	4222270	0.1041227	5.52E-02	1.37E-02	1.06E-02
1582	565581.3	4222261	0.09745364	5.17E-02	1.28E-02	9.90E-03
1583	565581.3	4222252	0.0907156	4.81E-02	1.19E-02	9.22E-03
1584	565581.3	4222242	0.08407446	4.46E-02	1.10E-02	8.54E-03
1585	565581.3	4222233	0.0776297	4.12E-02	1.02E-02	7.89E-03
1586	565591.3	4222289	0.1056807	5.60E-02	1.39E-02	1.07E-02
1587	565591.2	4222280	0.1004895	5.33E-02	1.32E-02	1.02E-02
1588	565591.2	4222270	0.0949972	5.04E-02	1.25E-02	9.65E-03
1589	565591.2	4222261	0.08933827	4.74E-02	1.17E-02	9.08E-03
1590	565591.2	4222252	0.08362629	4.43E-02	1.10E-02	8.50E-03
1591	565591.1	4222242	0.07796287	4.13E-02	1.02E-02	7.92E-03
1592	565591.1	4222233	0.07245486	3.84E-02	9.52E-03	7.36E-03
1593	565601.1	4222289	0.09644653	5.11E-02	1.27E-02	9.80E-03
1594	565601.1	4222280	0.09195787	4.88E-02	1.21E-02	9.35E-03
1595	565601	4222270	0.08723593	4.63E-02	1.15E-02	8.87E-03

1596	565601	4222261	0.08237707	4.37E-02	1.08E-02	8.37E-03
1597	565601	4222251	0.07748211	4.11E-02	1.02E-02	7.87E-03
1598	565601	4222242	0.07261048	3.85E-02	9.54E-03	7.38E-03
1599	565601	4222233	0.06784447	3.60E-02	8.91E-03	6.89E-03
1600	565620.8	4222289	0.08150567	4.32E-02	1.07E-02	8.28E-03
1601	565620.7	4222280	0.07809857	4.14E-02	1.03E-02	7.94E-03
1602	565630.6	4222289	0.07530139	3.99E-02	9.89E-03	7.65E-03
1603	565630.6	4222280	0.07232057	3.83E-02	9.50E-03	7.35E-03
1604	565630.6	4222270	0.06921747	3.67E-02	9.09E-03	7.03E-03
1605	565630.5	4222261	0.06602922	3.50E-02	8.67E-03	6.71E-03
1606	565630.5	4222233	0.05638784	2.99E-02	7.41E-03	5.73E-03
1607	565640.4	4222289	0.0699868	3.71E-02	9.19E-03	7.11E-03
1608	565640.4	4222280	0.06735665	3.57E-02	8.85E-03	6.85E-03
1609	565640.4	4222270	0.06462438	3.43E-02	8.49E-03	6.57E-03
1610	565640.4	4222261	0.06181933	3.28E-02	8.12E-03	6.28E-03
1611	565640.3	4222233	0.05329322	2.83E-02	7.00E-03	5.42E-03
1612	565650.3	4222289	0.06527171	3.46E-02	8.57E-03	6.63E-03
1613	565650.3	4222280	0.06294958	3.34E-02	8.27E-03	6.40E-03
1614	565650.2	4222270	0.06052759	3.21E-02	7.95E-03	6.15E-03
1615	565650.2	4222261	0.05804145	3.08E-02	7.62E-03	5.90E-03
1616	565650.1	4222233	0.05046318	2.68E-02	6.63E-03	5.13E-03
1617	565660.1	4222289	0.06106689	3.24E-02	8.02E-03	6.21E-03
1618	565660.1	4222280	0.05899972	3.13E-02	7.75E-03	6.00E-03
1619	565660.1	4222270	0.0568489	3.01E-02	7.47E-03	5.78E-03
1620	565660.1	4222261	0.05463738	2.90E-02	7.18E-03	5.55E-03
1621	565660	4222242	0.05013146	2.66E-02	6.58E-03	5.09E-03
1622	565660	4222233	0.04787077	2.54E-02	6.29E-03	4.86E-03
1623	565670	4222289	0.05729776	3.04E-02	7.52E-03	5.82E-03
1624	565669.9	4222280	0.05544853	2.94E-02	7.28E-03	5.64E-03
1625	565669.9	4222270	0.05352627	2.84E-02	7.03E-03	5.44E-03
1626	565669.8	4222242	0.04751522	2.52E-02	6.24E-03	4.83E-03
1627	565669.8	4222232	0.04548358	2.41E-02	5.97E-03	4.62E-03
1628	565679.8	4222289	0.05386426	2.86E-02	7.07E-03	5.47E-03
1629	565679.8	4222280	0.05221014	2.77E-02	6.86E-03	5.31E-03
1630	565679.8	4222270	0.050489	2.68E-02	6.63E-03	5.13E-03
1631	565679.7	4222251	0.04691669	2.49E-02	6.16E-03	4.77E-03
1632	565679.7	4222242	0.04509452	2.39E-02	5.92E-03	4.58E-03
1633	565679.7	4222232	0.04326396	2.29E-02	5.68E-03	4.40E-03
1634	565689.6	4222289	0.05074215	2.69E-02	6.66E-03	5.16E-03
1635	565689.6	4222280	0.04925501	2.61E-02	6.47E-03	5.01E-03
1636	565689.6	4222261	0.04612187	2.45E-02	6.06E-03	4.69E-03
1637	565689.5	4222251	0.04449777	2.36E-02	5.84E-03	4.52E-03
1638	565689.5	4222242	0.04285309	2.27E-02	5.63E-03	4.36E-03
1639	565689.5	4222232	0.04120284	2.18E-02	5.41E-03	4.19E-03
1640	565699.4	4222270	0.04517371	2.40E-02	5.93E-03	4.59E-03
1641	565699.4	4222261	0.04374054	2.32E-02	5.74E-03	4.45E-03
1642	565699.4	4222251	0.04227527	2.24E-02	5.55E-03	4.30E-03

1643	565699.4	4222242	0.04078745	2.16E-02	5.36E-03	4.15E-03
1644	565699.3	4222232	0.03929006	2.08E-02	5.16E-03	3.99E-03
1645	565709.3	4222279	0.0441101	2.34E-02	5.79E-03	4.48E-03
1646	565709.3	4222270	0.04285368	2.27E-02	5.63E-03	4.36E-03
1647	565709.2	4222261	0.04155446	2.20E-02	5.46E-03	4.22E-03
1648	565709.2	4222251	0.04022639	2.13E-02	5.28E-03	4.09E-03
1649	565709.2	4222242	0.03887763	2.06E-02	5.11E-03	3.95E-03
1650	565709.2	4222232	0.03751628	1.99E-02	4.93E-03	3.81E-03
1651	565719.2	4222289	0.04295699	2.28E-02	5.64E-03	4.37E-03
1652	565719.1	4222279	0.04185845	2.22E-02	5.50E-03	4.25E-03
1653	565719.1	4222270	0.0407186	2.16E-02	5.35E-03	4.14E-03
1654	565719.1	4222261	0.03954049	2.10E-02	5.19E-03	4.02E-03
1655	565719.1	4222251	0.03833275	2.03E-02	5.03E-03	3.90E-03
1656	565719	4222242	0.03710575	1.97E-02	4.87E-03	3.77E-03
1657	565719	4222232	0.03586313	1.90E-02	4.71E-03	3.64E-03
1658	565729	4222289	0.04078624	2.16E-02	5.36E-03	4.14E-03
1659	565729	4222279	0.03979034	2.11E-02	5.23E-03	4.04E-03
1660	565728.9	4222270	0.03875059	2.05E-02	5.09E-03	3.94E-03
1661	565728.9	4222261	0.03767704	2.00E-02	4.95E-03	3.83E-03
1662	565728.9	4222251	0.03657764	1.94E-02	4.80E-03	3.72E-03
1663	565728.9	4222242	0.03545812	1.88E-02	4.66E-03	3.60E-03
1664	565728.9	4222232	0.03432254	1.82E-02	4.51E-03	3.49E-03
1665	565738.8	4222289	0.03878776	2.06E-02	5.09E-03	3.94E-03
1666	565738.8	4222279	0.03787876	2.01E-02	4.97E-03	3.85E-03
1667	565738.8	4222270	0.03693147	1.96E-02	4.85E-03	3.75E-03
1668	565738.8	4222261	0.03595164	1.91E-02	4.72E-03	3.65E-03
1669	565738.7	4222251	0.0349477	1.85E-02	4.59E-03	3.55E-03
1670	565738.7	4222242	0.03392213	1.80E-02	4.45E-03	3.45E-03
1671	565738.7	4222232	0.03288303	1.74E-02	4.32E-03	3.34E-03
1672	565748.7	4222289	0.03694472	1.96E-02	4.85E-03	3.75E-03
1673	565748.6	4222279	0.036112	1.91E-02	4.74E-03	3.67E-03
1674	565748.6	4222270	0.03524486	1.87E-02	4.63E-03	3.58E-03
1675	565748.6	4222261	0.03434831	1.82E-02	4.51E-03	3.49E-03
1676	565748.6	4222251	0.03342987	1.77E-02	4.39E-03	3.40E-03
1677	565748.6	4222242	0.03248959	1.72E-02	4.27E-03	3.30E-03
1678	565748.5	4222232	0.03153459	1.67E-02	4.14E-03	3.20E-03
1679	565758.5	4222279	0.03447338	1.83E-02	4.53E-03	3.50E-03
1680	565758.5	4222270	0.03367939	1.79E-02	4.42E-03	3.42E-03
1681	565758.4	4222261	0.03285853	1.74E-02	4.32E-03	3.34E-03
1682	565758.4	4222251	0.03201387	1.70E-02	4.20E-03	3.25E-03
1683	565758.4	4222242	0.03115072	1.65E-02	4.09E-03	3.17E-03
1684	565768.3	4222289	0.03366537	1.78E-02	4.42E-03	3.42E-03
1685	565768.3	4222279	0.0329641	1.75E-02	4.33E-03	3.35E-03
1686	565768.3	4222270	0.0322334	1.71E-02	4.23E-03	3.28E-03
1687	565768.3	4222261	0.03147921	1.67E-02	4.13E-03	3.20E-03
1688	565768.3	4222251	0.03070107	1.63E-02	4.03E-03	3.12E-03
1689	565778.2	4222289	0.0322161	1.71E-02	4.23E-03	3.27E-03

1690	565778.2	4222279	0.0315705	1.67E-02	4.15E-03	3.21E-03
1691	565778.1	4222270	0.03089822	1.64E-02	4.06E-03	3.14E-03
1692	565778.1	4222260	0.0302006	1.60E-02	3.97E-03	3.07E-03
1693	565778	4222232	0.02799957	1.48E-02	3.68E-03	2.85E-03
1694	565788	4222289	0.0308654	1.64E-02	4.05E-03	3.14E-03
1695	565788	4222279	0.03026854	1.60E-02	3.98E-03	3.08E-03
1696	565787.9	4222242	0.02766	1.47E-02	3.63E-03	2.81E-03
1697	565787.9	4222232	0.0269666	1.43E-02	3.54E-03	2.74E-03
1698	565797.9	4222289	0.02959473	1.57E-02	3.89E-03	3.01E-03
1699	565797.8	4222251	0.02725757	1.45E-02	3.58E-03	2.77E-03
1700	565797.7	4222242	0.02662802	1.41E-02	3.50E-03	2.71E-03
1701	565797.7	4222232	0.02598471	1.38E-02	3.41E-03	2.64E-03
1702	565807.6	4222260	0.02679893	1.42E-02	3.52E-03	2.72E-03
1703	565807.6	4222251	0.02623046	1.39E-02	3.44E-03	2.67E-03
1704	565807.6	4222242	0.02564616	1.36E-02	3.37E-03	2.61E-03
1705	565807.6	4222232	0.02504844	1.33E-02	3.29E-03	2.55E-03
1706	565827.7	4222289	0.02664739	1.41E-02	3.50E-03	2.71E-03
1707	565827.7	4222279	0.02617845	1.39E-02	3.44E-03	2.66E-03
1708	565827.7	4222270	0.02568828	1.36E-02	3.37E-03	2.61E-03
1709	565827.6	4222260	0.02518012	1.34E-02	3.31E-03	2.56E-03
1710	565827.6	4222251	0.02465736	1.31E-02	3.24E-03	2.51E-03
1711	565827.6	4222242	0.02411878	1.28E-02	3.17E-03	2.45E-03
1712	565827.6	4222232	0.02356775	1.25E-02	3.10E-03	2.40E-03
1713	565847.7	4222289	0.02468014	1.31E-02	3.24E-03	2.51E-03
1714	565847.7	4222279	0.02427212	1.29E-02	3.19E-03	2.47E-03
1715	565847.7	4222270	0.02384588	1.26E-02	3.13E-03	2.42E-03
1716	565847.6	4222260	0.02340365	1.24E-02	3.07E-03	2.38E-03
1717	565847.6	4222251	0.02294824	1.22E-02	3.01E-03	2.33E-03
1718	565847.6	4222241	0.02247838	1.19E-02	2.95E-03	2.28E-03
1719	565847.6	4222232	0.02199695	1.17E-02	2.89E-03	2.24E-03
1720	565867.7	4222289	0.02295353	1.22E-02	3.01E-03	2.33E-03
1721	565867.7	4222279	0.02259753	1.20E-02	2.97E-03	2.30E-03
1722	565867.7	4222270	0.02222539	1.18E-02	2.92E-03	2.26E-03
1723	565867.6	4222260	0.02183953	1.16E-02	2.87E-03	2.22E-03
1724	565867.6	4222251	0.02144095	1.14E-02	2.82E-03	2.18E-03
1725	565887.7	4222279	0.02110364	1.12E-02	2.77E-03	2.14E-03
1726	565887.7	4222270	0.02077706	1.10E-02	2.73E-03	2.11E-03
1727	565887.6	4222241	0.01972642	1.05E-02	2.59E-03	2.00E-03
1728	565887.6	4222232	0.0193553	1.03E-02	2.54E-03	1.97E-03
1729	565907.6	4222260	0.01914144	1.01E-02	2.51E-03	1.95E-03
1730	565907.6	4222251	0.01883197	9.98E-03	2.47E-03	1.91E-03
1731	565907.6	4222241	0.01851211	9.82E-03	2.43E-03	1.88E-03
1732	565907.6	4222232	0.0181836	9.64E-03	2.39E-03	1.85E-03
1733	565927.7	4222279	0.01848041	9.80E-03	2.43E-03	1.88E-03
1734	565927.7	4222270	0.01822529	9.66E-03	2.39E-03	1.85E-03
1735	565927.6	4222260	0.01795982	9.52E-03	2.36E-03	1.83E-03
1736	565927.6	4222251	0.01768623	9.38E-03	2.32E-03	1.80E-03

1737	565927.6	4222241	0.01740271	9.23E-03	2.29E-03	1.77E-03
1738	565927.6	4222232	0.01711069	9.07E-03	2.25E-03	1.74E-03
1739	565947.6	4222260	0.01688035	8.95E-03	2.22E-03	1.72E-03
1740	565947.6	4222251	0.01663621	8.82E-03	2.18E-03	1.69E-03
1741	565947.6	4222241	0.01638384	8.69E-03	2.15E-03	1.67E-03
1742	565947.6	4222232	0.01612375	8.55E-03	2.12E-03	1.64E-03
1743	565967.7	4222279	0.01630315	8.64E-03	2.14E-03	1.66E-03
1744	565987.7	4222288	0.0155718	8.26E-03	2.05E-03	1.58E-03
1745	565987.7	4222279	0.01539791	8.16E-03	2.02E-03	1.56E-03
1746	565987.7	4222269	0.01520539	8.06E-03	2.00E-03	1.55E-03
1747	565987.6	4222260	0.0150025	7.95E-03	1.97E-03	1.52E-03
1748	566007.6	4222260	0.01419821	7.53E-03	1.86E-03	1.44E-03
1749	566007.6	4222251	0.01399401	7.42E-03	1.84E-03	1.42E-03
1750	566007.6	4222241	0.01379767	7.32E-03	1.81E-03	1.40E-03
1751	566027.7	4222279	0.01377338	7.30E-03	1.81E-03	1.40E-03
1752	566027.7	4222269	0.01362104	7.22E-03	1.79E-03	1.38E-03
1753	566027.6	4222260	0.01346216	7.14E-03	1.77E-03	1.37E-03
1754	566027.6	4222250	0.0132979	7.05E-03	1.75E-03	1.35E-03
1755	566027.6	4222241	0.01311718	6.95E-03	1.72E-03	1.33E-03
1756	566027.6	4222232	0.01292307	6.85E-03	1.70E-03	1.31E-03
1757	566047.7	4222279	0.01303523	6.91E-03	1.71E-03	1.32E-03
1758	566047.7	4222269	0.01288789	6.83E-03	1.69E-03	1.31E-03
1759	566047.6	4222260	0.01273409	6.75E-03	1.67E-03	1.29E-03
1760	566047.6	4222250	0.0125765	6.67E-03	1.65E-03	1.28E-03
1761	566047.6	4222241	0.01240289	6.58E-03	1.63E-03	1.26E-03
1762	566047.6	4222232	0.01221526	6.48E-03	1.60E-03	1.24E-03
1763	566067.7	4222279	0.01233836	6.54E-03	1.62E-03	1.25E-03
1764	566067.7	4222269	0.01218435	6.46E-03	1.60E-03	1.24E-03
1765	566067.6	4222260	0.01202437	6.38E-03	1.58E-03	1.22E-03
1766	566067.6	4222250	0.01185796	6.29E-03	1.56E-03	1.21E-03
1767	566087.7	4222279	0.01162439	6.16E-03	1.53E-03	1.18E-03
1768	566087.6	4222241	0.01100663	5.84E-03	1.45E-03	1.12E-03
1769	566087.6	4222231	0.01083963	5.75E-03	1.42E-03	1.10E-03
1770	566107.7	4222269	0.01086496	5.76E-03	1.43E-03	1.10E-03
1771	566107.6	4222260	0.01072219	5.68E-03	1.41E-03	1.09E-03
1772	566107.6	4222250	0.01057561	5.61E-03	1.39E-03	1.07E-03
1773	566107.6	4222241	0.0104248	5.53E-03	1.37E-03	1.06E-03
1774	566107.6	4222231	0.01026893	5.44E-03	1.35E-03	1.04E-03
1775	565574.7	4222217	0.07027785	3.73E-02	9.23E-03	7.14E-03
1776	565576.2	4222197	0.05781907	3.07E-02	7.59E-03	5.88E-03
1777	565579.9	4222206	0.06163323	3.27E-02	8.09E-03	6.26E-03
1778	565583.7	4222215	0.06535906	3.47E-02	8.58E-03	6.64E-03
1779	565587.4	4222224	0.06900805	3.66E-02	9.06E-03	7.01E-03
1780	565575.6	4222172	0.04591525	2.43E-02	6.03E-03	4.67E-03
1781	565579.2	4222181	0.04907649	2.60E-02	6.45E-03	4.99E-03
1782	565582.8	4222189	0.05232061	2.77E-02	6.87E-03	5.32E-03
1783	565586.5	4222198	0.05559364	2.95E-02	7.30E-03	5.65E-03

1784	565590.1	4222207	0.05882906	3.12E-02	7.73E-03	5.98E-03
1785	565593.7	4222215	0.06196987	3.29E-02	8.14E-03	6.30E-03
1786	565597.3	4222224	0.06500605	3.45E-02	8.54E-03	6.61E-03
1787	565582.5	4222165	0.0421804	2.24E-02	5.54E-03	4.29E-03
1788	565586	4222173	0.04491041	2.38E-02	5.90E-03	4.56E-03
1789	565589.5	4222182	0.04769408	2.53E-02	6.26E-03	4.85E-03
1790	565593.1	4222190	0.05050882	2.68E-02	6.63E-03	5.13E-03
1791	565596.6	4222199	0.05331732	2.83E-02	7.00E-03	5.42E-03
1792	565600.2	4222207	0.05608194	2.97E-02	7.37E-03	5.70E-03
1793	565603.7	4222216	0.05875146	3.11E-02	7.72E-03	5.97E-03
1794	565607.2	4222224	0.06129132	3.25E-02	8.05E-03	6.23E-03
1795	565577.5	4222146	0.03634482	1.93E-02	4.77E-03	3.69E-03
1796	565589.3	4222158	0.03895393	2.07E-02	5.12E-03	3.96E-03
1797	565592.8	4222166	0.04132891	2.19E-02	5.43E-03	4.20E-03
1798	565599.8	4222183	0.0461935	2.45E-02	6.07E-03	4.69E-03
1799	565603.2	4222191	0.04864792	2.58E-02	6.39E-03	4.94E-03
1800	565610.2	4222208	0.05344787	2.83E-02	7.02E-03	5.43E-03
1801	565583.7	4222139	0.03380422	1.79E-02	4.44E-03	3.44E-03
1802	565596.6	4222151	0.03635604	1.93E-02	4.77E-03	3.69E-03
1803	565600.3	4222160	0.03863655	2.05E-02	5.07E-03	3.93E-03
1804	565604.1	4222169	0.04097376	2.17E-02	5.38E-03	4.16E-03
1805	565607.9	4222178	0.04334653	2.30E-02	5.69E-03	4.41E-03
1806	565611.6	4222187	0.0457189	2.42E-02	6.00E-03	4.65E-03
1807	565626.7	4222224	0.05449447	2.89E-02	7.16E-03	5.54E-03
1808	565582	4222128	0.03117542	1.65E-02	4.09E-03	3.17E-03
1809	565590.9	4222132	0.03158148	1.67E-02	4.15E-03	3.21E-03
1810	565603.4	4222144	0.03382845	1.79E-02	4.44E-03	3.44E-03
1811	565607.1	4222153	0.03582308	1.90E-02	4.70E-03	3.64E-03
1812	565610.8	4222162	0.03786871	2.01E-02	4.97E-03	3.85E-03
1813	565614.5	4222171	0.03994876	2.12E-02	5.25E-03	4.06E-03
1814	565629.2	4222206	0.04805055	2.55E-02	6.31E-03	4.88E-03
1815	565632.9	4222215	0.04992056	2.65E-02	6.56E-03	5.07E-03
1816	565636.6	4222224	0.05167441	2.74E-02	6.79E-03	5.25E-03
1817	565580.6	4222118	0.02880854	1.53E-02	3.78E-03	2.93E-03
1818	565589.3	4222121	0.02922888	1.55E-02	3.84E-03	2.97E-03
1819	565598	4222125	0.0295869	1.57E-02	3.89E-03	3.01E-03
1820	565610.3	4222137	0.03157413	1.67E-02	4.15E-03	3.21E-03
1821	565613.9	4222146	0.03334275	1.77E-02	4.38E-03	3.39E-03
1822	565632	4222189	0.04246572	2.25E-02	5.58E-03	4.32E-03
1823	565635.7	4222198	0.04423875	2.35E-02	5.81E-03	4.50E-03
1824	565639.3	4222206	0.04594117	2.44E-02	6.03E-03	4.67E-03
1825	565642.9	4222215	0.04755707	2.52E-02	6.25E-03	4.83E-03
1826	565646.5	4222224	0.04907101	2.60E-02	6.44E-03	4.99E-03
1827	565587.9	4222111	0.02709976	1.44E-02	3.56E-03	2.75E-03
1828	565596.5	4222114	0.02747247	1.46E-02	3.61E-03	2.79E-03
1829	565605	4222118	0.02778208	1.47E-02	3.65E-03	2.82E-03
1830	565617.2	4222130	0.02955304	1.57E-02	3.88E-03	3.00E-03

1831	565635	4222173	0.03765993	2.00E-02	4.95E-03	3.83E-03
1832	565638.6	4222181	0.03929568	2.08E-02	5.16E-03	3.99E-03
1833	565642.2	4222190	0.04089829	2.17E-02	5.37E-03	4.16E-03
1834	565645.7	4222198	0.04245141	2.25E-02	5.58E-03	4.31E-03
1835	565649.3	4222207	0.04393584	2.33E-02	5.77E-03	4.47E-03
1836	565652.9	4222215	0.0453466	2.40E-02	5.96E-03	4.61E-03
1837	565656.4	4222224	0.04666432	2.47E-02	6.13E-03	4.74E-03
1838	565593.2	4222103	0.02546724	1.35E-02	3.34E-03	2.59E-03
1839	565602.4	4222107	0.02582709	1.37E-02	3.39E-03	2.62E-03
1840	565611.5	4222111	0.02613097	1.39E-02	3.43E-03	2.66E-03
1841	565639.5	4222160	0.03410801	1.81E-02	4.48E-03	3.47E-03
1842	565643.3	4222169	0.0357081	1.89E-02	4.69E-03	3.63E-03
1843	565647.1	4222178	0.0372823	1.98E-02	4.90E-03	3.79E-03
1844	565650.9	4222187	0.03881958	2.06E-02	5.10E-03	3.95E-03
1845	565654.7	4222196	0.04030952	2.14E-02	5.29E-03	4.10E-03
1846	565658.5	4222205	0.04174118	2.21E-02	5.48E-03	4.24E-03
1847	565662.2	4222214	0.0430968	2.28E-02	5.66E-03	4.38E-03
1848	565666	4222223	0.04434714	2.35E-02	5.82E-03	4.51E-03
1849	565582.7	4222089	0.02329849	1.24E-02	3.06E-03	2.37E-03
1850	565591.7	4222093	0.0237021	1.26E-02	3.11E-03	2.41E-03
1851	565600.6	4222096	0.02406496	1.28E-02	3.16E-03	2.45E-03
1852	565609.6	4222100	0.02438215	1.29E-02	3.20E-03	2.48E-03
1853	565618.5	4222104	0.0246608	1.31E-02	3.24E-03	2.51E-03
1854	565646.1	4222152	0.03181539	1.69E-02	4.18E-03	3.23E-03
1855	565649.9	4222161	0.03324608	1.76E-02	4.37E-03	3.38E-03
1856	565653.6	4222170	0.03466819	1.84E-02	4.55E-03	3.52E-03
1857	565657.3	4222179	0.03606423	1.91E-02	4.74E-03	3.67E-03
1858	565661	4222188	0.037423	1.98E-02	4.91E-03	3.80E-03
1859	565664.8	4222197	0.03874349	2.05E-02	5.09E-03	3.94E-03
1860	565668.5	4222206	0.04000702	2.12E-02	5.25E-03	4.07E-03
1861	565672.2	4222215	0.04120101	2.18E-02	5.41E-03	4.19E-03
1862	565675.9	4222224	0.04228576	2.24E-02	5.55E-03	4.30E-03
1863	565590.3	4222082	0.02210242	1.17E-02	2.90E-03	2.25E-03
1864	565599.2	4222086	0.02246119	1.19E-02	2.95E-03	2.28E-03
1865	565608	4222090	0.02278433	1.21E-02	2.99E-03	2.32E-03
1866	565616.8	4222093	0.0230689	1.22E-02	3.03E-03	2.34E-03
1867	565645.5	4222127	0.0271996	1.44E-02	3.57E-03	2.76E-03
1868	565649.1	4222136	0.02847346	1.51E-02	3.74E-03	2.89E-03
1869	565656.5	4222153	0.03105866	1.65E-02	4.08E-03	3.16E-03
1870	565660.1	4222162	0.03234757	1.72E-02	4.25E-03	3.29E-03
1871	565663.8	4222171	0.03361917	1.78E-02	4.42E-03	3.42E-03
1872	565667.5	4222180	0.03486171	1.85E-02	4.58E-03	3.54E-03
1873	565671.1	4222188	0.03606789	1.91E-02	4.74E-03	3.67E-03
1874	565674.8	4222197	0.03724462	1.97E-02	4.89E-03	3.79E-03
1875	565678.5	4222206	0.0383596	2.03E-02	5.04E-03	3.90E-03
1876	565682.2	4222215	0.03940004	2.09E-02	5.17E-03	4.00E-03
1877	565685.8	4222224	0.04034551	2.14E-02	5.30E-03	4.10E-03

1878	565589.2	4222072	0.020654	1.10E-02	2.71E-03	2.10E-03
1879	565597.9	4222076	0.02099998	1.11E-02	2.76E-03	2.13E-03
1880	565606.6	4222079	0.02132139	1.13E-02	2.80E-03	2.17E-03
1881	565615.3	4222083	0.02161424	1.15E-02	2.84E-03	2.20E-03
1882	565645	4222102	0.02337078	1.24E-02	3.07E-03	2.38E-03
1883	565648.6	4222111	0.0244732	1.30E-02	3.21E-03	2.49E-03
1884	565652.2	4222119	0.02560404	1.36E-02	3.36E-03	2.60E-03
1885	565655.9	4222128	0.02675565	1.42E-02	3.51E-03	2.72E-03
1886	565659.5	4222137	0.02792466	1.48E-02	3.67E-03	2.84E-03
1887	565670.4	4222163	0.0314351	1.67E-02	4.13E-03	3.19E-03
1888	565674	4222172	0.03257706	1.73E-02	4.28E-03	3.31E-03
1889	565677.6	4222180	0.03369356	1.79E-02	4.42E-03	3.42E-03
1890	565681.2	4222189	0.0347768	1.84E-02	4.57E-03	3.53E-03
1891	565684.8	4222198	0.03581877	1.90E-02	4.70E-03	3.64E-03
1892	565688.5	4222206	0.03679636	1.95E-02	4.83E-03	3.74E-03
1893	565692.1	4222215	0.03770821	2.00E-02	4.95E-03	3.83E-03
1894	565695.7	4222224	0.03853937	2.04E-02	5.06E-03	3.92E-03
1895	565593.5	4222064	0.01954707	1.04E-02	2.57E-03	1.99E-03
1896	565602.6	4222068	0.01988535	1.05E-02	2.61E-03	2.02E-03
1897	565611.8	4222071	0.02020039	1.07E-02	2.65E-03	2.05E-03
1898	565652.1	4222096	0.02219193	1.18E-02	2.91E-03	2.26E-03
1899	565655.9	4222105	0.02325835	1.23E-02	3.05E-03	2.36E-03
1900	565659.7	4222114	0.02435359	1.29E-02	3.20E-03	2.47E-03
1901	565663.5	4222123	0.02547141	1.35E-02	3.35E-03	2.59E-03
1902	565667.3	4222132	0.02660306	1.41E-02	3.49E-03	2.70E-03
1903	565671.1	4222141	0.02774184	1.47E-02	3.64E-03	2.82E-03
1904	565682.6	4222169	0.03112098	1.65E-02	4.09E-03	3.16E-03
1905	565686.4	4222178	0.03219975	1.71E-02	4.23E-03	3.27E-03
1906	565690.2	4222187	0.0332371	1.76E-02	4.37E-03	3.38E-03
1907	565694	4222196	0.03423273	1.82E-02	4.50E-03	3.48E-03
1908	565697.8	4222205	0.03516446	1.86E-02	4.62E-03	3.57E-03
1909	565701.6	4222214	0.03602464	1.91E-02	4.73E-03	3.66E-03
1910	565705.4	4222223	0.03680865	1.95E-02	4.83E-03	3.74E-03
1911	565592.2	4222054	0.0183286	9.72E-03	2.41E-03	1.86E-03
1912	565601.2	4222057	0.01865131	9.89E-03	2.45E-03	1.90E-03
1913	565610.2	4222061	0.01895615	1.01E-02	2.49E-03	1.93E-03
1914	565659	4222088	0.02104503	1.12E-02	2.76E-03	2.14E-03
1915	565662.8	4222097	0.02201584	1.17E-02	2.89E-03	2.24E-03
1916	565666.5	4222106	0.0230112	1.22E-02	3.02E-03	2.34E-03
1917	565670.3	4222115	0.0240266	1.27E-02	3.16E-03	2.44E-03
1918	565674	4222124	0.0250582	1.33E-02	3.29E-03	2.55E-03
1919	565677.8	4222133	0.02609738	1.38E-02	3.43E-03	2.65E-03
1920	565681.5	4222142	0.02714027	1.44E-02	3.56E-03	2.76E-03
1921	565685.3	4222151	0.02818136	1.49E-02	3.70E-03	2.86E-03
1922	565696.5	4222178	0.03117095	1.65E-02	4.09E-03	3.17E-03
1923	565700.3	4222187	0.03209681	1.70E-02	4.22E-03	3.26E-03
1924	565704	4222196	0.03297478	1.75E-02	4.33E-03	3.35E-03

1925	565707.8	4222205	0.03379268	1.79E-02	4.44E-03	3.43E-03
1926	565711.5	4222214	0.03454944	1.83E-02	4.54E-03	3.51E-03
1927	565715.3	4222223	0.03524042	1.87E-02	4.63E-03	3.58E-03
1928	565591	4222043	0.01722075	9.13E-03	2.26E-03	1.75E-03
1929	565599.9	4222047	0.01752597	9.29E-03	2.30E-03	1.78E-03
1930	565608.8	4222051	0.01781735	9.45E-03	2.34E-03	1.81E-03
1931	565617.7	4222054	0.01809277	9.59E-03	2.38E-03	1.84E-03
1932	565665.9	4222081	0.01999442	1.06E-02	2.63E-03	2.03E-03
1933	565669.6	4222090	0.02087999	1.11E-02	2.74E-03	2.12E-03
1934	565673.3	4222099	0.02178848	1.16E-02	2.86E-03	2.21E-03
1935	565677	4222108	0.02271612	1.20E-02	2.98E-03	2.31E-03
1936	565680.7	4222117	0.02365766	1.25E-02	3.11E-03	2.40E-03
1937	565684.4	4222126	0.02460652	1.30E-02	3.23E-03	2.50E-03
1938	565688.1	4222135	0.02556405	1.36E-02	3.36E-03	2.60E-03
1939	565691.8	4222144	0.02652146	1.41E-02	3.48E-03	2.70E-03
1940	565695.5	4222152	0.02746989	1.46E-02	3.61E-03	2.79E-03
1941	565699.2	4222161	0.0283992	1.51E-02	3.73E-03	2.89E-03
1942	565714	4222197	0.03176074	1.68E-02	4.17E-03	3.23E-03
1943	565717.7	4222206	0.03248787	1.72E-02	4.27E-03	3.30E-03
1944	565721.4	4222215	0.03315999	1.76E-02	4.35E-03	3.37E-03
1945	565725.2	4222223	0.03377113	1.79E-02	4.44E-03	3.43E-03
1946	565598.8	4222037	0.0164975	8.75E-03	2.17E-03	1.68E-03
1947	565607.6	4222040	0.01677465	8.89E-03	2.20E-03	1.70E-03
1948	565616.4	4222044	0.01703949	9.03E-03	2.24E-03	1.73E-03
1949	565625.2	4222047	0.01727837	9.16E-03	2.27E-03	1.76E-03
1950	565634	4222051	0.01751266	9.29E-03	2.30E-03	1.78E-03
1951	565642.8	4222055	0.0177291	9.40E-03	2.33E-03	1.80E-03
1952	565651.6	4222058	0.01792058	9.50E-03	2.35E-03	1.82E-03
1953	565660.4	4222062	0.01809024	9.59E-03	2.38E-03	1.84E-03
1954	565676.5	4222083	0.01983748	1.05E-02	2.61E-03	2.02E-03
1955	565680.1	4222092	0.0206699	1.10E-02	2.71E-03	2.10E-03
1956	565683.8	4222101	0.02151927	1.14E-02	2.83E-03	2.19E-03
1957	565687.4	4222109	0.02238217	1.19E-02	2.94E-03	2.27E-03
1958	565691.1	4222118	0.02325241	1.23E-02	3.05E-03	2.36E-03
1959	565694.8	4222127	0.0241276	1.28E-02	3.17E-03	2.45E-03
1960	565698.4	4222136	0.02501119	1.33E-02	3.28E-03	2.54E-03
1961	565702.1	4222145	0.02589038	1.37E-02	3.40E-03	2.63E-03
1962	565705.8	4222153	0.02675621	1.42E-02	3.51E-03	2.72E-03
1963	565709.4	4222162	0.02759227	1.46E-02	3.62E-03	2.80E-03
1964	565713.1	4222171	0.0283989	1.51E-02	3.73E-03	2.89E-03
1965	565731.4	4222215	0.03185004	1.69E-02	4.18E-03	3.24E-03
1966	565735	4222224	0.03239403	1.72E-02	4.25E-03	3.29E-03
1967	565597.8	4222026	0.01555614	8.25E-03	2.04E-03	1.58E-03
1968	565606.5	4222030	0.01581906	8.39E-03	2.08E-03	1.61E-03
1969	565615.2	4222033	0.01607148	8.52E-03	2.11E-03	1.63E-03
1970	565623.9	4222037	0.01631264	8.65E-03	2.14E-03	1.66E-03
1971	565632.6	4222041	0.01653021	8.76E-03	2.17E-03	1.68E-03

1972	565641.3	4222044	0.01674404	8.88E-03	2.20E-03	1.70E-03
1973	565650	4222048	0.01693869	8.98E-03	2.22E-03	1.72E-03
1974	565658.7	4222051	0.01711338	9.07E-03	2.25E-03	1.74E-03
1975	565667.4	4222055	0.01726997	9.16E-03	2.27E-03	1.76E-03
1976	565687	4222085	0.01964258	1.04E-02	2.58E-03	2.00E-03
1977	565690.6	4222093	0.02042353	1.08E-02	2.68E-03	2.08E-03
1978	565694.2	4222102	0.02121698	1.12E-02	2.79E-03	2.16E-03
1979	565697.8	4222111	0.02201745	1.17E-02	2.89E-03	2.24E-03
1980	565701.4	4222119	0.02282336	1.21E-02	3.00E-03	2.32E-03
1981	565705.1	4222128	0.02363053	1.25E-02	3.10E-03	2.40E-03
1982	565708.7	4222137	0.02444372	1.30E-02	3.21E-03	2.48E-03
1983	565712.3	4222145	0.02524731	1.34E-02	3.32E-03	2.57E-03
1984	565715.9	4222154	0.02603404	1.38E-02	3.42E-03	2.65E-03
1985	565719.6	4222163	0.0267926	1.42E-02	3.52E-03	2.72E-03
1986	565723.2	4222171	0.02752183	1.46E-02	3.61E-03	2.80E-03
1987	565726.8	4222180	0.02821885	1.50E-02	3.71E-03	2.87E-03
1988	565730.4	4222189	0.0288804	1.53E-02	3.79E-03	2.94E-03
1989	565619.7	4222026	0.01533266	8.13E-03	2.01E-03	1.56E-03
1990	565628.7	4222029	0.01555878	8.25E-03	2.04E-03	1.58E-03
1991	565637.8	4222033	0.01578127	8.37E-03	2.07E-03	1.60E-03
1992	565646.8	4222037	0.01598894	8.48E-03	2.10E-03	1.62E-03
1993	565655.9	4222040	0.01617635	8.58E-03	2.12E-03	1.64E-03
1994	565664.9	4222044	0.01634812	8.67E-03	2.15E-03	1.66E-03
1995	565674	4222048	0.01650148	8.75E-03	2.17E-03	1.68E-03
1996	565686.8	4222061	0.01734063	9.19E-03	2.28E-03	1.76E-03
1997	565694.3	4222079	0.01880424	9.97E-03	2.47E-03	1.91E-03
1998	565698.1	4222088	0.01956256	1.04E-02	2.57E-03	1.99E-03
1999	565701.9	4222097	0.02033184	1.08E-02	2.67E-03	2.07E-03
2000	565705.6	4222106	0.02110939	1.12E-02	2.77E-03	2.15E-03
2001	565709.4	4222115	0.02189289	1.16E-02	2.88E-03	2.22E-03
2002	565713.2	4222124	0.02267376	1.20E-02	2.98E-03	2.30E-03
2003	565720.7	4222142	0.02423812	1.29E-02	3.18E-03	2.46E-03
2004	565724.5	4222151	0.0250011	1.33E-02	3.28E-03	2.54E-03
2005	565728.2	4222160	0.02573887	1.36E-02	3.38E-03	2.62E-03
2006	565732	4222169	0.02644163	1.40E-02	3.47E-03	2.69E-03
2007	565735.8	4222178	0.02711453	1.44E-02	3.56E-03	2.76E-03
2008	565739.5	4222187	0.02774943	1.47E-02	3.64E-03	2.82E-03
2009	565743.3	4222196	0.02834505	1.50E-02	3.72E-03	2.88E-03
2010	565747.1	4222205	0.02889907	1.53E-02	3.80E-03	2.94E-03
2011	565645.2	4222026	0.01513481	8.02E-03	1.99E-03	1.54E-03
2012	565654.2	4222030	0.01532268	8.12E-03	2.01E-03	1.56E-03
2013	565663.1	4222034	0.0154946	8.22E-03	2.03E-03	1.57E-03
2014	565672.1	4222037	0.01565168	8.30E-03	2.06E-03	1.59E-03
2015	565681	4222041	0.01579746	8.38E-03	2.07E-03	1.61E-03
2016	565693.7	4222054	0.01657348	8.79E-03	2.18E-03	1.68E-03
2017	565704.9	4222080	0.01861723	9.87E-03	2.44E-03	1.89E-03
2018	565708.6	4222089	0.01932719	1.02E-02	2.54E-03	1.96E-03

2019	565712.3	4222098	0.02004477	1.06E-02	2.63E-03	2.04E-03
2020	565716	4222107	0.02076869	1.10E-02	2.73E-03	2.11E-03
2021	565719.8	4222116	0.02149143	1.14E-02	2.82E-03	2.18E-03
2022	565723.5	4222125	0.02221186	1.18E-02	2.92E-03	2.26E-03
2023	565727.2	4222134	0.02293438	1.22E-02	3.01E-03	2.33E-03
2024	565731	4222143	0.0236472	1.25E-02	3.11E-03	2.40E-03
2025	565734.7	4222152	0.02434372	1.29E-02	3.20E-03	2.47E-03
2026	565738.4	4222161	0.02501261	1.33E-02	3.28E-03	2.54E-03
2027	565742.1	4222170	0.02564917	1.36E-02	3.37E-03	2.61E-03
2028	565745.9	4222179	0.0262554	1.39E-02	3.45E-03	2.67E-03
2029	565749.6	4222188	0.02682708	1.42E-02	3.52E-03	2.73E-03
2030	565753.3	4222197	0.02736373	1.45E-02	3.59E-03	2.78E-03
2031	565757	4222205	0.02785812	1.48E-02	3.66E-03	2.83E-03
2032	565760.8	4222214	0.02831299	1.50E-02	3.72E-03	2.88E-03
2033	565764.5	4222223	0.02872325	1.52E-02	3.77E-03	2.92E-03
2034	565670.3	4222027	0.01486068	7.88E-03	1.95E-03	1.51E-03
2035	565679.2	4222030	0.0150078	7.96E-03	1.97E-03	1.53E-03
2036	565688	4222034	0.01514307	8.03E-03	1.99E-03	1.54E-03
2037	565700.6	4222046	0.01586236	8.41E-03	2.08E-03	1.61E-03
2038	565704.3	4222055	0.01647493	8.73E-03	2.16E-03	1.67E-03
2039	565715.4	4222082	0.01840181	9.76E-03	2.42E-03	1.87E-03
2040	565719	4222091	0.01906651	1.01E-02	2.50E-03	1.94E-03
2041	565722.7	4222100	0.01973589	1.05E-02	2.59E-03	2.01E-03
2042	565726.4	4222108	0.02040747	1.08E-02	2.68E-03	2.07E-03
2043	565730.1	4222117	0.02107639	1.12E-02	2.77E-03	2.14E-03
2044	565733.8	4222126	0.02174039	1.15E-02	2.86E-03	2.21E-03
2045	565737.5	4222135	0.02240958	1.19E-02	2.94E-03	2.28E-03
2046	565741.2	4222144	0.02306378	1.22E-02	3.03E-03	2.34E-03
2047	565744.9	4222153	0.02369664	1.26E-02	3.11E-03	2.41E-03
2048	565748.5	4222161	0.02430248	1.29E-02	3.19E-03	2.47E-03
2049	565752.2	4222170	0.02487896	1.32E-02	3.27E-03	2.53E-03
2050	565755.9	4222179	0.02542754	1.35E-02	3.34E-03	2.58E-03
2051	565759.6	4222188	0.02594447	1.38E-02	3.41E-03	2.64E-03
2052	565763.3	4222197	0.02642552	1.40E-02	3.47E-03	2.69E-03
2053	565767	4222206	0.02687735	1.43E-02	3.53E-03	2.73E-03
2054	565770.7	4222215	0.0272907	1.45E-02	3.58E-03	2.77E-03
2055	565774.4	4222223	0.02766637	1.47E-02	3.63E-03	2.81E-03
2056	565695.1	4222027	0.01453015	7.70E-03	1.91E-03	1.48E-03
2057	565707.5	4222039	0.01519904	8.06E-03	2.00E-03	1.54E-03
2058	565711.2	4222048	0.01576634	8.36E-03	2.07E-03	1.60E-03
2059	565714.8	4222057	0.01634739	8.67E-03	2.15E-03	1.66E-03
2060	565725.8	4222083	0.01816313	9.63E-03	2.39E-03	1.85E-03
2061	565729.4	4222092	0.01878493	9.96E-03	2.47E-03	1.91E-03
2062	565733.1	4222101	0.01940952	1.03E-02	2.55E-03	1.97E-03
2063	565736.7	4222110	0.02003646	1.06E-02	2.63E-03	2.04E-03
2064	565740.4	4222118	0.02066035	1.10E-02	2.71E-03	2.10E-03
2065	565744	4222127	0.02127739	1.13E-02	2.79E-03	2.16E-03

2066	565747.7	4222136	0.02188948	1.16E-02	2.87E-03	2.22E-03
2067	565751.3	4222145	0.02248588	1.19E-02	2.95E-03	2.29E-03
2068	565755	4222153	0.02306037	1.22E-02	3.03E-03	2.34E-03
2069	565758.7	4222162	0.02361022	1.25E-02	3.10E-03	2.40E-03
2070	565762.3	4222171	0.02413368	1.28E-02	3.17E-03	2.45E-03
2071	565766	4222180	0.02463477	1.31E-02	3.24E-03	2.50E-03
2072	565769.6	4222188	0.0251078	1.33E-02	3.30E-03	2.55E-03
2073	565773.3	4222197	0.02554842	1.35E-02	3.36E-03	2.60E-03
2074	565776.9	4222206	0.02595649	1.38E-02	3.41E-03	2.64E-03
2075	565780.6	4222215	0.02632966	1.40E-02	3.46E-03	2.68E-03
2076	565784.2	4222223	0.02666651	1.41E-02	3.50E-03	2.71E-03
2077	565714.6	4222033	0.01459932	7.74E-03	1.92E-03	1.48E-03
2078	565718.4	4222042	0.01515337	8.03E-03	1.99E-03	1.54E-03
2079	565722.1	4222051	0.0157175	8.33E-03	2.06E-03	1.60E-03
2080	565725.9	4222060	0.01629255	8.64E-03	2.14E-03	1.66E-03
2081	565733.5	4222078	0.01747896	9.27E-03	2.30E-03	1.78E-03
2082	565737.2	4222087	0.01808798	9.59E-03	2.38E-03	1.84E-03
2083	565741	4222096	0.0186988	9.91E-03	2.46E-03	1.90E-03
2084	565744.8	4222105	0.01930912	1.02E-02	2.54E-03	1.96E-03
2085	565756.1	4222132	0.02110676	1.12E-02	2.77E-03	2.15E-03
2086	565759.9	4222142	0.0216813	1.15E-02	2.85E-03	2.20E-03
2087	565763.7	4222151	0.02223612	1.18E-02	2.92E-03	2.26E-03
2088	565767.5	4222160	0.02277123	1.21E-02	2.99E-03	2.31E-03
2089	565771.3	4222169	0.02328219	1.23E-02	3.06E-03	2.37E-03
2090	565775	4222178	0.023767	1.26E-02	3.12E-03	2.42E-03
2091	565778.8	4222187	0.02422144	1.28E-02	3.18E-03	2.46E-03
2092	565782.6	4222196	0.0246452	1.31E-02	3.24E-03	2.50E-03
2093	565786.4	4222205	0.02503474	1.33E-02	3.29E-03	2.54E-03
2094	565790.2	4222214	0.02539024	1.35E-02	3.33E-03	2.58E-03
2095	565793.9	4222223	0.02570856	1.36E-02	3.38E-03	2.61E-03
2096	565721.5	4222026	0.01401298	7.43E-03	1.84E-03	1.42E-03
2097	565725.2	4222035	0.01453122	7.70E-03	1.91E-03	1.48E-03
2098	565729	4222044	0.01505667	7.98E-03	1.98E-03	1.53E-03
2099	565732.7	4222053	0.01559229	8.27E-03	2.05E-03	1.58E-03
2100	565736.4	4222062	0.01613727	8.56E-03	2.12E-03	1.64E-03
2101	565773.9	4222151	0.02166182	1.15E-02	2.84E-03	2.20E-03
2102	565777.6	4222160	0.02215293	1.17E-02	2.91E-03	2.25E-03
2103	565781.4	4222169	0.02261924	1.20E-02	2.97E-03	2.30E-03
2104	565785.1	4222178	0.02305924	1.22E-02	3.03E-03	2.34E-03
2105	565788.8	4222187	0.0234724	1.24E-02	3.08E-03	2.39E-03
2106	565792.6	4222196	0.02385549	1.26E-02	3.13E-03	2.42E-03
2107	565796.3	4222205	0.02420383	1.28E-02	3.18E-03	2.46E-03
2108	565800.1	4222214	0.02451935	1.30E-02	3.22E-03	2.49E-03
2109	565803.8	4222223	0.0247997	1.31E-02	3.26E-03	2.52E-03
2110	565742.9	4222029	0.01384557	7.34E-03	1.82E-03	1.41E-03
2111	565746.6	4222038	0.01431389	7.59E-03	1.88E-03	1.45E-03
2112	565750.3	4222047	0.01479026	7.84E-03	1.94E-03	1.50E-03

2113	565753.9	4222056	0.01527518	8.10E-03	2.01E-03	1.55E-03
2114	565765	4222082	0.01676195	8.89E-03	2.20E-03	1.70E-03
2115	565768.7	4222091	0.01725698	9.15E-03	2.27E-03	1.75E-03
2116	565772.3	4222100	0.01774911	9.41E-03	2.33E-03	1.80E-03
2117	565776	4222109	0.01823532	9.67E-03	2.39E-03	1.85E-03
2118	565779.7	4222117	0.01871398	9.92E-03	2.46E-03	1.90E-03
2119	565783.4	4222126	0.01918104	1.02E-02	2.52E-03	1.95E-03
2120	565787.1	4222135	0.01964452	1.04E-02	2.58E-03	2.00E-03
2121	565790.7	4222144	0.02009585	1.07E-02	2.64E-03	2.04E-03
2122	565809.2	4222188	0.02201955	1.17E-02	2.89E-03	2.24E-03
2123	565812.8	4222197	0.02233012	1.18E-02	2.93E-03	2.27E-03
2124	565816.5	4222206	0.02261348	1.20E-02	2.97E-03	2.30E-03
2125	565820.2	4222214	0.02286951	1.21E-02	3.00E-03	2.32E-03
2126	565823.9	4222223	0.02333267	1.24E-02	3.06E-03	2.37E-03
2127	565761	4222024	0.01325831	7.03E-03	1.74E-03	1.35E-03
2128	565764.8	4222034	0.01369078	7.26E-03	1.80E-03	1.39E-03
2129	565768.5	4222043	0.01413315	7.49E-03	1.86E-03	1.44E-03
2130	565772.3	4222052	0.01458133	7.73E-03	1.91E-03	1.48E-03
2131	565776.1	4222061	0.01503163	7.97E-03	1.97E-03	1.53E-03
2132	565783.6	4222079	0.01593466	8.45E-03	2.09E-03	1.62E-03
2133	565787.3	4222088	0.0163844	8.69E-03	2.15E-03	1.67E-03
2134	565791.1	4222097	0.0168304	8.92E-03	2.21E-03	1.71E-03
2135	565794.9	4222106	0.01700321	9.02E-03	2.23E-03	1.73E-03
2136	565798.6	4222115	0.01746656	9.26E-03	2.29E-03	1.78E-03
2137	565802.4	4222124	0.01791208	9.50E-03	2.35E-03	1.82E-03
2138	565806.2	4222133	0.01837381	9.74E-03	2.41E-03	1.87E-03
2139	565809.9	4222142	0.01883055	9.98E-03	2.47E-03	1.91E-03
2140	565813.7	4222151	0.01932216	1.02E-02	2.54E-03	1.96E-03
2141	565817.5	4222160	0.01968588	1.04E-02	2.59E-03	2.00E-03
2142	565821.2	4222169	0.02002357	1.06E-02	2.63E-03	2.03E-03
2143	565825	4222178	0.02039943	1.08E-02	2.68E-03	2.07E-03
2144	565843.8	4222223	0.02179657	1.16E-02	2.86E-03	2.22E-03
2145	565782.3	4222028	0.01303902	6.91E-03	1.71E-03	1.33E-03
2146	565786	4222036	0.013434	7.12E-03	1.76E-03	1.37E-03
2147	565789.7	4222045	0.01382949	7.33E-03	1.82E-03	1.41E-03
2148	565793.4	4222054	0.01422527	7.54E-03	1.87E-03	1.45E-03
2149	565800.8	4222072	0.01502195	7.96E-03	1.97E-03	1.53E-03
2150	565804.5	4222081	0.01542217	8.18E-03	2.03E-03	1.57E-03
2151	565808.3	4222090	0.0158185	8.39E-03	2.08E-03	1.61E-03
2152	565812	4222099	0.01596661	8.47E-03	2.10E-03	1.62E-03
2153	565815.7	4222108	0.01636148	8.67E-03	2.15E-03	1.66E-03
2154	565819.4	4222116	0.01674258	8.88E-03	2.20E-03	1.70E-03
2155	565823.1	4222125	0.01710717	9.07E-03	2.25E-03	1.74E-03
2156	565826.8	4222134	0.01751922	9.29E-03	2.30E-03	1.78E-03
2157	565830.5	4222143	0.01791506	9.50E-03	2.35E-03	1.82E-03
2158	565834.2	4222152	0.01828788	9.70E-03	2.40E-03	1.86E-03
2159	565837.9	4222161	0.01863008	9.88E-03	2.45E-03	1.89E-03

2160	565841.6	4222170	0.01894585	1.00E-02	2.49E-03	1.93E-03
2161	565845.3	4222179	0.01924319	1.02E-02	2.53E-03	1.96E-03
2162	565849	4222188	0.01952031	1.03E-02	2.56E-03	1.98E-03
2163	565852.7	4222196	0.01977524	1.05E-02	2.60E-03	2.01E-03
2164	565856.4	4222205	0.02001368	1.06E-02	2.63E-03	2.03E-03
2165	565860.1	4222214	0.02023619	1.07E-02	2.66E-03	2.06E-03
2166	565819.5	4222069	0.01433738	7.60E-03	1.88E-03	1.46E-03
2167	565823.3	4222078	0.01470328	7.80E-03	1.93E-03	1.49E-03
2168	565827.1	4222087	0.01482542	7.86E-03	1.95E-03	1.51E-03
2169	565830.9	4222096	0.01520046	8.06E-03	2.00E-03	1.54E-03
2170	565834.6	4222105	0.01555345	8.25E-03	2.04E-03	1.58E-03
2171	565838.4	4222114	0.01590615	8.43E-03	2.09E-03	1.62E-03
2172	565842.2	4222123	0.01625538	8.62E-03	2.13E-03	1.65E-03
2173	565846	4222132	0.01661095	8.81E-03	2.18E-03	1.69E-03
2174	565849.8	4222141	0.01695335	8.99E-03	2.23E-03	1.72E-03
2175	565853.5	4222150	0.01727347	9.16E-03	2.27E-03	1.76E-03
2176	565857.3	4222159	0.01757286	9.32E-03	2.31E-03	1.79E-03
2177	565861.1	4222169	0.0178543	9.47E-03	2.34E-03	1.81E-03
2178	565864.9	4222178	0.01811891	9.61E-03	2.38E-03	1.84E-03
2179	565868.7	4222187	0.01836383	9.74E-03	2.41E-03	1.87E-03
2180	565872.4	4222196	0.01860459	9.86E-03	2.44E-03	1.89E-03
2181	565876.2	4222205	0.01882971	9.98E-03	2.47E-03	1.91E-03
2182	565880	4222214	0.01903779	1.01E-02	2.50E-03	1.93E-03
2183	565883.8	4222223	0.0192128	1.02E-02	2.52E-03	1.95E-03
2184	565862.8	4222125	0.01556279	8.25E-03	2.04E-03	1.58E-03
2185	565866.6	4222134	0.0158569	8.41E-03	2.08E-03	1.61E-03
2186	565870.3	4222143	0.01614058	8.56E-03	2.12E-03	1.64E-03
2187	565874	4222151	0.01640979	8.70E-03	2.16E-03	1.67E-03
2188	565877.7	4222160	0.01666531	8.84E-03	2.19E-03	1.69E-03
2189	565881.5	4222169	0.01690431	8.96E-03	2.22E-03	1.72E-03
2190	565885.2	4222178	0.01713296	9.08E-03	2.25E-03	1.74E-03
2191	565888.9	4222187	0.01735325	9.20E-03	2.28E-03	1.76E-03
2192	565892.7	4222196	0.01756976	9.32E-03	2.31E-03	1.79E-03
2193	565896.4	4222205	0.01776095	9.42E-03	2.33E-03	1.80E-03
2194	565900.1	4222214	0.01792835	9.51E-03	2.35E-03	1.82E-03
2195	565903.8	4222223	0.01806644	9.58E-03	2.37E-03	1.84E-03
2196	565897.2	4222159	0.0158016	8.38E-03	2.08E-03	1.61E-03
2197	565901	4222168	0.01602587	8.50E-03	2.10E-03	1.63E-03
2198	565904.8	4222177	0.01623539	8.61E-03	2.13E-03	1.65E-03
2199	565908.6	4222186	0.01642889	8.71E-03	2.16E-03	1.67E-03
2200	565912.4	4222195	0.0166059	8.80E-03	2.18E-03	1.69E-03
2201	565916.2	4222205	0.01675953	8.89E-03	2.20E-03	1.70E-03
2202	565920	4222214	0.01689334	8.96E-03	2.22E-03	1.72E-03
2203	565923.8	4222223	0.01700956	9.02E-03	2.23E-03	1.73E-03
2204	565932.6	4222196	0.01570642	8.33E-03	2.06E-03	1.60E-03
2205	565936.3	4222205	0.01583334	8.39E-03	2.08E-03	1.61E-03
2206	565940.1	4222214	0.01594432	8.45E-03	2.09E-03	1.62E-03

2207	565943.8	4222223	0.01604195	8.51E-03	2.11E-03	1.63E-03
2208	565921.9	4222122	0.01350667	7.16E-03	1.77E-03	1.37E-03
2209	565929.5	4222044	0.01064543	5.64E-03	1.40E-03	1.08E-03
2210	565933.2	4222053	0.01085178	5.75E-03	1.43E-03	1.10E-03
2211	565936.9	4222062	0.0110491	5.86E-03	1.45E-03	1.12E-03
2212	565940.6	4222071	0.01124711	5.96E-03	1.48E-03	1.14E-03
2213	565944.4	4222080	0.01145021	6.07E-03	1.50E-03	1.16E-03
2214	565944.6	4222033	0.01005284	5.33E-03	1.32E-03	1.02E-03
2215	565948.4	4222042	0.01024416	5.43E-03	1.35E-03	1.04E-03
2216	565952.1	4222051	0.01042921	5.53E-03	1.37E-03	1.06E-03
2217	565955.9	4222060	0.01061611	5.63E-03	1.39E-03	1.08E-03
2218	565959.7	4222069	0.01080342	5.73E-03	1.42E-03	1.10E-03
2219	565963.4	4222078	0.01098395	5.82E-03	1.44E-03	1.12E-03
2220	565967.2	4222087	0.01115165	5.91E-03	1.46E-03	1.13E-03
2221	565971	4222096	0.01130647	5.99E-03	1.48E-03	1.15E-03
2222	565974.8	4222105	0.01147272	6.08E-03	1.51E-03	1.17E-03
2223	565978.5	4222114	0.01163289	6.17E-03	1.53E-03	1.18E-03
2224	565982.3	4222123	0.01178416	6.25E-03	1.55E-03	1.20E-03
2225	566023.8	4222223	0.01285591	6.82E-03	1.69E-03	1.31E-03
2226	565626.9	4221740	0.004862514	2.58E-03	6.39E-04	4.94E-04
2227	565635.9	4221743	0.004921283	2.61E-03	6.46E-04	5.00E-04
2228	565644.9	4221747	0.004980698	2.64E-03	6.54E-04	5.06E-04
2229	565653.8	4221751	0.005039736	2.67E-03	6.62E-04	5.12E-04
2230	565662.8	4221754	0.005098586	2.70E-03	6.70E-04	5.18E-04
2231	565958	4222017	0.009404151	4.99E-03	1.24E-03	9.56E-04
2232	565961.7	4222026	0.009584224	5.08E-03	1.26E-03	9.74E-04
2233	565965.4	4222035	0.009756874	5.17E-03	1.28E-03	9.92E-04
2234	565969.2	4222044	0.00993345	5.27E-03	1.30E-03	1.01E-03
2235	565972.9	4222053	0.01011401	5.36E-03	1.33E-03	1.03E-03
2236	565976.6	4222061	0.0102919	5.46E-03	1.35E-03	1.05E-03
2237	565980.4	4222070	0.01045164	5.54E-03	1.37E-03	1.06E-03
2238	565984.1	4222079	0.01059519	5.62E-03	1.39E-03	1.08E-03
2239	565987.8	4222088	0.01073094	5.69E-03	1.41E-03	1.09E-03
2240	565991.6	4222097	0.01086219	5.76E-03	1.43E-03	1.10E-03
2241	565995.3	4222106	0.01100916	5.84E-03	1.45E-03	1.12E-03
2242	565999	4222115	0.01114832	5.91E-03	1.46E-03	1.13E-03
2243	566002.8	4222124	0.01128092	5.98E-03	1.48E-03	1.15E-03
2244	566006.5	4222133	0.01140548	6.05E-03	1.50E-03	1.16E-03
2245	566010.2	4222142	0.01152143	6.11E-03	1.51E-03	1.17E-03
2246	566014	4222151	0.01162972	6.17E-03	1.53E-03	1.18E-03
2247	566017.7	4222160	0.01172845	6.22E-03	1.54E-03	1.19E-03
2248	566036.4	4222205	0.01208381	6.41E-03	1.59E-03	1.23E-03
2249	566040.1	4222214	0.01211641	6.42E-03	1.59E-03	1.23E-03
2250	566043.8	4222223	0.01216456	6.45E-03	1.60E-03	1.24E-03
2251	565628.5	4221720	0.004598281	2.44E-03	6.04E-04	4.67E-04
2252	565637.6	4221724	0.004653177	2.47E-03	6.11E-04	4.73E-04
2253	565646.7	4221728	0.004707939	2.50E-03	6.18E-04	4.78E-04

2254	565655.8	4221731	0.004762539	2.53E-03	6.25E-04	4.84E-04
2255	565664.9	4221735	0.004816978	2.55E-03	6.33E-04	4.90E-04
2256	565674	4221739	0.004871686	2.58E-03	6.40E-04	4.95E-04
2257	565683.1	4221743	0.004926447	2.61E-03	6.47E-04	5.01E-04
2258	565692.2	4221746	0.004981074	2.64E-03	6.54E-04	5.06E-04
2259	565701.2	4221750	0.005035513	2.67E-03	6.61E-04	5.12E-04
2260	565710.3	4221754	0.005090275	2.70E-03	6.69E-04	5.17E-04
2261	565719.4	4221758	0.005144633	2.73E-03	6.76E-04	5.23E-04
2262	565728.5	4221761	0.005198454	2.76E-03	6.83E-04	5.28E-04
2263	565973	4222005	0.008913878	4.73E-03	1.17E-03	9.06E-04
2264	565976.8	4222014	0.00907741	4.81E-03	1.19E-03	9.23E-04
2265	565980.6	4222023	0.009238978	4.90E-03	1.21E-03	9.39E-04
2266	565984.4	4222032	0.009402833	4.99E-03	1.23E-03	9.56E-04
2267	565988.1	4222041	0.009569297	5.07E-03	1.26E-03	9.72E-04
2268	565991.9	4222050	0.009730676	5.16E-03	1.28E-03	9.89E-04
2269	565995.7	4222059	0.009882669	5.24E-03	1.30E-03	1.00E-03
2270	565999.5	4222068	0.01002342	5.31E-03	1.32E-03	1.02E-03
2271	566003.3	4222077	0.01015414	5.38E-03	1.33E-03	1.03E-03
2272	566007.1	4222086	0.01028566	5.45E-03	1.35E-03	1.05E-03
2273	566010.8	4222095	0.01041202	5.52E-03	1.37E-03	1.06E-03
2274	566014.6	4222105	0.010546	5.59E-03	1.39E-03	1.07E-03
2275	566018.4	4222114	0.01066867	5.66E-03	1.40E-03	1.08E-03
2276	566022.2	4222123	0.01077655	5.71E-03	1.42E-03	1.10E-03
2277	566026	4222132	0.01088175	5.77E-03	1.43E-03	1.11E-03
2278	566029.7	4222141	0.01098594	5.82E-03	1.44E-03	1.12E-03
2279	566033.5	4222150	0.01108317	5.88E-03	1.46E-03	1.13E-03
2280	566037.3	4222159	0.01117029	5.92E-03	1.47E-03	1.14E-03
2281	566041.1	4222168	0.01124181	5.96E-03	1.48E-03	1.14E-03
2282	566052.4	4222195	0.01137113	6.03E-03	1.49E-03	1.16E-03
2283	565627.3	4221700	0.004342171	2.30E-03	5.70E-04	4.41E-04
2284	565636.3	4221703	0.0043915	2.33E-03	5.77E-04	4.46E-04
2285	565645.3	4221707	0.004441823	2.36E-03	5.83E-04	4.51E-04
2286	565654.3	4221711	0.004491878	2.38E-03	5.90E-04	4.56E-04
2287	565663.3	4221715	0.004541744	2.41E-03	5.96E-04	4.62E-04
2288	565672.3	4221718	0.004591557	2.43E-03	6.03E-04	4.67E-04
2289	565681.3	4221722	0.004641128	2.46E-03	6.10E-04	4.72E-04
2290	565690.3	4221726	0.004690698	2.49E-03	6.16E-04	4.77E-04
2291	565699.3	4221729	0.004739973	2.51E-03	6.22E-04	4.82E-04
2292	565708.3	4221733	0.00478992	2.54E-03	6.29E-04	4.87E-04
2293	565717.3	4221737	0.004840647	2.57E-03	6.36E-04	4.92E-04
2294	565726.3	4221740	0.004891105	2.59E-03	6.42E-04	4.97E-04
2295	565753.3	4221752	0.005037907	2.67E-03	6.62E-04	5.12E-04
2296	565762.3	4221755	0.005086052	2.70E-03	6.68E-04	5.17E-04
2297	565771.3	4221759	0.00513366	2.72E-03	6.74E-04	5.22E-04
2298	565780.3	4221763	0.005180917	2.75E-03	6.80E-04	5.27E-04
2299	565789.3	4221766	0.005227448	2.77E-03	6.87E-04	5.31E-04
2300	565798.3	4221770	0.00527328	2.80E-03	6.93E-04	5.36E-04

2301	565807.3	4221774	0.005318467	2.82E-03	6.98E-04	5.40E-04
2302	565986.4	4221989	0.008369597	4.44E-03	1.10E-03	8.51E-04
2303	565990.2	4221998	0.008526808	4.52E-03	1.12E-03	8.67E-04
2304	565993.9	4222007	0.008679098	4.60E-03	1.14E-03	8.82E-04
2305	565997.7	4222016	0.008835878	4.68E-03	1.16E-03	8.98E-04
2306	566001.4	4222025	0.008994918	4.77E-03	1.18E-03	9.14E-04
2307	566005.2	4222034	0.009153796	4.85E-03	1.20E-03	9.30E-04
2308	566008.9	4222043	0.009295973	4.93E-03	1.22E-03	9.45E-04
2309	566012.7	4222052	0.00943371	5.00E-03	1.24E-03	9.59E-04
2310	566016.4	4222061	0.009572497	5.08E-03	1.26E-03	9.73E-04
2311	566020.1	4222070	0.009706738	5.15E-03	1.27E-03	9.86E-04
2312	566023.9	4222079	0.009830732	5.21E-03	1.29E-03	9.99E-04
2313	566027.6	4222088	0.009948486	5.27E-03	1.31E-03	1.01E-03
2314	566031.4	4222097	0.01006072	5.33E-03	1.32E-03	1.02E-03
2315	566035.1	4222106	0.01016366	5.39E-03	1.33E-03	1.03E-03
2316	566038.9	4222115	0.01025293	5.44E-03	1.35E-03	1.04E-03
2317	566042.6	4222124	0.01032593	5.47E-03	1.36E-03	1.05E-03
2318	566046.4	4222133	0.01041302	5.52E-03	1.37E-03	1.06E-03
2319	566050.1	4222142	0.01050293	5.57E-03	1.38E-03	1.07E-03
2320	566053.9	4222151	0.01058623	5.61E-03	1.39E-03	1.08E-03
2321	566065.1	4222178	0.0106989	5.67E-03	1.41E-03	1.09E-03
2322	566068.8	4222187	0.01068258	5.66E-03	1.40E-03	1.09E-03
2323	566072.6	4222196	0.01070396	5.68E-03	1.41E-03	1.09E-03
2324	566076.3	4222205	0.01072873	5.69E-03	1.41E-03	1.09E-03
2325	566080.1	4222214	0.01075751	5.70E-03	1.41E-03	1.09E-03
2326	566083.8	4222222	0.01079971	5.73E-03	1.42E-03	1.10E-03
2327	565510.3	4221632	0.003511198	1.86E-03	4.61E-04	3.57E-04
2328	565519.5	4221635	0.003556869	1.89E-03	4.67E-04	3.61E-04
2329	565628.8	4221680	0.004120274	2.18E-03	5.41E-04	4.19E-04
2330	565637.9	4221684	0.004167612	2.21E-03	5.47E-04	4.24E-04
2331	565647	4221688	0.004214788	2.23E-03	5.54E-04	4.28E-04
2332	565656.1	4221692	0.004261831	2.26E-03	5.60E-04	4.33E-04
2333	565665.2	4221695	0.004308685	2.28E-03	5.66E-04	4.38E-04
2334	565674.3	4221699	0.004355431	2.31E-03	5.72E-04	4.43E-04
2335	565683.4	4221703	0.004402016	2.33E-03	5.78E-04	4.47E-04
2336	565692.5	4221707	0.004448278	2.36E-03	5.84E-04	4.52E-04
2337	565701.6	4221710	0.004494567	2.38E-03	5.90E-04	4.57E-04
2338	565710.7	4221714	0.004541879	2.41E-03	5.96E-04	4.62E-04
2339	565719.9	4221718	0.004589324	2.43E-03	6.03E-04	4.66E-04
2340	565729	4221722	0.004636609	2.46E-03	6.09E-04	4.71E-04
2341	565756.3	4221733	0.004774589	2.53E-03	6.27E-04	4.85E-04
2342	565765.4	4221737	0.004819937	2.56E-03	6.33E-04	4.90E-04
2343	565774.5	4221740	0.004864988	2.58E-03	6.39E-04	4.94E-04
2344	565783.6	4221744	0.004909529	2.60E-03	6.45E-04	4.99E-04
2345	565792.7	4221748	0.004953721	2.63E-03	6.51E-04	5.03E-04
2346	565801.8	4221752	0.00499732	2.65E-03	6.56E-04	5.08E-04
2347	565811	4221755	0.005040301	2.67E-03	6.62E-04	5.12E-04

2348	565820.1	4221759	0.005082502	2.69E-03	6.67E-04	5.17E-04
2349	565829.2	4221763	0.005123896	2.72E-03	6.73E-04	5.21E-04
2350	565838.3	4221767	0.005164349	2.74E-03	6.78E-04	5.25E-04
2351	565847.4	4221770	0.005203832	2.76E-03	6.83E-04	5.29E-04
2352	565997.6	4221968	0.007800706	4.14E-03	1.02E-03	7.93E-04
2353	566001.4	4221977	0.007956761	4.22E-03	1.04E-03	8.09E-04
2354	566005.2	4221986	0.008098829	4.29E-03	1.06E-03	8.23E-04
2355	566009	4221995	0.008240332	4.37E-03	1.08E-03	8.37E-04
2356	566012.8	4222004	0.008384149	4.45E-03	1.10E-03	8.52E-04
2357	566016.6	4222013	0.008532914	4.52E-03	1.12E-03	8.67E-04
2358	566020.4	4222022	0.008676623	4.60E-03	1.14E-03	8.82E-04
2359	566024.2	4222031	0.008813608	4.67E-03	1.16E-03	8.96E-04
2360	566027.9	4222040	0.008947392	4.74E-03	1.18E-03	9.09E-04
2361	566031.7	4222050	0.009086877	4.82E-03	1.19E-03	9.23E-04
2362	566035.5	4222059	0.009224562	4.89E-03	1.21E-03	9.37E-04
2363	566039.3	4222068	0.009351837	4.96E-03	1.23E-03	9.50E-04
2364	566043.1	4222077	0.009464346	5.02E-03	1.24E-03	9.62E-04
2365	566046.9	4222086	0.009576478	5.08E-03	1.26E-03	9.73E-04
2366	566050.7	4222095	0.009688448	5.14E-03	1.27E-03	9.85E-04
2367	566054.5	4222104	0.009772473	5.18E-03	1.28E-03	9.93E-04
2368	566058.3	4222113	0.009837268	5.22E-03	1.29E-03	1.00E-03
2369	566062.1	4222122	0.009884444	5.24E-03	1.30E-03	1.00E-03
2370	566065.9	4222131	0.009944612	5.27E-03	1.31E-03	1.01E-03
2371	566069.7	4222141	0.01000828	5.31E-03	1.31E-03	1.02E-03
2372	566081	4222168	0.01004558	5.33E-03	1.32E-03	1.02E-03
2373	566084.8	4222177	0.01002049	5.31E-03	1.32E-03	1.02E-03
2374	566088.6	4222186	0.009982644	5.29E-03	1.31E-03	1.01E-03
2375	566092.4	4222195	0.01002027	5.31E-03	1.32E-03	1.02E-03
2376	566096.2	4222204	0.0100834	5.35E-03	1.32E-03	1.02E-03
2377	566100	4222213	0.0101518	5.38E-03	1.33E-03	1.03E-03
2378	566103.8	4222222	0.01021417	5.42E-03	1.34E-03	1.04E-03
2379	565501.2	4221628	0.003466227	1.84E-03	4.55E-04	3.52E-04
2380	565491.3	4221628	0.003453182	1.83E-03	4.54E-04	3.51E-04
2381	565481.4	4221628	0.003441429	1.82E-03	4.52E-04	3.50E-04
2382	565238.2	4222232	0.09017283	4.78E-02	1.18E-02	9.16E-03
2383	565236.9	4222248	0.1045448	5.54E-02	1.37E-02	1.06E-02
2384	565239.1	4222266	0.1214495	6.44E-02	1.59E-02	1.23E-02
2385	565240.2	4222275	0.1284813	6.81E-02	1.69E-02	1.31E-02
2386	565241.3	4222284	0.1340768	7.11E-02	1.76E-02	1.36E-02
2387	565242.4	4222293	0.1380667	7.32E-02	1.81E-02	1.40E-02
2388	565243.5	4222302	0.1404304	7.45E-02	1.84E-02	1.43E-02
2389	565228.4	4222233	0.08554937	4.54E-02	1.12E-02	8.69E-03
2390	565233.2	4222217	0.07565005	4.01E-02	9.94E-03	7.69E-03
2391	565227.1	4222249	0.09725219	5.16E-02	1.28E-02	9.88E-03
2392	565228.2	4222258	0.1043017	5.53E-02	1.37E-02	1.06E-02
2393	565229.3	4222267	0.110777	5.87E-02	1.45E-02	1.13E-02
2394	565230.4	4222276	0.1163543	6.17E-02	1.53E-02	1.18E-02

2395	565231.5	4222285	0.1208072	6.41E-02	1.59E-02	1.23E-02
2396	565233.7	4222303	0.1258827	6.67E-02	1.65E-02	1.28E-02
2397	565218.7	4222234	0.08113493	4.30E-02	1.07E-02	8.25E-03
2398	565223.5	4222219	0.07284806	3.86E-02	9.57E-03	7.40E-03
2399	565228.3	4222203	0.06399675	3.39E-02	8.40E-03	6.50E-03
2400	565217.4	4222251	0.09074817	4.81E-02	1.19E-02	9.22E-03
2401	565218.5	4222260	0.09650879	5.12E-02	1.27E-02	9.81E-03
2402	565219.6	4222269	0.1017461	5.39E-02	1.34E-02	1.03E-02
2403	565220.6	4222278	0.1062353	5.63E-02	1.40E-02	1.08E-02
2404	565221.7	4222286	0.1098147	5.82E-02	1.44E-02	1.12E-02
2405	565222.8	4222295	0.1123776	5.96E-02	1.48E-02	1.14E-02
2406	565223.9	4222304	0.1138705	6.04E-02	1.50E-02	1.16E-02
2407	565208.9	4222235	0.07695613	4.08E-02	1.01E-02	7.82E-03
2408	565213.7	4222220	0.07001609	3.71E-02	9.20E-03	7.12E-03
2409	565218.5	4222204	0.06230344	3.30E-02	8.18E-03	6.33E-03
2410	565223.3	4222189	0.05463738	2.90E-02	7.18E-03	5.55E-03
2411	565233	4222178	0.05021317	2.66E-02	6.59E-03	5.10E-03
2412	565207.6	4222252	0.08492588	4.50E-02	1.12E-02	8.63E-03
2413	565208.7	4222261	0.08969092	4.76E-02	1.18E-02	9.11E-03
2414	565210.9	4222279	0.09763767	5.18E-02	1.28E-02	9.92E-03
2415	565212	4222288	0.1005393	5.33E-02	1.32E-02	1.02E-02
2416	565213.1	4222297	0.1026045	5.44E-02	1.35E-02	1.04E-02
2417	565214.2	4222306	0.1037878	5.50E-02	1.36E-02	1.05E-02
2418	565199.1	4222236	0.07303032	3.87E-02	9.59E-03	7.42E-03
2419	565203.9	4222221	0.06721103	3.56E-02	8.83E-03	6.83E-03
2420	565208.7	4222206	0.06051062	3.21E-02	7.95E-03	6.15E-03
2421	565213.5	4222190	0.05362198	2.84E-02	7.04E-03	5.45E-03
2422	565225.7	4222171	0.04633887	2.46E-02	6.09E-03	4.71E-03
2423	565197.8	4222253	0.07967248	4.22E-02	1.05E-02	8.10E-03
2424	565198.9	4222262	0.08365482	4.44E-02	1.10E-02	8.50E-03
2425	565200	4222271	0.08720276	4.62E-02	1.15E-02	8.86E-03
2426	565201.1	4222280	0.09020905	4.78E-02	1.18E-02	9.17E-03
2427	565202.2	4222289	0.09257731	4.91E-02	1.22E-02	9.41E-03
2428	565203.3	4222298	0.09424767	5.00E-02	1.24E-02	9.58E-03
2429	565189.6	4222237	0.06911682	3.66E-02	9.08E-03	7.02E-03
2430	565195	4222220	0.063549	3.37E-02	8.35E-03	6.46E-03
2431	565202.9	4222194	0.05352915	2.84E-02	7.03E-03	5.44E-03
2432	565208.3	4222177	0.04679654	2.48E-02	6.15E-03	4.76E-03
2433	565219.1	4222165	0.04286145	2.27E-02	5.63E-03	4.36E-03
2434	565187	4222245	0.07128593	3.78E-02	9.36E-03	7.24E-03
2435	565189.2	4222263	0.07827452	4.15E-02	1.03E-02	7.95E-03
2436	565190.3	4222272	0.08123401	4.31E-02	1.07E-02	8.26E-03
2437	565191.3	4222281	0.08372233	4.44E-02	1.10E-02	8.51E-03
2438	565192.4	4222290	0.08566666	4.54E-02	1.13E-02	8.71E-03
2439	565193.5	4222299	0.08702186	4.61E-02	1.14E-02	8.84E-03
2440	565194.6	4222308	0.08776189	4.65E-02	1.15E-02	8.92E-03
2441	565179.9	4222238	0.06574301	3.49E-02	8.63E-03	6.68E-03

2442	565185.1	4222221	0.06110662	3.24E-02	8.03E-03	6.21E-03
2443	565190.4	4222204	0.05543696	2.94E-02	7.28E-03	5.63E-03
2444	565195.7	4222187	0.04935191	2.62E-02	6.48E-03	5.02E-03
2445	565200.9	4222170	0.04338153	2.30E-02	5.70E-03	4.41E-03
2446	565211.6	4222158	0.03987073	2.11E-02	5.24E-03	4.05E-03
2447	565227.8	4222151	0.03823189	2.03E-02	5.02E-03	3.89E-03
2448	565178.3	4222255	0.07061389	3.74E-02	9.27E-03	7.18E-03
2449	565179.4	4222264	0.07345152	3.89E-02	9.65E-03	7.46E-03
2450	565180.5	4222273	0.07593701	4.03E-02	9.97E-03	7.72E-03
2451	565181.6	4222282	0.078008	4.14E-02	1.02E-02	7.93E-03
2452	565183.8	4222300	0.08071604	4.28E-02	1.06E-02	8.20E-03
2453	565184.9	4222309	0.08129757	4.31E-02	1.07E-02	8.26E-03
2454	565170.1	4222239	0.06257897	3.32E-02	8.22E-03	6.36E-03
2455	565175.3	4222222	0.05871136	3.11E-02	7.71E-03	5.97E-03
2456	565180.5	4222206	0.05383223	2.85E-02	7.07E-03	5.47E-03
2457	565185.7	4222189	0.04843536	2.57E-02	6.36E-03	4.92E-03
2458	565191	4222172	0.04299123	2.28E-02	5.65E-03	4.37E-03
2459	565204.2	4222152	0.03720732	1.97E-02	4.89E-03	3.78E-03
2460	565220.2	4222144	0.03572356	1.89E-02	4.69E-03	3.63E-03
2461	565171.8	4222283	0.07292552	3.87E-02	9.58E-03	7.41E-03
2462	565172.9	4222292	0.07425508	3.94E-02	9.75E-03	7.55E-03
2463	565174	4222301	0.07515254	3.98E-02	9.87E-03	7.64E-03
2464	565175.1	4222310	0.07560559	4.01E-02	9.93E-03	7.68E-03
2465	565170.7	4222207	0.05218405	2.77E-02	6.85E-03	5.30E-03
2466	565175.8	4222190	0.0474085	2.51E-02	6.23E-03	4.82E-03
2467	565181	4222174	0.04246615	2.25E-02	5.58E-03	4.32E-03
2468	565186.2	4222157	0.03767414	2.00E-02	4.95E-03	3.83E-03
2469	565196.8	4222145	0.03482524	1.85E-02	4.57E-03	3.54E-03
2470	565212.7	4222138	0.03347443	1.77E-02	4.40E-03	3.40E-03
2471	565228.6	4222131	0.03192868	1.69E-02	4.19E-03	3.24E-03
2472	565150.5	4222242	0.05684312	3.01E-02	7.47E-03	5.78E-03
2473	565171.1	4222175	0.04183731	2.22E-02	5.49E-03	4.25E-03
2474	565176.3	4222159	0.03740197	1.98E-02	4.91E-03	3.80E-03
2475	565189.4	4222139	0.03267671	1.73E-02	4.29E-03	3.32E-03
2476	565205.2	4222131	0.03144769	1.67E-02	4.13E-03	3.20E-03
2477	565221	4222124	0.03004315	1.59E-02	3.95E-03	3.05E-03
2478	565149	4222259	0.05977333	3.17E-02	7.85E-03	6.07E-03
2479	565150.1	4222268	0.06154504	3.26E-02	8.08E-03	6.25E-03
2480	565151.2	4222277	0.06306082	3.34E-02	8.28E-03	6.41E-03
2481	565152.3	4222286	0.06428806	3.41E-02	8.44E-03	6.53E-03
2482	565153.4	4222295	0.06520583	3.46E-02	8.56E-03	6.63E-03
2483	565155.6	4222313	0.0660615	3.50E-02	8.68E-03	6.71E-03
2484	565140.7	4222243	0.05424351	2.88E-02	7.12E-03	5.51E-03
2485	565145.9	4222226	0.05198641	2.76E-02	6.83E-03	5.28E-03
2486	565151	4222210	0.04886213	2.59E-02	6.42E-03	4.97E-03
2487	565171.5	4222144	0.03308215	1.75E-02	4.34E-03	3.36E-03
2488	565181.9	4222132	0.03072431	1.63E-02	4.04E-03	3.12E-03

2489	565197.7	4222125	0.02961363	1.57E-02	3.89E-03	3.01E-03
2490	565139.2	4222260	0.05672795	3.01E-02	7.45E-03	5.77E-03
2491	565140.3	4222269	0.05825337	3.09E-02	7.65E-03	5.92E-03
2492	565141.4	4222278	0.05954704	3.16E-02	7.82E-03	6.05E-03
2493	565142.5	4222287	0.06058345	3.21E-02	7.96E-03	6.16E-03
2494	565143.6	4222296	0.06134653	3.25E-02	8.06E-03	6.23E-03
2495	565144.7	4222305	0.06182583	3.28E-02	8.12E-03	6.28E-03
2496	565145.8	4222314	0.06201756	3.29E-02	8.14E-03	6.30E-03
2497	565130.9	4222244	0.05180521	2.75E-02	6.80E-03	5.26E-03
2498	565136.1	4222228	0.04992621	2.65E-02	6.56E-03	5.07E-03
2499	565141.2	4222211	0.04723087	2.50E-02	6.20E-03	4.80E-03
2500	565151.4	4222178	0.04029817	2.14E-02	5.29E-03	4.10E-03
2501	565174.5	4222126	0.02894848	1.53E-02	3.80E-03	2.94E-03
2502	565129.5	4222261	0.05391612	2.86E-02	7.08E-03	5.48E-03
2503	565130.6	4222270	0.05523271	2.93E-02	7.25E-03	5.61E-03
2504	565131.7	4222279	0.05633937	2.99E-02	7.40E-03	5.73E-03
2505	565133.8	4222297	0.05785002	3.07E-02	7.60E-03	5.88E-03
2506	565134.9	4222306	0.05823449	3.09E-02	7.65E-03	5.92E-03
2507	565136	4222315	0.05836706	3.09E-02	7.67E-03	5.93E-03
2508	565121.2	4222245	0.04952252	2.63E-02	6.50E-03	5.03E-03
2509	565126.3	4222229	0.04794054	2.54E-02	6.30E-03	4.87E-03
2510	565131.3	4222213	0.04563611	2.42E-02	5.99E-03	4.64E-03
2511	565141.5	4222180	0.03943726	2.09E-02	5.18E-03	4.01E-03
2512	565146.6	4222164	0.03602846	1.91E-02	4.73E-03	3.66E-03
2513	565151.7	4222147	0.03261016	1.73E-02	4.28E-03	3.31E-03
2514	565214	4222098	0.02420012	1.28E-02	3.18E-03	2.46E-03
2515	565119.7	4222263	0.05131607	2.72E-02	6.74E-03	5.22E-03
2516	565120.8	4222271	0.05245499	2.78E-02	6.89E-03	5.33E-03
2517	565121.9	4222280	0.05340255	2.83E-02	7.01E-03	5.43E-03
2518	565123	4222289	0.05414474	2.87E-02	7.11E-03	5.50E-03
2519	565124.1	4222298	0.05467086	2.90E-02	7.18E-03	5.56E-03
2520	565125.2	4222307	0.05497593	2.91E-02	7.22E-03	5.59E-03
2521	565126.3	4222316	0.05505914	2.92E-02	7.23E-03	5.60E-03
2522	565111.4	4222247	0.04738146	2.51E-02	6.22E-03	4.82E-03
2523	565116.5	4222230	0.04604995	2.44E-02	6.05E-03	4.68E-03
2524	565121.5	4222214	0.0440601	2.34E-02	5.79E-03	4.48E-03
2525	565126.6	4222198	0.04150215	2.20E-02	5.45E-03	4.22E-03
2526	565131.7	4222181	0.03855169	2.04E-02	5.06E-03	3.92E-03
2527	565136.7	4222165	0.03543429	1.88E-02	4.65E-03	3.60E-03
2528	565141.8	4222149	0.03227291	1.71E-02	4.24E-03	3.28E-03
2529	565146.9	4222132	0.0291817	1.55E-02	3.83E-03	2.97E-03
2530	565190.9	4222099	0.02403949	1.27E-02	3.16E-03	2.44E-03
2531	565206.4	4222091	0.02298826	1.22E-02	3.02E-03	2.34E-03
2532	565222	4222084	0.02190341	1.16E-02	2.88E-03	2.23E-03
2533	565109.9	4222264	0.04890021	2.59E-02	6.42E-03	4.97E-03
2534	565111	4222273	0.04988767	2.65E-02	6.55E-03	5.07E-03
2535	565112.1	4222282	0.05070027	2.69E-02	6.66E-03	5.15E-03

2536	565113.2	4222291	0.0513281	2.72E-02	6.74E-03	5.22E-03
2537	565114.3	4222300	0.0517628	2.74E-02	6.80E-03	5.26E-03
2538	565115.4	4222309	0.0520011	2.76E-02	6.83E-03	5.28E-03
2539	565116.5	4222317	0.05204287	2.76E-02	6.83E-03	5.29E-03
2540	565101.8	4222247	0.04534028	2.40E-02	5.95E-03	4.61E-03
2541	565104.4	4222239	0.04482722	2.38E-02	5.89E-03	4.56E-03
2542	565109.8	4222222	0.04325495	2.29E-02	5.68E-03	4.40E-03
2543	565115.1	4222204	0.04107705	2.18E-02	5.39E-03	4.17E-03
2544	565123.2	4222178	0.03693461	1.96E-02	4.85E-03	3.75E-03
2545	565128.5	4222161	0.03387565	1.80E-02	4.45E-03	3.44E-03
2546	565133.9	4222144	0.03076901	1.63E-02	4.04E-03	3.13E-03
2547	565139.2	4222127	0.02775066	1.47E-02	3.64E-03	2.82E-03
2548	565177.4	4222095	0.02317952	1.23E-02	3.04E-03	2.36E-03
2549	565193.9	4222087	0.02218986	1.18E-02	2.91E-03	2.26E-03
2550	565202.1	4222084	0.02166406	1.15E-02	2.85E-03	2.20E-03
2551	565218.5	4222076	0.02060239	1.09E-02	2.71E-03	2.09E-03
2552	565100.2	4222265	0.04664129	2.47E-02	6.13E-03	4.74E-03
2553	565101.3	4222274	0.04750188	2.52E-02	6.24E-03	4.83E-03
2554	565102.4	4222283	0.04820364	2.56E-02	6.33E-03	4.90E-03
2555	565103.4	4222292	0.04873757	2.58E-02	6.40E-03	4.95E-03
2556	565105.6	4222310	0.049278	2.61E-02	6.47E-03	5.01E-03
2557	565106.7	4222319	0.04928483	2.61E-02	6.47E-03	5.01E-03
2558	565092	4222249	0.04342128	2.30E-02	5.70E-03	4.41E-03
2559	565097.3	4222231	0.04244598	2.25E-02	5.57E-03	4.31E-03
2560	565102.6	4222214	0.04081497	2.16E-02	5.36E-03	4.15E-03
2561	565107.9	4222197	0.0386901	2.05E-02	5.08E-03	3.93E-03
2562	565113.3	4222180	0.03614721	1.92E-02	4.75E-03	3.67E-03
2563	565118.6	4222163	0.03336238	1.77E-02	4.38E-03	3.39E-03
2564	565123.9	4222146	0.0304863	1.62E-02	4.00E-03	3.10E-03
2565	565129.2	4222129	0.0276501	1.47E-02	3.63E-03	2.81E-03
2566	565145.4	4222099	0.02330131	1.24E-02	3.06E-03	2.37E-03
2567	565169.9	4222088	0.02204319	1.17E-02	2.89E-03	2.24E-03
2568	565178	4222085	0.02159329	1.14E-02	2.84E-03	2.19E-03
2569	565194.4	4222077	0.02065777	1.10E-02	2.71E-03	2.10E-03
2570	565210.7	4222070	0.01967779	1.04E-02	2.58E-03	2.00E-03
2571	565218.9	4222066	0.01918962	1.02E-02	2.52E-03	1.95E-03
2572	565090.4	4222266	0.0445177	2.36E-02	5.85E-03	4.52E-03
2573	565091.5	4222275	0.04526268	2.40E-02	5.94E-03	4.60E-03
2574	565092.6	4222284	0.04586412	2.43E-02	6.02E-03	4.66E-03
2575	565095.9	4222311	0.04675246	2.48E-02	6.14E-03	4.75E-03
2576	565097	4222320	0.04674213	2.48E-02	6.14E-03	4.75E-03
2577	565092.8	4222216	0.03946559	2.09E-02	5.18E-03	4.01E-03
2578	565095.4	4222207	0.0385932	2.05E-02	5.07E-03	3.92E-03
2579	565106	4222173	0.03409631	1.81E-02	4.48E-03	3.47E-03
2580	565111.3	4222156	0.03148626	1.67E-02	4.14E-03	3.20E-03
2581	565116.6	4222139	0.02881599	1.53E-02	3.78E-03	2.93E-03
2582	565121.9	4222122	0.02619415	1.39E-02	3.44E-03	2.66E-03

2583	565127.2	4222105	0.02370223	1.26E-02	3.11E-03	2.41E-03
2584	565138	4222093	0.02217407	1.18E-02	2.91E-03	2.25E-03
2585	565146.1	4222089	0.02180228	1.16E-02	2.86E-03	2.22E-03
2586	565170.5	4222078	0.02057912	1.09E-02	2.70E-03	2.09E-03
2587	565186.7	4222071	0.01971485	1.05E-02	2.59E-03	2.00E-03
2588	565194.8	4222067	0.01927168	1.02E-02	2.53E-03	1.96E-03
2589	565211.1	4222060	0.01836507	9.74E-03	2.41E-03	1.87E-03
2590	565219.2	4222056	0.01791705	9.50E-03	2.35E-03	1.82E-03
2591	565086.1	4222312	0.04442108	2.36E-02	5.83E-03	4.51E-03
2592	565087.2	4222321	0.04439572	2.35E-02	5.83E-03	4.51E-03
2593	565072.4	4222251	0.03991877	2.12E-02	5.24E-03	4.06E-03
2594	565093.5	4222183	0.03451456	1.83E-02	4.53E-03	3.51E-03
2595	565098.8	4222166	0.03221836	1.71E-02	4.23E-03	3.27E-03
2596	565104	4222149	0.02977154	1.58E-02	3.91E-03	3.03E-03
2597	565109.3	4222132	0.02728702	1.45E-02	3.58E-03	2.77E-03
2598	565119.8	4222099	0.02255124	1.20E-02	2.96E-03	2.29E-03
2599	565130.5	4222086	0.02113266	1.12E-02	2.78E-03	2.15E-03
2600	565138.6	4222083	0.02078572	1.10E-02	2.73E-03	2.11E-03
2601	565171	4222068	0.01924118	1.02E-02	2.53E-03	1.96E-03
2602	565187.1	4222061	0.01842812	9.77E-03	2.42E-03	1.87E-03
2603	565195.2	4222057	0.01801539	9.55E-03	2.37E-03	1.83E-03
2604	565211.4	4222050	0.01717788	9.11E-03	2.26E-03	1.75E-03
2605	565219.5	4222046	0.01676736	8.89E-03	2.20E-03	1.70E-03
2606	565070.9	4222268	0.04069006	2.16E-02	5.34E-03	4.14E-03
2607	565072	4222277	0.04124642	2.19E-02	5.42E-03	4.19E-03
2608	565073.1	4222286	0.04168252	2.21E-02	5.47E-03	4.24E-03
2609	565076.3	4222313	0.04227048	2.24E-02	5.55E-03	4.30E-03
2610	565062.6	4222252	0.03834771	2.03E-02	5.04E-03	3.90E-03
2611	565067.9	4222235	0.03786886	2.01E-02	4.97E-03	3.85E-03
2612	565073.1	4222219	0.0369025	1.96E-02	4.85E-03	3.75E-03
2613	565083.6	4222185	0.03368453	1.79E-02	4.42E-03	3.42E-03
2614	565088.9	4222168	0.03160461	1.68E-02	4.15E-03	3.21E-03
2615	565094.1	4222151	0.02935535	1.56E-02	3.86E-03	2.98E-03
2616	565099.4	4222134	0.02703868	1.43E-02	3.55E-03	2.75E-03
2617	565109.8	4222100	0.02254153	1.20E-02	2.96E-03	2.29E-03
2618	565123.1	4222080	0.02016804	1.07E-02	2.65E-03	2.05E-03
2619	565131.2	4222076	0.01984261	1.05E-02	2.61E-03	2.02E-03
2620	565147.3	4222069	0.01914333	1.01E-02	2.51E-03	1.95E-03
2621	565179.5	4222054	0.01764109	9.35E-03	2.32E-03	1.79E-03
2622	565195.6	4222047	0.01687432	8.95E-03	2.22E-03	1.71E-03
2623	565211.7	4222040	0.0161033	8.54E-03	2.11E-03	1.64E-03
2624	565061.1	4222270	0.03898989	2.07E-02	5.12E-03	3.96E-03
2625	565062.2	4222279	0.03947239	2.09E-02	5.18E-03	4.01E-03
2626	565063.3	4222288	0.03984462	2.11E-02	5.23E-03	4.05E-03
2627	565064.4	4222297	0.0401028	2.13E-02	5.27E-03	4.08E-03
2628	565065.5	4222305	0.0402457	2.13E-02	5.29E-03	4.09E-03
2629	565066.6	4222314	0.04029635	2.14E-02	5.29E-03	4.10E-03

2630	565067.7	4222323	0.04023672	2.13E-02	5.28E-03	4.09E-03
2631	565052.9	4222254	0.03686363	1.95E-02	4.84E-03	3.75E-03
2632	565058.1	4222237	0.03650123	1.94E-02	4.79E-03	3.71E-03
2633	565063.3	4222220	0.03568755	1.89E-02	4.69E-03	3.63E-03
2634	565068.5	4222203	0.03445145	1.83E-02	4.52E-03	3.50E-03
2635	565079	4222169	0.03097372	1.64E-02	4.07E-03	3.15E-03
2636	565084.2	4222153	0.02890835	1.53E-02	3.80E-03	2.94E-03
2637	565089.4	4222136	0.02675376	1.42E-02	3.51E-03	2.72E-03
2638	565099.9	4222102	0.02249352	1.19E-02	2.95E-03	2.29E-03
2639	565105.1	4222085	0.02050411	1.09E-02	2.69E-03	2.08E-03
2640	565115.7	4222073	0.01927275	1.02E-02	2.53E-03	1.96E-03
2641	565131.8	4222066	0.01864751	9.89E-03	2.45E-03	1.90E-03
2642	565147.8	4222059	0.01797039	9.53E-03	2.36E-03	1.83E-03
2643	565179.9	4222044	0.016551	8.78E-03	2.17E-03	1.68E-03
2644	565195.9	4222037	0.01583864	8.40E-03	2.08E-03	1.61E-03
2645	565212	4222030	0.01512569	8.02E-03	1.99E-03	1.54E-03
2646	565051.3	4222271	0.03739301	1.98E-02	4.91E-03	3.80E-03
2647	565052.4	4222280	0.03781082	2.00E-02	4.97E-03	3.84E-03
2648	565053.5	4222289	0.03812734	2.02E-02	5.01E-03	3.87E-03
2649	565055.7	4222307	0.03844706	2.04E-02	5.05E-03	3.91E-03
2650	565056.8	4222316	0.03846366	2.04E-02	5.05E-03	3.91E-03
2651	565057.9	4222325	0.03837799	2.03E-02	5.04E-03	3.90E-03
2652	565043.1	4222255	0.03546253	1.88E-02	4.66E-03	3.60E-03
2653	565048.3	4222238	0.03519677	1.87E-02	4.62E-03	3.58E-03
2654	565053.5	4222221	0.03451921	1.83E-02	4.53E-03	3.51E-03
2655	565058.7	4222204	0.03344732	1.77E-02	4.39E-03	3.40E-03
2656	565069.1	4222171	0.03032946	1.61E-02	3.98E-03	3.08E-03
2657	565074.3	4222154	0.02843674	1.51E-02	3.73E-03	2.89E-03
2658	565079.5	4222137	0.02643628	1.40E-02	3.47E-03	2.69E-03
2659	565095.1	4222087	0.02050241	1.09E-02	2.69E-03	2.08E-03
2660	565108.3	4222067	0.01843984	9.78E-03	2.42E-03	1.87E-03
2661	565124.3	4222060	0.01785371	9.47E-03	2.34E-03	1.81E-03
2662	565140.3	4222052	0.01722005	9.13E-03	2.26E-03	1.75E-03
2663	565172.3	4222038	0.01588754	8.42E-03	2.09E-03	1.61E-03
2664	565188.2	4222031	0.01522029	8.07E-03	2.00E-03	1.55E-03
2665	565204.2	4222024	0.01455796	7.72E-03	1.91E-03	1.48E-03
2666	565041.6	4222272	0.03589255	1.90E-02	4.71E-03	3.65E-03
2667	565042.7	4222281	0.03625369	1.92E-02	4.76E-03	3.68E-03
2668	565043.8	4222290	0.03652151	1.94E-02	4.80E-03	3.71E-03
2669	565044.8	4222299	0.03669405	1.95E-02	4.82E-03	3.73E-03
2670	565045.9	4222308	0.03677073	1.95E-02	4.83E-03	3.74E-03
2671	565047	4222317	0.03675558	1.95E-02	4.83E-03	3.74E-03
2672	565048.1	4222326	0.03664851	1.94E-02	4.81E-03	3.72E-03
2673	565033.3	4222256	0.03413577	1.81E-02	4.48E-03	3.47E-03
2674	565038.5	4222239	0.0339551	1.80E-02	4.46E-03	3.45E-03
2675	565043.7	4222223	0.03339544	1.77E-02	4.39E-03	3.39E-03
2676	565048.9	4222206	0.03246732	1.72E-02	4.26E-03	3.30E-03

2677	565059.3	4222172	0.02967924	1.57E-02	3.90E-03	3.02E-03
2678	565064.4	4222156	0.0279466	1.48E-02	3.67E-03	2.84E-03
2679	565069.6	4222139	0.02609318	1.38E-02	3.43E-03	2.65E-03
2680	565074.8	4222122	0.02419003	1.28E-02	3.18E-03	2.46E-03
2681	565090.4	4222072	0.01874017	9.94E-03	2.46E-03	1.90E-03
2682	565100.9	4222060	0.01766353	9.37E-03	2.32E-03	1.80E-03
2683	565116.9	4222053	0.01711225	9.07E-03	2.25E-03	1.74E-03
2684	565132.8	4222046	0.01651934	8.76E-03	2.17E-03	1.68E-03
2685	565148.7	4222039	0.01589787	8.43E-03	2.09E-03	1.62E-03
2686	565180.6	4222024	0.01463999	7.76E-03	1.92E-03	1.49E-03
2687	565196.5	4222017	0.01402005	7.43E-03	1.84E-03	1.42E-03
2688	565212.4	4222010	0.01342501	7.12E-03	1.76E-03	1.36E-03
2689	565031.8	4222273	0.03448225	1.83E-02	4.53E-03	3.50E-03
2690	565032.9	4222282	0.03479358	1.84E-02	4.57E-03	3.54E-03
2691	565034	4222291	0.03501892	1.86E-02	4.60E-03	3.56E-03
2692	565035.1	4222300	0.03515674	1.86E-02	4.62E-03	3.57E-03
2693	565036.2	4222309	0.03520688	1.87E-02	4.62E-03	3.58E-03
2694	565037.3	4222318	0.03516973	1.86E-02	4.62E-03	3.57E-03
2695	565038.4	4222327	0.03504703	1.86E-02	4.60E-03	3.56E-03
2696	565023.5	4222257	0.03288061	1.74E-02	4.32E-03	3.34E-03
2697	565028.7	4222241	0.03277241	1.74E-02	4.30E-03	3.33E-03
2698	565033.9	4222224	0.03231524	1.71E-02	4.24E-03	3.28E-03
2699	565039.1	4222207	0.03151606	1.67E-02	4.14E-03	3.20E-03
2700	565049.4	4222174	0.02902465	1.54E-02	3.81E-03	2.95E-03
2701	565054.6	4222157	0.02744332	1.46E-02	3.60E-03	2.79E-03
2702	565059.7	4222141	0.02572879	1.36E-02	3.38E-03	2.61E-03
2703	565064.9	4222124	0.02394731	1.27E-02	3.14E-03	2.43E-03
2704	565075.3	4222091	0.02041226	1.08E-02	2.68E-03	2.07E-03
2705	565093.5	4222054	0.01693761	8.98E-03	2.22E-03	1.72E-03
2706	565109.4	4222047	0.01641955	8.71E-03	2.16E-03	1.67E-03
2707	565125.3	4222040	0.01586295	8.41E-03	2.08E-03	1.61E-03
2708	565141.2	4222032	0.01528131	8.10E-03	2.01E-03	1.55E-03
2709	565172.9	4222018	0.0140966	7.47E-03	1.85E-03	1.43E-03
2710	565188.8	4222011	0.01351305	7.16E-03	1.77E-03	1.37E-03
2711	565204.7	4222004	0.01295365	6.87E-03	1.70E-03	1.32E-03
2712	565022	4222274	0.03315197	1.76E-02	4.35E-03	3.37E-03
2713	565023.1	4222283	0.03341959	1.77E-02	4.39E-03	3.40E-03
2714	565024.2	4222292	0.03360765	1.78E-02	4.41E-03	3.42E-03
2715	565025.3	4222301	0.03371527	1.79E-02	4.43E-03	3.43E-03
2716	565027.5	4222319	0.03368964	1.79E-02	4.42E-03	3.42E-03
2717	565028.6	4222328	0.0335587	1.78E-02	4.41E-03	3.41E-03
2718	565013.8	4222258	0.03169011	1.68E-02	4.16E-03	3.22E-03
2719	565018.9	4222242	0.03164487	1.68E-02	4.16E-03	3.22E-03
2720	565024.1	4222225	0.03127867	1.66E-02	4.11E-03	3.18E-03
2721	565029.2	4222209	0.03059208	1.62E-02	4.02E-03	3.11E-03
2722	565039.6	4222175	0.02837179	1.50E-02	3.73E-03	2.88E-03
2723	565044.7	4222159	0.02692806	1.43E-02	3.54E-03	2.74E-03

2724	565049.9	4222142	0.02534427	1.34E-02	3.33E-03	2.58E-03
2725	565055	4222126	0.02368012	1.26E-02	3.11E-03	2.41E-03
2726	565065.3	4222092	0.02032872	1.08E-02	2.67E-03	2.07E-03
2727	565070.5	4222076	0.01872562	9.93E-03	2.46E-03	1.90E-03
2728	565075.6	4222059	0.01720911	9.12E-03	2.26E-03	1.75E-03
2729	565102	4222040	0.01577022	8.36E-03	2.07E-03	1.60E-03
2730	565117.8	4222033	0.01524699	8.08E-03	2.00E-03	1.55E-03
2731	565133.6	4222026	0.01470107	7.79E-03	1.93E-03	1.49E-03
2732	565149.5	4222019	0.01414466	7.50E-03	1.86E-03	1.44E-03
2733	565181.1	4222004	0.01303821	6.91E-03	1.71E-03	1.33E-03
2734	565197	4221997	0.0125087	6.63E-03	1.64E-03	1.27E-03
2735	565012.3	4222276	0.03189735	1.69E-02	4.19E-03	3.24E-03
2736	565013.4	4222285	0.03212618	1.70E-02	4.22E-03	3.26E-03
2737	565014.5	4222294	0.03228157	1.71E-02	4.24E-03	3.28E-03
2738	565015.5	4222302	0.03236282	1.72E-02	4.25E-03	3.29E-03
2739	565016.6	4222311	0.03237011	1.72E-02	4.25E-03	3.29E-03
2740	565004.1	4222259	0.03056521	1.62E-02	4.01E-03	3.11E-03
2741	565006.8	4222251	0.03060273	1.62E-02	4.02E-03	3.11E-03
2742	565012.1	4222233	0.03044076	1.61E-02	4.00E-03	3.09E-03
2743	565017.4	4222216	0.02995708	1.59E-02	3.93E-03	3.04E-03
2744	565033.5	4222165	0.02677714	1.42E-02	3.52E-03	2.72E-03
2745	565038.8	4222148	0.02529311	1.34E-02	3.32E-03	2.57E-03
2746	565044.1	4222130	0.02369612	1.26E-02	3.11E-03	2.41E-03
2747	565054.8	4222096	0.02040225	1.08E-02	2.68E-03	2.07E-03
2748	565060.2	4222079	0.01880023	9.97E-03	2.47E-03	1.91E-03
2749	565062.8	4222070	0.01802496	9.56E-03	2.37E-03	1.83E-03
2750	565068.2	4222053	0.01654352	8.77E-03	2.17E-03	1.68E-03
2751	565095.4	4222033	0.01513392	8.02E-03	1.99E-03	1.54E-03
2752	565103.6	4222030	0.01488117	7.89E-03	1.95E-03	1.51E-03
2753	565120	4222022	0.01435526	7.61E-03	1.89E-03	1.46E-03
2754	565136.4	4222015	0.01381467	7.32E-03	1.81E-03	1.40E-03
2755	565152.8	4222007	0.01326896	7.04E-03	1.74E-03	1.35E-03
2756	565177.4	4221996	0.0124648	6.61E-03	1.64E-03	1.27E-03
2757	565193.8	4221989	0.01194979	6.34E-03	1.57E-03	1.21E-03
2758	565202	4221985	0.01170575	6.21E-03	1.54E-03	1.19E-03
2759	565002.5	4222277	0.03071371	1.63E-02	4.03E-03	3.12E-03
2760	565003.6	4222286	0.03090836	1.64E-02	4.06E-03	3.14E-03
2761	565005.8	4222304	0.03109333	1.65E-02	4.08E-03	3.16E-03
2762	565006.9	4222313	0.03108327	1.65E-02	4.08E-03	3.16E-03
2763	564994.3	4222260	0.02949483	1.56E-02	3.87E-03	3.00E-03
2764	564999.6	4222243	0.02954034	1.57E-02	3.88E-03	3.00E-03
2765	565005	4222226	0.02929227	1.55E-02	3.85E-03	2.98E-03
2766	565015.6	4222192	0.0279228	1.48E-02	3.67E-03	2.84E-03
2767	565020.9	4222175	0.02684793	1.42E-02	3.53E-03	2.73E-03
2768	565026.2	4222158	0.02556934	1.36E-02	3.36E-03	2.60E-03
2769	565028.9	4222149	0.02487065	1.32E-02	3.27E-03	2.53E-03
2770	565034.2	4222132	0.02339023	1.24E-02	3.07E-03	2.38E-03

2771	565044.9	4222098	0.02028689	1.08E-02	2.66E-03	2.06E-03
2772	565050.2	4222081	0.01875553	9.94E-03	2.46E-03	1.91E-03
2773	565055.5	4222064	0.01728326	9.16E-03	2.27E-03	1.76E-03
2774	565060.8	4222046	0.0158923	8.43E-03	2.09E-03	1.62E-03
2775	565071.6	4222034	0.01501926	7.96E-03	1.97E-03	1.53E-03
2776	565096.1	4222023	0.01432673	7.60E-03	1.88E-03	1.46E-03
2777	565112.5	4222016	0.0138322	7.33E-03	1.82E-03	1.41E-03
2778	565120.7	4222012	0.01357935	7.20E-03	1.78E-03	1.38E-03
2779	565137	4222005	0.01306726	6.93E-03	1.72E-03	1.33E-03
2780	565153.3	4221997	0.01255644	6.66E-03	1.65E-03	1.28E-03
2781	565177.8	4221986	0.01180866	6.26E-03	1.55E-03	1.20E-03
2782	565194.2	4221979	0.01133235	6.01E-03	1.49E-03	1.15E-03
2783	565202.3	4221975	0.01110757	5.89E-03	1.46E-03	1.13E-03
2784	564992.7	4222278	0.02959341	1.57E-02	3.89E-03	3.01E-03
2785	564993.8	4222287	0.02975783	1.58E-02	3.91E-03	3.02E-03
2786	564994.9	4222296	0.02985909	1.58E-02	3.92E-03	3.03E-03
2787	564996	4222305	0.02989729	1.59E-02	3.93E-03	3.04E-03
2788	564984.5	4222262	0.02847878	1.51E-02	3.74E-03	2.89E-03
2789	564989.8	4222245	0.02856614	1.51E-02	3.75E-03	2.90E-03
2790	565005.7	4222193	0.02720251	1.44E-02	3.57E-03	2.76E-03
2791	565011	4222176	0.02624058	1.39E-02	3.45E-03	2.67E-03
2792	565016.3	4222159	0.02507851	1.33E-02	3.29E-03	2.55E-03
2793	565021.6	4222142	0.02376522	1.26E-02	3.12E-03	2.42E-03
2794	565026.9	4222125	0.02235067	1.19E-02	2.94E-03	2.27E-03
2795	565037.6	4222091	0.01941471	1.03E-02	2.55E-03	1.97E-03
2796	565042.9	4222074	0.01797319	9.53E-03	2.36E-03	1.83E-03
2797	565048.2	4222057	0.01658895	8.80E-03	2.18E-03	1.69E-03
2798	565053.5	4222040	0.01528126	8.10E-03	2.01E-03	1.55E-03
2799	565064.2	4222028	0.0144583	7.67E-03	1.90E-03	1.47E-03
2800	565104.9	4222009	0.0133394	7.07E-03	1.75E-03	1.36E-03
2801	565113.1	4222006	0.01310113	6.95E-03	1.72E-03	1.33E-03
2802	565129.4	4221998	0.01261927	6.69E-03	1.66E-03	1.28E-03
2803	565137.5	4221995	0.01237793	6.56E-03	1.63E-03	1.26E-03
2804	565170	4221980	0.01143227	6.06E-03	1.50E-03	1.16E-03
2805	565178.2	4221976	0.01120467	5.94E-03	1.47E-03	1.14E-03
2806	565194.5	4221969	0.0107645	5.71E-03	1.41E-03	1.09E-03
2807	565202.6	4221965	0.01055535	5.60E-03	1.39E-03	1.07E-03
2808	564983	4222279	0.02853309	1.51E-02	3.75E-03	2.90E-03
2809	564984.1	4222288	0.02867069	1.52E-02	3.77E-03	2.91E-03
2810	564987.3	4222315	0.0287325	1.52E-02	3.77E-03	2.92E-03
2811	564988.4	4222324	0.02863804	1.52E-02	3.76E-03	2.91E-03
2812	564989.5	4222333	0.02848752	1.51E-02	3.74E-03	2.90E-03
2813	564975.2	4222230	0.02664279	1.41E-02	3.50E-03	2.71E-03
2814	564985.8	4222196	0.02578506	1.37E-02	3.39E-03	2.62E-03
2815	564991	4222179	0.02502073	1.33E-02	3.29E-03	2.54E-03
2816	564996.3	4222162	0.02406695	1.28E-02	3.16E-03	2.45E-03
2817	565001.6	4222145	0.02295857	1.22E-02	3.02E-03	2.33E-03

2818	565006.9	4222128	0.02173974	1.15E-02	2.86E-03	2.21E-03
2819	565017.4	4222095	0.0191319	1.01E-02	2.51E-03	1.94E-03
2820	565022.7	4222078	0.01781907	9.45E-03	2.34E-03	1.81E-03
2821	565027.9	4222061	0.01653793	8.77E-03	2.17E-03	1.68E-03
2822	565033.2	4222044	0.01531093	8.12E-03	2.01E-03	1.56E-03
2823	565038.5	4222027	0.01414956	7.50E-03	1.86E-03	1.44E-03
2824	565049.2	4222015	0.0134177	7.11E-03	1.76E-03	1.36E-03
2825	565065.4	4222007	0.01303334	6.91E-03	1.71E-03	1.32E-03
2826	565089.7	4221996	0.01241467	6.58E-03	1.63E-03	1.26E-03
2827	565105.9	4221989	0.01199182	6.36E-03	1.57E-03	1.22E-03
2828	565114	4221985	0.01177706	6.24E-03	1.55E-03	1.20E-03
2829	565130.2	4221978	0.01134838	6.02E-03	1.49E-03	1.15E-03
2830	565138.2	4221974	0.011136	5.90E-03	1.46E-03	1.13E-03
2831	565170.6	4221960	0.01031581	5.47E-03	1.35E-03	1.05E-03
2832	565186.8	4221952	0.009929416	5.26E-03	1.30E-03	1.01E-03
2833	565194.9	4221949	0.009743345	5.17E-03	1.28E-03	9.90E-04
2834	564964.2	4222291	0.02663841	1.41E-02	3.50E-03	2.71E-03
2835	564965.3	4222300	0.02667993	1.41E-02	3.50E-03	2.71E-03
2836	564966.4	4222308	0.02666931	1.41E-02	3.50E-03	2.71E-03
2837	564967.5	4222317	0.02660277	1.41E-02	3.49E-03	2.70E-03
2838	564968.6	4222326	0.0264883	1.40E-02	3.48E-03	2.69E-03
2839	564969.7	4222335	0.0263282	1.40E-02	3.46E-03	2.68E-03
2840	564950.1	4222250	0.02503302	1.33E-02	3.29E-03	2.54E-03
2841	564955.3	4222233	0.02504091	1.33E-02	3.29E-03	2.54E-03
2842	564960.5	4222216	0.02484281	1.32E-02	3.26E-03	2.52E-03
2843	564971	4222182	0.02383946	1.26E-02	3.13E-03	2.42E-03
2844	564976.3	4222165	0.02306058	1.22E-02	3.03E-03	2.34E-03
2845	564981.5	4222148	0.02213241	1.17E-02	2.91E-03	2.25E-03
2846	564986.8	4222132	0.02108704	1.12E-02	2.77E-03	2.14E-03
2847	564997.3	4222098	0.01878574	9.96E-03	2.47E-03	1.91E-03
2848	565013	4222047	0.0152776	8.10E-03	2.01E-03	1.55E-03
2849	565018.3	4222030	0.01417957	7.52E-03	1.86E-03	1.44E-03
2850	565023.5	4222013	0.01313945	6.97E-03	1.73E-03	1.34E-03
2851	565034.2	4222001	0.01248441	6.62E-03	1.64E-03	1.27E-03
2852	565042.2	4221998	0.0123162	6.53E-03	1.62E-03	1.25E-03
2853	565058.4	4221990	0.01195686	6.34E-03	1.57E-03	1.22E-03
2854	565074.5	4221983	0.01158127	6.14E-03	1.52E-03	1.18E-03
2855	565090.6	4221976	0.01120644	5.94E-03	1.47E-03	1.14E-03
2856	565098.6	4221972	0.01101908	5.84E-03	1.45E-03	1.12E-03
2857	565114.7	4221965	0.01063787	5.64E-03	1.40E-03	1.08E-03
2858	565122.8	4221961	0.01044777	5.54E-03	1.37E-03	1.06E-03
2859	565138.9	4221954	0.01007364	5.34E-03	1.32E-03	1.02E-03
2860	565171.1	4221939	0.009362058	4.96E-03	1.23E-03	9.51E-04
2861	565179.2	4221936	0.009193819	4.87E-03	1.21E-03	9.34E-04
2862	564944.4	4222293	0.02480803	1.32E-02	3.26E-03	2.52E-03
2863	564945.5	4222302	0.02481785	1.32E-02	3.26E-03	2.52E-03
2864	564946.5	4222311	0.02478146	1.31E-02	3.25E-03	2.52E-03

2865	564947.6	4222320	0.02469795	1.31E-02	3.24E-03	2.51E-03
2866	564948.7	4222329	0.0245715	1.30E-02	3.23E-03	2.50E-03
2867	564924.9	4222269	0.02325645	1.23E-02	3.05E-03	2.36E-03
2868	564930.2	4222252	0.02349413	1.25E-02	3.09E-03	2.39E-03
2869	564935.4	4222235	0.02356479	1.25E-02	3.09E-03	2.39E-03
2870	564940.6	4222219	0.02345672	1.24E-02	3.08E-03	2.38E-03
2871	564945.8	4222202	0.02316328	1.23E-02	3.04E-03	2.35E-03
2872	564956.3	4222168	0.02207385	1.17E-02	2.90E-03	2.24E-03
2873	564961.5	4222151	0.02130073	1.13E-02	2.80E-03	2.16E-03
2874	564966.7	4222135	0.02040809	1.08E-02	2.68E-03	2.07E-03
2875	564977.2	4222101	0.01838839	9.75E-03	2.41E-03	1.87E-03
2876	564982.4	4222084	0.01731952	9.18E-03	2.27E-03	1.76E-03
2877	564987.6	4222067	0.01624564	8.61E-03	2.13E-03	1.65E-03
2878	564992.9	4222051	0.01518734	8.05E-03	1.99E-03	1.54E-03
2879	564998.1	4222034	0.0141608	7.51E-03	1.86E-03	1.44E-03
2880	565019.2	4221988	0.01165016	6.18E-03	1.53E-03	1.18E-03
2881	565035.2	4221981	0.01133781	6.01E-03	1.49E-03	1.15E-03
2882	565043.2	4221977	0.01117435	5.92E-03	1.47E-03	1.14E-03
2883	565059.3	4221970	0.01083955	5.75E-03	1.42E-03	1.10E-03
2884	565075.3	4221963	0.0104986	5.57E-03	1.38E-03	1.07E-03
2885	565091.4	4221955	0.01016226	5.39E-03	1.33E-03	1.03E-03
2886	565107.4	4221948	0.009824358	5.21E-03	1.29E-03	9.98E-04
2887	565123.4	4221941	0.009487208	5.03E-03	1.25E-03	9.64E-04
2888	565139.5	4221934	0.009159579	4.86E-03	1.20E-03	9.31E-04
2889	565155.5	4221926	0.008844055	4.69E-03	1.16E-03	8.99E-04
2890	565171.6	4221919	0.008541871	4.53E-03	1.12E-03	8.68E-04
2891	564923.4	4222286	0.02313178	1.23E-02	3.04E-03	2.35E-03
2892	564926.7	4222313	0.02307731	1.22E-02	3.03E-03	2.35E-03
2893	564928.9	4222331	0.02287107	1.21E-02	3.00E-03	2.32E-03
2894	564930	4222340	0.02270913	1.20E-02	2.98E-03	2.31E-03
2895	564905.2	4222271	0.02180766	1.16E-02	2.86E-03	2.22E-03
2896	564907.8	4222263	0.02196126	1.16E-02	2.88E-03	2.23E-03
2897	564913.2	4222245	0.02215844	1.17E-02	2.91E-03	2.25E-03
2898	564918.5	4222228	0.02219572	1.18E-02	2.91E-03	2.26E-03
2899	564923.9	4222211	0.02205981	1.17E-02	2.90E-03	2.24E-03
2900	564929.2	4222194	0.02174162	1.15E-02	2.86E-03	2.21E-03
2901	564931.9	4222185	0.02152379	1.14E-02	2.83E-03	2.19E-03
2902	564937.3	4222168	0.0209875	1.11E-02	2.76E-03	2.13E-03
2903	564942.6	4222151	0.02030959	1.08E-02	2.67E-03	2.06E-03
2904	564948	4222133	0.01951364	1.03E-02	2.56E-03	1.98E-03
2905	564958.7	4222099	0.01766898	9.37E-03	2.32E-03	1.80E-03
2906	564964	4222082	0.01667695	8.84E-03	2.19E-03	1.69E-03
2907	564966.7	4222073	0.01617463	8.58E-03	2.12E-03	1.64E-03
2908	564972.1	4222056	0.01517314	8.04E-03	1.99E-03	1.54E-03
2909	564977.4	4222039	0.01418877	7.52E-03	1.86E-03	1.44E-03
2910	564982.8	4222022	0.0132284	7.01E-03	1.74E-03	1.34E-03
2911	564988.1	4222004	0.01231052	6.53E-03	1.62E-03	1.25E-03

2912	564990.8	4221996	0.01187509	6.30E-03	1.56E-03	1.21E-03
2913	565020.8	4221967	0.0106149	5.63E-03	1.39E-03	1.08E-03
2914	565029	4221964	0.01046331	5.55E-03	1.37E-03	1.06E-03
2915	565045.5	4221956	0.01014868	5.38E-03	1.33E-03	1.03E-03
2916	565061.9	4221949	0.009830867	5.21E-03	1.29E-03	9.99E-04
2917	565103	4221930	0.009048146	4.80E-03	1.19E-03	9.20E-04
2918	565119.4	4221923	0.008739937	4.63E-03	1.15E-03	8.88E-04
2919	565144.1	4221912	0.008296142	4.40E-03	1.09E-03	8.43E-04
2920	565160.5	4221904	0.00801752	4.25E-03	1.05E-03	8.15E-04
2921	564903.6	4222289	0.02165421	1.15E-02	2.84E-03	2.20E-03
2922	564904.7	4222298	0.0216565	1.15E-02	2.84E-03	2.20E-03
2923	564885.3	4222274	0.02049018	1.09E-02	2.69E-03	2.08E-03
2924	564890.6	4222257	0.02077162	1.10E-02	2.73E-03	2.11E-03
2925	564895.9	4222239	0.02092453	1.11E-02	2.75E-03	2.13E-03
2926	564901.3	4222222	0.0209383	1.11E-02	2.75E-03	2.13E-03
2927	564903.9	4222214	0.02088959	1.11E-02	2.74E-03	2.12E-03
2928	564909.3	4222197	0.02067106	1.10E-02	2.71E-03	2.10E-03
2929	564914.6	4222179	0.02030534	1.08E-02	2.67E-03	2.06E-03
2930	564919.9	4222162	0.01980786	1.05E-02	2.60E-03	2.01E-03
2931	564922.6	4222154	0.01951152	1.03E-02	2.56E-03	1.98E-03
2932	564927.9	4222137	0.01883945	9.99E-03	2.47E-03	1.91E-03
2933	564941.2	4222094	0.01681338	8.91E-03	2.21E-03	1.71E-03
2934	564946.5	4222077	0.01591328	8.44E-03	2.09E-03	1.62E-03
2935	564951.9	4222059	0.01499971	7.95E-03	1.97E-03	1.52E-03
2936	564957.2	4222042	0.01409063	7.47E-03	1.85E-03	1.43E-03
2937	564962.5	4222025	0.01319505	7.00E-03	1.73E-03	1.34E-03
2938	564967.9	4222008	0.01232731	6.54E-03	1.62E-03	1.25E-03
2939	564973.2	4221991	0.0115075	6.10E-03	1.51E-03	1.17E-03
2940	564978.5	4221974	0.01073314	5.69E-03	1.41E-03	1.09E-03
2941	564989.4	4221961	0.01023752	5.43E-03	1.34E-03	1.04E-03
2942	565022.1	4221947	0.009702032	5.14E-03	1.27E-03	9.86E-04
2943	565038.4	4221939	0.009412354	4.99E-03	1.24E-03	9.57E-04
2944	565046.6	4221936	0.009267785	4.91E-03	1.22E-03	9.42E-04
2945	565063	4221928	0.008980986	4.76E-03	1.18E-03	9.13E-04
2946	565079.3	4221921	0.008695585	4.61E-03	1.14E-03	8.84E-04
2947	565128.4	4221899	0.00786515	4.17E-03	1.03E-03	7.99E-04
2948	565144.7	4221891	0.007610627	4.04E-03	1.00E-03	7.73E-04
2949	564882.6	4222282	0.02030486	1.08E-02	2.67E-03	2.06E-03
2950	564883.7	4222291	0.02032261	1.08E-02	2.67E-03	2.07E-03
2951	564890.3	4222345	0.01979611	1.05E-02	2.60E-03	2.01E-03
2952	564865.4	4222276	0.01929871	1.02E-02	2.53E-03	1.96E-03
2953	564870.7	4222259	0.0195896	1.04E-02	2.57E-03	1.99E-03
2954	564886.6	4222208	0.01974511	1.05E-02	2.59E-03	2.01E-03
2955	564891.9	4222191	0.01953871	1.04E-02	2.57E-03	1.99E-03
2956	564897.2	4222174	0.01920465	1.02E-02	2.52E-03	1.95E-03
2957	564902.5	4222157	0.01874636	9.94E-03	2.46E-03	1.91E-03
2958	564907.8	4222140	0.01817924	9.64E-03	2.39E-03	1.85E-03

2959	564913.2	4222123	0.01752143	9.29E-03	2.30E-03	1.78E-03
2960	564923.8	4222088	0.01602175	8.49E-03	2.10E-03	1.63E-03
2961	564939.7	4222037	0.01352857	7.17E-03	1.78E-03	1.37E-03
2962	564942.3	4222029	0.01311613	6.95E-03	1.72E-03	1.33E-03
2963	564947.6	4222012	0.01230504	6.52E-03	1.62E-03	1.25E-03
2964	564952.9	4221995	0.01152627	6.11E-03	1.51E-03	1.17E-03
2965	564958.2	4221978	0.01078494	5.72E-03	1.42E-03	1.10E-03
2966	564963.5	4221960	0.01008313	5.35E-03	1.32E-03	1.02E-03
2967	564974.3	4221948	0.009631643	5.11E-03	1.26E-03	9.79E-04
2968	564982.5	4221945	0.009511791	5.04E-03	1.25E-03	9.67E-04
2969	564998.8	4221937	0.009269775	4.91E-03	1.22E-03	9.42E-04
2970	565015	4221930	0.009018184	4.78E-03	1.18E-03	9.16E-04
2971	565023.2	4221926	0.008887116	4.71E-03	1.17E-03	9.03E-04
2972	565039.5	4221919	0.008624685	4.57E-03	1.13E-03	8.76E-04
2973	565047.6	4221915	0.008493269	4.50E-03	1.12E-03	8.63E-04
2974	565063.9	4221908	0.008228821	4.36E-03	1.08E-03	8.36E-04
2975	565072	4221904	0.008097457	4.29E-03	1.06E-03	8.23E-04
2976	565088.3	4221897	0.007839975	4.16E-03	1.03E-03	7.97E-04
2977	565112.7	4221886	0.007468398	3.96E-03	9.81E-04	7.59E-04
2978	565129	4221878	0.007234934	3.84E-03	9.50E-04	7.35E-04
2979	565137.2	4221875	0.007122479	3.78E-03	9.35E-04	7.24E-04
2980	564866	4222312	0.0190345	1.01E-02	2.50E-03	1.93E-03
2981	564867.1	4222321	0.01894994	1.00E-02	2.49E-03	1.93E-03
2982	564868.2	4222330	0.01884042	9.99E-03	2.47E-03	1.91E-03
2983	564869.3	4222338	0.01871024	9.92E-03	2.46E-03	1.90E-03
2984	564856.1	4222245	0.0186924	9.91E-03	2.45E-03	1.90E-03
2985	564861.4	4222228	0.01878818	9.96E-03	2.47E-03	1.91E-03
2986	564877.2	4222177	0.01835337	9.73E-03	2.41E-03	1.87E-03
2987	564882.5	4222160	0.01798986	9.54E-03	2.36E-03	1.83E-03
2988	564887.8	4222143	0.01752479	9.29E-03	2.30E-03	1.78E-03
2989	564893.1	4222126	0.01696432	8.99E-03	2.23E-03	1.72E-03
2990	564903.7	4222092	0.01563834	8.29E-03	2.05E-03	1.59E-03
2991	564908.9	4222075	0.01490772	7.90E-03	1.96E-03	1.52E-03
2992	564914.2	4222058	0.01414991	7.50E-03	1.86E-03	1.44E-03
2993	564919.5	4222041	0.01337889	7.09E-03	1.76E-03	1.36E-03
2994	564924.8	4222024	0.01261798	6.69E-03	1.66E-03	1.28E-03
2995	564940.6	4221973	0.01045888	5.55E-03	1.37E-03	1.06E-03
2996	564945.9	4221956	0.009805718	5.20E-03	1.29E-03	9.97E-04
2997	564959.3	4221935	0.009078782	4.81E-03	1.19E-03	9.23E-04
2998	564975.5	4221928	0.008858363	4.70E-03	1.16E-03	9.00E-04
2999	564991.7	4221920	0.008632593	4.58E-03	1.13E-03	8.77E-04
3000	564999.9	4221917	0.008517502	4.52E-03	1.12E-03	8.66E-04
3001	565016.1	4221909	0.008281457	4.39E-03	1.09E-03	8.42E-04
3002	565024.2	4221906	0.008160233	4.33E-03	1.07E-03	8.29E-04
3003	565040.4	4221898	0.007918056	4.20E-03	1.04E-03	8.05E-04
3004	565048.5	4221895	0.007797478	4.13E-03	1.02E-03	7.92E-04
3005	565064.7	4221887	0.007559496	4.01E-03	9.93E-04	7.68E-04

3006	565072.8	4221884	0.007443115	3.95E-03	9.78E-04	7.56E-04
3007	565097.2	4221873	0.007105939	3.77E-03	9.33E-04	7.22E-04
3008	565113.4	4221865	0.006891491	3.65E-03	9.05E-04	7.00E-04
3009	565121.5	4221862	0.006787482	3.60E-03	8.91E-04	6.90E-04
3010	564844	4222296	0.01799252	9.54E-03	2.36E-03	1.83E-03
3011	564845.1	4222305	0.01795858	9.52E-03	2.36E-03	1.83E-03
3012	564846.2	4222314	0.01789895	9.49E-03	2.35E-03	1.82E-03
3013	564847.3	4222323	0.0178166	9.45E-03	2.34E-03	1.81E-03
3014	564848.4	4222332	0.01771269	9.39E-03	2.33E-03	1.80E-03
3015	564849.5	4222341	0.01759058	9.33E-03	2.31E-03	1.79E-03
3016	564850.5	4222350	0.01745206	9.25E-03	2.29E-03	1.77E-03
3017	564825.7	4222281	0.01717385	9.11E-03	2.26E-03	1.75E-03
3018	564836.2	4222247	0.01768421	9.38E-03	2.32E-03	1.80E-03
3019	564841.5	4222230	0.01780855	9.44E-03	2.34E-03	1.81E-03
3020	564846.7	4222213	0.01783055	9.45E-03	2.34E-03	1.81E-03
3021	564857.3	4222179	0.01754262	9.30E-03	2.30E-03	1.78E-03
3022	564862.5	4222163	0.01724942	9.15E-03	2.27E-03	1.75E-03
3023	564867.8	4222146	0.01687139	8.95E-03	2.22E-03	1.71E-03
3024	564873.1	4222129	0.01640678	8.70E-03	2.15E-03	1.67E-03
3025	564883.6	4222095	0.01524447	8.08E-03	2.00E-03	1.55E-03
3026	564888.8	4222078	0.01458824	7.73E-03	1.92E-03	1.48E-03
3027	564894.1	4222061	0.01390383	7.37E-03	1.83E-03	1.41E-03
3028	564899.4	4222044	0.01320481	7.00E-03	1.73E-03	1.34E-03
3029	564904.6	4222027	0.01250205	6.63E-03	1.64E-03	1.27E-03
3030	564909.9	4222010	0.0118074	6.26E-03	1.55E-03	1.20E-03
3031	564915.2	4221993	0.01112244	5.90E-03	1.46E-03	1.13E-03
3032	564920.4	4221976	0.0104589	5.55E-03	1.37E-03	1.06E-03
3033	564925.7	4221959	0.009831781	5.21E-03	1.29E-03	9.99E-04
3034	564944.3	4221922	0.008572156	4.54E-03	1.13E-03	8.71E-04
3035	564952.4	4221918	0.008470514	4.49E-03	1.11E-03	8.61E-04
3036	564968.5	4221911	0.00826731	4.38E-03	1.09E-03	8.40E-04
3037	564976.6	4221907	0.008163838	4.33E-03	1.07E-03	8.30E-04
3038	564992.8	4221900	0.007951166	4.22E-03	1.04E-03	8.08E-04
3039	565000.8	4221896	0.007842395	4.16E-03	1.03E-03	7.97E-04
3040	565017	4221889	0.007621897	4.04E-03	1.00E-03	7.75E-04
3041	565033.2	4221882	0.007400968	3.92E-03	9.72E-04	7.52E-04
3042	565049.3	4221874	0.007183427	3.81E-03	9.43E-04	7.30E-04
3043	565057.4	4221871	0.007077616	3.75E-03	9.30E-04	7.19E-04
3044	565081.6	4221860	0.006770321	3.59E-03	8.89E-04	6.88E-04
3045	565097.8	4221852	0.006571501	3.48E-03	8.63E-04	6.68E-04
3046	565105.9	4221849	0.006474861	3.43E-03	8.50E-04	6.58E-04
3047	564824.2	4222299	0.01697435	9.00E-03	2.23E-03	1.73E-03
3048	564825.2	4222307	0.01693124	8.98E-03	2.22E-03	1.72E-03
3049	564826.3	4222316	0.01686878	8.94E-03	2.22E-03	1.71E-03
3050	564827.4	4222325	0.01678742	8.90E-03	2.20E-03	1.71E-03
3051	564828.5	4222334	0.01668801	8.85E-03	2.19E-03	1.70E-03
3052	564829.6	4222343	0.01657104	8.79E-03	2.18E-03	1.68E-03

3053	564805.8	4222284	0.01625226	8.62E-03	2.13E-03	1.65E-03
3054	564811.1	4222267	0.01654637	8.77E-03	2.17E-03	1.68E-03
3055	564821.6	4222233	0.01690698	8.96E-03	2.22E-03	1.72E-03
3056	564826.8	4222216	0.01695848	8.99E-03	2.23E-03	1.72E-03
3057	564832.1	4222199	0.01691698	8.97E-03	2.22E-03	1.72E-03
3058	564837.3	4222182	0.01678166	8.90E-03	2.20E-03	1.71E-03
3059	564842.5	4222165	0.01655218	8.78E-03	2.17E-03	1.68E-03
3060	564847.8	4222149	0.01623658	8.61E-03	2.13E-03	1.65E-03
3061	564853	4222132	0.01584459	8.40E-03	2.08E-03	1.61E-03
3062	564863.5	4222098	0.01484368	7.87E-03	1.95E-03	1.51E-03
3063	564868.8	4222081	0.01426096	7.56E-03	1.87E-03	1.45E-03
3064	564874	4222064	0.01364358	7.23E-03	1.79E-03	1.39E-03
3065	564879.3	4222047	0.01300559	6.90E-03	1.71E-03	1.32E-03
3066	564884.5	4222030	0.01235835	6.55E-03	1.62E-03	1.26E-03
3067	564889.8	4222013	0.01171229	6.21E-03	1.54E-03	1.19E-03
3068	564895	4221997	0.01107096	5.87E-03	1.45E-03	1.13E-03
3069	564900.2	4221980	0.0104425	5.54E-03	1.37E-03	1.06E-03
3070	564905.5	4221963	0.009842271	5.22E-03	1.29E-03	1.00E-03
3071	564910.7	4221946	0.009268161	4.91E-03	1.22E-03	9.42E-04
3072	564916	4221929	0.008721648	4.62E-03	1.15E-03	8.86E-04
3073	564945.4	4221901	0.007925964	4.20E-03	1.04E-03	8.05E-04
3074	564953.4	4221898	0.007829593	4.15E-03	1.03E-03	7.96E-04
3075	564969.5	4221890	0.007638385	4.05E-03	1.00E-03	7.76E-04
3076	564985.6	4221883	0.007441555	3.95E-03	9.77E-04	7.56E-04
3077	565001.7	4221876	0.007238162	3.84E-03	9.51E-04	7.36E-04
3078	565050.1	4221854	0.006640868	3.52E-03	8.72E-04	6.75E-04
3079	565066.2	4221847	0.006454608	3.42E-03	8.48E-04	6.56E-04
3080	565082.3	4221839	0.006271657	3.33E-03	8.24E-04	6.37E-04
3081	564804.3	4222301	0.01604897	8.51E-03	2.11E-03	1.63E-03
3082	564805.4	4222310	0.01600026	8.48E-03	2.10E-03	1.63E-03
3083	564806.5	4222319	0.01593426	8.45E-03	2.09E-03	1.62E-03
3084	564807.6	4222328	0.01585179	8.40E-03	2.08E-03	1.61E-03
3085	564809.7	4222346	0.01563969	8.29E-03	2.05E-03	1.59E-03
3086	564810.8	4222355	0.0155115	8.22E-03	2.04E-03	1.58E-03
3087	564786	4222286	0.01539487	8.16E-03	2.02E-03	1.56E-03
3088	564788.7	4222277	0.01554797	8.24E-03	2.04E-03	1.58E-03
3089	564794	4222260	0.01581979	8.39E-03	2.08E-03	1.61E-03
3090	564799.4	4222243	0.01601492	8.49E-03	2.10E-03	1.63E-03
3091	564807.4	4222217	0.01615419	8.56E-03	2.12E-03	1.64E-03
3092	564812.7	4222200	0.01614005	8.56E-03	2.12E-03	1.64E-03
3093	564815.4	4222191	0.0160997	8.54E-03	2.11E-03	1.64E-03
3094	564820.8	4222174	0.01595201	8.46E-03	2.09E-03	1.62E-03
3095	564826.1	4222157	0.01571658	8.33E-03	2.06E-03	1.60E-03
3096	564831.4	4222140	0.01539818	8.16E-03	2.02E-03	1.56E-03
3097	564836.8	4222122	0.01500627	7.96E-03	1.97E-03	1.53E-03
3098	564844.8	4222097	0.0142991	7.58E-03	1.88E-03	1.45E-03
3099	564863.5	4222037	0.01229581	6.52E-03	1.61E-03	1.25E-03

3100	564868.8	4222019	0.01168378	6.19E-03	1.53E-03	1.19E-03
3101	564871.5	4222011	0.01137869	6.03E-03	1.49E-03	1.16E-03
3102	564876.9	4221994	0.01076792	5.71E-03	1.41E-03	1.09E-03
3103	564882.2	4221976	0.01016826	5.39E-03	1.34E-03	1.03E-03
3104	564884.9	4221968	0.00987928	5.24E-03	1.30E-03	1.00E-03
3105	564890.2	4221951	0.009316253	4.94E-03	1.22E-03	9.47E-04
3106	564895.6	4221933	0.008777216	4.65E-03	1.15E-03	8.92E-04
3107	564900.9	4221916	0.008264163	4.38E-03	1.09E-03	8.40E-04
3108	564914.4	4221895	0.00769277	4.08E-03	1.01E-03	7.82E-04
3109	564922.6	4221892	0.007604871	4.03E-03	9.99E-04	7.73E-04
3110	564939	4221884	0.007424018	3.94E-03	9.75E-04	7.54E-04
3111	564955.5	4221877	0.00723983	3.84E-03	9.51E-04	7.36E-04
3112	564971.9	4221869	0.007053705	3.74E-03	9.26E-04	7.17E-04
3113	564980.1	4221866	0.006959217	3.69E-03	9.14E-04	7.07E-04
3114	564996.5	4221858	0.006768197	3.59E-03	8.89E-04	6.88E-04
3115	565012.9	4221851	0.006580297	3.49E-03	8.64E-04	6.69E-04
3116	565021.1	4221847	0.006487557	3.44E-03	8.52E-04	6.59E-04
3117	565037.5	4221840	0.006305117	3.34E-03	8.28E-04	6.41E-04
3118	565053.9	4221832	0.006128406	3.25E-03	8.05E-04	6.23E-04
3119	565070.3	4221825	0.00595659	3.16E-03	7.82E-04	6.05E-04
3120	565078.5	4221821	0.005873721	3.11E-03	7.71E-04	5.97E-04
3121	564784.4	4222303	0.01519637	8.06E-03	2.00E-03	1.54E-03
3122	564785.5	4222312	0.01514489	8.03E-03	1.99E-03	1.54E-03
3123	564786.6	4222321	0.01507674	7.99E-03	1.98E-03	1.53E-03
3124	564789.9	4222348	0.01478712	7.84E-03	1.94E-03	1.50E-03
3125	564791	4222357	0.01466452	7.78E-03	1.93E-03	1.49E-03
3126	564766.2	4222288	0.01460228	7.74E-03	1.92E-03	1.48E-03
3127	564771.5	4222271	0.01488766	7.89E-03	1.96E-03	1.51E-03
3128	564776.8	4222254	0.01513395	8.02E-03	1.99E-03	1.54E-03
3129	564782.1	4222237	0.0152999	8.11E-03	2.01E-03	1.55E-03
3130	564792.8	4222203	0.01540751	8.17E-03	2.02E-03	1.57E-03
3131	564798.1	4222185	0.0153495	8.14E-03	2.02E-03	1.56E-03
3132	564803.4	4222168	0.01521085	8.06E-03	2.00E-03	1.55E-03
3133	564808.7	4222151	0.01498911	7.95E-03	1.97E-03	1.52E-03
3134	564814.1	4222134	0.01469209	7.79E-03	1.93E-03	1.49E-03
3135	564824.7	4222100	0.01390109	7.37E-03	1.83E-03	1.41E-03
3136	564830	4222083	0.01343308	7.12E-03	1.76E-03	1.37E-03
3137	564835.4	4222066	0.01292861	6.85E-03	1.70E-03	1.31E-03
3138	564840.7	4222048	0.01238637	6.57E-03	1.63E-03	1.26E-03
3139	564846	4222031	0.01182638	6.27E-03	1.55E-03	1.20E-03
3140	564862	4221980	0.0101281	5.37E-03	1.33E-03	1.03E-03
3141	564867.3	4221963	0.009582879	5.08E-03	1.26E-03	9.74E-04
3142	564870	4221954	0.009317355	4.94E-03	1.22E-03	9.47E-04
3143	564875.3	4221937	0.008800562	4.67E-03	1.16E-03	8.94E-04
3144	564880.6	4221920	0.008305315	4.40E-03	1.09E-03	8.44E-04
3145	564885.9	4221903	0.007832498	4.15E-03	1.03E-03	7.96E-04
3146	564899.4	4221882	0.007306184	3.87E-03	9.60E-04	7.43E-04

3147	564915.8	4221875	0.007139909	3.79E-03	9.38E-04	7.26E-04
3148	564948.5	4221860	0.006800903	3.61E-03	8.93E-04	6.91E-04
3149	564956.6	4221856	0.00671521	3.56E-03	8.82E-04	6.82E-04
3150	564973	4221849	0.006540113	3.47E-03	8.59E-04	6.65E-04
3151	564981.1	4221845	0.006453667	3.42E-03	8.48E-04	6.56E-04
3152	564997.5	4221838	0.00628091	3.33E-03	8.25E-04	6.38E-04
3153	565013.8	4221830	0.00611052	3.24E-03	8.02E-04	6.21E-04
3154	565022	4221827	0.006026817	3.20E-03	7.91E-04	6.12E-04
3155	565038.3	4221819	0.00586272	3.11E-03	7.70E-04	5.96E-04
3156	565054.7	4221812	0.00570395	3.02E-03	7.49E-04	5.80E-04
3157	565062.9	4221808	0.005626702	2.98E-03	7.39E-04	5.72E-04
3158	564763.5	4222297	0.01444235	7.66E-03	1.90E-03	1.47E-03
3159	564764.6	4222306	0.01440564	7.64E-03	1.89E-03	1.46E-03
3160	564766.8	4222324	0.01428547	7.57E-03	1.88E-03	1.45E-03
3161	564767.9	4222333	0.01420499	7.53E-03	1.87E-03	1.44E-03
3162	564771.1	4222359	0.01388715	7.36E-03	1.82E-03	1.41E-03
3163	564746.3	4222291	0.01386986	7.35E-03	1.82E-03	1.41E-03
3164	564751.6	4222274	0.01415109	7.50E-03	1.86E-03	1.44E-03
3165	564756.9	4222257	0.01438915	7.63E-03	1.89E-03	1.46E-03
3166	564762.2	4222239	0.01456758	7.72E-03	1.91E-03	1.48E-03
3167	564767.5	4222222	0.01467065	7.78E-03	1.93E-03	1.49E-03
3168	564772.8	4222205	0.01470971	7.80E-03	1.93E-03	1.49E-03
3169	564786.1	4222163	0.01451161	7.69E-03	1.91E-03	1.47E-03
3170	564791.4	4222146	0.01430975	7.59E-03	1.88E-03	1.45E-03
3171	564796.7	4222129	0.01403724	7.44E-03	1.84E-03	1.43E-03
3172	564807.3	4222094	0.01330438	7.05E-03	1.75E-03	1.35E-03
3173	564812.6	4222077	0.01286799	6.82E-03	1.69E-03	1.31E-03
3174	564817.9	4222060	0.01239745	6.57E-03	1.63E-03	1.26E-03
3175	564823.2	4222043	0.01189903	6.31E-03	1.56E-03	1.21E-03
3176	564828.5	4222026	0.01138065	6.03E-03	1.49E-03	1.16E-03
3177	564833.8	4222009	0.01084995	5.75E-03	1.42E-03	1.10E-03
3178	564839.1	4221992	0.01032539	5.47E-03	1.36E-03	1.05E-03
3179	564844.4	4221975	0.009805637	5.20E-03	1.29E-03	9.97E-04
3180	564863	4221915	0.008097591	4.29E-03	1.06E-03	8.23E-04
3181	564868.3	4221898	0.007647717	4.05E-03	1.00E-03	7.77E-04
3182	564873.6	4221881	0.007222616	3.83E-03	9.49E-04	7.34E-04
3183	564884.4	4221869	0.006946091	3.68E-03	9.12E-04	7.06E-04
3184	564892.6	4221865	0.0068707	3.64E-03	9.02E-04	6.98E-04
3185	564908.8	4221858	0.006714215	3.56E-03	8.82E-04	6.82E-04
3186	564917	4221854	0.006635246	3.52E-03	8.71E-04	6.74E-04
3187	564949.6	4221839	0.006318565	3.35E-03	8.30E-04	6.42E-04
3188	564957.7	4221836	0.006238332	3.31E-03	8.19E-04	6.34E-04
3189	564974	4221828	0.006080018	3.22E-03	7.98E-04	6.18E-04
3190	564982.1	4221825	0.006001776	3.18E-03	7.88E-04	6.10E-04
3191	564998.4	4221817	0.005843839	3.10E-03	7.67E-04	5.94E-04
3192	565014.7	4221810	0.005690501	3.02E-03	7.47E-04	5.78E-04
3193	565022.9	4221806	0.005614948	2.98E-03	7.37E-04	5.71E-04

3194	565039.1	4221799	0.005467474	2.90E-03	7.18E-04	5.56E-04
3195	565047.3	4221795	0.00539531	2.86E-03	7.09E-04	5.48E-04
3196	564744.7	4222308	0.01366765	7.25E-03	1.79E-03	1.39E-03
3197	564745.8	4222317	0.01361673	7.22E-03	1.79E-03	1.38E-03
3198	564746.9	4222326	0.01355339	7.19E-03	1.78E-03	1.38E-03
3199	564748	4222335	0.01347776	7.15E-03	1.77E-03	1.37E-03
3200	564749.1	4222344	0.01338647	7.10E-03	1.76E-03	1.36E-03
3201	564750.2	4222353	0.01328413	7.04E-03	1.74E-03	1.35E-03
3202	564737	4222259	0.01369936	7.26E-03	1.80E-03	1.39E-03
3203	564742.3	4222242	0.01387911	7.36E-03	1.82E-03	1.41E-03
3204	564747.6	4222225	0.0140038	7.42E-03	1.84E-03	1.42E-03
3205	564752.9	4222208	0.01406594	7.46E-03	1.85E-03	1.43E-03
3206	564758.2	4222191	0.01406537	7.46E-03	1.85E-03	1.43E-03
3207	564763.5	4222174	0.0139991	7.42E-03	1.84E-03	1.42E-03
3208	564768.7	4222157	0.01386644	7.35E-03	1.82E-03	1.41E-03
3209	564789.9	4222089	0.012748	6.76E-03	1.67E-03	1.30E-03
3210	564795.2	4222072	0.01234073	6.54E-03	1.62E-03	1.25E-03
3211	564800.5	4222055	0.01190078	6.31E-03	1.56E-03	1.21E-03
3212	564805.8	4222038	0.01143781	6.06E-03	1.50E-03	1.16E-03
3213	564811	4222021	0.01095899	5.81E-03	1.44E-03	1.11E-03
3214	564816.3	4222004	0.0104705	5.55E-03	1.38E-03	1.06E-03
3215	564821.6	4221987	0.009982053	5.29E-03	1.31E-03	1.01E-03
3216	564826.9	4221970	0.009498397	5.04E-03	1.25E-03	9.65E-04
3217	564832.2	4221953	0.009023321	4.78E-03	1.19E-03	9.17E-04
3218	564837.5	4221936	0.00856086	4.54E-03	1.12E-03	8.70E-04
3219	564842.8	4221919	0.008113245	4.30E-03	1.07E-03	8.25E-04
3220	564848.1	4221902	0.007678541	4.07E-03	1.01E-03	7.80E-04
3221	564869.4	4221856	0.006615774	3.51E-03	8.69E-04	6.72E-04
3222	564885.6	4221848	0.006474405	3.43E-03	8.50E-04	6.58E-04
3223	564901.9	4221841	0.006329485	3.36E-03	8.31E-04	6.43E-04
3224	564910	4221837	0.006255977	3.32E-03	8.22E-04	6.36E-04
3225	564934.3	4221826	0.006033191	3.20E-03	7.92E-04	6.13E-04
3226	564950.6	4221819	0.005884157	3.12E-03	7.73E-04	5.98E-04
3227	564958.7	4221815	0.005810756	3.08E-03	7.63E-04	5.91E-04
3228	564974.9	4221808	0.005664681	3.00E-03	7.44E-04	5.76E-04
3229	564983	4221804	0.00559179	2.96E-03	7.34E-04	5.68E-04
3230	564999.3	4221797	0.005450448	2.89E-03	7.16E-04	5.54E-04
3231	565023.6	4221786	0.005243613	2.78E-03	6.89E-04	5.33E-04
3232	565031.8	4221782	0.00517586	2.74E-03	6.80E-04	5.26E-04
3233	564724.9	4222311	0.01299881	6.89E-03	1.71E-03	1.32E-03
3234	564726	4222320	0.01294593	6.86E-03	1.70E-03	1.32E-03
3235	564727.1	4222329	0.01288237	6.83E-03	1.69E-03	1.31E-03
3236	564728.2	4222337	0.01280806	6.79E-03	1.68E-03	1.30E-03
3237	564729.2	4222346	0.01272148	6.74E-03	1.67E-03	1.29E-03
3238	564730.3	4222355	0.01262513	6.69E-03	1.66E-03	1.28E-03
3239	564731.4	4222364	0.01251989	6.64E-03	1.64E-03	1.27E-03
3240	564706.6	4222296	0.01256983	6.66E-03	1.65E-03	1.28E-03

3241	564711.8	4222279	0.0128353	6.81E-03	1.69E-03	1.30E-03
3242	564717.1	4222262	0.01306255	6.93E-03	1.72E-03	1.33E-03
3243	564722.4	4222245	0.01324534	7.02E-03	1.74E-03	1.35E-03
3244	564727.7	4222228	0.0133787	7.09E-03	1.76E-03	1.36E-03
3245	564732.9	4222211	0.01345826	7.14E-03	1.77E-03	1.37E-03
3246	564738.2	4222194	0.0134808	7.15E-03	1.77E-03	1.37E-03
3247	564743.5	4222177	0.01344363	7.13E-03	1.77E-03	1.37E-03
3248	564748.8	4222160	0.01334591	7.08E-03	1.75E-03	1.36E-03
3249	564754	4222143	0.01319147	6.99E-03	1.73E-03	1.34E-03
3250	564759.3	4222126	0.01298299	6.88E-03	1.71E-03	1.32E-03
3251	564769.8	4222092	0.0124017	6.58E-03	1.63E-03	1.26E-03
3252	564785.7	4222041	0.01122898	5.95E-03	1.47E-03	1.14E-03
3253	564790.9	4222024	0.01078965	5.72E-03	1.42E-03	1.10E-03
3254	564796.2	4222007	0.01033908	5.48E-03	1.36E-03	1.05E-03
3255	564801.5	4221990	0.009884095	5.24E-03	1.30E-03	1.00E-03
3256	564806.7	4221973	0.009429649	5.00E-03	1.24E-03	9.58E-04
3257	564812	4221956	0.008980905	4.76E-03	1.18E-03	9.13E-04
3258	564817.3	4221939	0.008540821	4.53E-03	1.12E-03	8.68E-04
3259	564822.6	4221922	0.008112922	4.30E-03	1.07E-03	8.24E-04
3260	564827.8	4221905	0.007695701	4.08E-03	1.01E-03	7.82E-04
3261	564833.1	4221888	0.007293058	3.87E-03	9.58E-04	7.41E-04
3262	564838.4	4221871	0.006912148	3.66E-03	9.08E-04	7.02E-04
3263	564843.7	4221854	0.006550011	3.47E-03	8.60E-04	6.66E-04
3264	564902.9	4221820	0.005908714	3.13E-03	7.76E-04	6.00E-04
3265	564911	4221817	0.005839912	3.10E-03	7.67E-04	5.93E-04
3266	564927.2	4221809	0.005701475	3.02E-03	7.49E-04	5.79E-04
3267	564935.3	4221806	0.005632323	2.99E-03	7.40E-04	5.72E-04
3268	564951.5	4221798	0.005494693	2.91E-03	7.22E-04	5.58E-04
3269	564967.7	4221791	0.005358757	2.84E-03	7.04E-04	5.45E-04
3270	564983.9	4221784	0.00522535	2.77E-03	6.86E-04	5.31E-04
3271	565008.2	4221773	0.005032931	2.67E-03	6.61E-04	5.11E-04
3272	565016.3	4221769	0.004969805	2.63E-03	6.53E-04	5.05E-04
3273	564706.1	4222322	0.01232524	6.53E-03	1.62E-03	1.25E-03
3274	564707.2	4222331	0.01226181	6.50E-03	1.61E-03	1.25E-03
3275	564708.3	4222340	0.01218903	6.46E-03	1.60E-03	1.24E-03
3276	564709.4	4222349	0.0121077	6.42E-03	1.59E-03	1.23E-03
3277	564710.5	4222358	0.01201786	6.37E-03	1.58E-03	1.22E-03
3278	564686.8	4222298	0.01199043	6.36E-03	1.57E-03	1.22E-03
3279	564692.1	4222281	0.01225103	6.50E-03	1.61E-03	1.25E-03
3280	564697.5	4222263	0.01247696	6.62E-03	1.64E-03	1.27E-03
3281	564702.8	4222246	0.01266209	6.71E-03	1.66E-03	1.29E-03
3282	564708.2	4222229	0.01280155	6.79E-03	1.68E-03	1.30E-03
3283	564713.5	4222212	0.01289128	6.83E-03	1.69E-03	1.31E-03
3284	564718.9	4222195	0.01292721	6.85E-03	1.70E-03	1.31E-03
3285	564724.2	4222177	0.01290728	6.84E-03	1.70E-03	1.31E-03
3286	564726.9	4222169	0.01287597	6.83E-03	1.69E-03	1.31E-03
3287	564732.3	4222151	0.0127703	6.77E-03	1.68E-03	1.30E-03

3288	564737.6	4222134	0.01260824	6.68E-03	1.66E-03	1.28E-03
3289	564748.3	4222100	0.01212808	6.43E-03	1.59E-03	1.23E-03
3290	564751	4222091	0.01197934	6.35E-03	1.57E-03	1.22E-03
3291	564756.4	4222074	0.0116508	6.18E-03	1.53E-03	1.18E-03
3292	564761.7	4222057	0.01128939	5.99E-03	1.48E-03	1.15E-03
3293	564767.1	4222039	0.01089953	5.78E-03	1.43E-03	1.11E-03
3294	564785.8	4221979	0.009411951	4.99E-03	1.24E-03	9.57E-04
3295	564791.2	4221962	0.008980636	4.76E-03	1.18E-03	9.13E-04
3296	564796.5	4221945	0.0085547	4.54E-03	1.12E-03	8.69E-04
3297	564801.9	4221927	0.008137641	4.31E-03	1.07E-03	8.27E-04
3298	564807.2	4221910	0.007731258	4.10E-03	1.02E-03	7.86E-04
3299	564809.9	4221902	0.00753104	3.99E-03	9.89E-04	7.65E-04
3300	564815.2	4221884	0.007142867	3.79E-03	9.38E-04	7.26E-04
3301	564820.6	4221867	0.00677484	3.59E-03	8.90E-04	6.89E-04
3302	564826	4221850	0.006423597	3.41E-03	8.44E-04	6.53E-04
3303	564856	4221822	0.005904061	3.13E-03	7.75E-04	6.00E-04
3304	564872.4	4221814	0.005776167	3.06E-03	7.59E-04	5.87E-04
3305	564888.8	4221807	0.005646256	2.99E-03	7.42E-04	5.74E-04
3306	564905.3	4221799	0.005515188	2.92E-03	7.24E-04	5.60E-04
3307	564913.5	4221796	0.005449722	2.89E-03	7.16E-04	5.54E-04
3308	564929.9	4221788	0.00531895	2.82E-03	6.99E-04	5.41E-04
3309	564946.4	4221781	0.005189416	2.75E-03	6.82E-04	5.27E-04
3310	564962.8	4221773	0.005061711	2.68E-03	6.65E-04	5.14E-04
3311	564971	4221770	0.004999042	2.65E-03	6.57E-04	5.08E-04
3312	565003.9	4221755	0.004756433	2.52E-03	6.25E-04	4.83E-04
3313	564685.2	4222315	0.01180304	6.26E-03	1.55E-03	1.20E-03
3314	564688.4	4222342	0.01161452	6.16E-03	1.53E-03	1.18E-03
3315	564690.6	4222360	0.01144919	6.07E-03	1.50E-03	1.16E-03
3316	565244.7	4222311	0.1412821	7.49E-02	1.86E-02	1.44E-02
3317	565245.8	4222321	0.1404553	7.45E-02	1.84E-02	1.43E-02
3318	565247	4222330	0.138097	7.32E-02	1.81E-02	1.40E-02
3319	565248.2	4222339	0.134292	7.12E-02	1.76E-02	1.36E-02
3320	565249.3	4222348	0.1292433	6.85E-02	1.70E-02	1.31E-02
3321	565250.5	4222358	0.1232654	6.54E-02	1.62E-02	1.25E-02
3322	565251.7	4222367	0.1167933	6.19E-02	1.53E-02	1.19E-02
3323	565255.2	4222394	0.09875982	5.24E-02	1.30E-02	1.00E-02
3324	565234.9	4222313	0.126523	6.71E-02	1.66E-02	1.29E-02
3325	565236.1	4222322	0.1257685	6.67E-02	1.65E-02	1.28E-02
3326	565237.2	4222331	0.1237668	6.56E-02	1.63E-02	1.26E-02
3327	565238.4	4222340	0.1206244	6.40E-02	1.58E-02	1.23E-02
3328	565239.6	4222350	0.1165195	6.18E-02	1.53E-02	1.18E-02
3329	565240.7	4222359	0.1117228	5.92E-02	1.47E-02	1.14E-02
3330	565241.9	4222368	0.1065397	5.65E-02	1.40E-02	1.08E-02
3331	565245.4	4222396	0.0913991	4.85E-02	1.20E-02	9.29E-03
3332	565225.1	4222314	0.1143332	6.06E-02	1.50E-02	1.16E-02
3333	565226.3	4222323	0.1136586	6.03E-02	1.49E-02	1.16E-02
3334	565227.5	4222332	0.1119566	5.94E-02	1.47E-02	1.14E-02

3335	565228.6	4222342	0.1093386	5.80E-02	1.44E-02	1.11E-02
3336	565229.8	4222351	0.1059638	5.62E-02	1.39E-02	1.08E-02
3337	565231	4222360	0.102028	5.41E-02	1.34E-02	1.04E-02
3338	565232.1	4222369	0.09776417	5.18E-02	1.28E-02	9.94E-03
3339	565235.7	4222397	0.0848234	4.50E-02	1.11E-02	8.62E-03
3340	565215.4	4222315	0.1041101	5.52E-02	1.37E-02	1.06E-02
3341	565216.5	4222324	0.103499	5.49E-02	1.36E-02	1.05E-02
3342	565217.7	4222334	0.1020396	5.41E-02	1.34E-02	1.04E-02
3343	565218.9	4222343	0.09983575	5.29E-02	1.31E-02	1.01E-02
3344	565220	4222352	0.09701601	5.14E-02	1.27E-02	9.86E-03
3345	565221.2	4222361	0.0937301	4.97E-02	1.23E-02	9.53E-03
3346	565225.9	4222398	0.07891415	4.18E-02	1.04E-02	8.02E-03
3347	565204.4	4222307	0.09520888	5.05E-02	1.25E-02	9.68E-03
3348	565205.6	4222316	0.09540441	5.06E-02	1.25E-02	9.70E-03
3349	565206.8	4222326	0.09484521	5.03E-02	1.25E-02	9.64E-03
3350	565207.9	4222335	0.09358615	4.96E-02	1.23E-02	9.51E-03
3351	565209.1	4222344	0.0917061	4.86E-02	1.20E-02	9.32E-03
3352	565210.3	4222353	0.08931582	4.74E-02	1.17E-02	9.08E-03
3353	565211.5	4222363	0.0865307	4.59E-02	1.14E-02	8.79E-03
3354	565216.1	4222399	0.07359143	3.90E-02	9.66E-03	7.48E-03
3355	565195.8	4222318	0.08790126	4.66E-02	1.15E-02	8.93E-03
3356	565197	4222327	0.08738415	4.63E-02	1.15E-02	8.88E-03
3357	565198.2	4222336	0.08628306	4.57E-02	1.13E-02	8.77E-03
3358	565199.4	4222345	0.08466401	4.49E-02	1.11E-02	8.60E-03
3359	565200.5	4222355	0.08260679	4.38E-02	1.08E-02	8.40E-03
3360	565201.7	4222364	0.08020788	4.25E-02	1.05E-02	8.15E-03
3361	565206.4	4222401	0.06878567	3.65E-02	9.03E-03	6.99E-03
3362	565186.1	4222319	0.08136465	4.31E-02	1.07E-02	8.27E-03
3363	565187.3	4222328	0.08088441	4.29E-02	1.06E-02	8.22E-03
3364	565188.4	4222337	0.07990827	4.24E-02	1.05E-02	8.12E-03
3365	565189.6	4222347	0.07849415	4.16E-02	1.03E-02	7.98E-03
3366	565190.8	4222356	0.07670575	4.07E-02	1.01E-02	7.80E-03
3367	565191.9	4222365	0.07460985	3.96E-02	9.80E-03	7.58E-03
3368	565196.6	4222402	0.06443492	3.42E-02	8.46E-03	6.55E-03
3369	565176.3	4222320	0.07561936	4.01E-02	9.93E-03	7.68E-03
3370	565177.5	4222329	0.07516745	3.99E-02	9.87E-03	7.64E-03
3371	565178.7	4222339	0.07429497	3.94E-02	9.76E-03	7.55E-03
3372	565179.8	4222348	0.07304325	3.87E-02	9.59E-03	7.42E-03
3373	565181	4222357	0.07146756	3.79E-02	9.39E-03	7.26E-03
3374	565182.2	4222366	0.06962071	3.69E-02	9.14E-03	7.08E-03
3375	565186.8	4222403	0.06048552	3.21E-02	7.94E-03	6.15E-03
3376	565177.1	4222404	0.05689385	3.02E-02	7.47E-03	5.78E-03
3377	565156.8	4222323	0.06599054	3.50E-02	8.67E-03	6.71E-03
3378	565158	4222332	0.06557921	3.48E-02	8.61E-03	6.66E-03
3379	565167.3	4222406	0.05361369	2.84E-02	7.04E-03	5.45E-03
3380	565147	4222324	0.06191602	3.28E-02	8.13E-03	6.29E-03
3381	565148.2	4222333	0.06152115	3.26E-02	8.08E-03	6.25E-03

3382	565149.4	4222342	0.0608521	3.23E-02	7.99E-03	6.18E-03
3383	565150.6	4222352	0.05993365	3.18E-02	7.87E-03	6.09E-03
3384	565151.7	4222361	0.05879025	3.12E-02	7.72E-03	5.97E-03
3385	565152.9	4222370	0.05744404	3.05E-02	7.54E-03	5.84E-03
3386	565157.6	4222407	0.05061334	2.68E-02	6.65E-03	5.14E-03
3387	565137.3	4222325	0.05823992	3.09E-02	7.65E-03	5.92E-03
3388	565138.5	4222334	0.05785769	3.07E-02	7.60E-03	5.88E-03
3389	565139.6	4222344	0.057236	3.03E-02	7.52E-03	5.82E-03
3390	565140.8	4222353	0.05639134	2.99E-02	7.41E-03	5.73E-03
3391	565142	4222362	0.0553471	2.93E-02	7.27E-03	5.62E-03
3392	565143.1	4222371	0.05412099	2.87E-02	7.11E-03	5.50E-03
3393	565146.6	4222399	0.04959229	2.63E-02	6.51E-03	5.04E-03
3394	565147.8	4222408	0.04786448	2.54E-02	6.29E-03	4.86E-03
3395	565127.5	4222326	0.05490785	2.91E-02	7.21E-03	5.58E-03
3396	565128.7	4222336	0.05453584	2.89E-02	7.16E-03	5.54E-03
3397	565129.9	4222345	0.05395296	2.86E-02	7.09E-03	5.48E-03
3398	565131	4222354	0.05317318	2.82E-02	6.98E-03	5.40E-03
3399	565132.2	4222363	0.05220904	2.77E-02	6.86E-03	5.31E-03
3400	565133.4	4222372	0.0510872	2.71E-02	6.71E-03	5.19E-03
3401	565136.9	4222400	0.04692794	2.49E-02	6.16E-03	4.77E-03
3402	565138	4222409	0.04533603	2.40E-02	5.95E-03	4.61E-03
3403	565117.8	4222328	0.05187353	2.75E-02	6.81E-03	5.27E-03
3404	565118.9	4222337	0.05151185	2.73E-02	6.77E-03	5.23E-03
3405	565120.1	4222346	0.05096127	2.70E-02	6.69E-03	5.18E-03
3406	565121.3	4222355	0.05023324	2.66E-02	6.60E-03	5.11E-03
3407	565122.4	4222364	0.04934608	2.62E-02	6.48E-03	5.01E-03
3408	565123.6	4222374	0.04831047	2.56E-02	6.34E-03	4.91E-03
3409	565127.1	4222401	0.04447706	2.36E-02	5.84E-03	4.52E-03
3410	565128.3	4222411	0.04300731	2.28E-02	5.65E-03	4.37E-03
3411	565108	4222329	0.04910024	2.60E-02	6.45E-03	4.99E-03
3412	565109.2	4222338	0.04874698	2.58E-02	6.40E-03	4.95E-03
3413	565110.3	4222347	0.04822623	2.56E-02	6.33E-03	4.90E-03
3414	565111.5	4222356	0.04754459	2.52E-02	6.24E-03	4.83E-03
3415	565112.7	4222366	0.04672048	2.48E-02	6.14E-03	4.75E-03
3416	565113.8	4222375	0.04576301	2.43E-02	6.01E-03	4.65E-03
3417	565098.2	4222330	0.04655194	2.47E-02	6.11E-03	4.73E-03
3418	565099.4	4222339	0.04621012	2.45E-02	6.07E-03	4.70E-03
3419	565100.6	4222348	0.04570873	2.42E-02	6.00E-03	4.65E-03
3420	565101.7	4222358	0.04507077	2.39E-02	5.92E-03	4.58E-03
3421	565102.9	4222367	0.04430344	2.35E-02	5.82E-03	4.50E-03
3422	565104.1	4222376	0.04341711	2.30E-02	5.70E-03	4.41E-03
3423	565088.5	4222331	0.04420739	2.34E-02	5.81E-03	4.49E-03
3424	565089.6	4222340	0.04386868	2.33E-02	5.76E-03	4.46E-03
3425	565090.8	4222350	0.04338244	2.30E-02	5.70E-03	4.41E-03
3426	565092	4222359	0.04277078	2.27E-02	5.62E-03	4.35E-03
3427	565093.2	4222368	0.04204463	2.23E-02	5.52E-03	4.27E-03
3428	565094.3	4222377	0.04121887	2.19E-02	5.41E-03	4.19E-03

3429	565097.8	4222405	0.03818063	2.02E-02	5.01E-03	3.88E-03
3430	565099	4222414	0.03701404	1.96E-02	4.86E-03	3.76E-03
3431	565077.6	4222323	0.04222338	2.24E-02	5.55E-03	4.29E-03
3432	565078.7	4222332	0.04204705	2.23E-02	5.52E-03	4.27E-03
3433	565079.9	4222342	0.04171103	2.21E-02	5.48E-03	4.24E-03
3434	565081.1	4222351	0.04123377	2.19E-02	5.42E-03	4.19E-03
3435	565082.2	4222360	0.04064422	2.15E-02	5.34E-03	4.13E-03
3436	565083.4	4222369	0.03995667	2.12E-02	5.25E-03	4.06E-03
3437	565084.6	4222379	0.03918516	2.08E-02	5.15E-03	3.98E-03
3438	565088.1	4222406	0.03635932	1.93E-02	4.78E-03	3.70E-03
3439	565089.2	4222416	0.03527498	1.87E-02	4.63E-03	3.58E-03
3440	565069	4222334	0.04003746	2.12E-02	5.26E-03	4.07E-03
3441	565070.1	4222343	0.03970569	2.11E-02	5.21E-03	4.04E-03
3442	565071.3	4222352	0.03924584	2.08E-02	5.15E-03	3.99E-03
3443	565072.5	4222361	0.03867848	2.05E-02	5.08E-03	3.93E-03
3444	565073.6	4222371	0.03802543	2.02E-02	4.99E-03	3.86E-03
3445	565074.8	4222380	0.03730379	1.98E-02	4.90E-03	3.79E-03
3446	565078.3	4222408	0.03466655	1.84E-02	4.55E-03	3.52E-03
3447	565079.5	4222417	0.03365868	1.78E-02	4.42E-03	3.42E-03
3448	565059.2	4222335	0.03816242	2.02E-02	5.01E-03	3.88E-03
3449	565060.4	4222344	0.03783705	2.01E-02	4.97E-03	3.85E-03
3450	565061.5	4222353	0.03740584	1.98E-02	4.91E-03	3.80E-03
3451	565062.7	4222363	0.03687686	1.96E-02	4.84E-03	3.75E-03
3452	565063.9	4222372	0.03626822	1.92E-02	4.76E-03	3.69E-03
3453	565065	4222381	0.03558591	1.89E-02	4.67E-03	3.62E-03
3454	565069.7	4222418	0.03216546	1.71E-02	4.22E-03	3.27E-03
3455	565049.4	4222336	0.03641817	1.93E-02	4.78E-03	3.70E-03
3456	565050.6	4222345	0.03610488	1.91E-02	4.74E-03	3.67E-03
3457	565051.8	4222355	0.0356979	1.89E-02	4.69E-03	3.63E-03
3458	565052.9	4222364	0.03520392	1.87E-02	4.62E-03	3.58E-03
3459	565054.1	4222373	0.03463492	1.84E-02	4.55E-03	3.52E-03
3460	565055.3	4222382	0.03399163	1.80E-02	4.46E-03	3.45E-03
3461	565060	4222419	0.03078802	1.63E-02	4.04E-03	3.13E-03
3462	565039.7	4222337	0.03480399	1.85E-02	4.57E-03	3.54E-03
3463	565040.8	4222347	0.03450017	1.83E-02	4.53E-03	3.51E-03
3464	565042	4222356	0.0341143	1.81E-02	4.48E-03	3.47E-03
3465	565043.2	4222365	0.03364978	1.78E-02	4.42E-03	3.42E-03
3466	565044.4	4222374	0.03311243	1.76E-02	4.35E-03	3.37E-03
3467	565045.5	4222384	0.03250651	1.72E-02	4.27E-03	3.30E-03
3468	565046.7	4222393	0.03183619	1.69E-02	4.18E-03	3.24E-03
3469	565050.2	4222420	0.0295015	1.56E-02	3.87E-03	3.00E-03
3470	565029.9	4222339	0.03331392	1.77E-02	4.38E-03	3.39E-03
3471	565031.1	4222348	0.03301684	1.75E-02	4.34E-03	3.36E-03
3472	565032.3	4222357	0.03264505	1.73E-02	4.29E-03	3.32E-03
3473	565033.4	4222366	0.03220214	1.71E-02	4.23E-03	3.27E-03
3474	565034.6	4222376	0.03168433	1.68E-02	4.16E-03	3.22E-03
3475	565035.8	4222385	0.03110635	1.65E-02	4.09E-03	3.16E-03

3476	565036.9	4222394	0.03047207	1.62E-02	4.00E-03	3.10E-03
3477	565020.2	4222340	0.03192115	1.69E-02	4.19E-03	3.24E-03
3478	565021.3	4222349	0.03163043	1.68E-02	4.15E-03	3.21E-03
3479	565022.5	4222358	0.03127189	1.66E-02	4.11E-03	3.18E-03
3480	565023.7	4222368	0.03084633	1.64E-02	4.05E-03	3.13E-03
3481	565024.8	4222377	0.03034762	1.61E-02	3.99E-03	3.08E-03
3482	565026	4222386	0.02979231	1.58E-02	3.91E-03	3.03E-03
3483	565027.2	4222395	0.02918713	1.55E-02	3.83E-03	2.97E-03
3484	565010.4	4222341	0.03061497	1.62E-02	4.02E-03	3.11E-03
3485	565011.6	4222350	0.03033086	1.61E-02	3.98E-03	3.08E-03
3486	565012.7	4222360	0.02998518	1.59E-02	3.94E-03	3.05E-03
3487	565013.9	4222369	0.02957598	1.57E-02	3.88E-03	3.01E-03
3488	565015.1	4222378	0.02909455	1.54E-02	3.82E-03	2.96E-03
3489	565016.2	4222387	0.02856095	1.51E-02	3.75E-03	2.90E-03
3490	565017.4	4222396	0.02798154	1.48E-02	3.67E-03	2.84E-03
3491	565018.6	4222406	0.02737836	1.45E-02	3.60E-03	2.78E-03
3492	565000.6	4222342	0.02938665	1.56E-02	3.86E-03	2.99E-03
3493	565001.8	4222352	0.02910281	1.54E-02	3.82E-03	2.96E-03
3494	565003	4222361	0.02876308	1.53E-02	3.78E-03	2.92E-03
3495	565004.1	4222370	0.02836727	1.50E-02	3.73E-03	2.88E-03
3496	565005.3	4222379	0.02791527	1.48E-02	3.67E-03	2.84E-03
3497	565006.5	4222389	0.02741394	1.45E-02	3.60E-03	2.79E-03
3498	565007.6	4222398	0.02686646	1.42E-02	3.53E-03	2.73E-03
3499	565008.8	4222407	0.02629192	1.39E-02	3.45E-03	2.67E-03
3500	564990.9	4222344	0.02823168	1.50E-02	3.71E-03	2.87E-03
3501	564992	4222353	0.02794827	1.48E-02	3.67E-03	2.84E-03
3502	564993.2	4222362	0.02761376	1.46E-02	3.63E-03	2.81E-03
3503	564994.4	4222371	0.02723484	1.44E-02	3.58E-03	2.77E-03
3504	564995.6	4222381	0.02680995	1.42E-02	3.52E-03	2.72E-03
3505	564996.7	4222390	0.02633899	1.40E-02	3.46E-03	2.68E-03
3506	564997.9	4222399	0.0258272	1.37E-02	3.39E-03	2.62E-03
3507	564999.1	4222408	0.02527754	1.34E-02	3.32E-03	2.57E-03
3508	564971	4222346	0.02606908	1.38E-02	3.42E-03	2.65E-03
3509	564972.2	4222355	0.02579667	1.37E-02	3.39E-03	2.62E-03
3510	564973.4	4222365	0.02547921	1.35E-02	3.35E-03	2.59E-03
3511	564974.5	4222374	0.02513717	1.33E-02	3.30E-03	2.55E-03
3512	564975.7	4222383	0.02475779	1.31E-02	3.25E-03	2.52E-03
3513	564980.4	4222420	0.02286278	1.21E-02	3.00E-03	2.32E-03
3514	564981.6	4222429	0.02232052	1.18E-02	2.93E-03	2.27E-03
3515	564950	4222339	0.02436628	1.29E-02	3.20E-03	2.48E-03
3516	564951.2	4222349	0.02414533	1.28E-02	3.17E-03	2.45E-03
3517	564952.4	4222358	0.02388416	1.27E-02	3.14E-03	2.43E-03
3518	564958.2	4222404	0.02214763	1.17E-02	2.91E-03	2.25E-03
3519	564959.4	4222413	0.02171271	1.15E-02	2.85E-03	2.21E-03
3520	564960.5	4222422	0.02125318	1.13E-02	2.79E-03	2.16E-03
3521	564961.7	4222432	0.02078327	1.10E-02	2.73E-03	2.11E-03
3522	564934.9	4222379	0.02165287	1.15E-02	2.84E-03	2.20E-03

3523	564936	4222388	0.021335	1.13E-02	2.80E-03	2.17E-03
3524	564937.2	4222397	0.02099126	1.11E-02	2.76E-03	2.13E-03
3525	564938.4	4222407	0.02062288	1.09E-02	2.71E-03	2.10E-03
3526	564939.5	4222416	0.02023269	1.07E-02	2.66E-03	2.06E-03
3527	564940.7	4222425	0.0198222	1.05E-02	2.60E-03	2.01E-03
3528	564941.9	4222434	0.01940543	1.03E-02	2.55E-03	1.97E-03
3529	564911.5	4222354	0.02094341	1.11E-02	2.75E-03	2.13E-03
3530	564912.7	4222363	0.02071799	1.10E-02	2.72E-03	2.11E-03
3531	564913.8	4222372	0.0204714	1.09E-02	2.69E-03	2.08E-03
3532	564915	4222381	0.02020308	1.07E-02	2.65E-03	2.05E-03
3533	564916.2	4222391	0.01991085	1.06E-02	2.61E-03	2.02E-03
3534	564917.4	4222400	0.01959791	1.04E-02	2.57E-03	1.99E-03
3535	564918.5	4222409	0.01926587	1.02E-02	2.53E-03	1.96E-03
3536	564919.7	4222418	0.0189139	1.00E-02	2.48E-03	1.92E-03
3537	564920.9	4222427	0.01854407	9.83E-03	2.44E-03	1.88E-03
3538	564922	4222437	0.01816821	9.63E-03	2.39E-03	1.85E-03
3539	564891.7	4222356	0.01957962	1.04E-02	2.57E-03	1.99E-03
3540	564892.8	4222365	0.01937531	1.03E-02	2.54E-03	1.97E-03
3541	564894	4222375	0.0191482	1.02E-02	2.51E-03	1.95E-03
3542	564895.2	4222384	0.01889924	1.00E-02	2.48E-03	1.92E-03
3543	564896.3	4222393	0.01863062	9.88E-03	2.45E-03	1.89E-03
3544	564897.5	4222402	0.01835028	9.73E-03	2.41E-03	1.86E-03
3545	564898.7	4222412	0.01805495	9.57E-03	2.37E-03	1.83E-03
3546	564899.9	4222421	0.01774249	9.41E-03	2.33E-03	1.80E-03
3547	564901	4222430	0.01741129	9.23E-03	2.29E-03	1.77E-03
3548	564902.2	4222439	0.01706217	9.05E-03	2.24E-03	1.73E-03
3549	564873	4222368	0.01816577	9.63E-03	2.39E-03	1.85E-03
3550	564874.2	4222377	0.01795358	9.52E-03	2.36E-03	1.82E-03
3551	564875.3	4222386	0.01772294	9.40E-03	2.33E-03	1.80E-03
3552	564876.5	4222396	0.01747476	9.27E-03	2.29E-03	1.78E-03
3553	564877.7	4222405	0.01721572	9.13E-03	2.26E-03	1.75E-03
3554	564878.8	4222414	0.01694294	8.98E-03	2.23E-03	1.72E-03
3555	564880	4222423	0.01665673	8.83E-03	2.19E-03	1.69E-03
3556	564881.2	4222433	0.01635912	8.67E-03	2.15E-03	1.66E-03
3557	564882.3	4222442	0.01604943	8.51E-03	2.11E-03	1.63E-03
3558	564852	4222361	0.01725193	9.15E-03	2.27E-03	1.75E-03
3559	564855.5	4222389	0.01665724	8.83E-03	2.19E-03	1.69E-03
3560	564856.7	4222398	0.01642846	8.71E-03	2.16E-03	1.67E-03
3561	564857.8	4222407	0.01618752	8.58E-03	2.13E-03	1.65E-03
3562	564859	4222417	0.01593227	8.45E-03	2.09E-03	1.62E-03
3563	564860.2	4222426	0.01566486	8.31E-03	2.06E-03	1.59E-03
3564	564861.3	4222435	0.01540219	8.17E-03	2.02E-03	1.57E-03
3565	564862.5	4222444	0.01512876	8.02E-03	1.99E-03	1.54E-03
3566	564831	4222355	0.01640124	8.70E-03	2.15E-03	1.67E-03
3567	564832.1	4222364	0.01624567	8.61E-03	2.13E-03	1.65E-03
3568	564833.3	4222373	0.01607428	8.52E-03	2.11E-03	1.63E-03
3569	564836.8	4222401	0.01548046	8.21E-03	2.03E-03	1.57E-03

3570	564838	4222410	0.0152634	8.09E-03	2.00E-03	1.55E-03
3571	564839.2	4222419	0.01503454	7.97E-03	1.97E-03	1.53E-03
3572	564840.3	4222428	0.01479516	7.84E-03	1.94E-03	1.50E-03
3573	564841.5	4222438	0.01454835	7.71E-03	1.91E-03	1.48E-03
3574	564842.7	4222447	0.01429302	7.58E-03	1.88E-03	1.45E-03
3575	564812.3	4222366	0.01532768	8.13E-03	2.01E-03	1.56E-03
3576	564813.5	4222375	0.01516644	8.04E-03	1.99E-03	1.54E-03
3577	564814.6	4222385	0.01499234	7.95E-03	1.97E-03	1.52E-03
3578	564815.8	4222394	0.01480624	7.85E-03	1.94E-03	1.50E-03
3579	564820.5	4222431	0.01398689	7.42E-03	1.84E-03	1.42E-03
3580	564821.7	4222440	0.01375934	7.30E-03	1.81E-03	1.40E-03
3581	564822.8	4222449	0.01352332	7.17E-03	1.78E-03	1.37E-03
3582	564792.5	4222369	0.01448907	7.68E-03	1.90E-03	1.47E-03
3583	564793.6	4222378	0.01433931	7.60E-03	1.88E-03	1.46E-03
3584	564794.8	4222387	0.01417807	7.52E-03	1.86E-03	1.44E-03
3585	564796	4222396	0.01400536	7.43E-03	1.84E-03	1.42E-03
3586	564797.1	4222406	0.01382693	7.33E-03	1.82E-03	1.41E-03
3587	564798.3	4222415	0.01363973	7.23E-03	1.79E-03	1.39E-03
3588	564799.5	4222424	0.01344454	7.13E-03	1.77E-03	1.37E-03
3589	564800.6	4222433	0.0132422	7.02E-03	1.74E-03	1.35E-03
3590	564772.6	4222371	0.01372222	7.28E-03	1.80E-03	1.39E-03
3591	564773.8	4222381	0.01358505	7.20E-03	1.78E-03	1.38E-03
3592	564775	4222390	0.01343765	7.12E-03	1.76E-03	1.37E-03
3593	564776.1	4222399	0.01327878	7.04E-03	1.74E-03	1.35E-03
3594	564777.3	4222408	0.01310806	6.95E-03	1.72E-03	1.33E-03
3595	564778.5	4222417	0.01292998	6.86E-03	1.70E-03	1.31E-03
3596	564779.6	4222427	0.01274512	6.76E-03	1.67E-03	1.30E-03
3597	564780.8	4222436	0.01255827	6.66E-03	1.65E-03	1.28E-03
3598	564782	4222445	0.01236486	6.56E-03	1.62E-03	1.26E-03
3599	564783.1	4222454	0.01216509	6.45E-03	1.60E-03	1.24E-03
3600	564752.8	4222374	0.01301551	6.90E-03	1.71E-03	1.32E-03
3601	564753.9	4222383	0.01288609	6.83E-03	1.69E-03	1.31E-03
3602	564755.1	4222392	0.0127477	6.76E-03	1.67E-03	1.30E-03
3603	564756.3	4222401	0.0125984	6.68E-03	1.65E-03	1.28E-03
3604	564757.5	4222411	0.01243912	6.60E-03	1.63E-03	1.26E-03
3605	564758.6	4222420	0.01227284	6.51E-03	1.61E-03	1.25E-03
3606	564759.8	4222429	0.01210202	6.42E-03	1.59E-03	1.23E-03
3607	564761	4222438	0.01192881	6.32E-03	1.57E-03	1.21E-03
3608	564762.1	4222448	0.01174959	6.23E-03	1.54E-03	1.19E-03
3609	564763.3	4222457	0.01156497	6.13E-03	1.52E-03	1.18E-03
3610	564732.9	4222376	0.01236849	6.56E-03	1.62E-03	1.26E-03
3611	564736.4	4222404	0.01197101	6.35E-03	1.57E-03	1.22E-03
3612	564737.6	4222413	0.01182305	6.27E-03	1.55E-03	1.20E-03
3613	564738.8	4222422	0.01166869	6.19E-03	1.53E-03	1.19E-03
3614	564740	4222432	0.01151027	6.10E-03	1.51E-03	1.17E-03
3615	564741.1	4222441	0.01134848	6.02E-03	1.49E-03	1.15E-03
3616	564742.3	4222450	0.01118189	5.93E-03	1.47E-03	1.14E-03

3617	564743.5	4222459	0.01100967	5.84E-03	1.45E-03	1.12E-03
3618	564711.9	4222370	0.01188575	6.30E-03	1.56E-03	1.21E-03
3619	564713.1	4222379	0.01177189	6.24E-03	1.55E-03	1.20E-03
3620	564714.3	4222388	0.01165086	6.18E-03	1.53E-03	1.18E-03
3621	564695.6	4222400	0.01098024	5.82E-03	1.44E-03	1.12E-03
3622	564696.8	4222409	0.01085845	5.76E-03	1.43E-03	1.10E-03
3623	564697.9	4222418	0.01073174	5.69E-03	1.41E-03	1.09E-03
3624	564699.1	4222427	0.01059965	5.62E-03	1.39E-03	1.08E-03
3625	564700.3	4222437	0.01045979	5.55E-03	1.37E-03	1.06E-03
3626	564701.4	4222446	0.01031641	5.47E-03	1.35E-03	1.05E-03
3627	564702.6	4222455	0.01016928	5.39E-03	1.34E-03	1.03E-03
3628	564703.8	4222464	0.0100189	5.31E-03	1.32E-03	1.02E-03
3629	565258.1	4222418	0.08703154	4.61E-02	1.14E-02	8.84E-03
3630	565251.7	4222407	0.08901307	4.72E-02	1.17E-02	9.05E-03
3631	565258.2	4222437	0.07734054	4.10E-02	1.02E-02	7.86E-03
3632	565251.8	4222425	0.07927226	4.20E-02	1.04E-02	8.06E-03
3633	565245.3	4222414	0.08145626	4.32E-02	1.07E-02	8.28E-03
3634	565252.1	4222444	0.06994016	3.71E-02	9.19E-03	7.11E-03
3635	565245.6	4222433	0.0723196	3.83E-02	9.50E-03	7.35E-03
3636	565239	4222421	0.07458059	3.95E-02	9.79E-03	7.58E-03
3637	565232.4	4222410	0.07680327	4.07E-02	1.01E-02	7.81E-03
3638	565255.8	4222460	0.06356976	3.37E-02	8.35E-03	6.46E-03
3639	565246	4222452	0.06319582	3.35E-02	8.30E-03	6.42E-03
3640	565239.4	4222440	0.0658705	3.49E-02	8.65E-03	6.69E-03
3641	565232.7	4222429	0.06827931	3.62E-02	8.97E-03	6.94E-03
3642	565226.1	4222417	0.07054862	3.74E-02	9.27E-03	7.17E-03
3643	565256.3	4222469	0.05833847	3.09E-02	7.66E-03	5.93E-03
3644	565239.9	4222460	0.05702526	3.02E-02	7.49E-03	5.80E-03
3645	565233.2	4222448	0.0599276	3.18E-02	7.87E-03	6.09E-03
3646	565226.5	4222436	0.06249218	3.31E-02	8.21E-03	6.35E-03
3647	565219.8	4222424	0.06482904	3.44E-02	8.51E-03	6.59E-03
3648	565213.1	4222412	0.06694134	3.55E-02	8.79E-03	6.80E-03
3649	565257	4222479	0.05311546	2.82E-02	6.98E-03	5.40E-03
3650	565243.8	4222475	0.05083946	2.70E-02	6.68E-03	5.17E-03
3651	565233.8	4222467	0.05146115	2.73E-02	6.76E-03	5.23E-03
3652	565227	4222456	0.0544884	2.89E-02	7.16E-03	5.54E-03
3653	565220.3	4222444	0.05716817	3.03E-02	7.51E-03	5.81E-03
3654	565213.5	4222432	0.05958513	3.16E-02	7.83E-03	6.06E-03
3655	565206.7	4222420	0.06174084	3.27E-02	8.11E-03	6.27E-03
3656	565257.7	4222489	0.04803174	2.55E-02	6.31E-03	4.88E-03
3657	565244.4	4222485	0.04641273	2.46E-02	6.10E-03	4.72E-03
3658	565227.7	4222475	0.04653884	2.47E-02	6.11E-03	4.73E-03
3659	565220.9	4222463	0.04957346	2.63E-02	6.51E-03	5.04E-03
3660	565214.1	4222451	0.05231907	2.77E-02	6.87E-03	5.32E-03
3661	565200.5	4222427	0.0569712	3.02E-02	7.48E-03	5.79E-03
3662	565193.7	4222415	0.05888589	3.12E-02	7.73E-03	5.98E-03
3663	565258.4	4222498	0.04322329	2.29E-02	5.68E-03	4.39E-03

3664	565245.1	4222495	0.04219614	2.24E-02	5.54E-03	4.29E-03
3665	565214.8	4222471	0.04517841	2.40E-02	5.93E-03	4.59E-03
3666	565207.9	4222459	0.04790705	2.54E-02	6.29E-03	4.87E-03
3667	565187.4	4222422	0.05453552	2.89E-02	7.16E-03	5.54E-03
3668	565259.2	4222508	0.03871097	2.05E-02	5.08E-03	3.93E-03
3669	565245.8	4222504	0.03819663	2.03E-02	5.02E-03	3.88E-03
3670	565208.6	4222478	0.04123254	2.19E-02	5.42E-03	4.19E-03
3671	565201.7	4222466	0.04390335	2.33E-02	5.77E-03	4.46E-03
3672	565181.1	4222430	0.05053408	2.68E-02	6.64E-03	5.14E-03
3673	565174.2	4222418	0.0522261	2.77E-02	6.86E-03	5.31E-03
3674	565260.1	4222518	0.03456534	1.83E-02	4.54E-03	3.51E-03
3675	565246.6	4222514	0.03446041	1.83E-02	4.53E-03	3.50E-03
3676	565233.1	4222510	0.03419443	1.81E-02	4.49E-03	3.48E-03
3677	565219.6	4222506	0.03377977	1.79E-02	4.44E-03	3.43E-03
3678	565209.4	4222498	0.03493786	1.85E-02	4.59E-03	3.55E-03
3679	565195.6	4222474	0.04028645	2.14E-02	5.29E-03	4.09E-03
3680	565181.8	4222450	0.04487598	2.38E-02	5.89E-03	4.56E-03
3681	565174.9	4222437	0.04684837	2.48E-02	6.15E-03	4.76E-03
3682	565167.9	4222425	0.04856659	2.57E-02	6.38E-03	4.94E-03
3683	565274.5	4222531	0.0304729	1.62E-02	4.00E-03	3.10E-03
3684	565261	4222527	0.03084456	1.64E-02	4.05E-03	3.13E-03
3685	565247.4	4222524	0.03101611	1.64E-02	4.07E-03	3.15E-03
3686	565233.9	4222520	0.03103776	1.65E-02	4.08E-03	3.15E-03
3687	565220.3	4222516	0.03088353	1.64E-02	4.06E-03	3.14E-03
3688	565203.3	4222506	0.03190141	1.69E-02	4.19E-03	3.24E-03
3689	565182.5	4222469	0.03932096	2.08E-02	5.16E-03	4.00E-03
3690	565175.6	4222457	0.04149413	2.20E-02	5.45E-03	4.22E-03
3691	565168.6	4222445	0.0434521	2.30E-02	5.71E-03	4.42E-03
3692	565161.7	4222433	0.0451825	2.40E-02	5.93E-03	4.59E-03
3693	565154.7	4222420	0.04666419	2.47E-02	6.13E-03	4.74E-03
3694	565275.5	4222541	0.02698091	1.43E-02	3.54E-03	2.74E-03
3695	565261.9	4222537	0.02752102	1.46E-02	3.61E-03	2.80E-03
3696	565248.3	4222533	0.02788649	1.48E-02	3.66E-03	2.83E-03
3697	565234.7	4222529	0.02812506	1.49E-02	3.69E-03	2.86E-03
3698	565221.1	4222526	0.02818593	1.49E-02	3.70E-03	2.86E-03
3699	565207.5	4222522	0.02807232	1.49E-02	3.69E-03	2.85E-03
3700	565183.3	4222489	0.03402369	1.80E-02	4.47E-03	3.46E-03
3701	565176.4	4222477	0.03626044	1.92E-02	4.76E-03	3.69E-03
3702	565169.4	4222465	0.03837646	2.03E-02	5.04E-03	3.90E-03
3703	565162.4	4222452	0.04032558	2.14E-02	5.30E-03	4.10E-03
3704	565155.5	4222440	0.04204129	2.23E-02	5.52E-03	4.27E-03
3705	565148.5	4222428	0.04356058	2.31E-02	5.72E-03	4.43E-03
3706	565276.4	4222551	0.02394067	1.27E-02	3.14E-03	2.43E-03
3707	565262.8	4222547	0.02458533	1.30E-02	3.23E-03	2.50E-03
3708	565249.2	4222543	0.02506955	1.33E-02	3.29E-03	2.55E-03
3709	565235.5	4222539	0.02545751	1.35E-02	3.34E-03	2.59E-03
3710	565221.9	4222535	0.02568454	1.36E-02	3.37E-03	2.61E-03

3711	565208.3	4222531	0.02574124	1.36E-02	3.38E-03	2.62E-03
3712	565177.2	4222497	0.03134309	1.66E-02	4.12E-03	3.19E-03
3713	565170.2	4222484	0.03347069	1.77E-02	4.40E-03	3.40E-03
3714	565163.2	4222472	0.03551535	1.88E-02	4.66E-03	3.61E-03
3715	565156.2	4222460	0.03742053	1.98E-02	4.91E-03	3.80E-03
3716	565149.2	4222448	0.03912828	2.07E-02	5.14E-03	3.98E-03
3717	565142.3	4222435	0.04065829	2.16E-02	5.34E-03	4.13E-03
3718	565135.3	4222423	0.04197273	2.23E-02	5.51E-03	4.27E-03
3719	565277.4	4222560	0.02130399	1.13E-02	2.80E-03	2.17E-03
3720	565263.8	4222557	0.02199131	1.17E-02	2.89E-03	2.23E-03
3721	565250.1	4222553	0.0225542	1.20E-02	2.96E-03	2.29E-03
3722	565222.8	4222545	0.02338826	1.24E-02	3.07E-03	2.38E-03
3723	565209.1	4222541	0.023572	1.25E-02	3.10E-03	2.40E-03
3724	565178.1	4222517	0.02684336	1.42E-02	3.53E-03	2.73E-03
3725	565171.1	4222504	0.02894149	1.53E-02	3.80E-03	2.94E-03
3726	565164.1	4222492	0.0309564	1.64E-02	4.07E-03	3.15E-03
3727	565157.1	4222480	0.03291073	1.74E-02	4.32E-03	3.34E-03
3728	565150.1	4222467	0.03475426	1.84E-02	4.56E-03	3.53E-03
3729	565143	4222455	0.03643084	1.93E-02	4.78E-03	3.70E-03
3730	565136	4222443	0.0379548	2.01E-02	4.98E-03	3.86E-03
3731	565129	4222430	0.03930921	2.08E-02	5.16E-03	3.99E-03
3732	565267.5	4222567	0.0195939	1.04E-02	2.57E-03	1.99E-03
3733	565254.4	4222563	0.02017998	1.07E-02	2.65E-03	2.05E-03
3734	565215.2	4222552	0.02146311	1.14E-02	2.82E-03	2.18E-03
3735	565202.1	4222549	0.02168455	1.15E-02	2.85E-03	2.20E-03
3736	565179.2	4222537	0.02281227	1.21E-02	3.00E-03	2.32E-03
3737	565172.5	4222525	0.02469577	1.31E-02	3.24E-03	2.51E-03
3738	565165.7	4222514	0.02656812	1.41E-02	3.49E-03	2.70E-03
3739	565159	4222502	0.02839443	1.51E-02	3.73E-03	2.89E-03
3740	565152.3	4222490	0.0301775	1.60E-02	3.96E-03	3.07E-03
3741	565145.6	4222478	0.03189237	1.69E-02	4.19E-03	3.24E-03
3742	565138.9	4222466	0.03348893	1.78E-02	4.40E-03	3.40E-03
3743	565132.2	4222454	0.03494606	1.85E-02	4.59E-03	3.55E-03
3744	565125.5	4222443	0.03631389	1.93E-02	4.77E-03	3.69E-03
3745	565268.4	4222577	0.01763246	9.35E-03	2.32E-03	1.79E-03
3746	565255.3	4222573	0.01821803	9.66E-03	2.39E-03	1.85E-03
3747	565173.1	4222545	0.02114223	1.12E-02	2.78E-03	2.15E-03
3748	565166.3	4222533	0.02289668	1.21E-02	3.01E-03	2.33E-03
3749	565159.6	4222521	0.02464518	1.31E-02	3.24E-03	2.50E-03
3750	565152.9	4222509	0.02636175	1.40E-02	3.46E-03	2.68E-03
3751	565146.1	4222497	0.02806113	1.49E-02	3.69E-03	2.85E-03
3752	565139.4	4222486	0.02971441	1.58E-02	3.90E-03	3.02E-03
3753	565132.7	4222474	0.03125476	1.66E-02	4.10E-03	3.18E-03
3754	565125.9	4222462	0.03268986	1.73E-02	4.29E-03	3.32E-03
3755	565105.7	4222426	0.03623374	1.92E-02	4.76E-03	3.68E-03
3756	565269.3	4222587	0.01593926	8.45E-03	2.09E-03	1.62E-03
3757	565256.1	4222583	0.01649809	8.75E-03	2.17E-03	1.68E-03

3758	565242.9	4222579	0.01701392	9.02E-03	2.23E-03	1.73E-03
3759	565229.7	4222575	0.01747439	9.26E-03	2.29E-03	1.78E-03
3760	565216.5	4222572	0.01789209	9.49E-03	2.35E-03	1.82E-03
3761	565167	4222553	0.01964102	1.04E-02	2.58E-03	2.00E-03
3762	565160.2	4222541	0.02127502	1.13E-02	2.79E-03	2.16E-03
3763	565153.5	4222529	0.02290902	1.21E-02	3.01E-03	2.33E-03
3764	565146.7	4222517	0.02451093	1.30E-02	3.22E-03	2.49E-03
3765	565139.9	4222505	0.02612266	1.39E-02	3.43E-03	2.65E-03
3766	565133.2	4222493	0.02770572	1.47E-02	3.64E-03	2.82E-03
3767	565126.4	4222481	0.02921562	1.55E-02	3.84E-03	2.97E-03
3768	565106.1	4222445	0.03308285	1.75E-02	4.34E-03	3.36E-03
3769	565099.4	4222433	0.03410847	1.81E-02	4.48E-03	3.47E-03
3770	565270.2	4222596	0.01447033	7.67E-03	1.90E-03	1.47E-03
3771	565256.9	4222593	0.0149907	7.95E-03	1.97E-03	1.52E-03
3772	565243.7	4222589	0.0154867	8.21E-03	2.03E-03	1.57E-03
3773	565230.5	4222585	0.01594324	8.45E-03	2.09E-03	1.62E-03
3774	565217.2	4222581	0.01636563	8.68E-03	2.15E-03	1.66E-03
3775	565204	4222578	0.0167471	8.88E-03	2.20E-03	1.70E-03
3776	565190.8	4222574	0.01706978	9.05E-03	2.24E-03	1.73E-03
3777	565177.5	4222570	0.01733485	9.19E-03	2.28E-03	1.76E-03
3778	565154.1	4222548	0.01981241	1.05E-02	2.60E-03	2.01E-03
3779	565147.3	4222536	0.02134326	1.13E-02	2.80E-03	2.17E-03
3780	565140.5	4222524	0.02285388	1.21E-02	3.00E-03	2.32E-03
3781	565133.8	4222512	0.02434463	1.29E-02	3.20E-03	2.47E-03
3782	565127	4222501	0.02587526	1.37E-02	3.40E-03	2.63E-03
3783	565106.6	4222465	0.02994277	1.59E-02	3.93E-03	3.04E-03
3784	565099.8	4222453	0.0310943	1.65E-02	4.08E-03	3.16E-03
3785	565093.1	4222441	0.03212183	1.70E-02	4.22E-03	3.26E-03
3786	565086.3	4222429	0.03298236	1.75E-02	4.33E-03	3.35E-03
3787	565271.1	4222606	0.01319247	6.99E-03	1.73E-03	1.34E-03
3788	565257.8	4222602	0.01366934	7.25E-03	1.80E-03	1.39E-03
3789	565244.5	4222598	0.01413729	7.50E-03	1.86E-03	1.44E-03
3790	565231.3	4222595	0.01457912	7.73E-03	1.91E-03	1.48E-03
3791	565218	4222591	0.01499874	7.95E-03	1.97E-03	1.52E-03
3792	565204.7	4222587	0.01538965	8.16E-03	2.02E-03	1.56E-03
3793	565191.4	4222583	0.01573291	8.34E-03	2.07E-03	1.60E-03
3794	565178.1	4222580	0.01602345	8.50E-03	2.10E-03	1.63E-03
3795	565164.9	4222576	0.01627036	8.63E-03	2.14E-03	1.65E-03
3796	565154.8	4222568	0.01705502	9.04E-03	2.24E-03	1.73E-03
3797	565148	4222556	0.01847761	9.80E-03	2.43E-03	1.88E-03
3798	565141.2	4222544	0.01992995	1.06E-02	2.62E-03	2.03E-03
3799	565134.4	4222532	0.02135313	1.13E-02	2.80E-03	2.17E-03
3800	565127.6	4222520	0.0227708	1.21E-02	2.99E-03	2.31E-03
3801	565107.2	4222484	0.02691256	1.43E-02	3.53E-03	2.74E-03
3802	565100.4	4222472	0.02813507	1.49E-02	3.69E-03	2.86E-03
3803	565093.5	4222460	0.02925763	1.55E-02	3.84E-03	2.97E-03
3804	565086.7	4222448	0.03027212	1.61E-02	3.98E-03	3.08E-03

3805	565079.9	4222436	0.03114688	1.65E-02	4.09E-03	3.17E-03
3806	565272	4222616	0.01207814	6.40E-03	1.59E-03	1.23E-03
3807	565258.7	4222612	0.01251131	6.63E-03	1.64E-03	1.27E-03
3808	565245.4	4222608	0.01294499	6.86E-03	1.70E-03	1.32E-03
3809	565232.1	4222604	0.01336506	7.09E-03	1.76E-03	1.36E-03
3810	565218.8	4222601	0.01377021	7.30E-03	1.81E-03	1.40E-03
3811	565205.4	4222597	0.01416069	7.51E-03	1.86E-03	1.44E-03
3812	565192.1	4222593	0.01451226	7.69E-03	1.91E-03	1.47E-03
3813	565178.8	4222589	0.01481259	7.85E-03	1.95E-03	1.51E-03
3814	565165.5	4222586	0.01507717	7.99E-03	1.98E-03	1.53E-03
3815	565148.7	4222576	0.01593461	8.45E-03	2.09E-03	1.62E-03
3816	565135.1	4222552	0.01863008	9.88E-03	2.45E-03	1.89E-03
3817	565128.2	4222540	0.01998568	1.06E-02	2.62E-03	2.03E-03
3818	565107.8	4222504	0.0240124	1.27E-02	3.15E-03	2.44E-03
3819	565100.9	4222491	0.02527114	1.34E-02	3.32E-03	2.57E-03
3820	565094.1	4222479	0.02645728	1.40E-02	3.47E-03	2.69E-03
3821	565087.3	4222467	0.02755752	1.46E-02	3.62E-03	2.80E-03
3822	565080.4	4222455	0.0285545	1.51E-02	3.75E-03	2.90E-03
3823	565073.6	4222443	0.02943187	1.56E-02	3.87E-03	2.99E-03
3824	565066.8	4222431	0.03018051	1.60E-02	3.96E-03	3.07E-03
3825	565286.4	4222629	0.01073346	5.69E-03	1.41E-03	1.09E-03
3826	565273	4222625	0.01110537	5.89E-03	1.46E-03	1.13E-03
3827	565259.6	4222622	0.01149459	6.09E-03	1.51E-03	1.17E-03
3828	565246.3	4222618	0.01189344	6.31E-03	1.56E-03	1.21E-03
3829	565232.9	4222614	0.01229057	6.52E-03	1.61E-03	1.25E-03
3830	565219.6	4222610	0.01267476	6.72E-03	1.66E-03	1.29E-03
3831	565206.2	4222607	0.01304946	6.92E-03	1.71E-03	1.33E-03
3832	565192.8	4222603	0.01340008	7.10E-03	1.76E-03	1.36E-03
3833	565179.5	4222599	0.01370318	7.27E-03	1.80E-03	1.39E-03
3834	565166.1	4222595	0.01397556	7.41E-03	1.84E-03	1.42E-03
3835	565152.8	4222591	0.01422546	7.54E-03	1.87E-03	1.45E-03
3836	565142.6	4222583	0.01492762	7.91E-03	1.96E-03	1.52E-03
3837	565135.8	4222571	0.01614822	8.56E-03	2.12E-03	1.64E-03
3838	565101.6	4222511	0.02254868	1.20E-02	2.96E-03	2.29E-03
3839	565094.7	4222499	0.02374766	1.26E-02	3.12E-03	2.41E-03
3840	565087.9	4222487	0.02490206	1.32E-02	3.27E-03	2.53E-03
3841	565081	4222475	0.02597376	1.38E-02	3.41E-03	2.64E-03
3842	565074.2	4222463	0.02695681	1.43E-02	3.54E-03	2.74E-03
3843	565067.3	4222451	0.02783595	1.48E-02	3.66E-03	2.83E-03
3844	565060.5	4222439	0.02859925	1.52E-02	3.76E-03	2.91E-03
3845	565287.3	4222639	0.009923499	5.26E-03	1.30E-03	1.01E-03
3846	565274	4222635	0.01025164	5.44E-03	1.35E-03	1.04E-03
3847	565260.6	4222631	0.01059912	5.62E-03	1.39E-03	1.08E-03
3848	565247.2	4222628	0.01096273	5.81E-03	1.44E-03	1.11E-03
3849	565233.8	4222624	0.01133439	6.01E-03	1.49E-03	1.15E-03
3850	565220.4	4222620	0.01169887	6.20E-03	1.54E-03	1.19E-03
3851	565207	4222616	0.01205275	6.39E-03	1.58E-03	1.22E-03

3852	565193.6	4222612	0.01239148	6.57E-03	1.63E-03	1.26E-03
3853	565180.2	4222609	0.0126924	6.73E-03	1.67E-03	1.29E-03
3854	565166.8	4222605	0.01296231	6.87E-03	1.70E-03	1.32E-03
3855	565153.4	4222601	0.0132334	7.02E-03	1.74E-03	1.34E-03
3856	565136.6	4222591	0.01402051	7.43E-03	1.84E-03	1.42E-03
3857	565129.7	4222579	0.01514869	8.03E-03	1.99E-03	1.54E-03
3858	565102.2	4222531	0.01998401	1.06E-02	2.62E-03	2.03E-03
3859	565095.4	4222519	0.02118113	1.12E-02	2.78E-03	2.15E-03
3860	565088.5	4222506	0.02233265	1.18E-02	2.93E-03	2.27E-03
3861	565081.6	4222494	0.02344588	1.24E-02	3.08E-03	2.38E-03
3862	565074.8	4222482	0.02450112	1.30E-02	3.22E-03	2.49E-03
3863	565067.9	4222470	0.02546603	1.35E-02	3.34E-03	2.59E-03
3864	565061	4222458	0.02633902	1.40E-02	3.46E-03	2.68E-03
3865	565054.2	4222446	0.02710902	1.44E-02	3.56E-03	2.75E-03
3866	565047.3	4222434	0.02776403	1.47E-02	3.65E-03	2.82E-03
3867	565288.4	4222649	0.009211033	4.88E-03	1.21E-03	9.36E-04
3868	565274.9	4222645	0.009499742	5.04E-03	1.25E-03	9.65E-04
3869	565261.5	4222641	0.009808246	5.20E-03	1.29E-03	9.97E-04
3870	565234.6	4222633	0.01048203	5.56E-03	1.38E-03	1.07E-03
3871	565221.2	4222630	0.01082343	5.74E-03	1.42E-03	1.10E-03
3872	565207.8	4222626	0.01115378	5.91E-03	1.46E-03	1.13E-03
3873	565194.4	4222622	0.01147493	6.08E-03	1.51E-03	1.17E-03
3874	565180.9	4222618	0.01177897	6.25E-03	1.55E-03	1.20E-03
3875	565167.5	4222615	0.01205382	6.39E-03	1.58E-03	1.22E-03
3876	565154.1	4222611	0.01232144	6.53E-03	1.62E-03	1.25E-03
3877	565140.6	4222607	0.01257285	6.67E-03	1.65E-03	1.28E-03
3878	565130.5	4222599	0.01319932	7.00E-03	1.73E-03	1.34E-03
3879	565123.6	4222587	0.01425451	7.56E-03	1.87E-03	1.45E-03
3880	565116.7	4222575	0.01534735	8.14E-03	2.02E-03	1.56E-03
3881	565102.9	4222550	0.01762356	9.34E-03	2.31E-03	1.79E-03
3882	565096.1	4222538	0.01877864	9.96E-03	2.47E-03	1.91E-03
3883	565089.2	4222526	0.01991639	1.06E-02	2.62E-03	2.02E-03
3884	565082.3	4222514	0.02101668	1.11E-02	2.76E-03	2.14E-03
3885	565075.4	4222502	0.02208881	1.17E-02	2.90E-03	2.24E-03
3886	565068.5	4222490	0.02312277	1.23E-02	3.04E-03	2.35E-03
3887	565061.7	4222478	0.02407246	1.28E-02	3.16E-03	2.45E-03
3888	565054.8	4222465	0.02493453	1.32E-02	3.27E-03	2.53E-03
3889	565047.9	4222453	0.02570539	1.36E-02	3.38E-03	2.61E-03
3890	565041	4222441	0.0263679	1.40E-02	3.46E-03	2.68E-03
3891	565289.4	4222658	0.008580306	4.55E-03	1.13E-03	8.72E-04
3892	565275.9	4222655	0.008834344	4.68E-03	1.16E-03	8.98E-04
3893	565262.4	4222651	0.00910896	4.83E-03	1.20E-03	9.26E-04
3894	565235.5	4222643	0.009717094	5.15E-03	1.28E-03	9.88E-04
3895	565222.1	4222639	0.01003617	5.32E-03	1.32E-03	1.02E-03
3896	565208.6	4222636	0.01034475	5.48E-03	1.36E-03	1.05E-03
3897	565195.1	4222632	0.01064594	5.64E-03	1.40E-03	1.08E-03
3898	565181.7	4222628	0.01094372	5.80E-03	1.44E-03	1.11E-03

3899	565168.2	4222624	0.0112225	5.95E-03	1.47E-03	1.14E-03
3900	565154.8	4222620	0.01148706	6.09E-03	1.51E-03	1.17E-03
3901	565141.3	4222617	0.01173746	6.22E-03	1.54E-03	1.19E-03
3902	565124.4	4222607	0.01244589	6.60E-03	1.63E-03	1.26E-03
3903	565117.5	4222595	0.01343534	7.12E-03	1.76E-03	1.37E-03
3904	565110.6	4222582	0.01445715	7.67E-03	1.90E-03	1.47E-03
3905	565103.7	4222570	0.01551343	8.23E-03	2.04E-03	1.58E-03
3906	565089.9	4222546	0.01767665	9.37E-03	2.32E-03	1.80E-03
3907	565083	4222534	0.01875548	9.94E-03	2.46E-03	1.91E-03
3908	565076.1	4222522	0.01980281	1.05E-02	2.60E-03	2.01E-03
3909	565069.2	4222509	0.02083158	1.10E-02	2.74E-03	2.12E-03
3910	565062.3	4222497	0.02183245	1.16E-02	2.87E-03	2.22E-03
3911	565055.4	4222485	0.02277102	1.21E-02	2.99E-03	2.31E-03
3912	565048.5	4222473	0.02361904	1.25E-02	3.10E-03	2.40E-03
3913	565041.6	4222461	0.02438159	1.29E-02	3.20E-03	2.48E-03
3914	565034.7	4222448	0.02504217	1.33E-02	3.29E-03	2.54E-03
3915	565027.8	4222436	0.02560261	1.36E-02	3.36E-03	2.60E-03
3916	565290.4	4222668	0.008020478	4.25E-03	1.05E-03	8.15E-04
3917	565276.9	4222664	0.008243613	4.37E-03	1.08E-03	8.38E-04
3918	565263.4	4222661	0.008487243	4.50E-03	1.11E-03	8.63E-04
3919	565249.9	4222657	0.008749594	4.64E-03	1.15E-03	8.89E-04
3920	565222.9	4222649	0.0093258	4.94E-03	1.22E-03	9.48E-04
3921	565209.5	4222645	0.009611739	5.10E-03	1.26E-03	9.77E-04
3922	565196	4222641	0.009895661	5.25E-03	1.30E-03	1.01E-03
3923	565182.5	4222638	0.01018249	5.40E-03	1.34E-03	1.03E-03
3924	565169	4222634	0.01045896	5.55E-03	1.37E-03	1.06E-03
3925	565155.5	4222630	0.01071878	5.68E-03	1.41E-03	1.09E-03
3926	565142	4222626	0.01096445	5.81E-03	1.44E-03	1.11E-03
3927	565128.5	4222622	0.01119369	5.93E-03	1.47E-03	1.14E-03
3928	565118.3	4222614	0.01175072	6.23E-03	1.54E-03	1.19E-03
3929	565111.4	4222602	0.01268113	6.72E-03	1.67E-03	1.29E-03
3930	565104.5	4222590	0.01364215	7.23E-03	1.79E-03	1.39E-03
3931	565097.6	4222578	0.01463577	7.76E-03	1.92E-03	1.49E-03
3932	565083.8	4222553	0.01667817	8.84E-03	2.19E-03	1.69E-03
3933	565076.8	4222541	0.01768956	9.38E-03	2.32E-03	1.80E-03
3934	565069.9	4222529	0.01869221	9.91E-03	2.45E-03	1.90E-03
3935	565063	4222517	0.01966749	1.04E-02	2.58E-03	2.00E-03
3936	565056.1	4222505	0.02063087	1.09E-02	2.71E-03	2.10E-03
3937	565049.2	4222492	0.02154453	1.14E-02	2.83E-03	2.19E-03
3938	565042.3	4222480	0.02238284	1.19E-02	2.94E-03	2.27E-03
3939	565291.4	4222678	0.007520227	3.99E-03	9.88E-04	7.64E-04
3940	565277.9	4222674	0.00771695	4.09E-03	1.01E-03	7.84E-04
3941	565264.4	4222670	0.00793258	4.21E-03	1.04E-03	8.06E-04
3942	565250.9	4222666	0.008166797	4.33E-03	1.07E-03	8.30E-04
3943	565142.7	4222636	0.01025097	5.44E-03	1.35E-03	1.04E-03
3944	565129.2	4222632	0.01047899	5.56E-03	1.38E-03	1.06E-03
3945	565112.2	4222622	0.01111429	5.89E-03	1.46E-03	1.13E-03

3946	565105.3	4222610	0.01198612	6.36E-03	1.57E-03	1.22E-03
3947	565098.4	4222598	0.01289163	6.84E-03	1.69E-03	1.31E-03
3948	565091.5	4222585	0.01383083	7.33E-03	1.82E-03	1.41E-03
3949	565084.5	4222573	0.01479432	7.84E-03	1.94E-03	1.50E-03
3950	565070.7	4222549	0.01671259	8.86E-03	2.19E-03	1.70E-03
3951	565063.7	4222537	0.01766552	9.37E-03	2.32E-03	1.80E-03
3952	565056.8	4222524	0.0186005	9.86E-03	2.44E-03	1.89E-03
3953	565049.9	4222512	0.01951235	1.03E-02	2.56E-03	1.98E-03
3954	565293.5	4222698	0.006654343	3.53E-03	8.74E-04	6.76E-04
3955	565279.9	4222694	0.006807923	3.61E-03	8.94E-04	6.92E-04
3956	565266.3	4222690	0.006977614	3.70E-03	9.16E-04	7.09E-04
3957	565252.7	4222686	0.007162556	3.80E-03	9.41E-04	7.28E-04
3958	565225.6	4222679	0.00758556	4.02E-03	9.96E-04	7.71E-04
3959	565212	4222675	0.007808291	4.14E-03	1.03E-03	7.94E-04
3960	565198.4	4222671	0.008034384	4.26E-03	1.06E-03	8.17E-04
3961	565184.8	4222667	0.008266529	4.38E-03	1.09E-03	8.40E-04
3962	565171.3	4222663	0.008504	4.51E-03	1.12E-03	8.64E-04
3963	565157.7	4222659	0.008741766	4.63E-03	1.15E-03	8.88E-04
3964	565144.1	4222655	0.008975149	4.76E-03	1.18E-03	9.12E-04
3965	565130.5	4222652	0.009195836	4.88E-03	1.21E-03	9.35E-04
3966	565099.9	4222638	0.009972182	5.29E-03	1.31E-03	1.01E-03
3967	565092.9	4222626	0.01073634	5.69E-03	1.41E-03	1.09E-03
3968	565086	4222613	0.01153526	6.12E-03	1.51E-03	1.17E-03
3969	565079	4222601	0.01236569	6.56E-03	1.62E-03	1.26E-03
3970	565072	4222589	0.0132277	7.01E-03	1.74E-03	1.34E-03
3971	565065.1	4222576	0.0141005	7.48E-03	1.85E-03	1.43E-03
3972	565051.2	4222552	0.01581497	8.39E-03	2.08E-03	1.61E-03
3973	565030.3	4222515	0.01829907	9.70E-03	2.40E-03	1.86E-03
3974	565023.3	4222503	0.01906936	1.01E-02	2.50E-03	1.94E-03
3975	565016.4	4222491	0.01978218	1.05E-02	2.60E-03	2.01E-03
3976	565009.4	4222478	0.02043628	1.08E-02	2.68E-03	2.08E-03
3977	565002.4	4222466	0.02103155	1.12E-02	2.76E-03	2.14E-03
3978	565295.5	4222718	0.00594454	3.15E-03	7.81E-04	6.04E-04
3979	565281.9	4222714	0.006063423	3.21E-03	7.96E-04	6.16E-04
3980	565268.3	4222710	0.006200543	3.29E-03	8.14E-04	6.30E-04
3981	565241	4222702	0.006514911	3.45E-03	8.56E-04	6.62E-04
3982	565227.4	4222698	0.006691944	3.55E-03	8.79E-04	6.80E-04
3983	565213.7	4222694	0.006878661	3.65E-03	9.03E-04	6.99E-04
3984	565200.1	4222691	0.007072882	3.75E-03	9.29E-04	7.19E-04
3985	565186.5	4222687	0.007272455	3.86E-03	9.55E-04	7.39E-04
3986	565172.8	4222683	0.007477059	3.96E-03	9.82E-04	7.60E-04
3987	565159.2	4222679	0.007684459	4.07E-03	1.01E-03	7.81E-04
3988	565145.6	4222675	0.007894064	4.19E-03	1.04E-03	8.02E-04
3989	565131.9	4222671	0.008101034	4.30E-03	1.06E-03	8.23E-04
3990	565118.3	4222667	0.008296573	4.40E-03	1.09E-03	8.43E-04
3991	565104.6	4222664	0.00848415	4.50E-03	1.11E-03	8.62E-04
3992	565087.5	4222654	0.008986231	4.76E-03	1.18E-03	9.13E-04

3993	565073.5	4222629	0.01037558	5.50E-03	1.36E-03	1.05E-03
3994	565066.6	4222617	0.01111524	5.89E-03	1.46E-03	1.13E-03
3995	565059.6	4222604	0.01188139	6.30E-03	1.56E-03	1.21E-03
3996	565052.6	4222592	0.0126637	6.71E-03	1.66E-03	1.29E-03
3997	565031.6	4222555	0.01500452	7.96E-03	1.97E-03	1.52E-03
3998	565024.6	4222543	0.01577261	8.36E-03	2.07E-03	1.60E-03
3999	565017.6	4222530	0.01651208	8.75E-03	2.17E-03	1.68E-03
4000	565010.6	4222518	0.01721244	9.13E-03	2.26E-03	1.75E-03
4001	565003.6	4222506	0.01788854	9.48E-03	2.35E-03	1.82E-03
4002	564996.7	4222493	0.01852333	9.82E-03	2.43E-03	1.88E-03
4003	564989.7	4222481	0.01910634	1.01E-02	2.51E-03	1.94E-03
4004	564968.7	4222444	0.02047471	1.09E-02	2.69E-03	2.08E-03
4005	565298.8	4222738	0.005349747	2.84E-03	7.03E-04	5.44E-04
4006	565285.5	4222734	0.005437619	2.88E-03	7.14E-04	5.53E-04
4007	565272.2	4222730	0.005543483	2.94E-03	7.28E-04	5.63E-04
4008	565245.5	4222723	0.005789696	3.07E-03	7.60E-04	5.88E-04
4009	565232.1	4222719	0.005928294	3.14E-03	7.79E-04	6.02E-04
4010	565218.8	4222715	0.006075796	3.22E-03	7.98E-04	6.17E-04
4011	565205.4	4222711	0.006231796	3.30E-03	8.18E-04	6.33E-04
4012	565192.1	4222708	0.006395651	3.39E-03	8.40E-04	6.50E-04
4013	565178.7	4222704	0.006565369	3.48E-03	8.62E-04	6.67E-04
4014	565165.4	4222700	0.006739632	3.57E-03	8.85E-04	6.85E-04
4015	565152.1	4222696	0.006917096	3.67E-03	9.08E-04	7.03E-04
4016	565138.7	4222692	0.007094641	3.76E-03	9.32E-04	7.21E-04
4017	565125.4	4222689	0.007271379	3.86E-03	9.55E-04	7.39E-04
4018	565112	4222685	0.007445159	3.95E-03	9.78E-04	7.57E-04
4019	565098.7	4222681	0.007613585	4.04E-03	1.00E-03	7.74E-04
4020	565085.3	4222677	0.007775611	4.12E-03	1.02E-03	7.90E-04
4021	565075.2	4222669	0.008132961	4.31E-03	1.07E-03	8.27E-04
4022	565068.4	4222657	0.008716592	4.62E-03	1.14E-03	8.86E-04
4023	565054.7	4222633	0.009976028	5.29E-03	1.31E-03	1.01E-03
4024	565027.4	4222585	0.01271053	6.74E-03	1.67E-03	1.29E-03
4025	565020.5	4222573	0.0134014	7.11E-03	1.76E-03	1.36E-03
4026	565013.7	4222561	0.01409353	7.47E-03	1.85E-03	1.43E-03
4027	565006.8	4222549	0.01477117	7.83E-03	1.94E-03	1.50E-03
4028	565000	4222537	0.01541921	8.18E-03	2.02E-03	1.57E-03
4029	564993.2	4222525	0.01603716	8.50E-03	2.11E-03	1.63E-03
4030	564986.3	4222513	0.01662701	8.82E-03	2.18E-03	1.69E-03
4031	564979.5	4222501	0.01719515	9.12E-03	2.26E-03	1.75E-03
4032	564972.7	4222488	0.01771595	9.39E-03	2.33E-03	1.80E-03
4033	564952.1	4222452	0.01898149	1.01E-02	2.49E-03	1.93E-03
4034	565300.9	4222758	0.004858022	2.58E-03	6.38E-04	4.94E-04
4035	565287.5	4222754	0.004928975	2.61E-03	6.47E-04	5.01E-04
4036	565274.1	4222750	0.0050137	2.66E-03	6.58E-04	5.10E-04
4037	565247.3	4222742	0.005214699	2.76E-03	6.85E-04	5.30E-04
4038	565233.9	4222739	0.005328096	2.82E-03	7.00E-04	5.41E-04
4039	565220.5	4222735	0.005449506	2.89E-03	7.16E-04	5.54E-04

4040	565207.1	4222731	0.005578853	2.96E-03	7.33E-04	5.67E-04
4041	565193.7	4222727	0.005715058	3.03E-03	7.51E-04	5.81E-04
4042	565180.3	4222723	0.005857745	3.11E-03	7.69E-04	5.95E-04
4043	565166.9	4222720	0.006006053	3.18E-03	7.89E-04	6.10E-04
4044	565153.5	4222716	0.006158772	3.27E-03	8.09E-04	6.26E-04
4045	565140	4222712	0.006314557	3.35E-03	8.29E-04	6.42E-04
4046	565126.6	4222708	0.006471795	3.43E-03	8.50E-04	6.58E-04
4047	565113.2	4222704	0.006628899	3.51E-03	8.71E-04	6.74E-04
4048	565099.8	4222701	0.006784335	3.60E-03	8.91E-04	6.89E-04
4049	565086.4	4222697	0.00693665	3.68E-03	9.11E-04	7.05E-04
4050	565073	4222693	0.007084555	3.76E-03	9.30E-04	7.20E-04
4051	565062.9	4222685	0.007403308	3.93E-03	9.72E-04	7.52E-04
4052	565056	4222673	0.007921203	4.20E-03	1.04E-03	8.05E-04
4053	565049.1	4222661	0.008468927	4.49E-03	1.11E-03	8.61E-04
4054	565028.5	4222625	0.01025788	5.44E-03	1.35E-03	1.04E-03
4055	565021.7	4222612	0.01088696	5.77E-03	1.43E-03	1.11E-03
4056	565014.8	4222600	0.01152057	6.11E-03	1.51E-03	1.17E-03
4057	565007.9	4222588	0.01215116	6.44E-03	1.60E-03	1.23E-03
4058	565001	4222576	0.01277648	6.77E-03	1.68E-03	1.30E-03
4059	564994.2	4222564	0.01340248	7.11E-03	1.76E-03	1.36E-03
4060	564987.3	4222552	0.01401427	7.43E-03	1.84E-03	1.42E-03
4061	564980.4	4222540	0.01460024	7.74E-03	1.92E-03	1.48E-03
4062	564973.6	4222528	0.01516168	8.04E-03	1.99E-03	1.54E-03
4063	564966.7	4222515	0.01569929	8.32E-03	2.06E-03	1.60E-03
4064	564959.8	4222503	0.01620094	8.59E-03	2.13E-03	1.65E-03
4065	564939.2	4222467	0.01746062	9.26E-03	2.29E-03	1.77E-03
4066	564932.3	4222455	0.01778429	9.43E-03	2.34E-03	1.81E-03
4067	565303	4222777	0.004438515	2.35E-03	5.83E-04	4.51E-04
4068	565289.5	4222774	0.004496262	2.38E-03	5.90E-04	4.57E-04
4069	565276.1	4222770	0.004564822	2.42E-03	5.99E-04	4.64E-04
4070	565087.6	4222716	0.006211247	3.29E-03	8.16E-04	6.31E-04
4071	565074.2	4222713	0.006349039	3.37E-03	8.34E-04	6.45E-04
4072	565060.7	4222709	0.006483845	3.44E-03	8.52E-04	6.59E-04
4073	565050.5	4222701	0.006769084	3.59E-03	8.89E-04	6.88E-04
4074	565029.8	4222664	0.008232209	4.36E-03	1.08E-03	8.37E-04
4075	565022.9	4222652	0.008768582	4.65E-03	1.15E-03	8.91E-04
4076	565009.1	4222628	0.009892809	5.25E-03	1.30E-03	1.01E-03
4077	565002.2	4222616	0.01047222	5.55E-03	1.38E-03	1.06E-03
4078	564995.3	4222603	0.01105461	5.86E-03	1.45E-03	1.12E-03
4079	564988.4	4222591	0.01163025	6.17E-03	1.53E-03	1.18E-03
4080	564981.5	4222579	0.01219912	6.47E-03	1.60E-03	1.24E-03
4081	564974.6	4222567	0.01276457	6.77E-03	1.68E-03	1.30E-03
4082	564967.7	4222555	0.013317	7.06E-03	1.75E-03	1.35E-03
4083	564960.8	4222543	0.01385044	7.34E-03	1.82E-03	1.41E-03
4084	564953.9	4222530	0.0143622	7.61E-03	1.89E-03	1.46E-03
4085	564947	4222518	0.01484599	7.87E-03	1.95E-03	1.51E-03
4086	564940.1	4222506	0.0152931	8.11E-03	2.01E-03	1.55E-03

4087	564919.4	4222470	0.01641826	8.70E-03	2.16E-03	1.67E-03
4088	564912.5	4222457	0.01670278	8.86E-03	2.19E-03	1.70E-03
4089	565305.1	4222797	0.004077051	2.16E-03	5.35E-04	4.14E-04
4090	565291.6	4222793	0.004125034	2.19E-03	5.42E-04	4.19E-04
4091	565278.1	4222790	0.00418071	2.22E-03	5.49E-04	4.25E-04
4092	565251.1	4222782	0.004318018	2.29E-03	5.67E-04	4.39E-04
4093	565237.5	4222778	0.004396341	2.33E-03	5.77E-04	4.47E-04
4094	565224	4222774	0.004480447	2.38E-03	5.88E-04	4.55E-04
4095	565210.5	4222770	0.004570066	2.42E-03	6.00E-04	4.64E-04
4096	565197	4222767	0.004665093	2.47E-03	6.13E-04	4.74E-04
4097	565183.5	4222763	0.00476539	2.53E-03	6.26E-04	4.84E-04
4098	565170	4222759	0.004870825	2.58E-03	6.40E-04	4.95E-04
4099	565156.5	4222755	0.004981155	2.64E-03	6.54E-04	5.06E-04
4100	565143	4222751	0.005096004	2.70E-03	6.69E-04	5.18E-04
4101	565129.5	4222747	0.005214726	2.76E-03	6.85E-04	5.30E-04
4102	565115.9	4222744	0.005336568	2.83E-03	7.01E-04	5.42E-04
4103	565102.4	4222740	0.005460615	2.90E-03	7.17E-04	5.55E-04
4104	565088.9	4222736	0.005585792	2.96E-03	7.34E-04	5.68E-04
4105	565075.4	4222732	0.00571113	3.03E-03	7.50E-04	5.80E-04
4106	565061.9	4222728	0.005835555	3.09E-03	7.66E-04	5.93E-04
4107	565031.2	4222704	0.006626048	3.51E-03	8.70E-04	6.73E-04
4108	565024.3	4222692	0.007062661	3.74E-03	9.28E-04	7.18E-04
4109	565017.4	4222680	0.007523105	3.99E-03	9.88E-04	7.65E-04
4110	565010.5	4222668	0.008005417	4.24E-03	1.05E-03	8.14E-04
4111	565003.5	4222655	0.008505964	4.51E-03	1.12E-03	8.64E-04
4112	564989.7	4222631	0.009548425	5.06E-03	1.25E-03	9.70E-04
4113	564982.8	4222619	0.01008149	5.35E-03	1.32E-03	1.02E-03
4114	564975.8	4222607	0.01061719	5.63E-03	1.39E-03	1.08E-03
4115	564968.9	4222594	0.0111435	5.91E-03	1.46E-03	1.13E-03
4116	564962	4222582	0.01166234	6.18E-03	1.53E-03	1.19E-03
4117	564955.1	4222570	0.01217343	6.45E-03	1.60E-03	1.24E-03
4118	564948.1	4222558	0.012676	6.72E-03	1.66E-03	1.29E-03
4119	564941.2	4222546	0.01315677	6.98E-03	1.73E-03	1.34E-03
4120	564934.3	4222533	0.01361684	7.22E-03	1.79E-03	1.38E-03
4121	564927.4	4222521	0.01405224	7.45E-03	1.85E-03	1.43E-03
4122	564920.4	4222509	0.01445801	7.67E-03	1.90E-03	1.47E-03
4123	564906.6	4222484	0.01517185	8.04E-03	1.99E-03	1.54E-03
4124	564899.7	4222472	0.01546566	8.20E-03	2.03E-03	1.57E-03
4125	564892.7	4222460	0.01572247	8.34E-03	2.06E-03	1.60E-03
4126	565307.2	4222817	0.003762467	1.99E-03	4.94E-04	3.82E-04
4127	565293.7	4222813	0.003803404	2.02E-03	4.99E-04	3.87E-04
4128	565280.1	4222809	0.003850527	2.04E-03	5.06E-04	3.91E-04
4129	565253	4222802	0.003965402	2.10E-03	5.21E-04	4.03E-04
4130	565239.4	4222798	0.004030842	2.14E-03	5.29E-04	4.10E-04
4131	565225.9	4222794	0.004101204	2.17E-03	5.39E-04	4.17E-04
4132	565212.3	4222790	0.004176003	2.21E-03	5.48E-04	4.24E-04
4133	565198.8	4222786	0.004255672	2.26E-03	5.59E-04	4.32E-04

4134	565185.2	4222782	0.004340261	2.30E-03	5.70E-04	4.41E-04
4135	565171.6	4222779	0.004429424	2.35E-03	5.82E-04	4.50E-04
4136	565158.1	4222775	0.004522836	2.40E-03	5.94E-04	4.60E-04
4137	565144.5	4222771	0.004620713	2.45E-03	6.07E-04	4.70E-04
4138	565131	4222767	0.004722382	2.50E-03	6.20E-04	4.80E-04
4139	565117.4	4222763	0.004827683	2.56E-03	6.34E-04	4.91E-04
4140	565103.8	4222759	0.004936238	2.62E-03	6.48E-04	5.02E-04
4141	565090.3	4222756	0.005046864	2.68E-03	6.63E-04	5.13E-04
4142	565076.7	4222752	0.005158969	2.74E-03	6.78E-04	5.24E-04
4143	565063.2	4222748	0.005271989	2.80E-03	6.92E-04	5.36E-04
4144	565049.6	4222744	0.005384498	2.85E-03	7.07E-04	5.47E-04
4145	565025.8	4222732	0.005726704	3.04E-03	7.52E-04	5.82E-04
4146	565018.9	4222720	0.006095027	3.23E-03	8.00E-04	6.19E-04
4147	565011.9	4222708	0.006486885	3.44E-03	8.52E-04	6.59E-04
4148	565005	4222695	0.006900932	3.66E-03	9.06E-04	7.01E-04
4149	564998	4222683	0.00733499	3.89E-03	9.63E-04	7.45E-04
4150	564991.1	4222671	0.007787473	4.13E-03	1.02E-03	7.91E-04
4151	564984.1	4222659	0.008254722	4.38E-03	1.08E-03	8.39E-04
4152	564970.2	4222634	0.009221711	4.89E-03	1.21E-03	9.37E-04
4153	564963.3	4222622	0.009712925	5.15E-03	1.28E-03	9.87E-04
4154	564956.3	4222610	0.01020478	5.41E-03	1.34E-03	1.04E-03
4155	564949.4	4222597	0.01068882	5.67E-03	1.40E-03	1.09E-03
4156	564942.4	4222585	0.0111662	5.92E-03	1.47E-03	1.13E-03
4157	564935.5	4222573	0.0116352	6.17E-03	1.53E-03	1.18E-03
4158	564928.5	4222561	0.01208691	6.41E-03	1.59E-03	1.23E-03
4159	564921.6	4222548	0.0125172	6.64E-03	1.64E-03	1.27E-03
4160	564914.6	4222536	0.01293111	6.86E-03	1.70E-03	1.31E-03
4161	564907.7	4222524	0.01332326	7.06E-03	1.75E-03	1.35E-03
4162	564886.8	4222487	0.01433192	7.60E-03	1.88E-03	1.46E-03
4163	564879.9	4222475	0.01460112	7.74E-03	1.92E-03	1.48E-03
4164	564872.9	4222463	0.01484252	7.87E-03	1.95E-03	1.51E-03
4165	565309.3	4222837	0.003486454	1.85E-03	4.58E-04	3.54E-04
4166	565295.7	4222833	0.003520317	1.87E-03	4.62E-04	3.58E-04
4167	565282.1	4222829	0.003560151	1.89E-03	4.68E-04	3.62E-04
4168	565254.9	4222821	0.003658162	1.94E-03	4.80E-04	3.72E-04
4169	565241.3	4222818	0.003714376	1.97E-03	4.88E-04	3.77E-04
4170	565227.7	4222814	0.003774678	2.00E-03	4.96E-04	3.84E-04
4171	565214.1	4222810	0.003837697	2.03E-03	5.04E-04	3.90E-04
4172	565200.5	4222806	0.003904293	2.07E-03	5.13E-04	3.97E-04
4173	565186.9	4222802	0.003975623	2.11E-03	5.22E-04	4.04E-04
4174	565173.3	4222798	0.00405123	2.15E-03	5.32E-04	4.12E-04
4175	565159.7	4222794	0.004130736	2.19E-03	5.42E-04	4.20E-04
4176	565146.1	4222791	0.004213847	2.23E-03	5.53E-04	4.28E-04
4177	565132.5	4222787	0.004300858	2.28E-03	5.65E-04	4.37E-04
4178	565118.9	4222783	0.004391285	2.33E-03	5.77E-04	4.46E-04
4179	565105.3	4222779	0.004485235	2.38E-03	5.89E-04	4.56E-04
4180	565091.7	4222775	0.004581901	2.43E-03	6.02E-04	4.66E-04

4181	565078.1	4222771	0.004681096	2.48E-03	6.15E-04	4.76E-04
4182	565064.5	4222768	0.004782012	2.54E-03	6.28E-04	4.86E-04
4183	565050.9	4222764	0.004883681	2.59E-03	6.41E-04	4.96E-04
4184	565023.7	4222756	0.005087424	2.70E-03	6.68E-04	5.17E-04
4185	565013.5	4222748	0.005295362	2.81E-03	6.95E-04	5.38E-04
4186	565006.5	4222736	0.005626621	2.98E-03	7.39E-04	5.72E-04
4187	564999.5	4222723	0.005978833	3.17E-03	7.85E-04	6.08E-04
4188	564992.5	4222711	0.006351863	3.37E-03	8.34E-04	6.46E-04
4189	564985.6	4222699	0.006743721	3.58E-03	8.86E-04	6.85E-04
4190	564978.6	4222686	0.007153276	3.79E-03	9.39E-04	7.27E-04
4191	564971.6	4222674	0.007577464	4.02E-03	9.95E-04	7.70E-04
4192	564964.7	4222662	0.008013862	4.25E-03	1.05E-03	8.14E-04
4193	564950.7	4222637	0.008910812	4.72E-03	1.17E-03	9.06E-04
4194	564943.7	4222625	0.009364424	4.96E-03	1.23E-03	9.52E-04
4195	564936.8	4222613	0.009816208	5.20E-03	1.29E-03	9.98E-04
4196	564929.8	4222600	0.01026304	5.44E-03	1.35E-03	1.04E-03
4197	564922.8	4222588	0.01070235	5.67E-03	1.41E-03	1.09E-03
4198	564915.9	4222576	0.01112995	5.90E-03	1.46E-03	1.13E-03
4199	564908.9	4222564	0.01153665	6.12E-03	1.52E-03	1.17E-03
4200	564901.9	4222551	0.01192566	6.32E-03	1.57E-03	1.21E-03
4201	564867.1	4222490	0.01356208	7.19E-03	1.78E-03	1.38E-03
4202	564860.1	4222477	0.01380969	7.32E-03	1.81E-03	1.40E-03
4203	564853.1	4222465	0.0140286	7.44E-03	1.84E-03	1.43E-03
4204	565311.5	4222857	0.003242662	1.72E-03	4.26E-04	3.30E-04
4205	565297.8	4222853	0.003270796	1.73E-03	4.30E-04	3.32E-04
4206	565284.2	4222849	0.003304014	1.75E-03	4.34E-04	3.36E-04
4207	565256.9	4222841	0.003387178	1.80E-03	4.45E-04	3.44E-04
4208	565079.6	4222791	0.004267157	2.26E-03	5.60E-04	4.34E-04
4209	565066	4222787	0.004356211	2.31E-03	5.72E-04	4.43E-04
4210	565052.3	4222783	0.004446879	2.36E-03	5.84E-04	4.52E-04
4211	565025.1	4222776	0.004631741	2.46E-03	6.08E-04	4.71E-04
4212	565011.4	4222772	0.004724319	2.50E-03	6.20E-04	4.80E-04
4213	565001.1	4222764	0.004912542	2.60E-03	6.45E-04	4.99E-04
4214	564994.1	4222751	0.00521096	2.76E-03	6.84E-04	5.30E-04
4215	564987.1	4222739	0.005528772	2.93E-03	7.26E-04	5.62E-04
4216	564980.1	4222727	0.005865464	3.11E-03	7.70E-04	5.96E-04
4217	564973.1	4222714	0.006220096	3.30E-03	8.17E-04	6.32E-04
4218	564966.1	4222702	0.006591243	3.49E-03	8.66E-04	6.70E-04
4219	564959.2	4222690	0.006976996	3.70E-03	9.16E-04	7.09E-04
4220	564952.2	4222677	0.00737504	3.91E-03	9.69E-04	7.50E-04
4221	564945.2	4222665	0.007782766	4.13E-03	1.02E-03	7.91E-04
4222	564938.2	4222653	0.008197243	4.35E-03	1.08E-03	8.33E-04
4223	564924.2	4222628	0.009033971	4.79E-03	1.19E-03	9.18E-04
4224	564917.2	4222616	0.009449875	5.01E-03	1.24E-03	9.60E-04
4225	564910.2	4222603	0.009860049	5.23E-03	1.29E-03	1.00E-03
4226	564903.2	4222591	0.01026162	5.44E-03	1.35E-03	1.04E-03
4227	564896.2	4222579	0.01065175	5.65E-03	1.40E-03	1.08E-03

4228	564875.3	4222542	0.01171283	6.21E-03	1.54E-03	1.19E-03
4229	564868.3	4222529	0.01203325	6.38E-03	1.58E-03	1.22E-03
4230	564847.3	4222492	0.01285556	6.82E-03	1.69E-03	1.31E-03
4231	564840.3	4222480	0.01307988	6.93E-03	1.72E-03	1.33E-03
4232	564833.3	4222468	0.01327845	7.04E-03	1.74E-03	1.35E-03
4233	565313.6	4222876	0.003026332	1.60E-03	3.97E-04	3.08E-04
4234	565300	4222873	0.003049625	1.62E-03	4.01E-04	3.10E-04
4235	565286.3	4222869	0.003077517	1.63E-03	4.04E-04	3.13E-04
4236	565258.9	4222861	0.003148201	1.67E-03	4.13E-04	3.20E-04
4237	565245.3	4222857	0.00318973	1.69E-03	4.19E-04	3.24E-04
4238	565231.6	4222853	0.00323462	1.71E-03	4.25E-04	3.29E-04
4239	565217.9	4222849	0.003282281	1.74E-03	4.31E-04	3.34E-04
4240	565190.5	4222842	0.00338387	1.79E-03	4.44E-04	3.44E-04
4241	565176.9	4222838	0.003440003	1.82E-03	4.52E-04	3.50E-04
4242	565163.2	4222834	0.003498665	1.85E-03	4.59E-04	3.56E-04
4243	565149.5	4222830	0.003559908	1.89E-03	4.68E-04	3.62E-04
4244	565122.2	4222822	0.003690465	1.96E-03	4.85E-04	3.75E-04
4245	565108.5	4222818	0.0037601	1.99E-03	4.94E-04	3.82E-04
4246	565094.8	4222815	0.003832479	2.03E-03	5.03E-04	3.89E-04
4247	565081.1	4222811	0.003907817	2.07E-03	5.13E-04	3.97E-04
4248	565067.5	4222807	0.00398579	2.11E-03	5.23E-04	4.05E-04
4249	565026.4	4222795	0.004232164	2.24E-03	5.56E-04	4.30E-04
4250	565012.8	4222791	0.004316512	2.29E-03	5.67E-04	4.39E-04
4251	564999.1	4222788	0.004400375	2.33E-03	5.78E-04	4.47E-04
4252	564988.7	4222779	0.004570819	2.42E-03	6.00E-04	4.65E-04
4253	564981.7	4222767	0.004840459	2.57E-03	6.36E-04	4.92E-04
4254	564974.7	4222755	0.005127796	2.72E-03	6.73E-04	5.21E-04
4255	564967.7	4222742	0.005432777	2.88E-03	7.13E-04	5.52E-04
4256	564960.7	4222730	0.005754192	3.05E-03	7.56E-04	5.85E-04
4257	564953.7	4222718	0.00609118	3.23E-03	8.00E-04	6.19E-04
4258	564946.7	4222705	0.006442558	3.42E-03	8.46E-04	6.55E-04
4259	564939.7	4222693	0.006805852	3.61E-03	8.94E-04	6.92E-04
4260	564932.7	4222681	0.007179124	3.81E-03	9.43E-04	7.30E-04
4261	564925.7	4222668	0.007560249	4.01E-03	9.93E-04	7.68E-04
4262	564918.6	4222656	0.007945813	4.21E-03	1.04E-03	8.08E-04
4263	564904.6	4222631	0.008720034	4.62E-03	1.15E-03	8.86E-04
4264	564897.6	4222619	0.009103365	4.83E-03	1.20E-03	9.25E-04
4265	564890.6	4222606	0.009479973	5.03E-03	1.25E-03	9.63E-04
4266	564883.6	4222594	0.009847622	5.22E-03	1.29E-03	1.00E-03
4267	564876.6	4222582	0.01020433	5.41E-03	1.34E-03	1.04E-03
4268	564869.6	4222569	0.01054408	5.59E-03	1.38E-03	1.07E-03
4269	564862.6	4222557	0.01086537	5.76E-03	1.43E-03	1.10E-03
4270	564855.6	4222545	0.01116981	5.92E-03	1.47E-03	1.14E-03
4271	564848.5	4222532	0.01146024	6.08E-03	1.51E-03	1.16E-03
4272	564827.5	4222495	0.01220547	6.47E-03	1.60E-03	1.24E-03
4273	564820.5	4222483	0.01240897	6.58E-03	1.63E-03	1.26E-03
4274	564813.5	4222470	0.01258993	6.68E-03	1.65E-03	1.28E-03

4275	565316.6	4222897	0.002832031	1.50E-03	3.72E-04	2.88E-04
4276	565303.2	4222893	0.002850805	1.51E-03	3.74E-04	2.90E-04
4277	565289.7	4222889	0.002873317	1.52E-03	3.77E-04	2.92E-04
4278	565262.8	4222881	0.002931602	1.55E-03	3.85E-04	2.98E-04
4279	565249.3	4222877	0.002966326	1.57E-03	3.90E-04	3.01E-04
4280	565235.8	4222874	0.003004277	1.59E-03	3.95E-04	3.05E-04
4281	565222.3	4222870	0.003044972	1.61E-03	4.00E-04	3.09E-04
4282	565208.9	4222866	0.003087845	1.64E-03	4.06E-04	3.14E-04
4283	565181.9	4222858	0.00317924	1.69E-03	4.18E-04	3.23E-04
4284	565168.5	4222855	0.003228165	1.71E-03	4.24E-04	3.28E-04
4285	565155	4222851	0.003279672	1.74E-03	4.31E-04	3.33E-04
4286	565141.5	4222847	0.003333385	1.77E-03	4.38E-04	3.39E-04
4287	565114.6	4222839	0.003447561	1.83E-03	4.53E-04	3.50E-04
4288	565101.1	4222836	0.003508321	1.86E-03	4.61E-04	3.57E-04
4289	565087.7	4222832	0.003572415	1.89E-03	4.69E-04	3.63E-04
4290	565074.2	4222828	0.0036385	1.93E-03	4.78E-04	3.70E-04
4291	565060.7	4222824	0.0037062	1.97E-03	4.87E-04	3.77E-04
4292	565020.3	4222813	0.003924278	2.08E-03	5.15E-04	3.99E-04
4293	565006.8	4222809	0.003999373	2.12E-03	5.25E-04	4.06E-04
4294	564993.4	4222805	0.004074791	2.16E-03	5.35E-04	4.14E-04
4295	564976.4	4222795	0.004263633	2.26E-03	5.60E-04	4.33E-04
4296	564969.5	4222783	0.004502583	2.39E-03	5.91E-04	4.58E-04
4297	564962.6	4222771	0.004757913	2.52E-03	6.25E-04	4.84E-04
4298	564955.7	4222759	0.005028924	2.67E-03	6.60E-04	5.11E-04
4299	564948.8	4222747	0.005314674	2.82E-03	6.98E-04	5.40E-04
4300	564941.9	4222734	0.005614894	2.98E-03	7.37E-04	5.71E-04
4301	564935	4222722	0.005928241	3.14E-03	7.79E-04	6.02E-04
4302	564928.1	4222710	0.006253045	3.32E-03	8.21E-04	6.35E-04
4303	564921.2	4222698	0.00658807	3.49E-03	8.65E-04	6.70E-04
4304	564914.3	4222686	0.006931191	3.67E-03	9.10E-04	7.04E-04
4305	564907.4	4222673	0.007279825	3.86E-03	9.56E-04	7.40E-04
4306	564900.5	4222661	0.007632225	4.05E-03	1.00E-03	7.76E-04
4307	564886.7	4222637	0.008337617	4.42E-03	1.09E-03	8.47E-04
4308	564879.8	4222625	0.008686117	4.61E-03	1.14E-03	8.83E-04
4309	564872.9	4222613	0.009028216	4.79E-03	1.19E-03	9.18E-04
4310	564866	4222600	0.009362326	4.96E-03	1.23E-03	9.51E-04
4311	564859.1	4222588	0.009686405	5.14E-03	1.27E-03	9.84E-04
4312	564852.2	4222576	0.009997948	5.30E-03	1.31E-03	1.02E-03
4313	564845.3	4222564	0.01029115	5.46E-03	1.35E-03	1.05E-03
4314	564838.4	4222552	0.0105681	5.60E-03	1.39E-03	1.07E-03
4315	564831.5	4222540	0.01083148	5.74E-03	1.42E-03	1.10E-03
4316	564824.6	4222527	0.01107995	5.87E-03	1.46E-03	1.13E-03
4317	564796.9	4222479	0.01188203	6.30E-03	1.56E-03	1.21E-03
4318	564790	4222466	0.01203386	6.38E-03	1.58E-03	1.22E-03
4319	565318.8	4222916	0.002658843	1.41E-03	3.49E-04	2.70E-04
4320	565305.3	4222913	0.002674443	1.42E-03	3.51E-04	2.72E-04
4321	565291.8	4222909	0.002693298	1.43E-03	3.54E-04	2.74E-04

4322	565264.7	4222901	0.002742949	1.45E-03	3.60E-04	2.79E-04
4323	565251.2	4222897	0.002773046	1.47E-03	3.64E-04	2.82E-04
4324	565237.7	4222893	0.002806102	1.49E-03	3.69E-04	2.85E-04
4325	565224.2	4222890	0.002841767	1.51E-03	3.73E-04	2.89E-04
4326	565210.7	4222886	0.002879826	1.53E-03	3.78E-04	2.93E-04
4327	565183.7	4222878	0.002961162	1.57E-03	3.89E-04	3.01E-04
4328	565170.2	4222874	0.00300347	1.59E-03	3.94E-04	3.05E-04
4329	565156.7	4222871	0.003048172	1.62E-03	4.00E-04	3.10E-04
4330	565143.2	4222867	0.003095161	1.64E-03	4.06E-04	3.15E-04
4331	565116.1	4222859	0.003195297	1.69E-03	4.20E-04	3.25E-04
4332	565102.6	4222855	0.003248176	1.72E-03	4.27E-04	3.30E-04
4333	565089.1	4222851	0.003303745	1.75E-03	4.34E-04	3.36E-04
4334	565075.6	4222848	0.003361895	1.78E-03	4.42E-04	3.42E-04
4335	565062.1	4222844	0.003421202	1.81E-03	4.49E-04	3.48E-04
4336	565048.6	4222840	0.003482446	1.85E-03	4.57E-04	3.54E-04
4337	565021.6	4222832	0.003612007	1.92E-03	4.74E-04	3.67E-04
4338	565008.1	4222829	0.003679518	1.95E-03	4.83E-04	3.74E-04
4339	564994.6	4222825	0.00374797	1.99E-03	4.92E-04	3.81E-04
4340	564981.1	4222821	0.003817121	2.02E-03	5.01E-04	3.88E-04
4341	564964.1	4222811	0.003988668	2.11E-03	5.24E-04	4.05E-04
4342	564957.2	4222799	0.004205859	2.23E-03	5.52E-04	4.27E-04
4343	564950.2	4222787	0.004438192	2.35E-03	5.83E-04	4.51E-04
4344	564943.3	4222774	0.004684727	2.48E-03	6.15E-04	4.76E-04
4345	564936.4	4222762	0.004945167	2.62E-03	6.49E-04	5.03E-04
4346	564929.5	4222750	0.005218895	2.77E-03	6.85E-04	5.30E-04
4347	564922.6	4222738	0.005505103	2.92E-03	7.23E-04	5.59E-04
4348	564915.6	4222725	0.00580258	3.08E-03	7.62E-04	5.90E-04
4349	564908.7	4222713	0.006110223	3.24E-03	8.02E-04	6.21E-04
4350	564901.8	4222701	0.006425829	3.41E-03	8.44E-04	6.53E-04
4351	564894.9	4222689	0.006747836	3.58E-03	8.86E-04	6.86E-04
4352	564887.9	4222677	0.007074147	3.75E-03	9.29E-04	7.19E-04
4353	564881	4222664	0.007402581	3.92E-03	9.72E-04	7.52E-04
4354	564874.1	4222652	0.007731071	4.10E-03	1.02E-03	7.86E-04
4355	564867.2	4222640	0.008057596	4.27E-03	1.06E-03	8.19E-04
4356	564860.2	4222628	0.008379495	4.44E-03	1.10E-03	8.52E-04
4357	564853.3	4222616	0.008694993	4.61E-03	1.14E-03	8.84E-04
4358	564846.4	4222603	0.009002073	4.77E-03	1.18E-03	9.15E-04
4359	564839.5	4222591	0.009299254	4.93E-03	1.22E-03	9.45E-04
4360	564832.5	4222579	0.009584627	5.08E-03	1.26E-03	9.74E-04
4361	564825.6	4222567	0.009853863	5.22E-03	1.29E-03	1.00E-03
4362	564818.7	4222555	0.01010688	5.36E-03	1.33E-03	1.03E-03
4363	564811.8	4222542	0.01034567	5.49E-03	1.36E-03	1.05E-03
4364	564784.1	4222493	0.01114749	5.91E-03	1.46E-03	1.13E-03
4365	564777.1	4222481	0.01130394	5.99E-03	1.48E-03	1.15E-03
4366	564770.2	4222469	0.01144311	6.07E-03	1.50E-03	1.16E-03
4367	565320.9	4222936	0.002502654	1.33E-03	3.29E-04	2.54E-04
4368	565307.4	4222932	0.002515592	1.33E-03	3.30E-04	2.56E-04

4369	565293.8	4222929	0.00253146	1.34E-03	3.32E-04	2.57E-04
4370	565266.7	4222921	0.002573769	1.36E-03	3.38E-04	2.62E-04
4371	565253.2	4222917	0.002599859	1.38E-03	3.41E-04	2.64E-04
4372	565239.7	4222913	0.002628719	1.39E-03	3.45E-04	2.67E-04
4373	565226.1	4222909	0.002660081	1.41E-03	3.49E-04	2.70E-04
4374	565212.6	4222906	0.002693674	1.43E-03	3.54E-04	2.74E-04
4375	565185.5	4222898	0.002766215	1.47E-03	3.63E-04	2.81E-04
4376	565171.9	4222894	0.002804462	1.49E-03	3.68E-04	2.85E-04
4377	565158.4	4222890	0.002844027	1.51E-03	3.74E-04	2.89E-04
4378	565144.8	4222886	0.002885152	1.53E-03	3.79E-04	2.93E-04
4379	565117.7	4222879	0.002972942	1.58E-03	3.90E-04	3.02E-04
4380	565104.2	4222875	0.003019796	1.60E-03	3.97E-04	3.07E-04
4381	565090.7	4222871	0.00306743	1.63E-03	4.03E-04	3.12E-04
4382	565077.1	4222867	0.00311727	1.65E-03	4.09E-04	3.17E-04
4383	565063.6	4222863	0.003169046	1.68E-03	4.16E-04	3.22E-04
4384	565050	4222860	0.003222812	1.71E-03	4.23E-04	3.28E-04
4385	565022.9	4222852	0.003336505	1.77E-03	4.38E-04	3.39E-04
4386	565009.4	4222848	0.003396189	1.80E-03	4.46E-04	3.45E-04
4387	564995.8	4222844	0.003457405	1.83E-03	4.54E-04	3.51E-04
4388	564982.3	4222840	0.003519913	1.87E-03	4.62E-04	3.58E-04
4389	564968.8	4222837	0.003583039	1.90E-03	4.71E-04	3.64E-04
4390	564951.7	4222827	0.003740358	1.98E-03	4.91E-04	3.80E-04
4391	564944.8	4222814	0.003938183	2.09E-03	5.17E-04	4.00E-04
4392	564937.9	4222802	0.004149994	2.20E-03	5.45E-04	4.22E-04
4393	564930.9	4222790	0.004375012	2.32E-03	5.75E-04	4.45E-04
4394	564924	4222778	0.004612671	2.45E-03	6.06E-04	4.69E-04
4395	564917	4222765	0.004862998	2.58E-03	6.39E-04	4.94E-04
4396	564910.1	4222753	0.005124864	2.72E-03	6.73E-04	5.21E-04
4397	564903.1	4222741	0.005397785	2.86E-03	7.09E-04	5.49E-04
4398	564896.2	4222729	0.005680119	3.01E-03	7.46E-04	5.77E-04
4399	564889.3	4222716	0.005971007	3.17E-03	7.84E-04	6.07E-04
4400	564882.3	4222704	0.006268349	3.32E-03	8.23E-04	6.37E-04
4401	564875.4	4222692	0.006570856	3.48E-03	8.63E-04	6.68E-04
4402	564868.4	4222680	0.006876133	3.65E-03	9.03E-04	6.99E-04
4403	564861.5	4222667	0.007182782	3.81E-03	9.43E-04	7.30E-04
4404	564854.5	4222655	0.007488247	3.97E-03	9.83E-04	7.61E-04
4405	564840.7	4222631	0.008088607	4.29E-03	1.06E-03	8.22E-04
4406	564833.7	4222619	0.00837963	4.44E-03	1.10E-03	8.52E-04
4407	564826.8	4222606	0.008662636	4.59E-03	1.14E-03	8.80E-04
4408	564819.8	4222594	0.008935396	4.74E-03	1.17E-03	9.08E-04
4409	564812.9	4222582	0.009197423	4.88E-03	1.21E-03	9.35E-04
4410	564799	4222557	0.009676157	5.13E-03	1.27E-03	9.83E-04
4411	564792.1	4222545	0.009892943	5.25E-03	1.30E-03	1.01E-03
4412	564785.1	4222533	0.0100997	5.35E-03	1.33E-03	1.03E-03
4413	564778.2	4222521	0.01029066	5.46E-03	1.35E-03	1.05E-03
4414	564757.3	4222484	0.01076926	5.71E-03	1.41E-03	1.09E-03
4415	564750.4	4222472	0.01089716	5.78E-03	1.43E-03	1.11E-03

4416	565323.1	4222956	0.002361366	1.25E-03	3.10E-04	2.40E-04
4417	565309.5	4222952	0.002372044	1.26E-03	3.12E-04	2.41E-04
4418	565295.9	4222948	0.002385304	1.26E-03	3.13E-04	2.42E-04
4419	565268.8	4222941	0.002421265	1.28E-03	3.18E-04	2.46E-04
4420	565255.2	4222937	0.002443939	1.30E-03	3.21E-04	2.48E-04
4421	565241.6	4222933	0.002469168	1.31E-03	3.24E-04	2.51E-04
4422	565228	4222929	0.002496764	1.32E-03	3.28E-04	2.54E-04
4423	565214.4	4222925	0.002526511	1.34E-03	3.32E-04	2.57E-04
4424	565187.3	4222918	0.002591225	1.37E-03	3.40E-04	2.63E-04
4425	565173.7	4222914	0.00262576	1.39E-03	3.45E-04	2.67E-04
4426	565160.1	4222910	0.002661533	1.41E-03	3.50E-04	2.70E-04
4427	565146.6	4222906	0.002698435	1.43E-03	3.54E-04	2.74E-04
4428	565133	4222902	0.002736225	1.45E-03	3.59E-04	2.78E-04
4429	565119.4	4222898	0.002775386	1.47E-03	3.64E-04	2.82E-04
4430	565105.8	4222895	0.002816054	1.49E-03	3.70E-04	2.86E-04
4431	565092.2	4222891	0.002857986	1.52E-03	3.75E-04	2.90E-04
4432	565078.7	4222887	0.00290137	1.54E-03	3.81E-04	2.95E-04
4433	565065.1	4222883	0.002946449	1.56E-03	3.87E-04	2.99E-04
4434	565051.5	4222879	0.002993411	1.59E-03	3.93E-04	3.04E-04
4435	565024.3	4222872	0.003093063	1.64E-03	4.06E-04	3.14E-04
4436	565010.8	4222868	0.0031457	1.67E-03	4.13E-04	3.20E-04
4437	564997.2	4222864	0.003200112	1.70E-03	4.20E-04	3.25E-04
4438	564983.6	4222860	0.00325603	1.73E-03	4.28E-04	3.31E-04
4439	564970	4222856	0.003313293	1.76E-03	4.35E-04	3.37E-04
4440	564956.4	4222852	0.003371605	1.79E-03	4.43E-04	3.43E-04
4441	564939.4	4222842	0.003515744	1.86E-03	4.62E-04	3.57E-04
4442	564932.4	4222830	0.003696597	1.96E-03	4.85E-04	3.76E-04
4443	564925.5	4222818	0.003889877	2.06E-03	5.11E-04	3.95E-04
4444	564918.5	4222806	0.004095394	2.17E-03	5.38E-04	4.16E-04
4445	564911.5	4222793	0.004312934	2.29E-03	5.66E-04	4.38E-04
4446	564904.6	4222781	0.004541906	2.41E-03	5.96E-04	4.62E-04
4447	564897.6	4222769	0.004782147	2.54E-03	6.28E-04	4.86E-04
4448	564890.7	4222756	0.005032501	2.67E-03	6.61E-04	5.11E-04
4449	564883.7	4222744	0.005292404	2.81E-03	6.95E-04	5.38E-04
4450	564876.7	4222732	0.005560563	2.95E-03	7.30E-04	5.65E-04
4451	564869.8	4222720	0.005835339	3.09E-03	7.66E-04	5.93E-04
4452	564862.8	4222707	0.006115711	3.24E-03	8.03E-04	6.22E-04
4453	564855.9	4222695	0.00639955	3.39E-03	8.40E-04	6.50E-04
4454	564848.9	4222683	0.00668557	3.54E-03	8.78E-04	6.79E-04
4455	564841.9	4222671	0.006971482	3.70E-03	9.16E-04	7.08E-04
4456	564835	4222658	0.007255995	3.85E-03	9.53E-04	7.37E-04
4457	564821.1	4222634	0.007812513	4.14E-03	1.03E-03	7.94E-04
4458	564800.2	4222597	0.008593271	4.56E-03	1.13E-03	8.73E-04
4459	564793.2	4222585	0.008833538	4.68E-03	1.16E-03	8.98E-04
4460	564786.3	4222572	0.00906103	4.80E-03	1.19E-03	9.21E-04
4461	564779.3	4222560	0.009273191	4.92E-03	1.22E-03	9.42E-04
4462	564772.3	4222548	0.009471714	5.02E-03	1.24E-03	9.63E-04

4463	564765.4	4222535	0.009661794	5.12E-03	1.27E-03	9.82E-04
4464	564758.4	4222523	0.009835815	5.21E-03	1.29E-03	1.00E-03
4465	564737.5	4222486	0.0102734	5.45E-03	1.35E-03	1.04E-03
4466	565325.2	4222976	0.002232934	1.18E-03	2.93E-04	2.27E-04
4467	565311.6	4222972	0.002241703	1.19E-03	2.94E-04	2.28E-04
4468	565298	4222968	0.002252757	1.19E-03	2.96E-04	2.29E-04
4469	565270.8	4222960	0.002283312	1.21E-03	3.00E-04	2.32E-04
4470	565257.2	4222957	0.002302947	1.22E-03	3.02E-04	2.34E-04
4471	565243.6	4222953	0.002325082	1.23E-03	3.05E-04	2.36E-04
4472	565230	4222949	0.002349424	1.25E-03	3.09E-04	2.39E-04
4473	565216.4	4222945	0.002375809	1.26E-03	3.12E-04	2.41E-04
4474	565189.1	4222937	0.00243361	1.29E-03	3.20E-04	2.47E-04
4475	565175.5	4222934	0.002464488	1.31E-03	3.24E-04	2.50E-04
4476	565161.9	4222930	0.002496576	1.32E-03	3.28E-04	2.54E-04
4477	565148.3	4222926	0.002529658	1.34E-03	3.32E-04	2.57E-04
4478	565134.7	4222922	0.002563683	1.36E-03	3.37E-04	2.61E-04
4479	565107.5	4222914	0.002634529	1.40E-03	3.46E-04	2.68E-04
4480	565093.9	4222910	0.002671512	1.42E-03	3.51E-04	2.71E-04
4481	565080.2	4222907	0.002709705	1.44E-03	3.56E-04	2.75E-04
4482	565066.6	4222903	0.002749162	1.46E-03	3.61E-04	2.79E-04
4483	565053	4222899	0.002790233	1.48E-03	3.66E-04	2.84E-04
4484	565025.8	4222891	0.002877513	1.53E-03	3.78E-04	2.92E-04
4485	565012.2	4222887	0.002923802	1.55E-03	3.84E-04	2.97E-04
4486	564998.6	4222884	0.00297184	1.58E-03	3.90E-04	3.02E-04
4487	564985	4222880	0.003021572	1.60E-03	3.97E-04	3.07E-04
4488	564971.4	4222876	0.003072756	1.63E-03	4.04E-04	3.12E-04
4489	564957.7	4222872	0.003125177	1.66E-03	4.10E-04	3.18E-04
4490	564944.1	4222868	0.003178594	1.69E-03	4.17E-04	3.23E-04
4491	564927	4222858	0.003311276	1.76E-03	4.35E-04	3.37E-04
4492	564920.1	4222846	0.003476529	1.84E-03	4.57E-04	3.53E-04
4493	564913.1	4222834	0.003653832	1.94E-03	4.80E-04	3.71E-04
4494	564906.1	4222821	0.00384227	2.04E-03	5.05E-04	3.90E-04
4495	564899.1	4222809	0.004041547	2.14E-03	5.31E-04	4.11E-04
4496	564892.1	4222797	0.004251745	2.25E-03	5.58E-04	4.32E-04
4497	564885.2	4222784	0.004472163	2.37E-03	5.87E-04	4.54E-04
4498	564878.2	4222772	0.004702533	2.49E-03	6.18E-04	4.78E-04
4499	564871.2	4222760	0.004941725	2.62E-03	6.49E-04	5.02E-04
4500	564864.2	4222747	0.005189201	2.75E-03	6.81E-04	5.27E-04
4501	564857.3	4222735	0.005443347	2.89E-03	7.15E-04	5.53E-04
4502	564850.3	4222723	0.005703358	3.02E-03	7.49E-04	5.80E-04
4503	564843.3	4222710	0.005967348	3.16E-03	7.84E-04	6.06E-04
4504	564836.3	4222698	0.00623419	3.31E-03	8.19E-04	6.34E-04
4505	564829.4	4222686	0.006501812	3.45E-03	8.54E-04	6.61E-04
4506	564822.4	4222674	0.006769084	3.59E-03	8.89E-04	6.88E-04
4507	564815.4	4222661	0.007033774	3.73E-03	9.24E-04	7.15E-04
4508	564801.5	4222637	0.00755011	4.00E-03	9.92E-04	7.67E-04
4509	564794.5	4222624	0.007798554	4.13E-03	1.02E-03	7.93E-04

4510	564787.5	4222612	0.008039145	4.26E-03	1.06E-03	8.17E-04
4511	564780.5	4222600	0.008270375	4.38E-03	1.09E-03	8.40E-04
4512	564773.5	4222587	0.00849152	4.50E-03	1.12E-03	8.63E-04
4513	564766.6	4222575	0.008701125	4.61E-03	1.14E-03	8.84E-04
4514	564759.6	4222563	0.008897767	4.72E-03	1.17E-03	9.04E-04
4515	564752.6	4222550	0.009083301	4.82E-03	1.19E-03	9.23E-04
4516	564745.6	4222538	0.009256111	4.91E-03	1.22E-03	9.41E-04
4517	564738.7	4222526	0.009413	4.99E-03	1.24E-03	9.57E-04
4518	564717.7	4222489	0.009813195	5.20E-03	1.29E-03	9.97E-04
4519	564710.8	4222477	0.0099221	5.26E-03	1.30E-03	1.01E-03
4520	565318.1	4222992	0.002128656	1.13E-03	2.80E-04	2.16E-04
4521	565214.4	4222859	0.003170606	1.68E-03	4.16E-04	3.22E-04
4522	565191.5	4222956	0.002298266	1.22E-03	3.02E-04	2.34E-04
4523	565186.9	4222976	0.002170292	1.15E-03	2.85E-04	2.21E-04
4524	565119.1	4222869	0.003080798	1.63E-03	4.05E-04	3.13E-04
4525	565111	4222887	0.002888675	1.53E-03	3.79E-04	2.94E-04
4526	565102.9	4222905	0.002714815	1.44E-03	3.57E-04	2.76E-04
4527	565091.9	4222922	0.00256847	1.36E-03	3.37E-04	2.61E-04
4528	565083.9	4222941	0.002424277	1.29E-03	3.18E-04	2.46E-04
4529	565182.2	4222656	0.008894755	4.72E-03	1.17E-03	9.04E-04
4530	565170.8	4222673	0.00797462	4.23E-03	1.05E-03	8.10E-04
4531	565159.4	4222689	0.007203412	3.82E-03	9.46E-04	7.32E-04
4532	565141.7	4222701	0.006718922	3.56E-03	8.82E-04	6.83E-04
4533	565130.3	4222718	0.006122838	3.25E-03	8.04E-04	6.22E-04
4534	565118.9	4222734	0.005606717	2.97E-03	7.36E-04	5.70E-04
4535	565107.5	4222751	0.00515714	2.73E-03	6.77E-04	5.24E-04
4536	565096.1	4222767	0.004762701	2.53E-03	6.25E-04	4.84E-04
4537	565084.7	4222783	0.004414308	2.34E-03	5.80E-04	4.49E-04
4538	565055.6	4222812	0.003906983	2.07E-03	5.13E-04	3.97E-04
4539	565026.5	4222840	0.003490166	1.85E-03	4.58E-04	3.55E-04
4540	565015.1	4222857	0.00327674	1.74E-03	4.30E-04	3.33E-04
4541	565003.7	4222873	0.003083434	1.63E-03	4.05E-04	3.13E-04
4542	564992.3	4222890	0.002907853	1.54E-03	3.82E-04	2.96E-04
4543	565004.8	4222898	0.002813068	1.49E-03	3.69E-04	2.86E-04
4544	565003.3	4222169	0.02507211	1.33E-02	3.29E-03	2.55E-03
4545	564992	4222150	0.02285006	1.21E-02	3.00E-03	2.32E-03
4546	564975.6	4222139	0.02112957	1.12E-02	2.77E-03	2.15E-03
4547	564950.4	4222175	0.02211132	1.17E-02	2.90E-03	2.25E-03
4548	564959.2	4222127	0.01959731	1.04E-02	2.57E-03	1.99E-03
4549	564922.7	4222145	0.01904962	1.01E-02	2.50E-03	1.94E-03
4550	564840.8	4222087	0.01384826	7.34E-03	1.82E-03	1.41E-03
4551	564835.8	4222094	0.01398686	7.42E-03	1.84E-03	1.42E-03
4552	564963.8	4222230	0.02565872	1.36E-02	3.37E-03	2.61E-03
4553	564969	4222222	0.0257559	1.37E-02	3.38E-03	2.62E-03
4554	564979.3	4222204	0.02574966	1.37E-02	3.38E-03	2.62E-03
4555	564942.2	4222228	0.02385758	1.26E-02	3.13E-03	2.42E-03
4556	564949.9	4222215	0.0239847	1.27E-02	3.15E-03	2.44E-03

4557	564955.1	4222206	0.02399731	1.27E-02	3.15E-03	2.44E-03
4558	564932.2	4222205	0.02239742	1.19E-02	2.94E-03	2.28E-03
4559	564938.7	4222195	0.02236584	1.19E-02	2.94E-03	2.27E-03
4560	564914	4222236	0.02206073	1.17E-02	2.90E-03	2.24E-03
4561	564917.6	4222191	0.02093534	1.11E-02	2.75E-03	2.13E-03
4562	564923.9	4222180	0.02084605	1.11E-02	2.74E-03	2.12E-03
4563	564929	4222172	0.02073246	1.10E-02	2.72E-03	2.11E-03
4564	564898.5	4222184	0.01964452	1.04E-02	2.58E-03	2.00E-03
4565	564906.2	4222171	0.0195312	1.04E-02	2.57E-03	1.98E-03
4566	564884.6	4222168	0.01840574	9.76E-03	2.42E-03	1.87E-03
4567	564892.3	4222155	0.01824551	9.67E-03	2.40E-03	1.85E-03
4568	564897.5	4222147	0.01809108	9.59E-03	2.38E-03	1.84E-03
4569	564850.1	4222187	0.01743703	9.25E-03	2.29E-03	1.77E-03
4570	564869.4	4222155	0.0172665	9.15E-03	2.27E-03	1.75E-03
4571	564877.2	4222142	0.01708296	9.06E-03	2.24E-03	1.74E-03
4572	564882.3	4222133	0.01691795	8.97E-03	2.22E-03	1.72E-03
4573	564842.5	4222200	0.01739609	9.22E-03	2.28E-03	1.77E-03
4574	564827	4222187	0.01647442	8.73E-03	2.16E-03	1.67E-03
4575	564836.1	4222172	0.0164776	8.74E-03	2.16E-03	1.67E-03
4576	564854.3	4222141	0.01622789	8.60E-03	2.13E-03	1.65E-03
4577	564862.1	4222128	0.01602275	8.50E-03	2.10E-03	1.63E-03
4578	564809.2	4222178	0.01561335	8.28E-03	2.05E-03	1.59E-03
4579	564817	4222165	0.01560351	8.27E-03	2.05E-03	1.59E-03
4580	564836.5	4222132	0.01532276	8.12E-03	2.01E-03	1.56E-03
4581	564795.1	4222163	0.01480734	7.85E-03	1.94E-03	1.50E-03
4582	564800.2	4222154	0.01478461	7.84E-03	1.94E-03	1.50E-03
4583	564807.8	4222141	0.01470479	7.80E-03	1.93E-03	1.49E-03
4584	564790	4222171	0.01480775	7.85E-03	1.94E-03	1.50E-03
4585	564953.8	4222296	0.0256343	1.36E-02	3.37E-03	2.61E-03
4586	564912.4	4222291	0.02226756	1.18E-02	2.92E-03	2.26E-03
4587	564917.6	4222279	0.02271329	1.20E-02	2.98E-03	2.31E-03
4588	564892.2	4222288	0.02088612	1.11E-02	2.74E-03	2.12E-03
4589	564896	4222279	0.02117887	1.12E-02	2.78E-03	2.15E-03
4590	564873.3	4222281	0.01973976	1.05E-02	2.59E-03	2.01E-03
4591	564880.9	4222263	0.02020596	1.07E-02	2.65E-03	2.05E-03
4592	564888.5	4222245	0.02054104	1.09E-02	2.70E-03	2.09E-03
4593	564894.9	4222230	0.02070696	1.10E-02	2.72E-03	2.10E-03
4594	564861.1	4222259	0.01904314	1.01E-02	2.50E-03	1.94E-03
4595	564846	4222243	0.01815296	9.62E-03	2.38E-03	1.84E-03
4596	564849.9	4222234	0.01827115	9.69E-03	2.40E-03	1.86E-03
4597	564856.5	4222219	0.01839573	9.75E-03	2.42E-03	1.87E-03
4598	564833.1	4222274	0.01755909	9.31E-03	2.31E-03	1.78E-03
4599	564824.4	4222243	0.01710507	9.07E-03	2.25E-03	1.74E-03
4600	564830.9	4222228	0.01727982	9.16E-03	2.27E-03	1.76E-03
4601	564836	4222216	0.01736548	9.21E-03	2.28E-03	1.76E-03
4602	564799	4222252	0.01602506	8.50E-03	2.10E-03	1.63E-03
4603	564809.3	4222228	0.01633456	8.66E-03	2.15E-03	1.66E-03

4604	564815.7	4222213	0.0164408	8.72E-03	2.16E-03	1.67E-03
4605	564822	4222198	0.01647375	8.73E-03	2.16E-03	1.67E-03
4606	564801.4	4222195	0.01562912	8.29E-03	2.05E-03	1.59E-03
4607	565036.4	4222433	0.02678359	1.42E-02	3.52E-03	2.72E-03
4608	564969.6	4222415	0.0223908	1.19E-02	2.94E-03	2.28E-03
4609	564981.3	4222345	0.0271652	1.44E-02	3.57E-03	2.76E-03
4610	564949.6	4222415	0.02091555	1.11E-02	2.75E-03	2.13E-03
4611	564961	4222346	0.02510433	1.33E-02	3.30E-03	2.55E-03
4612	564943.9	4222459	0.01816276	9.63E-03	2.39E-03	1.85E-03
4613	564929.5	4222416	0.01960183	1.04E-02	2.57E-03	1.99E-03
4614	564940.8	4222348	0.02330744	1.24E-02	3.06E-03	2.37E-03
4615	564923.8	4222450	0.01761896	9.34E-03	2.31E-03	1.79E-03
4616	564923.9	4222459	0.01716424	9.10E-03	2.25E-03	1.74E-03
4617	564909.8	4222414	0.01853915	9.83E-03	2.43E-03	1.88E-03
4618	564903.8	4222450	0.01665902	8.83E-03	2.19E-03	1.69E-03
4619	564889.7	4222415	0.0174558	9.26E-03	2.29E-03	1.77E-03
4620	564901.3	4222345	0.02051847	1.09E-02	2.69E-03	2.09E-03
4621	564869.6	4222415	0.01644817	8.72E-03	2.16E-03	1.67E-03
4622	564863.9	4222459	0.01463961	7.76E-03	1.92E-03	1.49E-03
4623	564863.9	4222468	0.01429375	7.58E-03	1.88E-03	1.45E-03
4624	564849.5	4222416	0.01554985	8.24E-03	2.04E-03	1.58E-03
4625	564843.9	4222459	0.01391572	7.38E-03	1.83E-03	1.41E-03
4626	564843.9	4222468	0.0136021	7.21E-03	1.79E-03	1.38E-03
4627	564828.3	4222424	0.01448068	7.68E-03	1.90E-03	1.47E-03
4628	564829.8	4222415	0.01479543	7.84E-03	1.94E-03	1.50E-03
4629	564840.1	4222352	0.01688043	8.95E-03	2.22E-03	1.72E-03
4630	564823.9	4222459	0.01324529	7.02E-03	1.74E-03	1.35E-03
4631	564823.9	4222469	0.01295967	6.87E-03	1.70E-03	1.32E-03
4632	564819.9	4222354	0.01592285	8.44E-03	2.09E-03	1.62E-03
4633	564802.6	4222337	0.01548616	8.21E-03	2.03E-03	1.57E-03
4634	564812.8	4222277	0.01659487	8.80E-03	2.18E-03	1.69E-03
4635	564768.1	4222425	0.01243974	6.60E-03	1.63E-03	1.26E-03
4636	564779.6	4222356	0.01425491	7.56E-03	1.87E-03	1.45E-03
4637	564789.6	4222296	0.01547287	8.20E-03	2.03E-03	1.57E-03
4638	564748.3	4222424	0.01189029	6.30E-03	1.56E-03	1.21E-03
4639	564744	4222478	0.01060057	5.62E-03	1.39E-03	1.08E-03
4640	564740	4222354	0.01294074	6.86E-03	1.70E-03	1.32E-03
4641	565287.9	4222688	0.007063468	3.75E-03	9.28E-04	7.18E-04
4642	565275.9	4222684	0.007236817	3.84E-03	9.50E-04	7.35E-04
4643	565264	4222680	0.007425605	3.94E-03	9.75E-04	7.55E-04
4644	565252	4222676	0.007628755	4.04E-03	1.00E-03	7.75E-04
4645	565216.1	4222665	0.008323335	4.41E-03	1.09E-03	8.46E-04
4646	565200.2	4222660	0.008645665	4.58E-03	1.14E-03	8.79E-04
4647	565162.3	4222651	0.009250571	4.90E-03	1.21E-03	9.40E-04
4648	565294.3	4222709	0.006243308	3.31E-03	8.20E-04	6.34E-04
4649	565278.4	4222704	0.00642158	3.40E-03	8.43E-04	6.53E-04
4650	565266.5	4222700	0.006571474	3.48E-03	8.63E-04	6.68E-04

4651	565242.6	4222692	0.006908947	3.66E-03	9.07E-04	7.02E-04
4652	565230.7	4222689	0.007097304	3.76E-03	9.32E-04	7.21E-04
4653	565218.8	4222685	0.007294699	3.87E-03	9.58E-04	7.41E-04
4654	565202.9	4222680	0.007566866	4.01E-03	9.94E-04	7.69E-04
4655	565163.2	4222667	0.008283312	4.39E-03	1.09E-03	8.42E-04
4656	565152.3	4222651	0.009265068	4.91E-03	1.22E-03	9.42E-04
4657	565149.2	4222666	0.00839133	4.45E-03	1.10E-03	8.53E-04
4658	565295.5	4222728	0.005620946	2.98E-03	7.38E-04	5.71E-04
4659	565283.4	4222724	0.005724095	3.03E-03	7.52E-04	5.82E-04
4660	565271.3	4222720	0.005845856	3.10E-03	7.68E-04	5.94E-04
4661	565247.1	4222713	0.006119906	3.24E-03	8.04E-04	6.22E-04
4662	565235	4222709	0.006273109	3.33E-03	8.24E-04	6.38E-04
4663	565218.8	4222704	0.006492345	3.44E-03	8.53E-04	6.60E-04
4664	565190.5	4222695	0.006910614	3.66E-03	9.08E-04	7.02E-04
4665	565178.4	4222691	0.007098838	3.76E-03	9.32E-04	7.21E-04
4666	565139.1	4222665	0.008417178	4.46E-03	1.11E-03	8.55E-04
4667	565136.1	4222680	0.007645647	4.05E-03	1.00E-03	7.77E-04
4668	565127.4	4222661	0.008643594	4.58E-03	1.14E-03	8.78E-04
4669	565116.9	4222638	0.01002756	5.32E-03	1.32E-03	1.02E-03
4670	565294	4222746	0.005118086	2.71E-03	6.72E-04	5.20E-04
4671	565281.9	4222742	0.005203779	2.76E-03	6.83E-04	5.29E-04
4672	565249.7	4222732	0.005491681	2.91E-03	7.21E-04	5.58E-04
4673	565237.6	4222729	0.005615432	2.98E-03	7.37E-04	5.71E-04
4674	565197.4	4222716	0.006086205	3.23E-03	7.99E-04	6.19E-04
4675	565115.7	4222657	0.008861188	4.70E-03	1.16E-03	9.01E-04
4676	565096.5	4222615	0.01153313	6.11E-03	1.51E-03	1.17E-03
4677	565091.3	4222603	0.01235383	6.55E-03	1.62E-03	1.26E-03
4678	565082.6	4222584	0.01380407	7.32E-03	1.81E-03	1.40E-03
4679	565124.8	4222699	0.006835546	3.62E-03	8.98E-04	6.95E-04
4680	565114.4	4222676	0.007864316	4.17E-03	1.03E-03	7.99E-04
4681	565103.9	4222653	0.009071224	4.81E-03	1.19E-03	9.22E-04
4682	565053.5	4222542	0.01680582	8.91E-03	2.21E-03	1.71E-03
4683	565048.3	4222530	0.01768257	9.38E-03	2.32E-03	1.80E-03
4684	565111.5	4222714	0.006280506	3.33E-03	8.25E-04	6.38E-04
4685	565101.1	4222691	0.007180361	3.81E-03	9.43E-04	7.30E-04
4686	565092.4	4222672	0.00804716	4.27E-03	1.06E-03	8.18E-04
4687	565030	4222534	0.01665417	8.83E-03	2.19E-03	1.69E-03
4688	565024.8	4222523	0.01742156	9.24E-03	2.29E-03	1.77E-03
4689	565014.4	4222500	0.01889943	1.00E-02	2.48E-03	1.92E-03
4690	565098.3	4222729	0.005794053	3.07E-03	7.61E-04	5.89E-04
4691	565087.9	4222706	0.006585999	3.49E-03	8.65E-04	6.69E-04
4692	565077.5	4222683	0.007510464	3.98E-03	9.86E-04	7.63E-04
4693	565029	4222576	0.01336302	7.09E-03	1.75E-03	1.36E-03
4694	565023.8	4222565	0.01407355	7.46E-03	1.85E-03	1.43E-03
4695	565018.6	4222553	0.01478733	7.84E-03	1.94E-03	1.50E-03
4696	565013.4	4222542	0.01549582	8.22E-03	2.04E-03	1.57E-03
4697	565008.2	4222530	0.01617923	8.58E-03	2.12E-03	1.64E-03

4698	565001.3	4222515	0.01706545	9.05E-03	2.24E-03	1.73E-03
4699	565064.2	4222698	0.006882319	3.65E-03	9.04E-04	6.99E-04
4700	565003.7	4222565	0.01359113	7.21E-03	1.78E-03	1.38E-03
4701	564998.6	4222553	0.01423442	7.55E-03	1.87E-03	1.45E-03
4702	564989.9	4222534	0.0152744	8.10E-03	2.01E-03	1.55E-03
4703	565113.9	4222775	0.004555999	2.42E-03	5.98E-04	4.63E-04
4704	565050.7	4222712	0.006355655	3.37E-03	8.35E-04	6.46E-04
4705	564991.2	4222581	0.01226856	6.50E-03	1.61E-03	1.25E-03
4706	564986	4222570	0.0128593	6.82E-03	1.69E-03	1.31E-03
4707	564977.2	4222550	0.01384	7.34E-03	1.82E-03	1.41E-03
4708	565049.7	4222754	0.005112384	2.71E-03	6.71E-04	5.20E-04
4709	564978.1	4222596	0.0111792	5.93E-03	1.47E-03	1.14E-03
4710	564972.9	4222585	0.01171428	6.21E-03	1.54E-03	1.19E-03
4711	564967.6	4222573	0.01224858	6.49E-03	1.61E-03	1.24E-03
4712	565103.2	4222810	0.003896251	2.07E-03	5.12E-04	3.96E-04
4713	565026	4222746	0.005334093	2.83E-03	7.01E-04	5.42E-04
4714	564965	4222612	0.01021659	5.42E-03	1.34E-03	1.04E-03
4715	564959.8	4222600	0.01070872	5.68E-03	1.41E-03	1.09E-03
4716	564954.5	4222589	0.0111974	5.94E-03	1.47E-03	1.14E-03
4717	564949.3	4222577	0.01168569	6.20E-03	1.53E-03	1.19E-03
4718	565110	4222832	0.003559236	1.89E-03	4.67E-04	3.62E-04
4719	565081.8	4222823	0.003712385	1.97E-03	4.88E-04	3.77E-04
4720	565069.8	4222819	0.003781591	2.00E-03	4.97E-04	3.84E-04
4721	565031.9	4222804	0.004072478	2.16E-03	5.35E-04	4.14E-04
4722	565023.2	4222784	0.004446799	2.36E-03	5.84E-04	4.52E-04
4723	565012.7	4222761	0.004961494	2.63E-03	6.52E-04	5.04E-04
4724	564946.6	4222616	0.00981497	5.20E-03	1.29E-03	9.97E-04
4725	564941.4	4222604	0.01026842	5.44E-03	1.35E-03	1.04E-03
4726	564936.2	4222592	0.01071977	5.68E-03	1.41E-03	1.09E-03
4727	564931	4222581	0.01116914	5.92E-03	1.47E-03	1.14E-03
4728	564925.7	4222569	0.01161237	6.16E-03	1.53E-03	1.18E-03
4729	565084.5	4222843	0.003420664	1.81E-03	4.49E-04	3.48E-04
4730	565072.5	4222839	0.003481236	1.85E-03	4.57E-04	3.54E-04
4731	565060.5	4222835	0.003542829	1.88E-03	4.65E-04	3.60E-04
4732	565032.4	4222826	0.003695683	1.96E-03	4.85E-04	3.76E-04
4733	564999.5	4222776	0.004628459	2.45E-03	6.08E-04	4.70E-04
4734	564933.5	4222631	0.009019529	4.78E-03	1.18E-03	9.17E-04
4735	564928.3	4222619	0.009435969	5.00E-03	1.24E-03	9.59E-04
4736	564923.1	4222608	0.009853137	5.22E-03	1.29E-03	1.00E-03
4737	564917.8	4222596	0.01026923	5.44E-03	1.35E-03	1.04E-03
4738	564912.6	4222585	0.01068115	5.66E-03	1.40E-03	1.09E-03
4739	565099.2	4222867	0.003115306	1.65E-03	4.09E-04	3.17E-04
4740	565071.2	4222858	0.003235266	1.72E-03	4.25E-04	3.29E-04
4741	565059.2	4222854	0.003289624	1.74E-03	4.32E-04	3.34E-04
4742	565047.1	4222850	0.003345999	1.77E-03	4.39E-04	3.40E-04
4743	565015.1	4222840	0.003505685	1.86E-03	4.60E-04	3.56E-04
4744	564996.7	4222814	0.0039129	2.07E-03	5.14E-04	3.98E-04

4745	564988	4222795	0.004256801	2.26E-03	5.59E-04	4.33E-04
4746	564979.3	4222776	0.004642392	2.46E-03	6.10E-04	4.72E-04
4747	564915.1	4222634	0.008694348	4.61E-03	1.14E-03	8.84E-04
4748	564909.9	4222623	0.009078808	4.81E-03	1.19E-03	9.23E-04
4749	564904.7	4222612	0.009462974	5.02E-03	1.24E-03	9.62E-04
4750	564899.5	4222600	0.009844664	5.22E-03	1.29E-03	1.00E-03
4751	564894.3	4222589	0.01022264	5.42E-03	1.34E-03	1.04E-03
4752	565086.8	4222882	0.002952124	1.57E-03	3.88E-04	3.00E-04
4753	565074.7	4222878	0.002997929	1.59E-03	3.94E-04	3.05E-04
4754	565062.5	4222874	0.003045483	1.61E-03	4.00E-04	3.10E-04
4755	565001.9	4222855	0.003310469	1.76E-03	4.35E-04	3.36E-04
4756	564974.5	4222810	0.004002627	2.12E-03	5.26E-04	4.07E-04
4757	564897.5	4222640	0.008335358	4.42E-03	1.09E-03	8.47E-04
4758	564892.3	4222628	0.008694133	4.61E-03	1.14E-03	8.84E-04
4759	564887	4222617	0.009052047	4.80E-03	1.19E-03	9.20E-04
4760	564881.8	4222605	0.009407567	4.99E-03	1.24E-03	9.56E-04
4761	565089.5	4222902	0.00275161	1.46E-03	3.61E-04	2.80E-04
4762	565073.4	4222897	0.002805107	1.49E-03	3.68E-04	2.85E-04
4763	565061.3	4222893	0.002846932	1.51E-03	3.74E-04	2.89E-04
4764	565049.2	4222889	0.002890289	1.53E-03	3.80E-04	2.94E-04
4765	565024.9	4222881	0.002982087	1.58E-03	3.92E-04	3.03E-04
4766	565012.8	4222878	0.003030555	1.61E-03	3.98E-04	3.08E-04
4767	564988.6	4222870	0.003132467	1.66E-03	4.11E-04	3.18E-04
4768	564963	4222829	0.003703052	1.96E-03	4.86E-04	3.76E-04
4769	564954.3	4222809	0.004017421	2.13E-03	5.28E-04	4.08E-04
4770	564884.4	4222655	0.007715632	4.09E-03	1.01E-03	7.84E-04
4771	564873.9	4222632	0.008379388	4.44E-03	1.10E-03	8.52E-04
4772	564868.7	4222620	0.008709867	4.62E-03	1.14E-03	8.85E-04
4773	565326.1	4222996	0.002113836	1.12E-03	2.78E-04	2.15E-04
4774	565305.9	4222989	0.00212949	1.13E-03	2.80E-04	2.16E-04
4775	565281.7	4222982	0.002155203	1.14E-03	2.83E-04	2.19E-04
4776	565269.6	4222978	0.002171018	1.15E-03	2.85E-04	2.21E-04
4777	565257.5	4222974	0.002188958	1.16E-03	2.87E-04	2.22E-04
4778	565245.4	4222970	0.00220897	1.17E-03	2.90E-04	2.24E-04
4779	565233.3	4222966	0.002230863	1.18E-03	2.93E-04	2.27E-04
4780	565221.2	4222963	0.002254344	1.20E-03	2.96E-04	2.29E-04
4781	565180.9	4222950	0.002342619	1.24E-03	3.08E-04	2.38E-04
4782	565168.8	4222946	0.002371533	1.26E-03	3.11E-04	2.41E-04
4783	565156.7	4222942	0.002401254	1.27E-03	3.15E-04	2.44E-04
4784	565144.6	4222938	0.002431889	1.29E-03	3.19E-04	2.47E-04
4785	565132.5	4222935	0.002463224	1.31E-03	3.23E-04	2.50E-04
4786	565108.3	4222927	0.002528233	1.34E-03	3.32E-04	2.57E-04
4787	565080.1	4222918	0.00260852	1.38E-03	3.43E-04	2.65E-04
4788	565068	4222914	0.002644642	1.40E-03	3.47E-04	2.69E-04
4789	565055.9	4222910	0.002682055	1.42E-03	3.52E-04	2.73E-04
4790	565031.7	4222903	0.002761024	1.46E-03	3.63E-04	2.81E-04
4791	565019.6	4222899	0.00280274	1.49E-03	3.68E-04	2.85E-04

4792	564975.3	4222885	0.002969231	1.57E-03	3.90E-04	3.02E-04
4793	564958.5	4222863	0.003233168	1.71E-03	4.25E-04	3.29E-04
4794	564949.8	4222844	0.003491806	1.85E-03	4.59E-04	3.55E-04
4795	564944.5	4222832	0.003659991	1.94E-03	4.81E-04	3.72E-04
4796	564935.8	4222813	0.00396586	2.10E-03	5.21E-04	4.03E-04
4797	564871.3	4222670	0.007159221	3.80E-03	9.40E-04	7.28E-04
4798	564866	4222659	0.007465708	3.96E-03	9.80E-04	7.59E-04
4799	564855.5	4222636	0.008081211	4.28E-03	1.06E-03	8.21E-04
4800	564850.3	4222624	0.008387079	4.45E-03	1.10E-03	8.52E-04
4801	565328.4	4223016	0.002006599	1.06E-03	2.64E-04	2.04E-04
4802	565316.3	4223012	0.002013861	1.07E-03	2.64E-04	2.05E-04
4803	565304.3	4223008	0.002022845	1.07E-03	2.66E-04	2.06E-04
4804	565280.1	4223000	0.002046245	1.08E-03	2.69E-04	2.08E-04
4805	565268	4222997	0.002060392	1.09E-03	2.71E-04	2.09E-04
4806	565255.9	4222993	0.002076288	1.10E-03	2.73E-04	2.11E-04
4807	565243.9	4222989	0.002094336	1.11E-03	2.75E-04	2.13E-04
4808	565231.8	4222985	0.002114078	1.12E-03	2.78E-04	2.15E-04
4809	565219.7	4222981	0.00213538	1.13E-03	2.80E-04	2.17E-04
4810	565179.4	4222969	0.002215559	1.17E-03	2.91E-04	2.25E-04
4811	565167.4	4222965	0.002241837	1.19E-03	2.94E-04	2.28E-04
4812	565155.3	4222961	0.002268868	1.20E-03	2.98E-04	2.31E-04
4813	565143.2	4222957	0.002296653	1.22E-03	3.02E-04	2.33E-04
4814	565131.1	4222953	0.002325082	1.23E-03	3.05E-04	2.36E-04
4815	565107	4222946	0.002383825	1.26E-03	3.13E-04	2.42E-04
4816	565094.9	4222942	0.002414191	1.28E-03	3.17E-04	2.45E-04
4817	565074.8	4222935	0.002466397	1.31E-03	3.24E-04	2.51E-04
4818	565062.7	4222932	0.002498942	1.32E-03	3.28E-04	2.54E-04
4819	565050.6	4222928	0.002532509	1.34E-03	3.33E-04	2.57E-04
4820	565026.4	4222920	0.002603275	1.38E-03	3.42E-04	2.65E-04
4821	565014.4	4222916	0.002640634	1.40E-03	3.47E-04	2.68E-04
4822	565002.3	4222913	0.002679473	1.42E-03	3.52E-04	2.72E-04
4823	564990.2	4222909	0.002719737	1.44E-03	3.57E-04	2.76E-04
4824	564978.1	4222905	0.002761454	1.46E-03	3.63E-04	2.81E-04
4825	564966	4222901	0.002804542	1.49E-03	3.68E-04	2.85E-04
4826	564952.2	4222893	0.002889616	1.53E-03	3.79E-04	2.94E-04
4827	564947	4222882	0.003017161	1.60E-03	3.96E-04	3.07E-04
4828	564936.5	4222859	0.003298257	1.75E-03	4.33E-04	3.35E-04
4829	564931.3	4222847	0.003452241	1.83E-03	4.53E-04	3.51E-04
4830	564922.6	4222828	0.003731993	1.98E-03	4.90E-04	3.79E-04
4831	564858.1	4222686	0.006657463	3.53E-03	8.74E-04	6.77E-04
4832	564852.9	4222674	0.006941304	3.68E-03	9.12E-04	7.05E-04
4833	564847.6	4222663	0.007227081	3.83E-03	9.49E-04	7.34E-04
4834	564837.2	4222640	0.00779885	4.13E-03	1.02E-03	7.93E-04
4835	564832	4222628	0.008082071	4.29E-03	1.06E-03	8.21E-04
4836	564767.5	4222486	0.01095811	5.81E-03	1.44E-03	1.11E-03
4837	565330.8	4223036	0.00190813	1.01E-03	2.51E-04	1.94E-04
4838	565318.7	4223032	0.001914182	1.01E-03	2.51E-04	1.95E-04

4839	565306.6	4223028	0.00192174	1.02E-03	2.52E-04	1.95E-04
4840	565282.5	4223020	0.001941724	1.03E-03	2.55E-04	1.97E-04
4841	565270.4	4223016	0.001954151	1.04E-03	2.57E-04	1.99E-04
4842	565258.4	4223013	0.001968217	1.04E-03	2.58E-04	2.00E-04
4843	565246.3	4223009	0.001983764	1.05E-03	2.61E-04	2.02E-04
4844	565234.2	4223005	0.002000978	1.06E-03	2.63E-04	2.03E-04
4845	565222.2	4223001	0.002019698	1.07E-03	2.65E-04	2.05E-04
4846	565198.1	4222994	0.002061307	1.09E-03	2.71E-04	2.09E-04
4847	565186	4222990	0.002083792	1.10E-03	2.74E-04	2.12E-04
4848	565173.9	4222986	0.002107166	1.12E-03	2.77E-04	2.14E-04
4849	565161.9	4222982	0.002131399	1.13E-03	2.80E-04	2.17E-04
4850	565149.8	4222978	0.002156279	1.14E-03	2.83E-04	2.19E-04
4851	565137.7	4222975	0.002181831	1.16E-03	2.87E-04	2.22E-04
4852	565113.6	4222967	0.002234521	1.18E-03	2.93E-04	2.27E-04
4853	565101.5	4222963	0.002261606	1.20E-03	2.97E-04	2.30E-04
4854	565089.5	4222959	0.002289283	1.21E-03	3.01E-04	2.33E-04
4855	565077.4	4222955	0.002317498	1.23E-03	3.04E-04	2.36E-04
4856	565065.3	4222952	0.002346438	1.24E-03	3.08E-04	2.38E-04
4857	565053.3	4222948	0.002376105	1.26E-03	3.12E-04	2.41E-04
4858	565029.2	4222940	0.002438291	1.29E-03	3.20E-04	2.48E-04
4859	565017.1	4222936	0.002471051	1.31E-03	3.25E-04	2.51E-04
4860	565005	4222933	0.002505048	1.33E-03	3.29E-04	2.55E-04
4861	564993	4222929	0.002540283	1.35E-03	3.34E-04	2.58E-04
4862	564980.9	4222925	0.002576916	1.37E-03	3.38E-04	2.62E-04
4863	564968.8	4222921	0.00261484	1.39E-03	3.43E-04	2.66E-04
4864	564956.8	4222917	0.002654136	1.41E-03	3.49E-04	2.70E-04
4865	564944.7	4222913	0.002694616	1.43E-03	3.54E-04	2.74E-04
4866	564937.2	4222905	0.002784155	1.48E-03	3.66E-04	2.83E-04
4867	564932	4222893	0.002904087	1.54E-03	3.81E-04	2.95E-04
4868	564926.8	4222881	0.003032196	1.61E-03	3.98E-04	3.08E-04
4869	564921.5	4222870	0.003168024	1.68E-03	4.16E-04	3.22E-04
4870	564916.3	4222858	0.003312217	1.76E-03	4.35E-04	3.37E-04
4871	564911.1	4222847	0.003465582	1.84E-03	4.55E-04	3.52E-04
4872	564904.1	4222832	0.003685919	1.95E-03	4.84E-04	3.75E-04
4873	564845	4222701	0.006204443	3.29E-03	8.15E-04	6.31E-04
4874	564839.7	4222689	0.006467196	3.43E-03	8.49E-04	6.57E-04
4875	564834.5	4222678	0.006732693	3.57E-03	8.84E-04	6.84E-04
4876	564829.3	4222666	0.006999105	3.71E-03	9.19E-04	7.11E-04
4877	564824.1	4222655	0.007265758	3.85E-03	9.54E-04	7.38E-04
4878	564749.2	4222490	0.01045049	5.54E-03	1.37E-03	1.06E-03
4879	565333.1	4223055	0.001817488	9.64E-04	2.39E-04	1.85E-04
4880	565321	4223052	0.001822545	9.66E-04	2.39E-04	1.85E-04
4881	565309	4223048	0.001828839	9.70E-04	2.40E-04	1.86E-04
4882	565284.9	4223040	0.001845838	9.79E-04	2.42E-04	1.88E-04
4883	565272.8	4223036	0.001856623	9.84E-04	2.44E-04	1.89E-04
4884	565260.8	4223033	0.001868996	9.91E-04	2.45E-04	1.90E-04
4885	565248.7	4223029	0.001882794	9.98E-04	2.47E-04	1.91E-04

4886	565236.7	4223025	0.001897802	1.01E-03	2.49E-04	1.93E-04
4887	565224.6	4223021	0.001914155	1.01E-03	2.51E-04	1.95E-04
4888	565212.6	4223017	0.001932149	1.02E-03	2.54E-04	1.96E-04
4889	565188.5	4223010	0.001971526	1.05E-03	2.59E-04	2.00E-04
4890	565176.4	4223006	0.00199264	1.06E-03	2.62E-04	2.03E-04
4891	565164.4	4223002	0.00201456	1.07E-03	2.65E-04	2.05E-04
4892	565104.1	4222983	0.002132771	1.13E-03	2.80E-04	2.17E-04
4893	565092.1	4222979	0.002157785	1.14E-03	2.83E-04	2.19E-04
4894	565080	4222975	0.002183229	1.16E-03	2.87E-04	2.22E-04
4895	565068	4222972	0.002209211	1.17E-03	2.90E-04	2.25E-04
4896	565055.9	4222968	0.002235732	1.19E-03	2.94E-04	2.27E-04
4897	565043.9	4222964	0.00226287	1.20E-03	2.97E-04	2.30E-04
4898	565019.8	4222956	0.002319623	1.23E-03	3.05E-04	2.36E-04
4899	565007.7	4222953	0.002349451	1.25E-03	3.09E-04	2.39E-04
4900	564995.7	4222949	0.002380382	1.26E-03	3.13E-04	2.42E-04
4901	564983.6	4222945	0.00241247	1.28E-03	3.17E-04	2.45E-04
4902	564971.6	4222941	0.002445822	1.30E-03	3.21E-04	2.49E-04
4903	564959.5	4222937	0.002480411	1.32E-03	3.26E-04	2.52E-04
4904	564947.5	4222934	0.002516264	1.33E-03	3.30E-04	2.56E-04
4905	564935.4	4222930	0.002553274	1.35E-03	3.35E-04	2.59E-04
4906	564925.7	4222923	0.002613173	1.39E-03	3.43E-04	2.66E-04
4907	564920.5	4222912	0.00272127	1.44E-03	3.57E-04	2.77E-04
4908	564915.2	4222900	0.002836415	1.50E-03	3.73E-04	2.88E-04
4909	564910	4222889	0.002959091	1.57E-03	3.89E-04	3.01E-04
4910	564904.8	4222877	0.003089486	1.64E-03	4.06E-04	3.14E-04
4911	564899.6	4222866	0.003227788	1.71E-03	4.24E-04	3.28E-04
4912	564894.4	4222854	0.003374779	1.79E-03	4.43E-04	3.43E-04
4913	564889.2	4222843	0.003530753	1.87E-03	4.64E-04	3.59E-04
4914	564883.9	4222831	0.003695575	1.96E-03	4.85E-04	3.76E-04
4915	564878.7	4222820	0.003869408	2.05E-03	5.08E-04	3.93E-04
4916	564873.5	4222808	0.004051983	2.15E-03	5.32E-04	4.12E-04
4917	564868.3	4222797	0.004243299	2.25E-03	5.57E-04	4.31E-04
4918	564863.1	4222785	0.004443114	2.36E-03	5.84E-04	4.52E-04
4919	564857.9	4222774	0.004651079	2.47E-03	6.11E-04	4.73E-04
4920	564852.7	4222762	0.004866952	2.58E-03	6.39E-04	4.95E-04
4921	564847.4	4222751	0.005089791	2.70E-03	6.68E-04	5.17E-04
4922	564842.2	4222739	0.005319085	2.82E-03	6.99E-04	5.41E-04
4923	564837	4222728	0.005554108	2.94E-03	7.29E-04	5.64E-04
4924	564831.8	4222716	0.005793919	3.07E-03	7.61E-04	5.89E-04
4925	564826.6	4222705	0.00603763	3.20E-03	7.93E-04	6.14E-04
4926	564821.4	4222693	0.006284352	3.33E-03	8.25E-04	6.39E-04
4927	564816.1	4222682	0.006532636	3.46E-03	8.58E-04	6.64E-04
4928	565045.8	4222984	0.002134923	1.13E-03	2.80E-04	2.17E-04
4929	565036	4223001	0.002032743	1.08E-03	2.67E-04	2.07E-04
4930	564894.5	4222482	0.01483131	7.86E-03	1.95E-03	1.51E-03
4931	564814.4	4222490	0.01202251	6.37E-03	1.58E-03	1.22E-03
4932	564794.4	4222489	0.01150935	6.10E-03	1.51E-03	1.17E-03

4933	565206.9	4222702	0.006586779	3.49E-03	8.65E-04	6.69E-04
4934	565204.7	4222740	0.005310451	2.82E-03	6.97E-04	5.40E-04
4935	565075.1	4222576	0.01436492	7.62E-03	1.89E-03	1.46E-03
4936	565287.9	4222785	0.004267237	2.26E-03	5.60E-04	4.34E-04
4937	565271.4	4222778	0.00438959	2.33E-03	5.76E-04	4.46E-04
4938	565254.9	4222771	0.004528996	2.40E-03	5.95E-04	4.60E-04
4939	565091.3	4222688	0.007321677	3.88E-03	9.62E-04	7.44E-04
4940	565080.8	4222662	0.008507282	4.51E-03	1.12E-03	8.65E-04
4941	565077.3	4222654	0.008943653	4.74E-03	1.17E-03	9.09E-04
4942	565261.8	4222814	0.003764995	2.00E-03	4.94E-04	3.83E-04
4943	565253.5	4222811	0.003817498	2.02E-03	5.01E-04	3.88E-04
4944	565245.1	4222807	0.003872636	2.05E-03	5.09E-04	3.94E-04
4945	565128.1	4222758	0.004940138	2.62E-03	6.49E-04	5.02E-04
4946	565119.7	4222755	0.005038525	2.67E-03	6.62E-04	5.12E-04
4947	565077.3	4222702	0.006728739	3.57E-03	8.84E-04	6.84E-04
4948	565279	4222842	0.003391374	1.80E-03	4.45E-04	3.45E-04
4949	565105.3	4222769	0.004716492	2.50E-03	6.19E-04	4.79E-04
4950	565073.6	4222742	0.005438022	2.88E-03	7.14E-04	5.53E-04
4951	565053.1	4222692	0.007117127	3.77E-03	9.35E-04	7.23E-04
4952	564977.8	4222509	0.01652166	8.76E-03	2.17E-03	1.68E-03
4953	565252.3	4222850	0.003270581	1.73E-03	4.30E-04	3.32E-04
4954	565243.8	4222847	0.003312943	1.76E-03	4.35E-04	3.37E-04
4955	565235.4	4222843	0.003357323	1.78E-03	4.41E-04	3.41E-04
4956	565117	4222794	0.004183589	2.22E-03	5.49E-04	4.25E-04
4957	565108.5	4222790	0.004259544	2.26E-03	5.59E-04	4.33E-04
4958	565100.1	4222787	0.004337868	2.30E-03	5.70E-04	4.41E-04
4959	565027.8	4222679	0.007587603	4.02E-03	9.96E-04	7.71E-04
4960	565020.8	4222662	0.008295954	4.40E-03	1.09E-03	8.43E-04
4961	564968.4	4222535	0.01453673	7.71E-03	1.91E-03	1.48E-03
4962	565244.6	4222867	0.003074423	1.63E-03	4.04E-04	3.12E-04
4963	565236.2	4222864	0.003112698	1.65E-03	4.09E-04	3.16E-04
4964	565020.9	4222711	0.006392612	3.39E-03	8.40E-04	6.50E-04
4965	565014	4222694	0.006970809	3.70E-03	9.15E-04	7.08E-04
4966	565007.1	4222677	0.007596802	4.03E-03	9.98E-04	7.72E-04
4967	564958.6	4222560	0.01281217	6.79E-03	1.68E-03	1.30E-03
4968	564951.7	4222543	0.01357954	7.20E-03	1.78E-03	1.38E-03
4969	565245.3	4222888	0.0028635	1.52E-03	3.76E-04	2.91E-04
4970	565237	4222884	0.002896636	1.54E-03	3.80E-04	2.94E-04
4971	565228.7	4222881	0.002931307	1.55E-03	3.85E-04	2.98E-04
4972	565095.9	4222825	0.003669028	1.95E-03	4.82E-04	3.73E-04
4973	564996.7	4222701	0.006703591	3.55E-03	8.80E-04	6.81E-04
4974	564938.4	4222559	0.01237715	6.56E-03	1.63E-03	1.26E-03
4975	564931.5	4222543	0.0130589	6.92E-03	1.72E-03	1.33E-03
4976	565235	4222903	0.002714358	1.44E-03	3.56E-04	2.76E-04
4977	565226.5	4222900	0.002745854	1.46E-03	3.61E-04	2.79E-04
4978	565218.1	4222896	0.002778641	1.47E-03	3.65E-04	2.82E-04
4979	565099.7	4222847	0.003360281	1.78E-03	4.41E-04	3.41E-04

4980	564988.7	4222730	0.005783053	3.07E-03	7.59E-04	5.88E-04
4981	564978.2	4222704	0.006541996	3.47E-03	8.59E-04	6.65E-04
4982	564974.7	4222696	0.006814217	3.61E-03	8.95E-04	6.93E-04
4983	564918.8	4222560	0.01189411	6.31E-03	1.56E-03	1.21E-03
4984	565235.7	4222924	0.002541063	1.35E-03	3.34E-04	2.58E-04
4985	565227.4	4222920	0.002568685	1.36E-03	3.37E-04	2.61E-04
4986	565219	4222917	0.002597465	1.38E-03	3.41E-04	2.64E-04
4987	565084.9	4222860	0.003195243	1.69E-03	4.20E-04	3.25E-04
4988	564964.4	4222719	0.006055381	3.21E-03	7.95E-04	6.15E-04
4989	564961	4222711	0.006298769	3.34E-03	8.27E-04	6.40E-04
4990	564905.6	4222577	0.01090743	5.78E-03	1.43E-03	1.11E-03
4991	564991.9	4222834	0.00360106	1.91E-03	4.73E-04	3.66E-04
4992	564947.2	4222726	0.005842602	3.10E-03	7.67E-04	5.94E-04
4993	564943.7	4222718	0.00606848	3.22E-03	7.97E-04	6.17E-04
4994	564885.3	4222576	0.01056907	5.60E-03	1.39E-03	1.07E-03
4995	564977.6	4222848	0.003412219	1.81E-03	4.48E-04	3.47E-04
4996	564932.2	4222738	0.005503838	2.92E-03	7.23E-04	5.59E-04
4997	564925.2	4222721	0.005932678	3.15E-03	7.79E-04	6.03E-04
4998	564872.8	4222594	0.009680164	5.13E-03	1.27E-03	9.84E-04
4999	565201.7	4222970	0.002207759	1.17E-03	2.90E-04	2.24E-04
5000	565193.3	4222966	0.002230863	1.18E-03	2.93E-04	2.27E-04
5001	565176.6	4222959	0.002279197	1.21E-03	2.99E-04	2.32E-04
5002	565168.2	4222956	0.002304318	1.22E-03	3.03E-04	2.34E-04
5003	565159.8	4222952	0.002330031	1.24E-03	3.06E-04	2.37E-04
5004	564914.9	4222745	0.005322608	2.82E-03	6.99E-04	5.41E-04
5005	564911.4	4222736	0.005519438	2.93E-03	7.25E-04	5.61E-04
5006	564856	4222602	0.009176794	4.87E-03	1.21E-03	9.33E-04
5007	564849	4222585	0.009641218	5.11E-03	1.27E-03	9.80E-04
5008	565157	4222971	0.00220281	1.17E-03	2.89E-04	2.24E-04
5009	565148.5	4222967	0.002227125	1.18E-03	2.92E-04	2.26E-04
5010	564986.8	4222899	0.002811966	1.49E-03	3.69E-04	2.86E-04
5011	564978.3	4222896	0.002852015	1.51E-03	3.75E-04	2.90E-04
5012	564961.2	4222889	0.002935395	1.56E-03	3.86E-04	2.98E-04
5013	564899.9	4222757	0.005030188	2.67E-03	6.61E-04	5.11E-04
5014	564896.4	4222749	0.005214403	2.76E-03	6.85E-04	5.30E-04
5015	564892.9	4222740	0.005404374	2.87E-03	7.10E-04	5.49E-04
5016	564840.1	4222612	0.008653411	4.59E-03	1.14E-03	8.79E-04
5017	564836.6	4222603	0.008874098	4.71E-03	1.17E-03	9.02E-04
5018	565335.8	4223046	0.001863858	9.88E-04	2.45E-04	1.89E-04
5019	565327.2	4223062	0.001780801	9.44E-04	2.34E-04	1.81E-04
5020	565158.2	4222991	0.002076208	1.10E-03	2.73E-04	2.11E-04
5021	565149.8	4222988	0.002098101	1.11E-03	2.76E-04	2.13E-04
5022	565141.3	4222984	0.002120453	1.12E-03	2.78E-04	2.15E-04
5023	564963.9	4222910	0.002720571	1.44E-03	3.57E-04	2.76E-04
5024	564955.4	4222906	0.002758469	1.46E-03	3.62E-04	2.80E-04
5025	564947	4222903	0.002797334	1.48E-03	3.67E-04	2.84E-04
5026	564882.7	4222764	0.004874214	2.58E-03	6.40E-04	4.95E-04

5027	564879.2	4222755	0.005046675	2.68E-03	6.63E-04	5.13E-04
5028	564823.3	4222620	0.00823272	4.36E-03	1.08E-03	8.37E-04
5029	564816.3	4222603	0.00863722	4.58E-03	1.13E-03	8.78E-04
5030	565335.6	4223066	0.001773835	9.40E-04	2.33E-04	1.80E-04
5031	565327.1	4223082	0.001696884	9.00E-04	2.23E-04	1.72E-04
5032	565318.7	4223079	0.001703447	9.03E-04	2.24E-04	1.73E-04
5033	565310.3	4223075	0.001710628	9.07E-04	2.25E-04	1.74E-04
5034	565285.2	4223065	0.001736287	9.21E-04	2.28E-04	1.76E-04
5035	565276.8	4223061	0.001746293	9.26E-04	2.29E-04	1.77E-04
5036	565268.4	4223058	0.001757132	9.32E-04	2.31E-04	1.79E-04
5037	565260	4223054	0.001768671	9.38E-04	2.32E-04	1.80E-04
5038	565251.6	4223051	0.001781043	9.44E-04	2.34E-04	1.81E-04
5039	565243.2	4223047	0.001794062	9.51E-04	2.36E-04	1.82E-04
5040	565234.8	4223044	0.001807833	9.59E-04	2.37E-04	1.84E-04
5041	565226.4	4223040	0.001822249	9.66E-04	2.39E-04	1.85E-04
5042	565218	4223037	0.001837419	9.74E-04	2.41E-04	1.87E-04
5043	565209.6	4223033	0.001853288	9.83E-04	2.43E-04	1.88E-04
5044	564966.3	4222931	0.00253138	1.34E-03	3.32E-04	2.57E-04
5045	564957.9	4222927	0.00256457	1.36E-03	3.37E-04	2.61E-04
5046	564949.5	4222924	0.002598568	1.38E-03	3.41E-04	2.64E-04
5047	564932.7	4222917	0.002669387	1.42E-03	3.51E-04	2.71E-04
5048	564872.3	4222787	0.004415195	2.34E-03	5.80E-04	4.49E-04
5049	564861.9	4222762	0.004886587	2.59E-03	6.42E-04	4.97E-04
5050	564855	4222745	0.005222795	2.77E-03	6.86E-04	5.31E-04
5051	565335.5	4223086	0.001690698	8.96E-04	2.22E-04	1.72E-04
5052	565326.9	4223102	0.001619125	8.58E-04	2.13E-04	1.65E-04
5053	565318.4	4223099	0.001625312	8.62E-04	2.13E-04	1.65E-04
5054	565309.9	4223095	0.001631874	8.65E-04	2.14E-04	1.66E-04
5055	565292.8	4223088	0.001646856	8.73E-04	2.16E-04	1.67E-04
5056	565284.3	4223085	0.001655382	8.78E-04	2.17E-04	1.68E-04
5057	565190.8	4223045	0.001795218	9.52E-04	2.36E-04	1.82E-04
5058	565182.3	4223042	0.001811598	9.61E-04	2.38E-04	1.84E-04
5059	565173.8	4223038	0.001828516	9.69E-04	2.40E-04	1.86E-04
5060	565165.3	4223035	0.001846026	9.79E-04	2.42E-04	1.88E-04
5061	565156.8	4223031	0.0018641	9.88E-04	2.45E-04	1.89E-04
5062	565148.3	4223027	0.001882498	9.98E-04	2.47E-04	1.91E-04
5063	565139.8	4223024	0.001901325	1.01E-03	2.50E-04	1.93E-04
5064	565131.3	4223020	0.001920557	1.02E-03	2.52E-04	1.95E-04
5065	565122.8	4223017	0.001940057	1.03E-03	2.55E-04	1.97E-04
5066	565114.3	4223013	0.001959906	1.04E-03	2.57E-04	1.99E-04
5067	565097.2	4223006	0.002000493	1.06E-03	2.63E-04	2.03E-04
5068	565088.7	4223002	0.002021285	1.07E-03	2.65E-04	2.05E-04
5069	565080.2	4222999	0.002042345	1.08E-03	2.68E-04	2.08E-04
5070	565071.7	4222995	0.002063727	1.09E-03	2.71E-04	2.10E-04
5071	565063.2	4222992	0.002085433	1.11E-03	2.74E-04	2.12E-04
5072	565054.7	4222988	0.002107569	1.12E-03	2.77E-04	2.14E-04
5073	565020.7	4222974	0.002200712	1.17E-03	2.89E-04	2.24E-04

5074	565012.2	4222970	0.002225484	1.18E-03	2.92E-04	2.26E-04
5075	565003.7	4222967	0.002250848	1.19E-03	2.96E-04	2.29E-04
5076	564995.2	4222963	0.002276964	1.21E-03	2.99E-04	2.31E-04
5077	564986.7	4222960	0.002303834	1.22E-03	3.03E-04	2.34E-04
5078	564978.2	4222956	0.002331538	1.24E-03	3.06E-04	2.37E-04
5079	564969.7	4222952	0.002360156	1.25E-03	3.10E-04	2.40E-04
5080	564961.2	4222949	0.002389554	1.27E-03	3.14E-04	2.43E-04
5081	564952.7	4222945	0.002419866	1.28E-03	3.18E-04	2.46E-04
5082	564927.2	4222934	0.00251613	1.33E-03	3.30E-04	2.56E-04
5083	564918.7	4222931	0.002549616	1.35E-03	3.35E-04	2.59E-04
5084	564906.6	4222919	0.002661479	1.41E-03	3.50E-04	2.70E-04
5085	564903.1	4222910	0.002742949	1.45E-03	3.60E-04	2.79E-04
5086	564899.6	4222902	0.002828131	1.50E-03	3.71E-04	2.87E-04
5087	564896.1	4222893	0.002917374	1.55E-03	3.83E-04	2.96E-04
5088	564892.6	4222885	0.003010759	1.60E-03	3.95E-04	3.06E-04
5089	564889.1	4222876	0.003108582	1.65E-03	4.08E-04	3.16E-04
5090	564885.5	4222868	0.003210628	1.70E-03	4.22E-04	3.26E-04
5091	564882	4222859	0.003317247	1.76E-03	4.36E-04	3.37E-04
5092	564878.5	4222851	0.003428411	1.82E-03	4.50E-04	3.48E-04
5093	564875	4222842	0.003544174	1.88E-03	4.65E-04	3.60E-04
5094	564871.5	4222834	0.003664456	1.94E-03	4.81E-04	3.72E-04
5095	564868	4222825	0.003789525	2.01E-03	4.98E-04	3.85E-04
5096	564864.5	4222816	0.003919302	2.08E-03	5.15E-04	3.98E-04
5097	564860.9	4222808	0.004053731	2.15E-03	5.32E-04	4.12E-04
5098	564857.4	4222799	0.004192599	2.22E-03	5.51E-04	4.26E-04
5099	564853.9	4222791	0.004336146	2.30E-03	5.69E-04	4.41E-04
5100	564850.4	4222782	0.004484105	2.38E-03	5.89E-04	4.56E-04
5101	564846.9	4222774	0.004636313	2.46E-03	6.09E-04	4.71E-04
5102	564843.4	4222765	0.004792636	2.54E-03	6.29E-04	4.87E-04
5103	564839.8	4222757	0.004952698	2.63E-03	6.50E-04	5.03E-04
5104	564836.3	4222748	0.00511658	2.71E-03	6.72E-04	5.20E-04
5105	564832.8	4222740	0.005283931	2.80E-03	6.94E-04	5.37E-04
5106	564822.3	4222714	0.005803171	3.08E-03	7.62E-04	5.90E-04
5107	564797.7	4222654	0.007069493	3.75E-03	9.28E-04	7.18E-04
5108	564794.1	4222646	0.007250804	3.84E-03	9.52E-04	7.37E-04
5109	564790.6	4222637	0.007430877	3.94E-03	9.76E-04	7.55E-04
5110	564783.6	4222620	0.007785939	4.13E-03	1.02E-03	7.91E-04
5111	565335.4	4223106	0.001613558	8.56E-04	2.12E-04	1.64E-04

			UnMitigated				T2				T2L3				T4			
						7.79E-07				5.41E-07				1.51E-07				9.09E-08
			Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	565427.7	4222516	1.45E-07	5.58E-09	6.88E-08	2.20E-07	7.70E-08	6.12E-09	6.88E-08	1.52E-07	1.91E-08	1.09E-09	2.25E-08	4.27E-08	1.48E-08	6.07E-10	1.03E-08	2.56E-08
2	565422.4	4222529	1.04E-07	5.48E-09	4.92E-08	1.59E-07	5.51E-08	6.01E-09	4.92E-08	1.10E-07	1.37E-08	1.07E-09	1.61E-08	3.08E-08	1.06E-08	5.96E-10	7.35E-09	1.85E-08
3	565432.3	4222525	1.20E-07	5.43E-09	5.70E-08	1.83E-07	6.38E-08	5.95E-09	5.70E-08	1.27E-07	1.58E-08	1.06E-09	1.86E-08	3.55E-08	1.22E-08	5.90E-10	8.51E-09	2.13E-08
4	565427	4222537	8.87E-08	5.34E-09	4.20E-08	1.36E-07	4.70E-08	5.85E-09	4.20E-08	9.49E-08	1.17E-08	1.04E-09	1.38E-08	2.64E-08	9.02E-09	5.81E-10	6.27E-09	1.59E-08
5	565436.9	4222533	1.02E-07	5.41E-09	4.83E-08	1.56E-07	5.41E-08	5.93E-09	4.83E-08	1.08E-07	1.34E-08	1.06E-09	1.58E-08	3.03E-08	1.04E-08	5.89E-10	7.21E-09	1.82E-08
6	565431.6	4222546	7.71E-08	5.50E-09	3.65E-08	1.19E-07	4.09E-08	6.03E-09	3.65E-08	8.34E-08	1.01E-08	1.07E-09	1.19E-08	2.31E-08	7.83E-09	5.98E-10	5.45E-09	1.39E-08
7	565422.3	4222548	6.97E-08	5.44E-09	3.30E-08	1.08E-07	3.69E-08	5.96E-09	3.30E-08	7.59E-08	9.15E-09	1.06E-09	1.08E-08	2.10E-08	7.08E-09	5.91E-10	4.93E-09	1.26E-08
8	565441.5	4222542	8.81E-08	5.38E-09	4.17E-08	1.35E-07	4.67E-08	5.90E-09	4.17E-08	9.43E-08	1.16E-08	1.05E-09	1.37E-08	2.63E-08	8.95E-09	5.85E-10	6.23E-09	1.58E-08
9	565435.3	4222555	6.73E-08	5.28E-09	3.19E-08	1.04E-07	3.57E-08	5.79E-09	3.19E-08	7.33E-08	8.84E-09	1.03E-09	1.04E-08	2.03E-08	6.84E-09	5.74E-10	4.76E-09	1.22E-08
10	565424.1	4222558	5.99E-08	5.23E-09	2.84E-08	9.35E-08	3.18E-08	5.73E-09	2.84E-08	6.59E-08	7.87E-09	1.02E-09	9.28E-09	1.82E-08	6.09E-09	5.69E-10	4.24E-09	1.09E-08
11	565446.1	4222551	7.72E-08	5.30E-09	3.66E-08	1.19E-07	4.09E-08	5.81E-09	3.66E-08	8.33E-08	1.01E-08	1.03E-09	1.20E-08	2.32E-08	7.85E-09	5.76E-10	5.46E-09	1.39E-08
12	565440.1	4222564	6.00E-08	5.38E-09	2.84E-08	9.38E-08	3.18E-08	5.89E-09	2.84E-08	6.61E-08	7.88E-09	1.05E-09	9.30E-09	1.82E-08	6.10E-09	5.85E-10	4.24E-09	1.09E-08
13	565429.2	4222566	5.39E-08	5.48E-09	2.55E-08	8.49E-08	2.86E-08	6.01E-09	2.55E-08	6.01E-08	7.07E-09	1.07E-09	8.35E-09	1.65E-08	5.47E-09	5.96E-10	3.81E-09	9.88E-09
14	565450.7	4222560	6.83E-08	4.75E-09	3.24E-08	1.05E-07	3.62E-08	5.20E-09	3.24E-08	7.38E-08	8.97E-09	9.27E-10	1.06E-08	2.05E-08	6.94E-09	5.16E-10	4.83E-09	1.23E-08
15	565444.8	4222572	5.39E-08	4.64E-09	2.55E-08	8.41E-08	2.86E-08	5.09E-09	2.55E-08	5.92E-08	7.08E-09	9.07E-10	8.36E-09	1.63E-08	5.48E-09	5.05E-10	3.81E-09	9.80E-09
16	565434.1	4222575	4.86E-08	4.45E-09	2.30E-08	7.61E-08	2.58E-08	4.88E-09	2.30E-08	5.37E-08	6.39E-09	8.69E-10	7.54E-09	1.48E-08	4.94E-09	4.84E-10	3.44E-09	8.87E-09
17	565423.4	4222578	4.42E-08	4.35E-09	2.10E-08	6.95E-08	2.34E-08	4.77E-09	2.10E-08	4.92E-08	5.81E-09	8.50E-10	6.86E-09	1.35E-08	4.49E-09	4.73E-10	3.13E-09	8.10E-09
18	565455.4	4222568	6.11E-08	4.19E-09	2.89E-08	9.42E-08	3.24E-08	4.59E-09	2.89E-08	6.59E-08	8.02E-09	8.19E-10	9.47E-09	1.83E-08	6.21E-09	4.56E-10	4.32E-09	1.10E-08
19	565449.5	4222581	4.90E-08	4.10E-09	2.32E-08	7.63E-08	2.60E-08	4.50E-09	2.32E-08	5.37E-08	6.43E-09	8.02E-10	7.59E-09	1.48E-08	4.98E-09	4.46E-10	3.46E-09	8.89E-09
20	565439	4222584	4.44E-08	3.16E-09	2.11E-08	6.87E-08	2.36E-08	3.46E-09	2.11E-08	4.81E-08	5.84E-09	6.17E-10	6.89E-09	1.33E-08	4.52E-09	3.44E-10	3.14E-09	8.00E-09
21	565428.5	4222586	4.05E-08	3.08E-09	1.92E-08	6.28E-08	2.15E-08	3.37E-09	1.92E-08	4.41E-08	5.33E-09	6.01E-10	6.29E-09	1.22E-08	4.12E-09	3.35E-10	2.87E-09	7.32E-09
22	565460	4222577	5.52E-08	3.01E-09	2.61E-08	8.43E-08	2.92E-08	3.30E-09	2.61E-08	5.87E-08	7.24E-09	5.88E-10	8.55E-09	1.64E-08	5.61E-09	3.28E-10	3.90E-09	9.83E-09
23	565454.2	4222590	4.48E-08	2.95E-09	2.12E-08	6.90E-08	2.38E-08	3.23E-09	2.12E-08	4.82E-08	5.89E-09	5.76E-10	6.95E-09	1.34E-08	4.56E-09	3.21E-10	3.17E-09	8.05E-09
24	565443.8	4222592	4.09E-08	2.92E-09	1.94E-08	6.31E-08	2.17E-08	3.20E-09	1.94E-08	4.42E-08	5.37E-09	5.70E-10	6.34E-09	1.23E-08	4.15E-09	3.17E-10	2.89E-09	7.36E-09
25	565433.4	4222595	3.74E-08	2.81E-09	1.77E-08	5.79E-08	1.98E-08	3.08E-09	1.77E-08	4.06E-08	4.91E-09	5.49E-10	5.80E-09	1.13E-08	3.80E-09	3.06E-10	2.64E-09	6.75E-09
26	565423	4222597	3.45E-08	2.74E-09	1.64E-08	5.36E-08	1.83E-08	3.01E-09	1.64E-08	3.77E-08	4.53E-09	5.36E-10	5.35E-09	1.04E-08	3.51E-09	2.98E-10	2.44E-09	6.25E-09
27	565464.6	4222586	5.02E-08	2.70E-09	2.38E-08	7.67E-08	2.66E-08	2.96E-09	2.38E-08	5.34E-08	6.59E-09	5.28E-10	7.78E-09	1.49E-08	5.10E-09	2.94E-10	3.55E-09	8.95E-09
28	565458.3	4222598	4.10E-08	2.70E-09	1.94E-08	6.32E-08	2.18E-08	2.96E-09	1.94E-08	4.42E-08	5.39E-09	5.28E-10	6.36E-09	1.23E-08	4.17E-09	2.94E-10	2.90E-09	7.37E-09
29	565469.2	4222594	4.60E-08	2.68E-09	2.18E-08	7.04E-08	2.44E-08	2.94E-09	2.18E-08	4.91E-08	6.04E-09	5.24E-10	7.13E-09	1.37E-08	4.67E-09	2.92E-10	3.25E-09	8.21E-09
30	565438.1	4223019	4.23E-09	2.68E-09	2.00E-09	8.91E-09	2.24E-09	2.94E-09	2.00E-09	7.18E-09	5.55E-10	5.23E-10	6.56E-10	1.73E-09	4.30E-10	2.91E-10	2.99E-10	1.02E-09
31	565426.8	4223022	4.15E-09	2.66E-09	1.97E-09	8.78E-09	2.20E-09	2.92E-09	1.97E-09	7.09E-09	5.45E-10	5.20E-10	6.44E-10	1.71E-09	4.22E-10	2.89E-10	2.94E-10	1.01E-09
32	565415.4	4223025	4.08E-09	2.67E-09	1.93E-09	8.68E-09	2.16E-09	2.93E-09	1.93E-09	7.02E-09	5.36E-10	5.22E-10	6.32E-10	1.69E-09	4.15E-10	2.91E-10	2.88E-10	9.94E-10
33	565449.1	4223037	4.08E-09	2.69E-09	1.93E-09	8.70E-09	2.16E-09	2.95E-09	1.93E-09	7.04E-09	5.36E-10	5.26E-10	6.32E-10	1.69E-09	4.14E-10	2.93E-10	2.88E-10	9.96E-10
34	565437.8	4223040	4.01E-09	2.78E-09	1.90E-09	8.68E-09	2.12E-09	3.05E-09	1.90E-09	7.07E-09	5.26E-10	5.43E-10	6.21E-10	1.69E-09	4.07E-10	3.02E-10	2.83E-10	9.93E-10
35	565426.5	4223042	3.94E-09	2.91E-09	1.87E-09	8.71E-09	2.09E-09	3.19E-09	1.87E-09	7.14E-09	5.17E-10	5.68E-10	6.10E-10	1.70E-09	4.00E-10	3.16E-10	2.78E-10	9.95E-10
36	565415.3	4223045	3.87E-09	2.98E-09	1.83E-09	8.69E-09	2.05E-09	3.27E-09	1.83E-09	7.15E-09	5.08E-10	5.83E-10	6.00E-10	1.69E-09	3.93E-10	3.24E-10	2.74E-10	9.91E-10
37	565443.8	4223058	3.84E-09	2.89E-09	1.82E-09	8.54E-09	2.04E-09	3.16E-09	1.82E-09	7.02E-09	5.04E-10	5.64E-10	5.95E-10	1.66E-09	3.90E-10	3.14E-10	2.71E-10	9.76E-10
38	565432.4	4223061	3.77E-09	2.81E-09	1.79E-09	8.37E-09	2.00E-09	3.08E-09	1.79E-09	6.87E-09	4.96E-10	5.49E-10	5.85E-10	1.63E-09	3.84E-10	3.06E-10	2.67E-10	9.56E-10
39	565420.9	4223064	3.71E-09	2.75E-09	1.76E-09	8.21E-09	1.97E-09	3.01E-09	1.76E-09	6.73E-09	4.87E-10	5.36E-10	5.75E-10	1.60E-09	3.77E-10	2.99E-10	2.62E-10	9.38E-10
40	565443.4	4223078	3.65E-09	3.37E-09	1.73E-09	8.75E-09	1.93E-09	3.70E-09	1.73E-09	7.36E-09	4.79E-10	6.59E-10	5.66E-10	1.70E-09	3.71E-10	3.67E-10	2.58E-10	9.95E-10
41	565432.1	4223081	3.59E-09	3.31E-09	1.70E-09	8.60E-09	1.90E-09	3.63E-09	1.70E-09	7.23E-09	4.71E-10	6.47E-10	5.56E-10	1.67E-09	3.65E-10	3.60E-10	2.54E-10	9.79E-10
42	565420.7	4223084	3.53E-09	3.67E-09	1.67E-09	8.87E-09	1.87E-09	4.02E-09	1.67E-09	7.57E-09	4.64E-10	7.17E-10	5.47E-10	1.73E-09	3.59E-10	3.99E-10	2.50E-10	1.01E-09
43	565443.1	4223098	3.47E-09	3.85E-09	1.65E-09	8.97E-09	1.84E-09	4.22E-09	1.65E-09	7.71E-09	4.56E-10	7.52E-10	5.38E-10	1.75E-09	3.53E-10	4.19E-10	2.46E-10	1.02E-09
44	565431.8	4223101	3.42E-09	4.06E-09	1.62E-09	9.10E-09	1.81E-09	4.45E-09	1.62E-09	7.88E-09	4.49E-10	7.94E-10	5.30E-10	1.77E-09	3.47E-10	4.42E-10	2.42E-10	1.03E-09
45	565420.5	4223104	3.36E-09	4.02E-09	1.59E-09	8.98E-09	1.78E-09	4.41E-09	1.59E-09	7.79E-09	4.42E-10	7.86E-10	5.22E-10	1.75E-09	3.42E-10	4.38E-10	2.38E-10	1.02E-09
46	565433.5	4222508	1.83E-07	4.73E-09	8.68E-08	2.75E-07	9.71E-08	5.19E-09	8.68E-08	1.89E-07	2.41E-08	9.24E-10	2.84E-08	5.34E-08	1.86E-08	5.14E-10	1.30E-08	3.21E-08
47	565406.8	4223063	3.67E-09	4.67E-09	1.74E-09	1.01E-08	1.95E-09	5.12E-09	1.74E-09	8.81E-09	4.82E-10	9.12E-10	5.69E-10	1.96E-09	3.73E-10	5.08E-10	2.60E-10	1.14E-09
48	565406.4	4223083	3.49E-09	4.60E-09	1.66E-09	9.75E-09	1.85E-09	5.04E-09	1.66E-09	8.55E-09	4.59E-10	8.98E-10	5.42E-10	1.90E-09	3.55E-10	5.00E-10	2.47E-10	1.10E-09
49	565405.9	4223103	3.33E-09	4.47E-09	1.58E-09	9.38E-09	1.77E-09	4.90E-09	1.58E-09	8.24E-09	4.37E-10	8.73E-10	5.16E-10	1.83E-09	3.38E-10	4.86E-10	2.36E-10	1.06E-09
50	565443.5	4222508	1.89E-07	4.37E-09	8.98E-08	2.84E-07	1.00E-07	4.79E-09	8.98E-08	1.95E-07	2.49E-08	8.54E-10	2.94E-08	5.51E-08	1.93E-08	4.75E-10	1.34E-08	3.31E-08
51	565453.4	4222509	1.95E-07	4.19E-09	9.22E-08	2.91E-07	1.03E-07	4.60E-09	9.22E-08	2.00E-07	2.55E-08	8.19E-10	3.02E-08	5.65E-08	1.98E-08	4.56E-10	1.38E-08	3.40E-08
52	565463.3	4222509	1.99E-07	4.03E-09	9.41E-08	2.97E-07	1.05E-07	4.42E-09	9.41E-08	2.04E-07	2.61E-08	7.88E-10	3.08E-08	5.77E-08	2.02E-08	4.39E-10	1.40E-08	3.47E-08
53	565473.1	4222509	2.03E-07	4.15E-09	9.60E-08	3.03E-07	1.07E-07	4.55E-09	9.60E-08	2.08E-07	2.66E-08	8.11E-10	3.14E-08	5.88E-08	2.06E-08	4.52E-10	1.43E-08	3.54E-08
54	565483	4222509	2.05E-07	4.13E-09	9.73E-08	3.07E-07	1.09E-07	4.53E-09	9.73E-08	2.11E-07	2.70E-08	8.08E-10	3.18E-08	5.96E-08	2.09E-08	4.50E-10	1.45E-08	3.58E-08
55	565443.4	4222518	1.48E-07	4.05E-09	7.00E-08	2.22E-07	7.84E-08	4.44E-09	7.00E-08	1.53E-07	1.94E-08	7.91E-10	2.29E-08	4.31E-08	1.50E-08	4.40E-10	1.05E-08	2.59E-08
56	565453.3	4222518	1.53E-07	3.86E-09	7.27E-08	2.30E-07	8.13E-08	4.23E-09	7.27E-08	1.58E-07	2.01E-08	7.55E-10	2.38E-08	4.47E-08	1.56E-08	4.20E-10	1.08E-08	2.69E-08
57	565463.2	4222518	1.58E-07	3.68E-09	7.50E-08	2.37E-07	8.39E-08	4.04E-09	7.50E-08	1.63E-07	2.08E-08	7.19E-10	2.45E-08	4.60E-08	1.61E-08	4.00E-10	1.12E-08	2.77E-08
58	565473.1	4222519	1.63E-07	6.43E-08	7.72E-08	3.05E-07	8.64E-08	7.05E-08	7.72E-08	2.34E-07	2.14E-08	1.26E-08	2.53E-08	5.92E-08	1.66E-08	7.00E-09	1.15E-08	3.51E-08
59	565482.9	4222519	1.67E-07	6.10E-08	7.91E-08	3.07E-07	8.85E-08	6.69E-08	7.91E-08	2.34E-07	2.19E-08	1.19E-08	2.59E-08	5.97E-08	1.70E-08	6.64E-09	1.18E-08	3.54E-08
60	565453.2	4222528	1.24E-07	5.31E-08	5.86E-08	2.35E-07	6.56E-08	5.82E-08	5.86E-08	1.82E-07	1.62E-08	1.04E-08	1.92E-08	4.58E-08	1.26E-08	5.77E-09	8.74E-09	2.71E-08
61	565463.1	4222528	1.29E-07	5.60E-08	6.09E-08	2.45E-07	6.82E-08	6.14E-08	6.09E-08	1.90E-07	1.69E-08	1.09E-08	1.99E-08	4.78E-08	1.31E-08	6.10E-09	9.09E-09	2.83E-08
62	565473	4222528	1.33E-07	5.69E-08	6.32E-08	2.54E-07	7.08E-08	6.23E-08	6.32E-08	1.96E-07	1.75E-08	1.11E-08	2.07E-08	4.93E-08	1.36E-08	6.19E-09	9.44E-09	2.92E-08
63	565482.8	4222529	1.38E-07	5.17E-08	6.53E-08	2.55E-07	7.30E-08	5.67E-08	6.53E-08	1.95E-07	1.81E-08	1.01E-08	2.14E-08	4.96E-08	1.40E-08	5.63E-09	9.74E-09	2.94E-08
64	565453.1	4222538	1.01E-07	4.87E-08	4.81E-08	1.98E-07	5.38E-08	5.34E-08	4.81E-08	1.55E-07	1.33E-08	9.52E-09	1.57E-08	3.86E-08	1.03E-08	5.30E-09	7.17E-09	2.28E-08
65	565463	4222538	1.06E-07	1.77E-08	5.03E-08	1.74E-07	5.62E-08	1.94E-08	5.03E-08	1.26E-07	1.39E-08	3.45E-09	1.64E-08	3.38E-08	1.08E-08	1.92E-09	7.50E-09	2.02E-08
66	565472.9	4222538	1.11E-07	2.29E-08	5.25E-08	1.86E-07	5.88E-08	2.51E-08	5.25E-08	1.36E-07	1.46E-08	4.48E-09	1.72E-08	3.62E-08	1.13E-08	2.49E-09	7.84E-09	2.16E-08
67	565482.8	4222538	1.15E-07	2.52E-08	5.45E-08	1.95E-07	6.10E-08	2.76E-08	5.45E-08	1.43E-07	1.51E-08	4.92E-09	1.78E-08	3.79E-08	1.17E-08	2.74E-09	8.14E-09	2.26E-08
68	565462.9	4222548	8.87E-08	2.77E-08	4.20E-08	1.58E-07	4.70E-08	3.04E-08	4.20E-08	1.19E-07	1.16E-08	5.42E-09	1.38E-08	3.08E-08	9.01E-09	3.02E-09	6.27E-09	1.83E-08
69	565472.8	4222548	9.31E-08	2.38E-08	4.41E-08	1.61E-07	4.94E-08	2.61E-08	4.41E-08	1.20E-07	1.22E-08	4.65E-09	1.44E-08	3.13E-08	9.46E-09	2.59E-09	6.58E-09	1.86E-08
70	565482.7	4222548	9.72E-08	2.24E-08	4.60E-08	1.66E-07	5.15E-08	2.46E-08	4.60E-08	1.22E-07	1.28E-08	4.38E-09	1.51E-08	3.22E-08	9.87E-09	2.44E-09	6.87E-09	1.92E-08
71	565462.8	4222558	7.51E-08	1.73E-08	3.56E-08	1.28E-07	3.98E-08	1.90E-08	3.56E-08	9.44E-08	9.86E-09	3.39E-09	1.16E-08	2.49E-08	7.63E-09	1.88E-09	5.31E-09	1.48E-08
72	565472.7	4222558	7.90E-08	1.84E-08	3.74E-08	1.35E-07	4.19E-08	2.02E-08	3.74E-08	9.96E-08	1.04E-08	3.60E-09	1.23E-08	2.62E-08	8.03E-09	2.01E-09	5.59E-09	1.56E-08
73	565482.6	4222558	8.28E-08	1.96E-08	3.92E-08	1.42E-07	4.39E-08	2.15E-08	3.92E-08	1.05E-07	1.09E-08	3.83E-09	1.28E-08	2.75E-08	8.42E-09	2.13E-09	5.86E-09	1.64E-08
74	565472.6	4222568	6.78E-08	2.07E-08	3.21E-08	1.21E-07	3.59E-08	2.27E-08	3.21E-08	9.07E-08	8.90E-09	4.04E-09	1.05E-08	2.34E-08	6.89E-09	2.25E-09	4.79E-09	1.39E-08
75	565482.5	4222568	7.12E-08	1.93E-08	3.37E-08	1.24E-07	3.77E-08	2.11E-08	3.37E-08	9.26E-08	9.35E-09	3.77E-09	1.10E-08	2.42E-08	7.24E-09	2.10E-09	5.03E-09	1.44E-08
76	565472.5	4222578	5.86E-08	1.79E-08	2.78E-08	1.04E-07	3.11E-08	1.96E-08	2.78E-08	7.85E-08	7.70E-09	3.50E-09	9.09E-09	2.03E-08	5.96E-09	1.95E-09	4.15E-09	1.21E-08
77	565482.4	4222578	6.17E-08	1.88E-08	2.92E-08	1.10E-07	3.27E-08	2.06E-08	2.92E-08	8.26E-08	8.10E-09	3.68E-09	9.56E-09	2.13E-08	6.27E-09	2.05E-09	4.36E-09	1.27E-08
78	565482.3	4222588	5.39E-08	2.03E-08	2.55E-08	9.97E-08	2.86E-08	2.23E-08	2.55E-08	7.64E-08	7.08E-09	3.97E-09	8.35E-09	1.94E-08	5.48E-09	2.21E-09	3.81E-09	1.15E-08
79	565482.2	4222597	4.74E-08	2.22E-08	2.25E-08	9.20E-08	2.51E-08	2.43E-08	2.25E-08	7.19E-08	6.23E-09	4.33E-09	7.35E-09	1.79E-08	4.82E-09	2.41E-09	3.35E-09	1.06E-08
80	565532.8	4222462	2.90E-07	2.39E-08	1.37E-07	4.51E-07	1.54E-07	2.62E-08	1.37E-07	3.17E-07	3.81E-08	4.68E-09	4.50E-08	8.77E-08	2.95E-08	2.60E-09	2.05E-08	5.26E-08
81	565532.6	4222452	3.12E-07	2.57E-08	1.48E-07	4.85E-07	1.65E-07	2.82E-08	1.48E-07	3.41E-07	4.09E-08	5.02E-09	4.83E-08	9.43E-08	3.17E-08	2.80E-09	2.20E-08	5.65E-08
82	565532.1	4222442	3.37E-07	2.71E-08	1.59E-07	5.23E-07	1.78E-07	2.97E-08	1.59E-07	3.68E-07	4.42E-08	5.30E-09	5.22E-08	1.02E-07	3.42E-08	2.95E-09	2.38E-08	6.10E-08
83	565531.7	4222432	3.63E-07	2.78E-08	1.72E-07	5.63E-07	1.92E-07	3.05E-08	1.72E-07	3.95E-07	4.77E-08	5.43E-09	5.63E-08	1.09E-07	3.69E-08	3.02E-09	2.57E-08	6.56E-08
84	565531.2	4222423	3.93E-07	2.62E-08	1.86E-07	6.06E-07	2.08E-07	2.87E-08	1.86E-07	4.23E-07	5.16E-08	5.12E-09	6.10E-08	1.18E-07	4.00E-08	2.85E-09	2.78E-08	7.06E-08
85	565530.9	4222409	4.37E-07	2.52E-08	2.07E-07	6.69E-07	2.32E-07	2.77E-08	2.07E-07	4.66E-07	5.74E-08	4.93E-09	6.77E-08	1.30E-07	4.44E-08	2.75E-09	3.09E-08	7.80E-08
86	565530.9	4222400	4.63E-07	2.37E-08	2.19E-07	7.06E-07	2.45E-07	2.60E-08	2.19E-07	4.91E-07	6.08E-08	4.63E-09	7.18E-08	1.37E-07	4.70E-08	2.58E-09	3.27E-08	8.24E-08
87	565532.1	4222389	4.79E-07	2.23E-08	2.27E-07	7.29E-07	2.54E-07	2.45E-08	2.27E-07	5.06E-07	6.29E-08	4.37E-09	7.43E-08	1.42E-07	4.87E-08	2.43E-09	3.39E-08	8.50E-08
88	565532.5	4222379	4.92E-07	2.13E-08	2.33E-07	7.46E-07	2.61E-07	2.34E-08	2.33E-07	5.17E-07	6.46E-08	4.17E-09	7.62E-08	1.45E-07	5.00E-08	2.32E-09	3.48E-08	8.71E-08
89	565532.5	4222368	5.04E-07	2.22E-08	2.39E-07	7.65E-07	2.67E-07	2.44E-08	2.39E-07	5.30E-07	6.62E-08	4.34E-09	7.81E-08	1.49E-07	5.12E-08	2.42E-09	3.56E-08	8.92E-08
90	565532.5	4222358	5.10E-07	2.42E-08	2.42E-07	7.75E-07	2.70E-07	2.65E-08	2.42E-07	5.38E-07	6.70E-08	4.72E-09	7.90E-08	1.51E-07	5.18E-08	2.63E-09	3.61E-08	9.05E-08
91	565532.4	4222348	5.12E-07	2.46E-08	2.42E-07	7.79E-07	2.71E-07	2.70E-08	2.42E-07	5.41E-07	6.72E-08	4.81E-09	7.93E-08	1.51E-07	5.20E-08	2.68E-09	3.62E-08	9.09E-08
92	565532.4	4222338	5.10E-07	4.51E-09	2.41E-07	7.55E-07	2.70E-07	4.95E-09	2.41E-07	5.17E-07	6.69E-08	8.82E-10	7.90E-08	1.47E-07	5.18E-08	4.91E-10	3.60E-08	8.83E-08
93	565532.4	4222328	5.04E-07	4.62E-09	2.39E-07	7.47E-07	2.67E-07	5.07E-09	2.39E-07	5.11E-07	6.61E-08	9.03E-10	7.81E-08	1.45E-07	5.12E-08	5.03E-10	3.56E-08	8.73E-08
94	565532.3	4222318	4.94E-07	4.47E-09	2.34E-07	7.33E-07	2.62E-07	4.90E-09	2.34E-07	5.01E-07	6.49E-08	8.74E-10	7.66E-08	1.42E-07	5.02E-08	4.87E-10	3.49E-08	8.56E-08
95	565532.3	4222309	4.81E-07	4.34E-09	2.28E-07	7.13E-07	2.55E-07	4.76E-09	2.28E-07	4.87E-07	6.31E-08	8.48E-10	7.45E-08	1.38E-07	4.88E-08	4.72E-10	3.40E-08	8.33E-08
96	565532.2	4222299	4.63E-07	4.28E-09	2.19E-07	6.87E-07	2.45E-07	4.69E-09	2.19E-07	4.70E-07	6.08E-08	8.35E-10	7.18E-08	1.33E-07	4.71E-08	4.65E-10	3.27E-08	8.03E-08
97	565542.4	4222368	4.35E-07	4.04E-09	2.06E-07	6.45E-07	2.31E-07	4.42E-09	2.06E-07	4.41E-07	5.72E-08	7.88E-10	6.75E-08	1.25E-07	4.42E-08

110	565532.1	4222242	2.70E-07	2.28E-09	1.28E-07	4.00E-07	1.43E-07	2.50E-09	1.28E-07	2.74E-07	3.55E-08	4.46E-10	4.19E-08	7.78E-08	2.74E-08	2.48E-10	1.91E-08	4.68E-08
111	565532.1	4222233	2.33E-07	8.54E-10	1.10E-07	3.44E-07	1.23E-07	9.36E-10	1.10E-07	2.35E-07	3.06E-08	1.67E-10	3.61E-08	6.68E-08	2.37E-08	9.29E-11	1.65E-08	4.02E-08
112	565542.1	4222289	3.75E-07	8.86E-10	1.78E-07	5.54E-07	1.99E-07	9.72E-10	1.78E-07	3.78E-07	4.93E-08	1.73E-10	5.82E-08	1.08E-07	3.81E-08	9.64E-11	2.65E-08	6.48E-08
113	565542	4222280	3.53E-07	8.72E-10	1.67E-07	5.21E-07	1.87E-07	9.56E-10	1.67E-07	3.55E-07	4.64E-08	1.70E-10	5.47E-08	1.01E-07	3.59E-08	9.49E-11	2.50E-08	6.09E-08
114	565542	4222270	3.27E-07	8.60E-10	1.55E-07	4.83E-07	1.74E-07	9.42E-10	1.55E-07	3.30E-07	4.30E-08	1.68E-10	5.08E-08	9.39E-08	3.33E-08	9.35E-11	2.32E-08	5.65E-08
115	565542	4222261	2.99E-07	8.32E-10	1.42E-07	4.41E-07	1.59E-07	9.12E-10	1.42E-07	3.01E-07	3.93E-08	1.62E-10	4.64E-08	8.58E-08	3.04E-08	9.05E-11	2.11E-08	5.16E-08
116	565542	4222252	2.69E-07	8.49E-10	1.27E-07	3.97E-07	1.43E-07	9.31E-10	1.27E-07	2.71E-07	3.53E-08	1.66E-10	4.17E-08	7.72E-08	2.73E-08	9.24E-11	1.90E-08	4.64E-08
117	565541.9	4222242	2.388E-07	7.90E-10	1.13E-07	3.53E-07	1.27E-07	8.66E-10	1.13E-07	2.41E-07	3.14E-08	1.54E-10	3.70E-08	6.85E-08	2.43E-08	8.59E-11	1.69E-08	4.12E-08
118	565541.9	4222233	2.107E-07	8.02E-10	9.98E-08	3.11E-07	1.12E-07	8.79E-10	9.98E-08	2.12E-07	2.77E-08	1.57E-10	3.27E-08	6.05E-08	2.14E-08	8.72E-11	1.49E-08	3.64E-08
119	565551.8	4222252	2.378E-07	8.16E-10	1.13E-07	3.51E-07	1.26E-07	8.95E-10	1.13E-07	2.40E-07	3.12E-08	1.59E-10	3.69E-08	6.83E-08	2.42E-08	8.88E-11	1.68E-08	4.11E-08
120	565551.8	4222242	2.144E-07	1.01E-09	1.02E-07	3.17E-07	1.14E-07	1.11E-09	1.02E-07	2.16E-07	2.82E-08	1.97E-10	3.32E-08	6.16E-08	2.18E-08	1.10E-10	1.52E-08	3.71E-08
121	565551.8	4222233	1.923E-07	1.00E-09	9.11E-08	2.84E-07	1.02E-07	1.10E-09	9.11E-08	1.94E-07	2.52E-08	1.96E-10	2.98E-08	5.52E-08	1.95E-08	1.09E-10	1.36E-08	3.32E-08
122	565502.5	4222223	2.475E-07	1.00E-09	1.17E-07	3.66E-07	1.31E-07	1.10E-09	1.17E-07	2.50E-07	3.25E-08	1.96E-10	3.84E-08	7.11E-08	2.52E-08	1.09E-10	1.75E-08	4.28E-08
123	565492.6	4222223	2.613E-07	1.00E-09	1.24E-07	3.86E-07	1.39E-07	1.10E-09	1.24E-07	2.63E-07	3.43E-08	1.96E-10	4.05E-08	7.50E-08	2.66E-08	1.09E-10	1.85E-08	4.51E-08
124	565482.7	4222223	2.742E-07	1.00E-09	1.30E-07	4.05E-07	1.45E-07	1.10E-09	1.30E-07	2.76E-07	3.60E-08	1.96E-10	4.25E-08	7.87E-08	2.79E-08	1.09E-10	1.94E-08	4.74E-08
125	565472.8	4222223	2.844E-07	1.00E-09	1.35E-07	4.20E-07	1.51E-07	1.10E-09	1.35E-07	2.87E-07	3.73E-08	1.96E-10	4.41E-08	8.16E-08	2.89E-08	1.09E-10	2.01E-08	4.91E-08
126	565462.9	4222223	2.913E-07	1.00E-09	1.38E-07	4.30E-07	1.54E-07	1.10E-09	1.38E-07	2.94E-07	3.83E-08	1.96E-10	4.52E-08	8.36E-08	2.96E-08	1.09E-10	2.06E-08	5.03E-08
127	565453	4222223	2.955E-07	1.00E-09	1.40E-07	4.36E-07	1.57E-07	1.10E-09	1.40E-07	2.98E-07	3.88E-08	1.96E-10	4.58E-08	8.48E-08	3.00E-08	1.09E-10	2.09E-08	5.10E-08
128	565443.1	4222223	2.977E-07	1.00E-09	1.41E-07	4.40E-07	1.58E-07	1.10E-09	1.41E-07	3.00E-07	3.91E-08	1.96E-10	4.62E-08	8.54E-08	3.03E-08	1.09E-10	2.11E-08	5.14E-08
129	565433.2	4222223	2.988E-07	1.00E-09	1.42E-07	4.41E-07	1.58E-07	1.10E-09	1.42E-07	3.01E-07	3.92E-08	1.96E-10	4.63E-08	8.58E-08	3.04E-08	1.09E-10	2.11E-08	5.16E-08
130	565423.3	4222223	2.994E-07	1.00E-09	1.42E-07	4.42E-07	1.59E-07	1.10E-09	1.42E-07	3.02E-07	3.93E-08	1.96E-10	4.64E-08	8.59E-08	3.04E-08	1.09E-10	2.12E-08	5.17E-08
131	565413.4	4222223	2.994E-07	1.00E-09	1.42E-07	4.42E-07	1.59E-07	1.10E-09	1.42E-07	3.02E-07	3.93E-08	1.96E-10	4.64E-08	8.59E-08	3.04E-08	1.09E-10	2.12E-08	5.17E-08
132	565403.5	4222223	2.986E-07	1.00E-09	1.41E-07	4.41E-07	1.58E-07	1.10E-09	1.41E-07	3.01E-07	3.92E-08	1.96E-10	4.63E-08	8.57E-08	3.03E-08	1.09E-10	2.11E-08	5.16E-08
133	565393.6	4222223	2.957E-07	1.00E-09	1.40E-07	4.37E-07	1.57E-07	1.10E-09	1.40E-07	2.98E-07	3.88E-08	1.96E-10	4.58E-08	8.49E-08	3.01E-08	1.09E-10	2.09E-08	5.11E-08
134	565492.6	4222213	2.071E-07	1.00E-09	9.81E-08	3.06E-07	1.10E-07	1.10E-09	9.81E-08	2.09E-07	2.72E-08	1.96E-10	3.21E-08	5.95E-08	2.10E-08	1.09E-10	1.46E-08	3.58E-08
135	565482.7	4222213	2.142E-07	1.00E-09	1.01E-07	3.17E-07	1.14E-07	1.10E-09	1.01E-07	2.16E-07	2.81E-08	1.96E-10	3.32E-08	6.15E-08	2.18E-08	1.09E-10	1.51E-08	3.70E-08
136	565472.8	4222213	2.206E-07	1.00E-09	1.04E-07	3.26E-07	1.17E-07	1.10E-09	1.04E-07	2.23E-07	2.90E-08	1.96E-10	3.42E-08	6.34E-08	2.24E-08	1.09E-10	1.56E-08	3.81E-08
137	565462.9	4222213	2.261E-07	1.00E-09	1.07E-07	3.34E-07	1.20E-07	1.10E-09	1.07E-07	2.28E-07	2.97E-08	1.96E-10	3.50E-08	6.49E-08	2.30E-08	1.09E-10	1.60E-08	3.91E-08
138	565453	4222213	2.305E-07	1.00E-09	1.09E-07	3.41E-07	1.22E-07	1.10E-09	1.09E-07	2.32E-07	3.03E-08	1.96E-10	3.57E-08	6.62E-08	2.34E-08	1.09E-10	1.63E-08	3.98E-08
139	565443.1	4222213	2.336E-07	1.00E-09	1.11E-07	3.45E-07	1.24E-07	1.10E-09	1.11E-07	2.36E-07	3.07E-08	1.96E-10	3.62E-08	6.71E-08	2.37E-08	1.09E-10	1.65E-08	4.04E-08
140	565433.2	4222213	2.356E-07	1.00E-09	1.12E-07	3.48E-07	1.25E-07	1.10E-09	1.12E-07	2.38E-07	3.09E-08	1.96E-10	3.65E-08	6.77E-08	2.39E-08	1.09E-10	1.67E-08	4.07E-08
141	565423.3	4222213	2.366E-07	1.00E-09	1.12E-07	3.50E-07	1.25E-07	1.10E-09	1.12E-07	2.39E-07	3.11E-08	1.96E-10	3.67E-08	6.80E-08	2.40E-08	1.09E-10	1.67E-08	4.09E-08
142	565413.4	4222213	2.369E-07	1.00E-09	1.12E-07	3.50E-07	1.26E-07	1.10E-09	1.12E-07	2.39E-07	3.11E-08	1.96E-10	3.67E-08	6.80E-08	2.41E-08	1.09E-10	1.68E-08	4.09E-08
143	565403.5	4222213	2.365E-07	1.00E-09	1.12E-07	3.50E-07	1.25E-07	1.10E-09	1.12E-07	2.39E-07	3.11E-08	1.96E-10	3.67E-08	6.79E-08	2.40E-08	1.09E-10	1.67E-08	4.09E-08
144	565393.6	4222213	2.346E-07	1.00E-09	1.11E-07	3.47E-07	1.24E-07	1.10E-09	1.11E-07	2.37E-07	3.08E-08	1.96E-10	3.64E-08	6.74E-08	2.38E-08	1.09E-10	1.66E-08	4.05E-08
145	565492.6	4222203	1.714E-07	1.00E-09	8.12E-08	2.54E-07	9.09E-08	1.10E-09	8.12E-08	1.73E-07	2.25E-08	1.96E-10	2.66E-08	4.93E-08	1.74E-08	1.09E-10	1.21E-08	2.97E-08
146	565482.7	4222203	1.756E-07	1.00E-09	8.32E-08	2.60E-07	9.31E-08	1.10E-09	8.32E-08	1.77E-07	2.31E-08	1.96E-10	2.72E-08	5.05E-08	1.78E-08	1.09E-10	1.24E-08	3.04E-08
147	565472.8	4222203	1.795E-07	1.00E-09	8.51E-08	2.66E-07	9.52E-08	1.10E-09	8.51E-08	1.81E-07	2.36E-08	1.96E-10	2.78E-08	5.16E-08	1.82E-08	1.09E-10	1.27E-08	3.11E-08
148	565462.9	4222203	1.833E-07	1.00E-09	8.68E-08	2.71E-07	9.72E-08	1.10E-09	8.68E-08	1.85E-07	2.41E-08	1.96E-10	2.84E-08	5.27E-08	1.86E-08	1.09E-10	1.30E-08	3.17E-08
149	565453	4222203	1.865E-07	1.00E-09	8.84E-08	2.76E-07	9.89E-08	1.10E-09	8.84E-08	1.88E-07	2.45E-08	1.96E-10	2.89E-08	5.36E-08	1.90E-08	1.09E-10	1.32E-08	3.23E-08
150	565443.1	4222204	1.891E-07	1.00E-09	8.96E-08	2.80E-07	1.00E-07	1.10E-09	8.96E-08	1.91E-07	2.48E-08	1.96E-10	2.93E-08	5.44E-08	1.92E-08	1.09E-10	1.34E-08	3.27E-08
151	565433.2	4222204	1.91E-07	1.00E-09	9.05E-08	2.82E-07	1.01E-07	1.10E-09	9.05E-08	1.93E-07	2.51E-08	1.96E-10	2.96E-08	5.49E-08	1.94E-08	1.09E-10	1.35E-08	3.30E-08
152	565423.3	4222204	1.921E-07	1.00E-09	9.10E-08	2.84E-07	1.02E-07	1.10E-09	9.10E-08	1.94E-07	2.52E-08	1.96E-10	2.98E-08	5.52E-08	1.95E-08	1.09E-10	1.36E-08	3.32E-08
153	565413.4	4222204	1.925E-07	1.00E-09	9.12E-08	2.85E-07	1.02E-07	1.10E-09	9.12E-08	1.94E-07	2.53E-08	1.96E-10	2.98E-08	5.53E-08	1.96E-08	1.09E-10	1.36E-08	3.33E-08
154	565403.4	4222204	1.923E-07	1.00E-09	9.11E-08	2.84E-07	1.02E-07	1.10E-09	9.11E-08	1.94E-07	2.53E-08	1.96E-10	2.98E-08	5.53E-08	1.95E-08	1.09E-10	1.36E-08	3.33E-08
155	565393.5	4222204	1.911E-07	1.00E-09	9.05E-08	2.83E-07	1.01E-07	1.10E-09	9.05E-08	1.93E-07	2.51E-08	1.96E-10	2.96E-08	5.49E-08	1.94E-08	1.09E-10	1.35E-08	3.30E-08
156	565533.2	4222212	1.677E-07	1.00E-09	7.94E-08	2.48E-07	8.89E-08	1.10E-09	7.94E-08	1.69E-07	2.20E-08	1.96E-10	2.60E-08	4.82E-08	1.70E-08	1.09E-10	1.19E-08	2.90E-08
157	565492.6	4222194	1.454E-07	1.00E-09	6.89E-08	2.15E-07	7.71E-08	1.10E-09	6.89E-08	1.47E-07	1.91E-08	1.96E-10	2.25E-08	4.18E-08	1.48E-08	1.09E-10	1.03E-08	2.52E-08
158	565482.7	4222194	1.481E-07	1.00E-09	7.02E-08	2.19E-07	7.85E-08	1.10E-09	7.02E-08	1.50E-07	1.94E-08	1.96E-10	2.30E-08	4.26E-08	1.50E-08	1.09E-10	1.05E-08	2.56E-08
159	565472.8	4222194	1.506E-07	1.00E-09	7.14E-08	2.23E-07	7.98E-08	1.10E-09	7.14E-08	1.52E-07	1.98E-08	1.96E-10	2.33E-08	4.33E-08	1.53E-08	1.09E-10	1.07E-08	2.61E-08
160	565462.9	4222194	1.53E-07	1.00E-09	7.25E-08	2.27E-07	8.11E-08	1.10E-09	7.25E-08	1.55E-07	2.01E-08	1.96E-10	2.37E-08	4.40E-08	1.56E-08	1.09E-10	1.08E-08	2.65E-08
161	565453	4222194	1.552E-07	1.00E-09	7.35E-08	2.30E-07	8.23E-08	1.10E-09	7.35E-08	1.57E-07	2.04E-08	1.96E-10	2.41E-08	4.46E-08	1.58E-08	1.09E-10	1.10E-08	2.69E-08
162	565443	4222194	1.571E-07	1.00E-09	7.44E-08	2.33E-07	8.33E-08	1.10E-09	7.44E-08	1.59E-07	2.06E-08	1.96E-10	2.44E-08	4.52E-08	1.60E-08	1.09E-10	1.11E-08	2.72E-08
163	565433.1	4222194	1.585E-07	1.00E-09	7.51E-08	2.35E-07	8.40E-08	1.10E-09	7.51E-08	1.60E-07	2.08E-08	1.96E-10	2.46E-08	4.56E-08	1.61E-08	1.09E-10	1.12E-08	2.74E-08
164	565423.2	4222194	1.594E-07	1.00E-09	7.55E-08	2.36E-07	8.45E-08	1.10E-09	7.55E-08	1.61E-07	2.09E-08	1.96E-10	2.47E-08	4.58E-08	1.62E-08	1.09E-10	1.13E-08	2.76E-08
165	565413.3	4222194	1.598E-07	1.00E-09	7.57E-08	2.36E-07	8.47E-08	1.10E-09	7.57E-08	1.62E-07	2.10E-08	1.96E-10	2.48E-08	4.59E-08	1.62E-08	1.09E-10	1.13E-08	2.76E-08
166	565403.4	4222194	1.597E-07	1.00E-09	7.57E-08	2.36E-07	8.47E-08	1.10E-09	7.57E-08	1.61E-07	2.10E-08	1.96E-10	2.48E-08	4.59E-08	1.62E-08	1.09E-10	1.13E-08	2.76E-08
167	565393.5	4222194	1.589E-07	1.00E-09	7.53E-08	2.35E-07	8.42E-08	1.10E-09	7.53E-08	1.61E-07	2.09E-08	1.96E-10	2.46E-08	4.57E-08	1.61E-08	1.09E-10	1.12E-08	2.75E-08
168	565540.9	4222207	1.496E-07	1.00E-09	7.09E-08	2.21E-07	7.93E-08	1.10E-09	7.09E-08	1.51E-07	1.96E-08	1.96E-10	2.32E-08	4.30E-08	1.52E-08	1.09E-10	1.06E-08	2.59E-08
169	565544.5	4222215	1.639E-07	1.00E-09	7.76E-08	2.43E-07	8.69E-08	1.10E-09	7.76E-08	1.66E-07	2.15E-08	1.96E-10	2.54E-08	4.71E-08	1.67E-08	1.09E-10	1.16E-08	2.84E-08
170	565548.1	4222224	1.783E-07	1.00E-09	8.45E-08	2.64E-07	9.45E-08	1.10E-09	8.45E-08	1.80E-07	2.34E-08	1.96E-10	2.76E-08	5.12E-08	1.81E-08	1.09E-10	1.26E-08	3.08E-08
171	565502.5	4222184	1.236E-07	1.00E-09	5.86E-08	1.83E-07	6.55E-08	1.10E-09	5.86E-08	1.25E-07	1.62E-08	1.96E-10	1.92E-08	3.56E-08	1.26E-08	1.09E-10	8.74E-09	2.14E-08
172	565492.6	4222184	1.256E-07	1.00E-09	5.95E-08	1.86E-07	6.66E-08	1.10E-09	5.95E-08	1.27E-07	1.65E-08	1.96E-10	1.95E-08	3.62E-08	1.28E-08	1.09E-10	8.88E-09	2.18E-08
173	565482.6	4222184	1.273E-07	1.00E-09	6.03E-08	1.89E-07	6.75E-08	1.10E-09	6.03E-08	1.29E-07	1.67E-08	1.96E-10	1.97E-08	3.67E-08	1.29E-08	1.09E-10	9.00E-09	2.21E-08
174	565472.7	4222184	1.289E-07	1.00E-09	6.11E-08	1.91E-07	6.84E-08	1.10E-09	6.11E-08	1.31E-07	1.69E-08	1.96E-10	2.00E-08	3.71E-08	1.31E-08	1.09E-10	9.12E-09	2.23E-08
175	565462.8	4222184	1.305E-07	1.00E-09	6.18E-08	1.93E-07	6.92E-08	1.10E-09	6.18E-08	1.32E-07	1.71E-08	1.96E-10	2.02E-08	3.76E-08	1.33E-08	1.09E-10	9.23E-09	2.26E-08
176	565452.9	4222184	1.319E-07	1.00E-09	6.25E-08	1.95E-07	6.99E-08	1.10E-09	6.25E-08	1.34E-07	1.73E-08	1.96E-10	2.04E-08	3.80E-08	1.34E-08	1.09E-10	9.33E-09	2.28E-08
177	565443	4222184	1.331E-07	1.00E-09	6.31E-08	1.97E-07	7.06E-08	1.10E-09	6.31E-08	1.35E-07	1.75E-08	1.96E-10	2.06E-08	3.83E-08	1.35E-08	1.09E-10	9.41E-09	2.30E-08
178	565433.1	4222184	1.34E-07	1.00E-09	6.35E-08	1.99E-07	7.11E-08	1.10E-09	6.35E-08	1.36E-07	1.76E-08	1.96E-10	2.08E-08	3.86E-08	1.36E-08	1.09E-10	9.48E-09	2.32E-08
179	565423.2	4222184	1.347E-07	1.00E-09	6.38E-08	1.99E-07	7.14E-08	1.10E-09	6.38E-08	1.36E-07	1.77E-08	1.96E-10	2.09E-08	3.88E-08	1.37E-08	1.09E-10	9.52E-09	2.33E-08
180	565413.3	4222184	1.349E-07	1.00E-09	6.39E-08	2.00E-07	7.15E-08	1.10E-09	6.39E-08	1.37E-07	1.77E-08	1.96E-10	2.09E-08	3.88E-08	1.37E-08	1.09E-10	9.54E-09	2.34E-08
181	565403.4	4222184	1.349E-07	1.00E-09	6.39E-08	2.00E-07	7.15E-08	1.10E-09	6.39E-08	1.37E-07	1.77E-08	1.96E-10	2.09E-08	3.88E-08	1.37E-08	1.09E-10	9.54E-09	2.34E-08
182	565393.5	4222184	1.343E-07	1.00E-09	6.36E-08	1.99E-07	7.12E-08	1.10E-09	6.36E-08	1.36E-07	1.76E-08	1.96E-10	2.08E-08	3.87E-08	1.37E-08	1.09E-10	9.50E-09	2.33E-08
183	565535.9	4222188	1.2E-07	1.00E-09	5.68E-08	1.78E-07	6.36E-08	1.10E-09	5.68E-08	1.22E-07	1.58E-08	1.96E-10	1.86E-08	3.46E-08	1.22E-08	1.09E-10	8.49E-09	2.08E-08
184	565547.7	4222199	1.322E-07	1.00E-09	6.26E-08	1.96E-07	7.01E-08	1.10E-09	6.26E-08	1.34E-07	1.74E-08	1.96E-10	2.05E-08	3.80E-08	1.34E-08	1.09E-10	9.35E-09	2.29E-08
185	565554.6	4222216	1.547E-07	1.00E-09	7.33E-08	2.29E-07	8.20E-08	1.10E-09	7.33E-08	1.56E-07	2.03E-08	1.96E-10	2.40E-08	4.45E-08	1.57E-08	1.09E-10	1.09E-08	2.68E-08
186	565502.4	4222174	1.085E-07	1.00E-09	5.14E-08	1.61E-07	5.75E-08	1.10E-09	5.14E-08	1.10E-07	1.43E-08	1.96E-10	1.68E-08	3.13E-08	1.10E-08	1.09E-10	7.68E-09	1.88E-08
187	565492.5	4222174	1.099E-07	1.00E-09	5.20E-08	1.63E-07	5.82E-08	1.10E-09	5.20E-08	1.11E-07	1.44E-08	1.96E-10	1.70E-08	3.17E-08	1.12E-08	1.09E-10	7.77E-09	1.90E-08
188	565482.6	4222174	1.11E-07	1.00E-09	5.26E-08	1.65E-07	5.89E-08	1.10E-09	5.26E-08	1.13E-07	1.46E-08	1.96E-10	1.72E-08	3.20E-08	1.13E-08	1.09E-10	7.85E-09	1.92E-08
189	565472.7	4222174	1.121E-07	1.00E-09	5.31E-08	1.66E-07	5.94E-08	1.10E-09	5.31E-08	1.14E-07	1.47E-08	1.96E-10	1.74E-08	3.23E-08	1.14E-08	1.09E-10	7.92E-09	1.94E-08
190	565462.8	4222174	1.13E-07	1.00E-09	5.35E-08	1.68E-07	5.99E-08	1.10E-09	5.35E-08	1.15E-07	1.48E-08	1.96E-10	1.75E-08	3.26E-08	1.15E-08	1.09E-10	7.99E-09	1.96E-08
191	565452.9	4222174	1.139E-07	1.00E-09	5.39E-08	1.69E-07	6.04E-08	1.10E-09	5.39E-08	1.15E-07	1.50E-08	1.96E-10	1.77E-08	3.28E-08	1.16E-08	1.09E-10	8.05E-09	1.97E-08
192	565443	4222174	1.146E-07	1.00E-09	5.43E-08	1.70E-07	6.08E-08	1.10E-09	5.43E-08	1.16E-07	1.50E-08	1.96E-10	1.78E-08	3.30E-08	1.16E-08	1.09E-10	8.10E-09	1.99E-08
193	565433.1	4222174	1.152E-07	1.00E-09	5.46E-08	1.71E-07	6.11E-08	1.10E-09	5.46E-08	1.17E-07	1.51E-08	1.96E-10	1.79E-08	3.32E-08	1.17E-08	1.09E-10	8.14E-09	2.00E-08
194	565423.2	4222174	1.155E-07	1.00E-09	5.47E-08	1.71E-07	6.13E-08	1.10E-09	5.47E-08	1.17E-07	1.52E-08	1.96E-10	1.79E-08	3.33E-08	1.17E-08	1.09E-10	8.17E-09	2.00E-08
195	565413.3	4222174	1.157E-07	1.00E-09	5.48E-08	1.72E-07	6.13E-08	1.10E-09	5.48E-08	1.17E-07	1.52E-08	1.96E-10	1.79E-08	3.33E-08	1.18E-08	1.09E-10	8.18E-09	2.00E-08
196	565403.4	4222174	1.156E-07	1.00E-09	5.48E-08	1.71E-07	6.13E-08	1.10E-09	5.48E-08	1.17E-07	1.52E-08	1.96E-10	1.79E-08	3.33E-08	1.18E-08	1.09E-10	8.18E-09	2.00E-08
197	565393.5	4222174	1.152E-07	1.00E-09	5.46E-08	1.71E-07	6.11E-08	1.10E-09	5.46E-08	1.17E-07	1.51E-08	1.96E-10	1.79E-08	3.32E-08	1.17E-08	1.09E-10	8.15E-09	2.00E-08
198	565543	4222181	1.084E-07	1.00E-09	5.13E-08	1.61E-07	5.75E-08	1.10E-09	5.13E-08	1.10E-07	1.42E-08	1.96E-10	1.68E-08	3.12E-08	1.10E-08	1.09E-10	7.66E-09	1.88E-08
199	565554.5	4222192	1.182E-07	1.00E-09	5.60E-08	1.75E-07	6.27E-08	1.10E-09	5.60E-08	1.20E-07	1.55E-08	1.96E-10	1.83E-08	3.40E-08	1.20E-08	1.09E-10	8.36E-09	2.05E-08
200	565492.5	4222164	9.711E-08	1.00E-09	4.60E-08	1.44E-07	5.15E-08	1.10E-09	4.60E-08	9.86E-08	1.28E-08	1.96E-10	1.51E-08	2.80E-08	9.87E-09	1.09E-10	6.87E-09	1.68E-08
201	565482.6	4222164	9.786E-08	1.00E-09	4.64E-08	1.45E-07	5.19E-08	1.10E-09	4.64E-08	9.94E-08	1.29E-08	1.96E-10	1.52E-08	2.82E-08	9.95E-09	1.09E-10	6.92E-09	1.70E-08
202	565472.7	4222164	9.851E-08	1.00E-09	4.67E-08	1.46E-07	5.22E-08	1.10E-09	4.67E-08	1.00E-07	1.29E-08	1.96E-10	1.53E-08	2.84E-08	1.00E-08	1.09E-10	6.97E-09	1.71E-08
203	565462.8	4222164	9.909E-08	1.00E-09	4.69E-08	1.47E-07	5.25E-08	1.10E-09	4.69E-08	1.01E-07	1.30E-08	1.96E-10	1.54E-08	2.86E-08	1.01E-08	1.09E-10	7.01E-09	1.72E-08
204	565452.9	4222164	9.957E-08	1.00E-09	4.72E-08	1.48E-07	5.28E-08	1.10E-09	4.72E-08	1.01E-07	1.31E-08	1.96E-10	1.54E-08	2.87E-08	1.01E-08	1.09E-10	7.04E-09	1.73E-08
205	565443	4222164	9.997E-08	1.00E-09	4.74E-08	1.48E-07	5.30E-08	1.10E-09	4.74E-08	1.01E-07	1.31E-08	1.96E-10	1.55E-08	2.88E-08	1.02E-08	1.09E-10	7.07E-09	1.73E-08
206	565433.1	4222164	1.003E-07	1.00E-09	4.75E-08	1.49E-07	5.32E-08	1.10E-09	4.75E-08	1.02E-07	1.32E-08	1.96E-10	1.55E-08	2.89E-08	1.02E-08	1.09E-10	7.09E-09	1.74E-08
207	565423.2	4222164	1.004E-07	1.00E-09	4.76E-08	1.49E-07	5.33E-08	1.10E-09	4.76E-08	1.02E-07	1.32E-08	1.96E-10	1.56E-08	2.90E-08	1.02E-08	1.09E-10	7.10E-09

222	565393.4	4222154	8.788E-08	1.00E-09	4.16E-08	1.31E-07	4.66E-08	1.10E-09	4.16E-08	8.93E-08	1.15E-08	1.96E-10	1.36E-08	2.54E-08	8.93E-09	1.09E-10	6.21E-09	1.53E-08
223	565538.2	4222159	8.679E-08	1.00E-09	4.11E-08	1.29E-07	4.60E-08	1.10E-09	4.11E-08	8.82E-08	1.14E-08	1.96E-10	1.35E-08	2.50E-08	8.82E-09	1.09E-10	6.14E-09	1.51E-08
224	565556.1	4222166	9.005E-08	1.00E-09	4.27E-08	1.34E-07	4.77E-08	1.10E-09	4.27E-08	9.15E-08	1.18E-08	1.96E-10	1.40E-08	2.60E-08	9.15E-09	1.09E-10	6.37E-09	1.56E-08
225	565502.4	4222144	7.735E-08	1.00E-09	3.66E-08	1.15E-07	4.10E-08	1.10E-09	3.66E-08	7.88E-08	1.02E-08	1.96E-10	1.20E-08	2.23E-08	7.86E-09	1.09E-10	5.47E-09	1.34E-08
226	565492.5	4222144	7.774E-08	1.00E-09	3.68E-08	1.16E-07	4.12E-08	1.10E-09	3.68E-08	7.91E-08	1.02E-08	1.96E-10	1.21E-08	2.25E-08	7.90E-09	1.09E-10	5.50E-09	1.35E-08
227	565482.6	4222144	7.804E-08	1.00E-09	3.70E-08	1.16E-07	4.14E-08	1.10E-09	3.70E-08	7.94E-08	1.02E-08	1.96E-10	1.21E-08	2.25E-08	7.93E-09	1.09E-10	5.52E-09	1.36E-08
228	565472.7	4222144	7.824E-08	1.00E-09	3.71E-08	1.16E-07	4.15E-08	1.10E-09	3.71E-08	7.97E-08	1.03E-08	1.96E-10	1.21E-08	2.26E-08	7.95E-09	1.09E-10	5.53E-09	1.36E-08
229	565462.7	4222144	7.838E-08	1.00E-09	3.71E-08	1.17E-07	4.16E-08	1.10E-09	3.71E-08	7.98E-08	1.03E-08	1.96E-10	1.22E-08	2.26E-08	7.97E-09	1.09E-10	5.54E-09	1.36E-08
230	565452.8	4222144	7.846E-08	1.00E-09	3.72E-08	1.17E-07	4.16E-08	1.10E-09	3.72E-08	7.99E-08	1.03E-08	1.96E-10	1.22E-08	2.27E-08	7.97E-09	1.09E-10	5.55E-09	1.36E-08
231	565442.9	4222144	7.849E-08	1.00E-09	3.72E-08	1.17E-07	4.16E-08	1.10E-09	3.72E-08	7.99E-08	1.03E-08	1.96E-10	1.22E-08	2.27E-08	7.98E-09	1.09E-10	5.55E-09	1.36E-08
232	565433	4222144	7.848E-08	1.00E-09	3.72E-08	1.17E-07	4.16E-08	1.10E-09	3.72E-08	7.99E-08	1.03E-08	1.96E-10	1.22E-08	2.27E-08	7.98E-09	1.09E-10	5.55E-09	1.36E-08
233	565423.1	4222145	7.843E-08	1.00E-09	3.72E-08	1.17E-07	4.16E-08	1.10E-09	3.72E-08	7.98E-08	1.03E-08	1.96E-10	1.22E-08	2.27E-08	7.97E-09	1.09E-10	5.55E-09	1.36E-08
234	565413.2	4222145	7.833E-08	1.00E-09	3.71E-08	1.16E-07	4.15E-08	1.10E-09	3.71E-08	7.97E-08	1.03E-08	1.96E-10	1.21E-08	2.26E-08	7.96E-09	1.09E-10	5.54E-09	1.36E-08
235	565403.3	4222145	7.819E-08	1.00E-09	3.70E-08	1.16E-07	4.15E-08	1.10E-09	3.70E-08	7.96E-08	1.03E-08	1.96E-10	1.21E-08	2.26E-08	7.95E-09	1.09E-10	5.53E-09	1.36E-08
236	565393.4	4222145	7.793E-08	1.00E-09	3.69E-08	1.16E-07	4.13E-08	1.10E-09	3.69E-08	7.93E-08	1.02E-08	1.96E-10	1.21E-08	2.25E-08	7.92E-09	1.09E-10	5.51E-09	1.35E-08
237	565537.2	4222149	7.837E-08	1.00E-09	3.71E-08	1.17E-07	4.16E-08	1.10E-09	3.71E-08	7.98E-08	1.03E-08	1.96E-10	1.21E-08	2.26E-08	7.96E-09	1.09E-10	5.54E-09	1.36E-08
238	565545.9	4222152	8.011E-08	1.00E-09	3.80E-08	1.19E-07	4.25E-08	1.10E-09	3.80E-08	8.15E-08	1.05E-08	1.96E-10	1.24E-08	2.31E-08	8.14E-09	1.09E-10	5.67E-09	1.39E-08
239	565554.6	4222156	8.161E-08	1.00E-09	3.87E-08	1.21E-07	4.33E-08	1.10E-09	3.87E-08	8.30E-08	1.07E-08	1.96E-10	1.27E-08	2.36E-08	8.29E-09	1.09E-10	5.77E-09	1.42E-08
240	565502.3	4222135	7.001E-08	1.00E-09	3.32E-08	1.04E-07	3.71E-08	1.10E-09	3.32E-08	7.14E-08	9.19E-09	1.96E-10	1.09E-08	2.02E-08	7.11E-09	1.09E-10	4.95E-09	1.22E-08
241	565492.4	4222135	7.025E-08	1.00E-09	3.33E-08	1.05E-07	3.72E-08	1.10E-09	3.33E-08	7.16E-08	9.23E-09	1.96E-10	1.09E-08	2.03E-08	7.14E-09	1.09E-10	4.97E-09	1.22E-08
242	565482.5	4222135	7.041E-08	1.00E-09	3.34E-08	1.05E-07	3.73E-08	1.10E-09	3.34E-08	7.18E-08	9.25E-09	1.96E-10	1.09E-08	2.04E-08	7.16E-09	1.09E-10	4.98E-09	1.22E-08
243	565472.6	4222135	7.049E-08	1.00E-09	3.34E-08	1.05E-07	3.74E-08	1.10E-09	3.34E-08	7.19E-08	9.26E-09	1.96E-10	1.09E-08	2.04E-08	7.16E-09	1.09E-10	4.99E-09	1.23E-08
244	565462.7	4222135	7.052E-08	1.00E-09	3.34E-08	1.05E-07	3.74E-08	1.10E-09	3.34E-08	7.19E-08	9.26E-09	1.96E-10	1.09E-08	2.04E-08	7.17E-09	1.09E-10	4.99E-09	1.23E-08
245	565452.8	4222135	7.05E-08	1.00E-09	3.34E-08	1.05E-07	3.74E-08	1.10E-09	3.34E-08	7.19E-08	9.26E-09	1.96E-10	1.09E-08	2.04E-08	7.16E-09	1.09E-10	4.99E-09	1.23E-08
246	565442.9	4222135	7.044E-08	1.00E-09	3.34E-08	1.05E-07	3.73E-08	1.10E-09	3.34E-08	7.18E-08	9.25E-09	1.96E-10	1.09E-08	2.04E-08	7.16E-09	1.09E-10	4.98E-09	1.22E-08
247	565433	4222135	7.035E-08	1.00E-09	3.33E-08	1.05E-07	3.73E-08	1.10E-09	3.33E-08	7.17E-08	9.24E-09	1.96E-10	1.09E-08	2.03E-08	7.15E-09	1.09E-10	4.98E-09	1.22E-08
248	565423.1	4222135	7.023E-08	1.00E-09	3.33E-08	1.05E-07	3.72E-08	1.10E-09	3.33E-08	7.16E-08	9.22E-09	1.96E-10	1.09E-08	2.03E-08	7.14E-09	1.09E-10	4.97E-09	1.22E-08
249	565413.2	4222135	7.009E-08	1.00E-09	3.32E-08	1.04E-07	3.72E-08	1.10E-09	3.32E-08	7.15E-08	9.21E-09	1.96E-10	1.09E-08	2.03E-08	7.12E-09	1.09E-10	4.96E-09	1.22E-08
250	565403.3	4222135	6.993E-08	1.00E-09	3.31E-08	1.04E-07	3.71E-08	1.10E-09	3.31E-08	7.13E-08	9.18E-09	1.96E-10	1.08E-08	2.02E-08	7.11E-09	1.09E-10	4.95E-09	1.22E-08
251	565393.4	4222135	6.969E-08	1.00E-09	3.30E-08	1.04E-07	3.70E-08	1.10E-09	3.30E-08	7.11E-08	9.15E-09	1.96E-10	1.08E-08	2.02E-08	7.08E-09	1.09E-10	4.93E-09	1.21E-08
252	565536.4	4222139	7.114E-08	1.00E-09	3.37E-08	1.06E-07	3.77E-08	1.10E-09	3.37E-08	7.25E-08	9.34E-09	1.96E-10	1.10E-08	2.06E-08	7.23E-09	1.09E-10	5.03E-09	1.24E-08
253	565544.9	4222142	7.276E-08	1.00E-09	3.45E-08	1.08E-07	3.86E-08	1.10E-09	3.45E-08	7.42E-08	9.56E-09	1.96E-10	1.13E-08	2.10E-08	7.39E-09	1.09E-10	5.15E-09	1.27E-08
254	565553.4	4222146	7.422E-08	1.00E-09	3.52E-08	1.10E-07	3.94E-08	1.10E-09	3.52E-08	7.56E-08	9.75E-09	1.96E-10	1.15E-08	2.15E-08	7.54E-09	1.09E-10	5.25E-09	1.29E-08
255	565502.3	4222125	6.37E-08	1.00E-09	3.02E-08	9.49E-08	3.38E-08	1.10E-09	3.02E-08	6.50E-08	8.37E-09	1.96E-10	9.87E-09	1.84E-08	6.47E-09	1.09E-10	4.50E-09	1.11E-08
256	565492.4	4222125	6.383E-08	1.00E-09	3.02E-08	9.51E-08	3.38E-08	1.10E-09	3.02E-08	6.52E-08	8.38E-09	1.96E-10	9.90E-09	1.85E-08	6.49E-09	1.09E-10	4.51E-09	1.11E-08
257	565482.5	4222125	6.389E-08	1.00E-09	3.03E-08	9.52E-08	3.39E-08	1.10E-09	3.03E-08	6.52E-08	8.39E-09	1.96E-10	9.90E-09	1.85E-08	6.49E-09	1.09E-10	4.52E-09	1.11E-08
258	565472.6	4222125	6.389E-08	1.00E-09	3.03E-08	9.52E-08	3.39E-08	1.10E-09	3.03E-08	6.52E-08	8.39E-09	1.96E-10	9.90E-09	1.85E-08	6.49E-09	1.09E-10	4.52E-09	1.11E-08
259	565462.7	4222125	6.385E-08	1.00E-09	3.02E-08	9.51E-08	3.39E-08	1.10E-09	3.02E-08	6.52E-08	8.38E-09	1.96E-10	9.90E-09	1.85E-08	6.49E-09	1.09E-10	4.52E-09	1.11E-08
260	565452.8	4222125	6.376E-08	1.00E-09	3.02E-08	9.50E-08	3.38E-08	1.10E-09	3.02E-08	6.51E-08	8.37E-09	1.96E-10	9.88E-09	1.85E-08	6.48E-09	1.09E-10	4.51E-09	1.11E-08
261	565442.9	4222125	6.365E-08	1.00E-09	3.02E-08	9.48E-08	3.37E-08	1.10E-09	3.02E-08	6.50E-08	8.36E-09	1.96E-10	9.87E-09	1.84E-08	6.47E-09	1.09E-10	4.50E-09	1.11E-08
262	565433	4222125	6.351E-08	1.00E-09	3.01E-08	9.46E-08	3.37E-08	1.10E-09	3.01E-08	6.49E-08	8.34E-09	1.96E-10	9.85E-09	1.84E-08	6.45E-09	1.09E-10	4.49E-09	1.11E-08
263	565423.1	4222125	6.336E-08	1.00E-09	3.00E-08	9.44E-08	3.36E-08	1.10E-09	3.00E-08	6.47E-08	8.32E-09	1.96E-10	9.82E-09	1.83E-08	6.44E-09	1.09E-10	4.48E-09	1.10E-08
264	565413.2	4222125	6.319E-08	1.00E-09	2.99E-08	9.41E-08	3.35E-08	1.10E-09	2.99E-08	6.45E-08	8.30E-09	1.96E-10	9.80E-09	1.83E-08	6.42E-09	1.09E-10	4.47E-09	1.10E-08
265	565403.3	4222125	6.302E-08	1.00E-09	2.99E-08	9.39E-08	3.34E-08	1.10E-09	2.99E-08	6.44E-08	8.28E-09	1.96E-10	9.77E-09	1.82E-08	6.40E-09	1.09E-10	4.46E-09	1.10E-08
266	565393.4	4222125	6.28E-08	1.00E-09	2.98E-08	9.36E-08	3.33E-08	1.10E-09	2.98E-08	6.41E-08	8.25E-09	1.96E-10	9.74E-09	1.82E-08	6.38E-09	1.09E-10	4.44E-09	1.09E-08
267	565535.7	4222129	6.487E-08	1.00E-09	3.07E-08	9.66E-08	3.44E-08	1.10E-09	3.07E-08	6.62E-08	8.52E-09	1.96E-10	1.01E-08	1.88E-08	6.59E-09	1.09E-10	4.59E-09	1.13E-08
268	565544.1	4222132	6.637E-08	1.00E-09	3.14E-08	9.88E-08	3.52E-08	1.10E-09	3.14E-08	6.77E-08	8.72E-09	1.96E-10	1.03E-08	1.92E-08	6.74E-09	1.09E-10	4.69E-09	1.15E-08
269	565552.4	4222135	6.776E-08	1.00E-09	3.21E-08	1.01E-07	3.59E-08	1.10E-09	3.21E-08	6.91E-08	8.90E-09	1.96E-10	1.05E-08	1.96E-08	6.89E-09	1.09E-10	4.79E-09	1.18E-08
270	565560.8	4222139	6.901E-08	1.00E-09	3.27E-08	1.03E-07	3.66E-08	1.10E-09	3.27E-08	7.04E-08	9.06E-09	1.96E-10	1.07E-08	2.00E-08	7.01E-09	1.09E-10	4.88E-09	1.20E-08
271	565502.3	4222115	5.823E-08	1.00E-09	2.76E-08	8.68E-08	3.09E-08	1.10E-09	2.76E-08	5.96E-08	7.65E-09	1.96E-10	9.03E-09	1.69E-08	5.92E-09	1.09E-10	4.12E-09	1.01E-08
272	565492.4	4222115	5.829E-08	1.00E-09	2.76E-08	8.69E-08	3.09E-08	1.10E-09	2.76E-08	5.96E-08	7.65E-09	1.96E-10	9.04E-09	1.69E-08	5.92E-09	1.09E-10	4.12E-09	1.02E-08
273	565482.5	4222115	5.828E-08	1.00E-09	2.76E-08	8.69E-08	3.09E-08	1.10E-09	2.76E-08	5.96E-08	7.65E-09	1.96E-10	9.03E-09	1.69E-08	5.92E-09	1.09E-10	4.12E-09	1.02E-08
274	565472.6	4222115	5.823E-08	1.00E-09	2.76E-08	8.68E-08	3.09E-08	1.10E-09	2.76E-08	5.96E-08	7.65E-09	1.96E-10	9.03E-09	1.69E-08	5.92E-09	1.09E-10	4.12E-09	1.01E-08
275	565462.7	4222115	5.813E-08	1.00E-09	2.75E-08	8.67E-08	3.08E-08	1.10E-09	2.75E-08	5.95E-08	7.63E-09	1.96E-10	9.01E-09	1.68E-08	5.91E-09	1.09E-10	4.11E-09	1.01E-08
276	565452.8	4222115	5.801E-08	1.00E-09	2.75E-08	8.65E-08	3.08E-08	1.10E-09	2.75E-08	5.93E-08	7.62E-09	1.96E-10	8.99E-09	1.68E-08	5.89E-09	1.09E-10	4.10E-09	1.01E-08
277	565442.9	4222115	5.786E-08	1.00E-09	2.74E-08	8.63E-08	3.07E-08	1.10E-09	2.74E-08	5.92E-08	7.60E-09	1.96E-10	8.97E-09	1.68E-08	5.88E-09	1.09E-10	4.09E-09	1.01E-08
278	565433	4222115	5.77E-08	1.00E-09	2.73E-08	8.60E-08	3.06E-08	1.10E-09	2.73E-08	5.90E-08	7.58E-09	1.96E-10	8.94E-09	1.67E-08	5.86E-09	1.09E-10	4.08E-09	1.01E-08
279	565423.1	4222115	5.751E-08	1.00E-09	2.72E-08	8.58E-08	3.05E-08	1.10E-09	2.72E-08	5.88E-08	7.55E-09	1.96E-10	8.92E-09	1.67E-08	5.84E-09	1.09E-10	4.07E-09	1.00E-08
280	565413.2	4222115	5.732E-08	1.00E-09	2.72E-08	8.55E-08	3.04E-08	1.10E-09	2.72E-08	5.86E-08	7.53E-09	1.96E-10	8.89E-09	1.66E-08	5.83E-09	1.09E-10	4.05E-09	9.99E-09
281	565403.3	4222115	5.713E-08	1.00E-09	2.71E-08	8.52E-08	3.03E-08	1.10E-09	2.71E-08	5.85E-08	7.50E-09	1.96E-10	8.86E-09	1.66E-08	5.81E-09	1.09E-10	4.04E-09	9.96E-09
282	565393.3	4222115	5.694E-08	1.00E-09	2.70E-08	8.49E-08	3.02E-08	1.10E-09	2.70E-08	5.83E-08	7.48E-09	1.96E-10	8.83E-09	1.65E-08	5.79E-09	1.09E-10	4.03E-09	9.92E-09
283	565547.5	4222124	6.144E-08	1.00E-09	2.91E-08	9.16E-08	3.26E-08	1.10E-09	2.91E-08	6.28E-08	8.07E-09	1.96E-10	9.52E-09	1.78E-08	6.24E-09	1.09E-10	4.35E-09	1.07E-08
284	565556.6	4222127	6.281E-08	1.00E-09	2.98E-08	9.36E-08	3.33E-08	1.10E-09	2.98E-08	6.42E-08	8.25E-09	1.96E-10	9.74E-09	1.82E-08	6.38E-09	1.09E-10	4.44E-09	1.09E-08
285	565502.3	4222105	5.346E-08	1.00E-09	2.53E-08	7.98E-08	2.83E-08	1.10E-09	2.53E-08	5.48E-08	7.02E-09	1.96E-10	8.29E-09	1.55E-08	5.43E-09	1.09E-10	3.78E-09	9.32E-09
286	565492.4	4222105	5.346E-08	1.00E-09	2.53E-08	7.98E-08	2.83E-08	1.10E-09	2.53E-08	5.48E-08	7.02E-09	1.96E-10	8.29E-09	1.55E-08	5.43E-09	1.09E-10	3.78E-09	9.32E-09
287	565482.5	4222105	5.341E-08	1.00E-09	2.53E-08	7.97E-08	2.83E-08	1.10E-09	2.53E-08	5.47E-08	7.01E-09	1.96E-10	8.28E-09	1.55E-08	5.43E-09	1.09E-10	3.78E-09	9.31E-09
288	565472.6	4222105	5.332E-08	1.00E-09	2.53E-08	7.96E-08	2.83E-08	1.10E-09	2.53E-08	5.46E-08	7.00E-09	1.96E-10	8.27E-09	1.55E-08	5.42E-09	1.09E-10	3.77E-09	9.30E-09
289	565462.7	4222105	5.32E-08	1.00E-09	2.52E-08	7.94E-08	2.82E-08	1.10E-09	2.52E-08	5.45E-08	6.99E-09	1.96E-10	8.25E-09	1.54E-08	5.41E-09	1.09E-10	3.76E-09	9.28E-09
290	565452.8	4222105	5.305E-08	1.00E-09	2.51E-08	7.92E-08	2.81E-08	1.10E-09	2.51E-08	5.44E-08	6.97E-09	1.96E-10	8.22E-09	1.54E-08	5.39E-09	1.09E-10	3.75E-09	9.25E-09
291	565442.9	4222105	5.289E-08	1.00E-09	2.51E-08	7.89E-08	2.80E-08	1.10E-09	2.51E-08	5.42E-08	6.95E-09	1.96E-10	8.20E-09	1.53E-08	5.37E-09	1.09E-10	3.74E-09	9.22E-09
292	565432.9	4222105	5.271E-08	1.00E-09	2.50E-08	7.87E-08	2.79E-08	1.10E-09	2.50E-08	5.40E-08	6.92E-09	1.96E-10	8.17E-09	1.53E-08	5.36E-09	1.09E-10	3.73E-09	9.19E-09
293	565423	4222105	5.25E-08	1.00E-09	2.49E-08	7.84E-08	2.78E-08	1.10E-09	2.49E-08	5.38E-08	6.90E-09	1.96E-10	8.14E-09	1.52E-08	5.34E-09	1.09E-10	3.71E-09	9.16E-09
294	565413.1	4222105	5.23E-08	1.00E-09	2.48E-08	7.81E-08	2.77E-08	1.10E-09	2.48E-08	5.36E-08	6.87E-09	1.96E-10	8.11E-09	1.52E-08	5.32E-09	1.09E-10	3.70E-09	9.12E-09
295	565403.2	4222105	5.211E-08	1.00E-09	2.47E-08	7.78E-08	2.76E-08	1.10E-09	2.47E-08	5.34E-08	6.84E-09	1.96E-10	8.08E-09	1.51E-08	5.30E-09	1.09E-10	3.69E-09	9.09E-09
296	565393.3	4222105	5.194E-08	1.00E-09	2.46E-08	7.75E-08	2.75E-08	1.10E-09	2.46E-08	5.32E-08	6.82E-09	1.96E-10	8.05E-09	1.51E-08	5.28E-09	1.09E-10	3.67E-09	9.06E-09
297	565383.4	4222105	5.178E-08	1.00E-09	2.45E-08	7.73E-08	2.75E-08	1.10E-09	2.45E-08	5.31E-08	6.80E-09	1.96E-10	8.03E-09	1.50E-08	5.26E-09	1.09E-10	3.66E-09	9.03E-09
298	565373.5	4222105	5.164E-08	1.00E-09	2.45E-08	7.71E-08	2.74E-08	1.10E-09	2.45E-08	5.29E-08	6.78E-09	1.96E-10	8.00E-09	1.50E-08	5.25E-09	1.09E-10	3.65E-09	9.01E-09
299	565363.6	4222105	5.153E-08	1.00E-09	2.44E-08	7.69E-08	2.73E-08	1.10E-09	2.44E-08	5.28E-08	6.77E-09	1.96E-10	7.99E-09	1.50E-08	5.24E-09	1.09E-10	3.64E-09	8.99E-09
300	565353.7	4222105	5.143E-08	1.00E-09	2.44E-08	7.68E-08	2.73E-08	1.10E-09	2.44E-08	5.27E-08	6.75E-09	1.96E-10	7.97E-09	1.49E-08	5.23E-09	1.09E-10	3.64E-09	8.97E-09
301	565343.8	4222105	5.136E-08	1.00E-09	2.43E-08	7.67E-08	2.72E-08	1.10E-09	2.43E-08	5.27E-08	6.75E-09	1.96E-10	7.96E-09	1.49E-08	5.22E-09	1.09E-10	3.63E-09	8.96E-09
302	565333.9	4222105	5.126E-08	1.00E-09	2.43E-08	7.65E-08	2.72E-08	1.10E-09	2.43E-08	5.26E-08	6.73E-09	1.96E-10	7.95E-09	1.49E-08	5.21E-09	1.09E-10	3.62E-09	8.94E-09
303	565324	4222105	5.116E-08	1.00E-09	2.42E-08	7.64E-08	2.71E-08	1.10E-09	2.42E-08	5.25E-08	6.72E-09	1.96E-10	7.93E-09	1.48E-08	5.20E-09	1.09E-10	3.62E-09	8.93E-09
304	565314.1	4222105	5.108E-08	1.00E-09	2.42E-08	7.63E-08	2.71E-08	1.10E-09	2.42E-08	5.24E-08	6.71E-09	1.96E-10	7.92E-09	1.48E-08	5.19E-09	1.09E-10	3.61E-09	8.91E-09
305	565304.2	4222105	5.105E-08	1.00E-09	2.42E-08	7.62E-08	2.71E-08	1.10E-09	2.42E-08	5.24E-08	6.70E-09	1.96E-10	7.91E-09	1.48E-08	5.19E-09	1.09E-10	3.61E-09	8.91E-09
306	565294.3	4222105	5.103E-08	1.00E-09	2.42E-08	7.62E-08	2.71E-08	1.10E-09	2.42E-08	5.23E-08	6.70E-09	1.96E-10	7.91E-09	1.48E-08	5.19E-09	1.09E-10	3.61E-09	8.90E-09
307	565284.4	4222105	5.101E-08	1.00E-09	2.42E-08	7.62E-08	2.70E-08	1.10E-09	2.42E-08	5.23E-08	6.70E-09	1.96E-10	7.91E-09	1.48E-08	5.18E-09	1.09E-10	3.61E-09	8.90E-09
308	565537.7	4222110	5.508E-08	1.00E-09	2.61E-08	8.22E-08	2.92E-08	1.10E-09	2.61E-08	5.64E-08	7.23E-09	1.96E-10	8.54E-09	1.60E-08	5.60E-09	1.09E-10	3.90E-09	9.60E-09
309	565546.6	4222113	5.643E-08	1.00E-09	2.67E-08	8.42E-08	2.99E-08	1.10E-09	2.67E-08	5.78E-08	7.41E-09	1.96E-10	8.75E-09	1.64E-08	5.73E-09	1.09E-10	3.99E-09	9.83E-09
310	565555.4	4222117	5.771E-08	1.00E-09	2.73E-08	8.61E-08	3.06E-08	1.10E-09	2.73E-08	5.90E-08	7.58E-09	1.96E-10	8.95E-09	1.67E-08	5.86E-09	1.09E-10	4.08E-09	1.01E-08
311	565502.3	4222095	4.928E-08	1.00E-09	2.33E-08	7.36E-08	2.61E-08	1.10E-09	2.33E-08	5.06E-08	6.47E-09	1.96E-10	7.64E-09	1.43E-08	5.01E-09	1.09E-10	3.48E-09	8.60E-09
312	565492.4	4222095	4.924E-08	1.00E-09	2.33E-08	7.36E-08	2.61E-08	1.10E-09	2.33E-08	5.05E-08	6.47E-09	1.96E-10	7.63E-09	1.43E-08	5.00E-09	1.09E-10	3.48E-09	8.59E-09
313	565482.5	4222095	4.916E-08	1.00E-09	2.33E-08	7.34E-08	2.61E-08	1.10E-09	2.33E-08	5.05E-08	6.46E-09	1.96E-10	7.62E-09	1.43E-08	5.00E-09	1.09E-10	3.48E-09	8.58E-09
314	565472.5	4222095	4.904E-08	1.00E-09	2.32E-08	7.33E-08	2.60E-08	1.10E-09	2.32E-08	5.03E-08	6.44E-09	1.96E-10	7.60E-09	1.42E-08	4.98E-09	1.09E-10	3.47E-09	8.56E-09
315	565462.6	4222095	4.891E-08	1.00E-09	2.32E-08	7.31E-08	2.59E-08	1.10E-09	2.32E-08	5.02E-08	6.42E-09	1.96E-10	7.58E-09	1.42E-08	4.97E-09	1.09E-10	3.46E-09	8.54E-09
316	565452.7	4222095	4.875E-08	1.00E-09	2.31E-08	7.28E-08	2.58E-08	1.10E-09	2.31E-08	5.00E-08	6.40E-09	1.96E-10	7.56E-09	1.42E-08	4.95E-09	1.09E-10	3.45E-09	8.51E-09
317	565442.8	4222095	4.857E-08	1.00E-09	2.30E-08	7.26E-08	2.58E-08	1.10E-09	2.30E-08	4.99E-08	6.38E-09	1.96E-10	7.53E-09	1.41E-08	4.94E-09	1.09E-10	3.43E-09	8.48E-09
318	565432.9	4222095	4.839E-08	1.00E-09	2.29E-08	7.23E-08	2.57E-08	1.10E-09	2.29E-08	4.97E-08	6.35E-09	1.96E-10	7.50E-09	1.41E-08	4.92E-09	1.09E-10	3.42E-09	8.45E-09
319	565423	4222095	4.818E-08	1.00E-09	2.28E-08	7.20E-08	2.55E-08	1.10E-09	2.28E-08	4.95E-08	6.33E-09	1.96E-10	7.47E-09	1.40E-08	4.90E-09	1.09

334	565537.1	4222100	5.078E-08	1.00E-09	2.41E-08	7.58E-08	2.69E-08	1.10E-09	2.41E-08	5.21E-08	6.67E-09	1.96E-10	7.87E-09	1.47E-08	5.16E-09	1.09E-10	3.59E-09	8.86E-09
335	565545.8	4222103	5.201E-08	1.00E-09	2.46E-08	7.77E-08	2.76E-08	1.10E-09	2.46E-08	5.33E-08	6.83E-09	1.96E-10	8.06E-09	1.51E-08	5.29E-09	1.09E-10	3.68E-09	9.07E-09
336	565554.5	4222107	5.319E-08	1.00E-09	2.52E-08	7.94E-08	2.82E-08	1.10E-09	2.52E-08	5.45E-08	6.99E-09	1.96E-10	8.25E-09	1.54E-08	5.41E-09	1.09E-10	3.76E-09	9.28E-09
337	565563.2	4222110	5.431E-08	1.00E-09	2.57E-08	8.10E-08	2.88E-08	1.10E-09	2.57E-08	5.56E-08	7.13E-09	1.96E-10	8.42E-09	1.57E-08	5.52E-09	1.09E-10	3.84E-09	9.47E-09
338	565502.2	4222085	4.558E-08	1.00E-09	2.16E-08	6.82E-08	2.42E-08	1.10E-09	2.16E-08	4.69E-08	5.99E-09	1.96E-10	7.07E-09	1.32E-08	4.63E-09	1.09E-10	3.22E-09	7.96E-09
339	565492.3	4222085	4.551E-08	1.00E-09	2.16E-08	6.81E-08	2.41E-08	1.10E-09	2.16E-08	4.68E-08	5.98E-09	1.96E-10	7.06E-09	1.32E-08	4.63E-09	1.09E-10	3.22E-09	7.95E-09
340	565482.4	4222085	4.542E-08	1.00E-09	2.15E-08	6.79E-08	2.41E-08	1.10E-09	2.15E-08	4.67E-08	5.96E-09	1.96E-10	7.04E-09	1.32E-08	4.62E-09	1.09E-10	3.21E-09	7.94E-09
341	565472.5	4222085	4.529E-08	1.00E-09	2.15E-08	6.78E-08	2.40E-08	1.10E-09	2.15E-08	4.66E-08	5.95E-09	1.96E-10	7.02E-09	1.32E-08	4.60E-09	1.09E-10	3.20E-09	7.92E-09
342	565462.6	4222085	4.514E-08	1.00E-09	2.14E-08	6.75E-08	2.39E-08	1.10E-09	2.14E-08	4.64E-08	5.93E-09	1.96E-10	7.00E-09	1.31E-08	4.59E-09	1.09E-10	3.19E-09	7.89E-09
343	565452.7	4222085	4.498E-08	1.00E-09	2.13E-08	6.73E-08	2.38E-08	1.10E-09	2.13E-08	4.63E-08	5.91E-09	1.96E-10	6.97E-09	1.31E-08	4.57E-09	1.09E-10	3.18E-09	7.86E-09
344	565442.8	4222085	4.48E-08	1.00E-09	2.12E-08	6.70E-08	2.38E-08	1.10E-09	2.12E-08	4.61E-08	5.88E-09	1.96E-10	6.95E-09	1.30E-08	4.55E-09	1.09E-10	3.17E-09	7.83E-09
345	565432.9	4222085	4.462E-08	1.00E-09	2.11E-08	6.68E-08	2.37E-08	1.10E-09	2.11E-08	4.59E-08	5.86E-09	1.96E-10	6.92E-09	1.30E-08	4.53E-09	1.09E-10	3.16E-09	7.80E-09
346	565423	4222085	4.442E-08	1.00E-09	2.10E-08	6.65E-08	2.36E-08	1.10E-09	2.10E-08	4.57E-08	5.83E-09	1.96E-10	6.89E-09	1.29E-08	4.51E-09	1.09E-10	3.14E-09	7.77E-09
347	565413.1	4222086	4.423E-08	1.00E-09	2.10E-08	6.62E-08	2.34E-08	1.10E-09	2.10E-08	4.55E-08	5.81E-09	1.96E-10	6.86E-09	1.29E-08	4.49E-09	1.09E-10	3.13E-09	7.73E-09
348	565403.2	4222086	4.404E-08	1.00E-09	2.09E-08	6.59E-08	2.33E-08	1.10E-09	2.09E-08	4.53E-08	5.78E-09	1.96E-10	6.83E-09	1.28E-08	4.48E-09	1.09E-10	3.11E-09	7.70E-09
349	565393.3	4222086	4.389E-08	1.00E-09	2.08E-08	6.57E-08	2.33E-08	1.10E-09	2.08E-08	4.52E-08	5.76E-09	1.96E-10	6.80E-09	1.28E-08	4.46E-09	1.09E-10	3.10E-09	7.67E-09
350	565383.4	4222086	4.377E-08	1.00E-09	2.07E-08	6.55E-08	2.32E-08	1.10E-09	2.07E-08	4.50E-08	5.75E-09	1.96E-10	6.78E-09	1.27E-08	4.45E-09	1.09E-10	3.10E-09	7.65E-09
351	565373.5	4222086	4.366E-08	1.00E-09	2.07E-08	6.53E-08	2.31E-08	1.10E-09	2.07E-08	4.49E-08	5.73E-09	1.96E-10	6.77E-09	1.27E-08	4.44E-09	1.09E-10	3.09E-09	7.63E-09
352	565363.6	4222086	4.356E-08	1.00E-09	2.06E-08	6.52E-08	2.31E-08	1.10E-09	2.06E-08	4.48E-08	5.72E-09	1.96E-10	6.75E-09	1.27E-08	4.43E-09	1.09E-10	3.08E-09	7.62E-09
353	565353.7	4222086	4.348E-08	1.00E-09	2.06E-08	6.51E-08	2.31E-08	1.10E-09	2.06E-08	4.48E-08	5.71E-09	1.96E-10	6.74E-09	1.26E-08	4.42E-09	1.09E-10	3.07E-09	7.60E-09
354	565343.8	4222086	4.342E-08	1.00E-09	2.06E-08	6.50E-08	2.30E-08	1.10E-09	2.06E-08	4.47E-08	5.70E-09	1.96E-10	6.73E-09	1.26E-08	4.41E-09	1.09E-10	3.07E-09	7.59E-09
355	565333.9	4222086	4.336E-08	1.00E-09	2.05E-08	6.49E-08	2.30E-08	1.10E-09	2.05E-08	4.46E-08	5.69E-09	1.96E-10	6.72E-09	1.26E-08	4.41E-09	1.09E-10	3.07E-09	7.58E-09
356	565323.9	4222086	4.332E-08	1.00E-09	2.05E-08	6.49E-08	2.30E-08	1.10E-09	2.05E-08	4.46E-08	5.69E-09	1.96E-10	6.72E-09	1.26E-08	4.40E-09	1.09E-10	3.06E-09	7.58E-09
357	565314	4222086	4.33E-08	1.00E-09	2.05E-08	6.48E-08	2.30E-08	1.10E-09	2.05E-08	4.46E-08	5.69E-09	1.96E-10	6.71E-09	1.26E-08	4.40E-09	1.09E-10	3.06E-09	7.57E-09
358	565304.1	4222086	4.331E-08	1.00E-09	2.05E-08	6.48E-08	2.30E-08	1.10E-09	2.05E-08	4.46E-08	5.69E-09	1.96E-10	6.71E-09	1.26E-08	4.40E-09	1.09E-10	3.06E-09	7.57E-09
359	565294.2	4222086	4.333E-08	1.00E-09	2.05E-08	6.49E-08	2.30E-08	1.10E-09	2.05E-08	4.46E-08	5.69E-09	1.96E-10	6.72E-09	1.26E-08	4.40E-09	1.09E-10	3.06E-09	7.58E-09
360	565284.3	4222086	4.335E-08	1.00E-09	2.05E-08	6.49E-08	2.30E-08	1.10E-09	2.05E-08	4.46E-08	5.69E-09	1.96E-10	6.72E-09	1.26E-08	4.41E-09	1.09E-10	3.07E-09	7.58E-09
361	565536.5	4222090	4.698E-08	1.00E-09	2.23E-08	7.02E-08	2.49E-08	1.10E-09	2.23E-08	4.83E-08	6.17E-09	1.96E-10	7.28E-09	1.36E-08	4.77E-09	1.09E-10	3.32E-09	8.21E-09
362	565545.1	4222093	4.81E-08	1.00E-09	2.28E-08	7.19E-08	2.55E-08	1.10E-09	2.28E-08	4.94E-08	6.32E-09	1.96E-10	7.46E-09	1.40E-08	4.89E-09	1.09E-10	3.40E-09	8.40E-09
363	565553.6	4222097	4.919E-08	1.00E-09	2.33E-08	7.35E-08	2.61E-08	1.10E-09	2.33E-08	5.05E-08	6.46E-09	1.96E-10	7.63E-09	1.43E-08	5.00E-09	1.09E-10	3.48E-09	8.59E-09
364	565562.2	4222100	5.023E-08	1.00E-09	2.38E-08	7.50E-08	2.66E-08	1.10E-09	2.38E-08	5.15E-08	6.60E-09	1.96E-10	7.79E-09	1.46E-08	5.10E-09	1.09E-10	3.55E-09	8.77E-09
365	565502.2	4222075	4.23E-08	1.00E-09	2.00E-08	6.33E-08	2.24E-08	1.10E-09	2.00E-08	4.36E-08	5.56E-09	1.96E-10	6.56E-09	1.23E-08	4.30E-09	1.09E-10	2.99E-09	7.40E-09
366	565492.3	4222075	4.222E-08	1.00E-09	2.00E-08	6.32E-08	2.24E-08	1.10E-09	2.00E-08	4.35E-08	5.54E-09	1.96E-10	6.54E-09	1.23E-08	4.29E-09	1.09E-10	2.99E-09	7.39E-09
367	565482.4	4222076	4.211E-08	1.00E-09	1.99E-08	6.31E-08	2.23E-08	1.10E-09	1.99E-08	4.34E-08	5.53E-09	1.96E-10	6.53E-09	1.23E-08	4.28E-09	1.09E-10	2.98E-09	7.37E-09
368	565472.5	4222076	4.198E-08	1.00E-09	1.99E-08	6.29E-08	2.23E-08	1.10E-09	1.99E-08	4.32E-08	5.51E-09	1.96E-10	6.51E-09	1.22E-08	4.27E-09	1.09E-10	2.97E-09	7.34E-09
369	565462.6	4222076	4.182E-08	1.00E-09	1.98E-08	6.26E-08	2.22E-08	1.10E-09	1.98E-08	4.31E-08	5.49E-09	1.96E-10	6.48E-09	1.22E-08	4.25E-09	1.09E-10	2.96E-09	7.32E-09
370	565452.7	4222076	4.166E-08	1.00E-09	1.97E-08	6.24E-08	2.21E-08	1.10E-09	1.97E-08	4.29E-08	5.47E-09	1.96E-10	6.46E-09	1.21E-08	4.23E-09	1.09E-10	2.95E-09	7.29E-09
371	565442.8	4222076	4.149E-08	1.00E-09	1.97E-08	6.22E-08	2.20E-08	1.10E-09	1.97E-08	4.28E-08	5.45E-09	1.96E-10	6.43E-09	1.21E-08	4.22E-09	1.09E-10	2.93E-09	7.26E-09
372	565432.9	4222076	4.132E-08	1.00E-09	1.96E-08	6.19E-08	2.19E-08	1.10E-09	1.96E-08	4.26E-08	5.43E-09	1.96E-10	6.40E-09	1.20E-08	4.20E-09	1.09E-10	2.92E-09	7.23E-09
373	565423	4222076	4.113E-08	1.00E-09	1.95E-08	6.16E-08	2.18E-08	1.10E-09	1.95E-08	4.24E-08	5.40E-09	1.96E-10	6.38E-09	1.20E-08	4.18E-09	1.09E-10	2.91E-09	7.20E-09
374	565413.1	4222076	4.094E-08	1.00E-09	1.94E-08	6.13E-08	2.17E-08	1.10E-09	1.94E-08	4.22E-08	5.38E-09	1.96E-10	6.35E-09	1.19E-08	4.16E-09	1.09E-10	2.90E-09	7.17E-09
375	565403.2	4222076	4.076E-08	1.00E-09	1.93E-08	6.11E-08	2.16E-08	1.10E-09	1.93E-08	4.20E-08	5.35E-09	1.96E-10	6.32E-09	1.19E-08	4.14E-09	1.09E-10	2.88E-09	7.13E-09
376	565393.3	4222076	4.063E-08	1.00E-09	1.92E-08	6.09E-08	2.15E-08	1.10E-09	1.92E-08	4.19E-08	5.34E-09	1.96E-10	6.30E-09	1.18E-08	4.13E-09	1.09E-10	2.87E-09	7.11E-09
377	565383.4	4222076	4.051E-08	1.00E-09	1.92E-08	6.07E-08	2.15E-08	1.10E-09	1.92E-08	4.18E-08	5.32E-09	1.96E-10	6.28E-09	1.18E-08	4.12E-09	1.09E-10	2.86E-09	7.09E-09
378	565373.5	4222076	4.04E-08	1.00E-09	1.91E-08	6.06E-08	2.14E-08	1.10E-09	1.91E-08	4.17E-08	5.31E-09	1.96E-10	6.26E-09	1.18E-08	4.11E-09	1.09E-10	2.86E-09	7.07E-09
379	565363.5	4222076	4.03E-08	1.00E-09	1.91E-08	6.04E-08	2.14E-08	1.10E-09	1.91E-08	4.16E-08	5.29E-09	1.96E-10	6.25E-09	1.17E-08	4.10E-09	1.09E-10	2.85E-09	7.06E-09
380	565353.6	4222076	4.022E-08	1.00E-09	1.91E-08	6.03E-08	2.13E-08	1.10E-09	1.91E-08	4.15E-08	5.28E-09	1.96E-10	6.23E-09	1.17E-08	4.09E-09	1.09E-10	2.84E-09	7.04E-09
381	565343.7	4222076	4.015E-08	1.00E-09	1.90E-08	6.02E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.27E-09	1.96E-10	6.22E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.03E-09
382	565333.8	4222076	4.012E-08	1.00E-09	1.90E-08	6.01E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.27E-09	1.96E-10	6.22E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.02E-09
383	565323.9	4222076	4.01E-08	1.00E-09	1.90E-08	6.01E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.27E-09	1.96E-10	6.22E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.02E-09
384	565314	4222076	4.01E-08	1.00E-09	1.90E-08	6.01E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.27E-09	1.96E-10	6.22E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.02E-09
385	565304.1	4222076	4.012E-08	1.00E-09	1.90E-08	6.01E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.27E-09	1.96E-10	6.22E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.02E-09
386	565294.2	4222076	4.015E-08	1.00E-09	1.90E-08	6.02E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.27E-09	1.96E-10	6.22E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.03E-09
387	565284.3	4222076	4.018E-08	1.00E-09	1.90E-08	6.02E-08	2.13E-08	1.10E-09	1.90E-08	4.14E-08	5.28E-09	1.96E-10	6.23E-09	1.17E-08	4.08E-09	1.09E-10	2.84E-09	7.03E-09
388	565538.6	4222081	4.391E-08	1.00E-09	2.08E-08	6.57E-08	2.33E-08	1.10E-09	2.08E-08	4.52E-08	5.77E-09	1.96E-10	6.81E-09	1.28E-08	4.46E-09	1.09E-10	3.11E-09	7.68E-09
389	565556.8	4222088	4.607E-08	1.00E-09	2.18E-08	6.89E-08	2.44E-08	1.10E-09	2.18E-08	4.74E-08	6.05E-09	1.96E-10	7.14E-09	1.34E-08	4.68E-09	1.09E-10	3.26E-09	8.05E-09
390	565502.2	4222066	3.938E-08	1.00E-09	1.87E-08	5.90E-08	2.09E-08	1.10E-09	1.87E-08	4.06E-08	5.17E-09	1.96E-10	6.10E-09	1.15E-08	4.00E-09	1.09E-10	2.79E-09	6.90E-09
391	565492.3	4222066	3.929E-08	1.00E-09	1.86E-08	5.89E-08	2.08E-08	1.10E-09	1.86E-08	4.05E-08	5.16E-09	1.96E-10	6.09E-09	1.14E-08	3.99E-09	1.09E-10	2.78E-09	6.88E-09
392	565482.4	4222066	3.917E-08	1.00E-09	1.86E-08	5.87E-08	2.08E-08	1.10E-09	1.86E-08	4.04E-08	5.14E-09	1.96E-10	6.07E-09	1.14E-08	3.98E-09	1.09E-10	2.77E-09	6.86E-09
393	565472.5	4222066	3.903E-08	1.00E-09	1.85E-08	5.85E-08	2.07E-08	1.10E-09	1.85E-08	4.03E-08	5.13E-09	1.96E-10	6.05E-09	1.14E-08	3.97E-09	1.09E-10	2.76E-09	6.84E-09
394	565462.6	4222066	3.888E-08	1.00E-09	1.84E-08	5.83E-08	2.06E-08	1.10E-09	1.84E-08	4.01E-08	5.11E-09	1.96E-10	6.03E-09	1.13E-08	3.95E-09	1.09E-10	2.75E-09	6.81E-09
395	565452.7	4222066	3.872E-08	1.00E-09	1.83E-08	5.81E-08	2.05E-08	1.10E-09	1.83E-08	4.00E-08	5.09E-09	1.96E-10	6.00E-09	1.13E-08	3.94E-09	1.09E-10	2.74E-09	6.78E-09
396	565442.8	4222066	3.856E-08	1.00E-09	1.83E-08	5.78E-08	2.04E-08	1.10E-09	1.83E-08	3.98E-08	5.06E-09	1.96E-10	5.98E-09	1.12E-08	3.92E-09	1.09E-10	2.73E-09	6.75E-09
397	565432.9	4222066	3.839E-08	1.00E-09	1.82E-08	5.76E-08	2.04E-08	1.10E-09	1.82E-08	3.96E-08	5.04E-09	1.96E-10	5.95E-09	1.12E-08	3.90E-09	1.09E-10	2.72E-09	6.73E-09
398	565423	4222066	3.821E-08	1.00E-09	1.81E-08	5.73E-08	2.03E-08	1.10E-09	1.81E-08	3.95E-08	5.02E-09	1.96E-10	5.92E-09	1.11E-08	3.88E-09	1.09E-10	2.70E-09	6.70E-09
399	565413.1	4222066	3.804E-08	1.00E-09	1.80E-08	5.71E-08	2.02E-08	1.10E-09	1.80E-08	3.93E-08	5.00E-09	1.96E-10	5.90E-09	1.11E-08	3.87E-09	1.09E-10	2.69E-09	6.67E-09
400	565403.1	4222066	3.787E-08	1.00E-09	1.79E-08	5.68E-08	2.01E-08	1.10E-09	1.79E-08	3.91E-08	4.97E-09	1.96E-10	5.87E-09	1.10E-08	3.85E-09	1.09E-10	2.68E-09	6.64E-09
401	565393.2	4222066	3.774E-08	1.00E-09	1.79E-08	5.66E-08	2.00E-08	1.10E-09	1.79E-08	3.90E-08	4.96E-09	1.96E-10	5.85E-09	1.10E-08	3.84E-09	1.09E-10	2.67E-09	6.61E-09
402	565383.3	4222066	3.763E-08	1.00E-09	1.78E-08	5.65E-08	2.00E-08	1.10E-09	1.78E-08	3.89E-08	4.94E-09	1.96E-10	5.83E-09	1.10E-08	3.82E-09	1.09E-10	2.66E-09	6.59E-09
403	565373.4	4222066	3.754E-08	1.00E-09	1.78E-08	5.63E-08	1.99E-08	1.10E-09	1.78E-08	3.88E-08	4.93E-09	1.96E-10	5.82E-09	1.09E-08	3.81E-09	1.09E-10	2.65E-09	6.58E-09
404	565363.5	4222066	3.743E-08	1.00E-09	1.77E-08	5.62E-08	1.98E-08	1.10E-09	1.77E-08	3.87E-08	4.92E-09	1.96E-10	5.80E-09	1.09E-08	3.80E-09	1.09E-10	2.65E-09	6.56E-09
405	565353.6	4222066	3.735E-08	1.00E-09	1.77E-08	5.60E-08	1.98E-08	1.10E-09	1.77E-08	3.86E-08	4.90E-09	1.96E-10	5.79E-09	1.09E-08	3.80E-09	1.09E-10	2.64E-09	6.55E-09
406	565343.7	4222066	3.727E-08	1.00E-09	1.77E-08	5.59E-08	1.98E-08	1.10E-09	1.77E-08	3.85E-08	4.90E-09	1.96E-10	5.78E-09	1.09E-08	3.79E-09	1.09E-10	2.64E-09	6.53E-09
407	565333.8	4222066	3.725E-08	1.00E-09	1.76E-08	5.59E-08	1.98E-08	1.10E-09	1.76E-08	3.85E-08	4.89E-09	1.96E-10	5.77E-09	1.09E-08	3.79E-09	1.09E-10	2.63E-09	6.53E-09
408	565323.9	4222066	3.725E-08	1.00E-09	1.76E-08	5.59E-08	1.97E-08	1.10E-09	1.76E-08	3.85E-08	4.89E-09	1.96E-10	5.77E-09	1.09E-08	3.79E-09	1.09E-10	2.63E-09	6.53E-09
409	565314	4222066	3.726E-08	1.00E-09	1.77E-08	5.59E-08	1.98E-08	1.10E-09	1.77E-08	3.85E-08	4.89E-09	1.96E-10	5.78E-09	1.09E-08	3.79E-09	1.09E-10	2.64E-09	6.53E-09
410	565304.1	4222066	3.728E-08	1.00E-09	1.77E-08	5.60E-08	1.98E-08	1.10E-09	1.77E-08	3.85E-08	4.90E-09	1.96E-10	5.78E-09	1.09E-08	3.79E-09	1.09E-10	2.64E-09	6.53E-09
411	565294.2	4222066	3.732E-08	1.00E-09	1.77E-08	5.60E-08	1.98E-08	1.10E-09	1.77E-08	3.86E-08	4.90E-09	1.96E-10	5.78E-09	1.09E-08	3.79E-09	1.09E-10	2.64E-09	6.54E-09
412	565284.3	4222066	3.735E-08	1.00E-09	1.77E-08	5.61E-08	1.98E-08	1.10E-09	1.77E-08	3.86E-08	4.91E-09	1.96E-10	5.79E-09	1.09E-08	3.80E-09	1.09E-10	2.64E-09	6.55E-09
413	565538	4222071	4.085E-08	1.00E-09	1.94E-08	6.12E-08	2.17E-08	1.10E-09	1.94E-08	4.21E-08	5.36E-09	1.96E-10	6.33E-09	1.19E-08	4.15E-09	1.09E-10	2.89E-09	7.15E-09
414	565546.9	4222074	4.185E-08	1.00E-09	1.98E-08	6.27E-08	2.22E-08	1.10E-09	1.98E-08	4.31E-08	5.50E-09	1.96E-10	6.49E-09	1.22E-08	4.25E-09	1.09E-10	2.96E-09	7.32E-09
415	565555.9	4222078	4.282E-08	1.00E-09	2.03E-08	6.41E-08	2.27E-08	1.10E-09	2.03E-08	4.41E-08	5.62E-09	1.96E-10	6.64E-09	1.25E-08	4.35E-09	1.09E-10	3.03E-09	7.49E-09
416	565564.8	4222082	4.376E-08	1.00E-09	2.07E-08	6.55E-08	2.32E-08	1.10E-09	2.07E-08	4.50E-08	5.75E-09	1.96E-10	6.78E-09	1.27E-08	4.45E-09	1.09E-10	3.09E-09	7.65E-09
417	565502.2	4222056	3.677E-08	1.00E-09	1.74E-08	5.52E-08	1.95E-08	1.10E-09	1.74E-08	3.80E-08	4.83E-09	1.96E-10	5.70E-09	1.07E-08	3.74E-09	1.09E-10	2.60E-09	6.45E-09
418	565492.3	4222056	3.667E-08	1.00E-09	1.74E-08	5.50E-08	1.94E-08	1.10E-09	1.74E-08	3.79E-08	4.82E-09	1.96E-10	5.68E-09	1.07E-08	3.73E-09	1.09E-10	2.59E-09	6.43E-09
419	565482.4	4222056	3.655E-08	1.00E-09	1.73E-08	5.49E-08	1.94E-08	1.10E-09	1.73E-08	3.78E-08	4.80E-09	1.96E-10	5.67E-09	1.07E-08	3.71E-09	1.09E-10	2.58E-09	6.41E-09
420	565472.5	4222056	3.641E-08	1.00E-09	1.73E-08	5.47E-08	1.93E-08	1.10E-09	1.73E-08	3.77E-08	4.78E-09	1.96E-10	5.64E-09	1.06E-08	3.70E-09	1.09E-10	2.58E-09	6.38E-09
421	565462.6	4222056	3.626E-08	1.00E-09	1.72E-08	5.44E-08	1.92E-08	1.10E-09	1.72E-08	3.75E-08	4.76E-09	1.96E-10	5.62E-09	1.06E-08	3.69E-09	1.09E-10	2.56E-09	6.36E-09
422	565452.6	4222056	3.61E-08	1.00E-09	1.71E-08	5.42E-08	1.91E-08	1.10E-09	1.71E-08	3.73E-08	4.74E-09	1.96E-10	5.60E-09	1.05E-08	3.67E-09	1.09E-10	2.55E-09	6.33E-09
423	565442.7	4222056	3.594E-08	1.00E-09	1.70E-08	5.40E-08	1.91E-08	1.10E-09	1.70E-08	3.72E-08	4.72E-09	1.96E-10	5.57E-09	1.05E-08	3.65E-09	1.09E-10	2.54E-09	6.30E-09
424	565432.8	4222056	3.578E-08	1.00E-09	1.70E-08	5.37E-08	1.90E-08	1.10E-09	1.70E-08	3.70E-08	4.70E-09	1.96E-10	5.55E-09	1.04E-08	3.64E-09	1.09E-10	2.53E-09	6.28E-09
425	565422.9	4222056	3.561E-08	1.00E-09	1.69E-08	5.35E-08	1.89E-08	1.10E-09	1.69E-08	3.69E-08	4.68E-09	1.96E-10	5.52E-09	1.04E-08	3.62E-09	1.09E-10	2.52E-09	6.25E-09
426	565413	4222056	3.545E-08	1.00E-09	1.68E-08	5.33E-08	1.88E-08	1.10E-09	1.68E-08	3.67E-08	4.66E-09	1.96E-10	5.50E-09	1.03E-08	3.60E-09	1.09E-10	2.51E-09	6.22E-09
427	565403.1	4222056	3.531E-08	1.00E-09	1.67E-08	5.30E-08	1.87E-08	1.10E-09	1.67E-08	3.65E-08	4.64E-09	1.96E-10	5.47E-09	1.03E-08	3.59E-09	1.09E-10	2.50E-09	6.19E-09
428	565393.2	4222056	3.519E-08	1.00E-09	1.67E-08	5.29E-08	1.87E-08	1.10E-09	1.67E-08	3.64E-08	4.62E-09	1.96E-10	5.45E-09	1.03E-08	3.58E-09	1.09E-10	2.49E-09	6.17E-09
429	565383.3	4222056	3.508E-08	1.00E-09	1.66E-08	5.27E-08	1.86E-08	1.10E-09	1.66E-08	3.63E-08	4.61E-09	1.96E-10	5.44E-09	1.02E-08	3.57E-09	1.09E-10	2.48E-09	6.16E-09
430	565373.4	4222056	3.499E-08	1.00E-09	1.66E-08	5.26E-08	1.86E-08	1.10E-09	1.66E-08	3.62E-08	4.60E-09	1.96E-10	5.42E-09	1.02E-08	3.56E-09	1.09E-10	2.47E-09	6.14E-09
431	565363.5	4222056	3.49E-08	1.00E-09	1.65E-08	5.24E-08	1.85E-08	1.10E-09	1.65E-08	3.61E-08	4.58E-09	1.96E-10	5.41E-09	1.02E-08	3.55E-09	1.09E-

446	565482.3	4222046	3.419E-08	1.00E-09	1.62E-08	5.14E-08	1.81E-08	1.10E-09	1.62E-08	3.54E-08	4.49E-09	1.96E-10	5.30E-09	9.99E-09	3.47E-09	1.09E-10	2.42E-09	6.00E-09
447	565472.4	4222046	3.406E-08	1.00E-09	1.61E-08	5.12E-08	1.81E-08	1.10E-09	1.61E-08	3.53E-08	4.47E-09	1.96E-10	5.28E-09	9.95E-09	3.46E-09	1.09E-10	2.41E-09	5.98E-09
448	565462.5	4222046	3.392E-08	1.00E-09	1.61E-08	5.10E-08	1.80E-08	1.10E-09	1.61E-08	3.52E-08	4.45E-09	1.96E-10	5.26E-09	9.91E-09	3.45E-09	1.09E-10	2.40E-09	5.95E-09
449	565452.6	4222046	3.376E-08	1.00E-09	1.60E-08	5.08E-08	1.79E-08	1.10E-09	1.60E-08	3.50E-08	4.43E-09	1.96E-10	5.23E-09	9.86E-09	3.43E-09	1.09E-10	2.39E-09	5.93E-09
450	565442.7	4222046	3.36E-08	1.00E-09	1.59E-08	5.05E-08	1.78E-08	1.10E-09	1.59E-08	3.48E-08	4.41E-09	1.96E-10	5.21E-09	9.82E-09	3.41E-09	1.09E-10	2.38E-09	5.90E-09
451	565432.8	4222046	3.344E-08	1.00E-09	1.58E-08	5.03E-08	1.77E-08	1.10E-09	1.58E-08	3.47E-08	4.39E-09	1.96E-10	5.18E-09	9.77E-09	3.40E-09	1.09E-10	2.36E-09	5.87E-09
452	565422.9	4222046	3.329E-08	1.00E-09	1.58E-08	5.01E-08	1.77E-08	1.10E-09	1.58E-08	3.45E-08	4.37E-09	1.96E-10	5.16E-09	9.73E-09	3.38E-09	1.09E-10	2.35E-09	5.85E-09
453	565413	4222046	3.315E-08	1.00E-09	1.57E-08	4.99E-08	1.76E-08	1.10E-09	1.57E-08	3.44E-08	4.35E-09	1.96E-10	5.14E-09	9.69E-09	3.37E-09	1.09E-10	2.34E-09	5.82E-09
454	565403.1	4222046	3.302E-08	1.00E-09	1.56E-08	4.97E-08	1.75E-08	1.10E-09	1.56E-08	3.42E-08	4.34E-09	1.96E-10	5.12E-09	9.65E-09	3.36E-09	1.09E-10	2.33E-09	5.80E-09
455	565393.2	4222046	3.29E-08	1.00E-09	1.56E-08	4.95E-08	1.74E-08	1.10E-09	1.56E-08	3.41E-08	4.32E-09	1.96E-10	5.10E-09	9.62E-09	3.34E-09	1.09E-10	2.33E-09	5.78E-09
456	565383.3	4222046	3.28E-08	1.00E-09	1.55E-08	4.93E-08	1.74E-08	1.10E-09	1.55E-08	3.40E-08	4.31E-09	1.96E-10	5.09E-09	9.59E-09	3.33E-09	1.09E-10	2.32E-09	5.76E-09
457	565373.4	4222046	3.272E-08	1.00E-09	1.55E-08	4.92E-08	1.73E-08	1.10E-09	1.55E-08	3.39E-08	4.30E-09	1.96E-10	5.07E-09	9.56E-09	3.32E-09	1.09E-10	2.31E-09	5.75E-09
458	565363.5	4222046	3.264E-08	1.00E-09	1.55E-08	4.91E-08	1.73E-08	1.10E-09	1.55E-08	3.39E-08	4.29E-09	1.96E-10	5.06E-09	9.54E-09	3.32E-09	1.09E-10	2.31E-09	5.73E-09
459	565353.6	4222046	3.258E-08	1.00E-09	1.54E-08	4.90E-08	1.73E-08	1.10E-09	1.54E-08	3.38E-08	4.28E-09	1.96E-10	5.05E-09	9.53E-09	3.31E-09	1.09E-10	2.30E-09	5.72E-09
460	565343.7	4222046	3.254E-08	1.00E-09	1.54E-08	4.90E-08	1.73E-08	1.10E-09	1.54E-08	3.38E-08	4.27E-09	1.96E-10	5.04E-09	9.51E-09	3.31E-09	1.09E-10	2.30E-09	5.72E-09
461	565333.8	4222046	3.25E-08	1.00E-09	1.54E-08	4.89E-08	1.72E-08	1.10E-09	1.54E-08	3.37E-08	4.27E-09	1.96E-10	5.04E-09	9.50E-09	3.30E-09	1.09E-10	2.30E-09	5.71E-09
462	565323.9	4222046	3.248E-08	1.00E-09	1.54E-08	4.89E-08	1.72E-08	1.10E-09	1.54E-08	3.37E-08	4.27E-09	1.96E-10	5.04E-09	9.50E-09	3.30E-09	1.09E-10	2.30E-09	5.71E-09
463	565314	4222046	3.248E-08	1.00E-09	1.54E-08	4.89E-08	1.72E-08	1.10E-09	1.54E-08	3.37E-08	4.27E-09	1.96E-10	5.03E-09	9.50E-09	3.30E-09	1.09E-10	2.30E-09	5.71E-09
464	565304.1	4222046	3.25E-08	1.00E-09	1.54E-08	4.89E-08	1.72E-08	1.10E-09	1.54E-08	3.37E-08	4.27E-09	1.96E-10	5.04E-09	9.50E-09	3.30E-09	1.09E-10	2.30E-09	5.71E-09
465	565294.1	4222046	3.253E-08	1.00E-09	1.54E-08	4.89E-08	1.72E-08	1.10E-09	1.54E-08	3.38E-08	4.27E-09	1.96E-10	5.04E-09	9.51E-09	3.31E-09	1.09E-10	2.30E-09	5.72E-09
466	565284.2	4222046	3.257E-08	1.00E-09	1.54E-08	4.90E-08	1.73E-08	1.10E-09	1.54E-08	3.38E-08	4.28E-09	1.96E-10	5.05E-09	9.52E-09	3.31E-09	1.09E-10	2.30E-09	5.72E-09
467	565536.9	4222050	3.564E-08	1.00E-09	1.69E-08	5.35E-08	1.89E-08	1.10E-09	1.69E-08	3.69E-08	4.68E-09	1.96E-10	5.52E-09	1.04E-08	3.62E-09	1.09E-10	2.52E-09	6.25E-09
468	565545.6	4222054	3.647E-08	1.00E-09	1.73E-08	5.48E-08	1.93E-08	1.10E-09	1.73E-08	3.77E-08	4.79E-09	1.96E-10	5.65E-09	1.06E-08	3.71E-09	1.09E-10	2.58E-09	6.39E-09
469	565554.4	4222058	3.729E-08	1.00E-09	1.77E-08	5.60E-08	1.98E-08	1.10E-09	1.77E-08	3.85E-08	4.90E-09	1.96E-10	5.78E-09	1.09E-08	3.79E-09	1.09E-10	2.64E-09	6.54E-09
470	565563.1	4222061	3.809E-08	1.00E-09	1.80E-08	5.71E-08	2.02E-08	1.10E-09	1.80E-08	3.93E-08	5.00E-09	1.96E-10	5.91E-09	1.11E-08	3.87E-09	1.09E-10	2.69E-09	6.67E-09
471	565502.1	4222036	3.23E-08	1.00E-09	1.53E-08	4.86E-08	1.71E-08	1.10E-09	1.53E-08	3.35E-08	4.24E-09	1.96E-10	5.01E-09	9.44E-09	3.28E-09	1.09E-10	2.28E-09	5.68E-09
472	565492.2	4222036	3.219E-08	1.00E-09	1.53E-08	4.84E-08	1.71E-08	1.10E-09	1.53E-08	3.34E-08	4.23E-09	1.96E-10	4.99E-09	9.41E-09	3.27E-09	1.09E-10	2.28E-09	5.66E-09
473	565482.3	4222036	3.207E-08	1.00E-09	1.52E-08	4.83E-08	1.70E-08	1.10E-09	1.52E-08	3.33E-08	4.21E-09	1.96E-10	4.97E-09	9.38E-09	3.26E-09	1.09E-10	2.27E-09	5.64E-09
474	565472.4	4222036	3.194E-08	1.00E-09	1.51E-08	4.81E-08	1.69E-08	1.10E-09	1.51E-08	3.32E-08	4.20E-09	1.96E-10	4.95E-09	9.34E-09	3.25E-09	1.09E-10	2.26E-09	5.61E-09
475	565462.5	4222036	3.181E-08	1.00E-09	1.51E-08	4.79E-08	1.69E-08	1.10E-09	1.51E-08	3.30E-08	4.18E-09	1.96E-10	4.93E-09	9.30E-09	3.23E-09	1.09E-10	2.25E-09	5.59E-09
476	565452.6	4222036	3.165E-08	1.00E-09	1.50E-08	4.77E-08	1.68E-08	1.10E-09	1.50E-08	3.29E-08	4.16E-09	1.96E-10	4.91E-09	9.26E-09	3.22E-09	1.09E-10	2.24E-09	5.56E-09
477	565442.7	4222036	3.15E-08	1.00E-09	1.49E-08	4.74E-08	1.67E-08	1.10E-09	1.49E-08	3.27E-08	4.14E-09	1.96E-10	4.88E-09	9.22E-09	3.20E-09	1.09E-10	2.23E-09	5.54E-09
478	565432.8	4222036	3.134E-08	1.00E-09	1.48E-08	4.72E-08	1.66E-08	1.10E-09	1.48E-08	3.26E-08	4.12E-09	1.96E-10	4.86E-09	9.17E-09	3.19E-09	1.09E-10	2.22E-09	5.51E-09
479	565422.9	4222036	3.121E-08	1.00E-09	1.48E-08	4.70E-08	1.65E-08	1.10E-09	1.48E-08	3.24E-08	4.10E-09	1.96E-10	4.84E-09	9.13E-09	3.17E-09	1.09E-10	2.21E-09	5.49E-09
480	565413	4222036	3.108E-08	1.00E-09	1.47E-08	4.68E-08	1.65E-08	1.10E-09	1.47E-08	3.23E-08	4.08E-09	1.96E-10	4.82E-09	9.10E-09	3.16E-09	1.09E-10	2.20E-09	5.47E-09
481	565403.1	4222036	3.096E-08	1.00E-09	1.47E-08	4.66E-08	1.64E-08	1.10E-09	1.47E-08	3.22E-08	4.07E-09	1.96E-10	4.80E-09	9.06E-09	3.15E-09	1.09E-10	2.19E-09	5.45E-09
482	565393.2	4222036	3.086E-08	1.00E-09	1.46E-08	4.65E-08	1.64E-08	1.10E-09	1.46E-08	3.21E-08	4.05E-09	1.96E-10	4.78E-09	9.03E-09	3.14E-09	1.09E-10	2.18E-09	5.43E-09
483	565383.3	4222036	3.076E-08	1.00E-09	1.46E-08	4.63E-08	1.63E-08	1.10E-09	1.46E-08	3.20E-08	4.04E-09	1.96E-10	4.77E-09	9.00E-09	3.13E-09	1.09E-10	2.18E-09	5.41E-09
484	565373.4	4222036	3.068E-08	1.00E-09	1.45E-08	4.62E-08	1.63E-08	1.10E-09	1.45E-08	3.19E-08	4.03E-09	1.96E-10	4.76E-09	8.98E-09	3.12E-09	1.09E-10	2.17E-09	5.40E-09
485	565363.5	4222036	3.061E-08	1.00E-09	1.45E-08	4.61E-08	1.62E-08	1.10E-09	1.45E-08	3.18E-08	4.02E-09	1.96E-10	4.75E-09	8.96E-09	3.11E-09	1.09E-10	2.16E-09	5.39E-09
486	565353.6	4222036	3.056E-08	1.00E-09	1.45E-08	4.60E-08	1.62E-08	1.10E-09	1.45E-08	3.18E-08	4.01E-09	1.96E-10	4.74E-09	8.95E-09	3.11E-09	1.09E-10	2.16E-09	5.38E-09
487	565343.7	4222036	3.053E-08	1.00E-09	1.45E-08	4.60E-08	1.62E-08	1.10E-09	1.45E-08	3.17E-08	4.01E-09	1.96E-10	4.73E-09	8.94E-09	3.10E-09	1.09E-10	2.16E-09	5.37E-09
488	565333.7	4222036	3.049E-08	1.00E-09	1.44E-08	4.59E-08	1.62E-08	1.10E-09	1.44E-08	3.17E-08	4.00E-09	1.96E-10	4.73E-09	8.93E-09	3.10E-09	1.09E-10	2.16E-09	5.36E-09
489	565323.8	4222037	3.046E-08	1.00E-09	1.44E-08	4.59E-08	1.62E-08	1.10E-09	1.44E-08	3.17E-08	4.00E-09	1.96E-10	4.72E-09	8.92E-09	3.10E-09	1.09E-10	2.15E-09	5.36E-09
490	565313.9	4222037	3.045E-08	1.00E-09	1.44E-08	4.59E-08	1.61E-08	1.10E-09	1.44E-08	3.17E-08	4.00E-09	1.96E-10	4.72E-09	8.92E-09	3.09E-09	1.09E-10	2.15E-09	5.36E-09
491	565304	4222037	3.047E-08	1.00E-09	1.44E-08	4.59E-08	1.62E-08	1.10E-09	1.44E-08	3.17E-08	4.00E-09	1.96E-10	4.72E-09	8.92E-09	3.10E-09	1.09E-10	2.15E-09	5.36E-09
492	565294.1	4222037	3.05E-08	1.00E-09	1.44E-08	4.60E-08	1.62E-08	1.10E-09	1.44E-08	3.17E-08	4.01E-09	1.96E-10	4.73E-09	8.93E-09	3.10E-09	1.09E-10	2.16E-09	5.37E-09
493	565284.2	4222037	3.054E-08	1.00E-09	1.45E-08	4.60E-08	1.62E-08	1.10E-09	1.45E-08	3.18E-08	4.01E-09	1.96E-10	4.73E-09	8.94E-09	3.10E-09	1.09E-10	2.16E-09	5.37E-09
494	565538.7	4222041	3.361E-08	1.00E-09	1.59E-08	5.05E-08	1.78E-08	1.10E-09	1.59E-08	3.48E-08	4.41E-09	1.96E-10	5.21E-09	9.82E-09	3.42E-09	1.09E-10	2.38E-09	5.90E-09
495	565547.8	4222045	3.441E-08	1.00E-09	1.63E-08	5.17E-08	1.82E-08	1.10E-09	1.63E-08	3.56E-08	4.52E-09	1.96E-10	5.33E-09	1.00E-08	3.50E-09	1.09E-10	2.43E-09	6.04E-09
496	565566.1	4222053	3.599E-08	1.00E-09	1.71E-08	5.40E-08	1.91E-08	1.10E-09	1.71E-08	3.72E-08	4.73E-09	1.96E-10	5.58E-09	1.05E-08	3.66E-09	1.09E-10	2.55E-09	6.31E-09
497	565502.1	4222026	3.038E-08	1.00E-09	1.44E-08	4.58E-08	1.61E-08	1.10E-09	1.44E-08	3.16E-08	3.99E-09	1.96E-10	4.71E-09	8.89E-09	3.09E-09	1.09E-10	2.15E-09	5.34E-09
498	565492.2	4222026	3.027E-08	1.00E-09	1.43E-08	4.56E-08	1.61E-08	1.10E-09	1.43E-08	3.15E-08	3.98E-09	1.96E-10	4.69E-09	8.86E-09	3.08E-09	1.09E-10	2.14E-09	5.33E-09
499	565482.3	4222026	3.015E-08	1.00E-09	1.43E-08	4.54E-08	1.60E-08	1.10E-09	1.43E-08	3.14E-08	3.96E-09	1.96E-10	4.67E-09	8.83E-09	3.06E-09	1.09E-10	2.13E-09	5.31E-09
500	565472.4	4222026	3.002E-08	1.00E-09	1.42E-08	4.53E-08	1.59E-08	1.10E-09	1.42E-08	3.12E-08	3.94E-09	1.96E-10	4.65E-09	8.79E-09	3.05E-09	1.09E-10	2.12E-09	5.28E-09
501	565462.5	4222026	2.989E-08	1.00E-09	1.42E-08	4.51E-08	1.58E-08	1.10E-09	1.42E-08	3.11E-08	3.93E-09	1.96E-10	4.63E-09	8.75E-09	3.04E-09	1.09E-10	2.11E-09	5.26E-09
502	565452.6	4222026	2.975E-08	1.00E-09	1.41E-08	4.48E-08	1.58E-08	1.10E-09	1.41E-08	3.10E-08	3.91E-09	1.96E-10	4.61E-09	8.71E-09	3.02E-09	1.09E-10	2.10E-09	5.24E-09
503	565442.7	4222026	2.961E-08	1.00E-09	1.40E-08	4.46E-08	1.57E-08	1.10E-09	1.40E-08	3.08E-08	3.89E-09	1.96E-10	4.59E-09	8.67E-09	3.01E-09	1.09E-10	2.09E-09	5.21E-09
504	565432.8	4222026	2.946E-08	1.00E-09	1.40E-08	4.44E-08	1.56E-08	1.10E-09	1.40E-08	3.07E-08	3.87E-09	1.96E-10	4.57E-09	8.63E-09	2.99E-09	1.09E-10	2.08E-09	5.19E-09
505	565422.9	4222026	2.934E-08	1.00E-09	1.39E-08	4.42E-08	1.56E-08	1.10E-09	1.39E-08	3.06E-08	3.85E-09	1.96E-10	4.55E-09	8.60E-09	2.98E-09	1.09E-10	2.07E-09	5.17E-09
506	565413	4222026	2.922E-08	1.00E-09	1.38E-08	4.41E-08	1.55E-08	1.10E-09	1.38E-08	3.04E-08	3.84E-09	1.96E-10	4.53E-09	8.56E-09	2.97E-09	1.09E-10	2.07E-09	5.14E-09
507	565403.1	4222027	2.911E-08	1.00E-09	1.38E-08	4.39E-08	1.54E-08	1.10E-09	1.38E-08	3.03E-08	3.82E-09	1.96E-10	4.51E-09	8.53E-09	2.96E-09	1.09E-10	2.06E-09	5.13E-09
508	565393.2	4222027	2.901E-08	1.00E-09	1.37E-08	4.38E-08	1.54E-08	1.10E-09	1.37E-08	3.02E-08	3.81E-09	1.96E-10	4.50E-09	8.50E-09	2.95E-09	1.09E-10	2.05E-09	5.11E-09
509	565383.2	4222027	2.892E-08	1.00E-09	1.37E-08	4.36E-08	1.53E-08	1.10E-09	1.37E-08	3.01E-08	3.80E-09	1.96E-10	4.48E-09	8.48E-09	2.94E-09	1.09E-10	2.05E-09	5.09E-09
510	565373.3	4222027	2.884E-08	1.00E-09	1.37E-08	4.35E-08	1.53E-08	1.10E-09	1.37E-08	3.01E-08	3.79E-09	1.96E-10	4.47E-09	8.46E-09	2.93E-09	1.09E-10	2.04E-09	5.08E-09
511	565363.4	4222027	2.877E-08	1.00E-09	1.36E-08	4.34E-08	1.53E-08	1.10E-09	1.36E-08	3.00E-08	3.78E-09	1.96E-10	4.46E-09	8.44E-09	2.92E-09	1.09E-10	2.03E-09	5.07E-09
512	565353.5	4222027	2.872E-08	1.00E-09	1.36E-08	4.33E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.77E-09	1.96E-10	4.45E-09	8.42E-09	2.92E-09	1.09E-10	2.03E-09	5.06E-09
513	565343.6	4222027	2.868E-08	1.00E-09	1.36E-08	4.33E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.77E-09	1.96E-10	4.45E-09	8.41E-09	2.91E-09	1.09E-10	2.03E-09	5.05E-09
514	565333.7	4222027	2.865E-08	1.00E-09	1.36E-08	4.32E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.76E-09	1.96E-10	4.44E-09	8.40E-09	2.91E-09	1.09E-10	2.03E-09	5.05E-09
515	565323.8	4222027	2.863E-08	1.00E-09	1.36E-08	4.32E-08	1.52E-08	1.10E-09	1.36E-08	2.98E-08	3.76E-09	1.96E-10	4.44E-09	8.39E-09	2.91E-09	1.09E-10	2.02E-09	5.04E-09
516	565313.9	4222027	2.862E-08	1.00E-09	1.36E-08	4.32E-08	1.52E-08	1.10E-09	1.36E-08	2.98E-08	3.76E-09	1.96E-10	4.44E-09	8.39E-09	2.91E-09	1.09E-10	2.02E-09	5.04E-09
517	565304	4222027	2.864E-08	1.00E-09	1.36E-08	4.32E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.76E-09	1.96E-10	4.44E-09	8.40E-09	2.91E-09	1.09E-10	2.03E-09	5.04E-09
518	565294.1	4222027	2.867E-08	1.00E-09	1.36E-08	4.33E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.76E-09	1.96E-10	4.44E-09	8.40E-09	2.91E-09	1.09E-10	2.03E-09	5.05E-09
519	565284.2	4222027	2.87E-08	1.00E-09	1.36E-08	4.33E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.77E-09	1.96E-10	4.45E-09	8.42E-09	2.92E-09	1.09E-10	2.03E-09	5.06E-09
520	565538.1	4222031	3.157E-08	1.00E-09	1.50E-08	4.75E-08	1.67E-08	1.10E-09	1.50E-08	3.28E-08	4.15E-09	1.96E-10	4.89E-09	9.24E-09	3.21E-09	1.09E-10	2.23E-09	5.55E-09
521	565547.1	4222035	3.23E-08	1.00E-09	1.53E-08	4.86E-08	1.71E-08	1.10E-09	1.53E-08	3.35E-08	4.24E-09	1.96E-10	5.01E-09	9.45E-09	3.28E-09	1.09E-10	2.28E-09	5.68E-09
522	565556.2	4222039	3.303E-08	1.00E-09	1.57E-08	4.97E-08	1.75E-08	1.10E-09	1.57E-08	3.43E-08	4.34E-09	1.96E-10	5.12E-09	9.66E-09	3.36E-09	1.09E-10	2.34E-09	5.80E-09
523	565565.2	4222042	3.375E-08	1.00E-09	1.60E-08	5.07E-08	1.79E-08	1.10E-09	1.60E-08	3.50E-08	4.43E-09	1.96E-10	5.23E-09	9.86E-09	3.43E-09	1.09E-10	2.39E-09	5.93E-09
524	565502.1	4222016	2.863E-08	1.00E-09	1.36E-08	4.32E-08	1.52E-08	1.10E-09	1.36E-08	2.98E-08	3.76E-09	1.96E-10	4.44E-09	8.40E-09	2.91E-09	1.09E-10	2.02E-09	5.04E-09
525	565492.2	4222016	2.853E-08	1.00E-09	1.35E-08	4.31E-08	1.51E-08	1.10E-09	1.35E-08	2.97E-08	3.75E-09	1.96E-10	4.42E-09	8.37E-09	2.90E-09	1.09E-10	2.02E-09	5.03E-09
526	565482.3	4222016	2.841E-08	1.00E-09	1.35E-08	4.29E-08	1.51E-08	1.10E-09	1.35E-08	2.96E-08	3.73E-09	1.96E-10	4.40E-09	8.33E-09	2.89E-09	1.09E-10	2.01E-09	5.01E-09
527	565472.4	4222017	2.828E-08	1.00E-09	1.34E-08	4.27E-08	1.50E-08	1.10E-09	1.34E-08	2.95E-08	3.71E-09	1.96E-10	4.38E-09	8.29E-09	2.87E-09	1.09E-10	2.00E-09	4.98E-09
528	565462.5	4222017	2.815E-08	1.00E-09	1.33E-08	4.25E-08	1.49E-08	1.10E-09	1.33E-08	2.94E-08	3.70E-09	1.96E-10	4.36E-09	8.26E-09	2.86E-09	1.09E-10	1.99E-09	4.96E-09
529	565452.6	4222017	2.802E-08	1.00E-09	1.33E-08	4.23E-08	1.49E-08	1.10E-09	1.33E-08	2.92E-08	3.68E-09	1.96E-10	4.34E-09	8.22E-09	2.85E-09	1.09E-10	1.98E-09	4.94E-09
530	565442.7	4222017	2.789E-08	1.00E-09	1.32E-08	4.21E-08	1.48E-08	1.10E-09	1.32E-08	2.91E-08	3.66E-09	1.96E-10	4.32E-09	8.18E-09	2.83E-09	1.09E-10	1.97E-09	4.92E-09
531	565432.8	4222017	2.777E-08	1.00E-09	1.32E-08	4.19E-08	1.47E-08	1.10E-09	1.32E-08	2.90E-08	3.65E-09	1.96E-10	4.30E-09	8.15E-09	2.82E-09	1.09E-10	1.96E-09	4.89E-09
532	565422.8	4222017	2.765E-08	1.00E-09	1.31E-08	4.17E-08	1.47E-08	1.10E-09	1.31E-08	2.89E-08	3.63E-09	1.96E-10	4.29E-09	8.11E-09	2.81E-09	1.09E-10	1.96E-09	4.87E-09
533	565412.9	4222017	2.754E-08	1.00E-09	1.30E-08	4.16E-08	1.46E-08	1.10E-09	1.30E-08	2.87E-08	3.62E-09	1.96E-10	4.27E-09	8.08E-09	2.80E-09	1.09E-10	1.95E-09	4.85E-09
534	565403	4222017	2.743E-08	1.00E-09	1.30E-08	4.14E-08	1.45E-08	1.10E-09	1.30E-08	2.86E-08	3.60E-09	1.96E-10	4.25E-09	8.05E-09	2.79E-09	1.09E-10	1.94E-09	4.84E-09
535	565393.1	4222017	2.734E-08	1.00E-09	1.30E-08	4.13E-08	1.45E-08	1.10E-09	1.30E-08	2.85E-08	3.59E-09	1.96E-10	4.24E-09	8.02E-09	2.78E-09	1.09E-10	1.93E-09	4.82E-09
536	565383.2	4222017	2.725E-08	1.00E-09	1.29E-08	4.12E-08	1.44E-08	1.10E-09	1.29E-08	2.85E-08	3.58E-09	1.96E-10	4.22E-09	8.00E-09	2.77E-09	1.09E-10	1.93E-09	4.81E-09
537	565373.3	4222017	2.718E-08	1.00E-09	1.29E-08	4.11E-08	1.44E-08	1.10E-09	1.29E-08	2.84E-08	3.57E-09	1.96E-10	4.21E-09	7.98E-09	2.76E-09	1.09E-10	1.92E-09	4.79E-09
538	565363.4	4222017	2.711E-08	1.00E-09	1.28E-08	4.10E-08	1.44E-08	1.10E-09	1.28E-08	2.83E-08	3.56E-09	1.96E-10	4.20E-09	7.96E-09	2.75E-09	1.09E-10	1.92E-09	4.78E-09
539	565353.5	4222017	2.705E-08	1.00E-09	1.28E-08	4.09E-08	1.43E-08	1.10E-09	1.28E-08	2.83E-08	3.55E-09	1.96E-10	4.19E-09	7.94E-09	2.75E-09	1.09E-10	1.91E-09	4.77E-09
540	565343.6	4222017	2.701E-08	1.00E-09	1.28E-08	4.08E-08	1.43E-08	1.10E-09	1.28E-08	2.82E-08	3.55E-09	1.96E-10	4.19E-09	7.93E-09	2.74E-09	1.09E-10	1.91E-09	4.76E-09
541	565333.7	4222017	2.698E-08	1.00E-09	1.28E-08	4.08E-08	1.43E-08	1.10E-09	1.28E-08	2.82E-08	3.54E-09	1.96E-10	4.18E-09	7.92E-09	2.74E-09	1.09E-10	1.91E-09	4.76E-09
542	565323.8	4222017	2.697E-08	1.00E-09	1.28E-08	4.07E-08	1.43E-08	1.10E-09	1.28E-08	2.82E-08	3.54E-09	1.96E-10	4.18E-09	7.92E-09	2.74E-09	1.09E-10	1.91E-09	4.76E-09
543	565313.9	4222017	2.697E-08	1.00E-09	1.28E-08	4.07E-08	1.43E-08	1.10E-09	1.28E-08	2.82E-08	3.54E-09	1.96E-10	4.18E-09	7.92E-09	2.74E-09	1.09

558	565432.7	4222007	2.622E-08	1.00E-09	1.24E-08	3.96E-08	1.39E-08	1.10E-09	1.24E-08	2.74E-08	3.44E-09	1.96E-10	4.06E-09	7.70E-09	2.66E-09	1.09E-10	1.85E-09	4.63E-09
559	565422.8	4222007	2.611E-08	1.00E-09	1.24E-08	3.95E-08	1.38E-08	1.10E-09	1.24E-08	2.73E-08	3.43E-09	1.96E-10	4.05E-09	7.67E-09	2.65E-09	1.09E-10	1.85E-09	4.61E-09
560	565412.9	4222007	2.601E-08	1.00E-09	1.23E-08	3.93E-08	1.38E-08	1.10E-09	1.23E-08	2.72E-08	3.42E-09	1.96E-10	4.03E-09	7.64E-09	2.64E-09	1.09E-10	1.84E-09	4.59E-09
561	565403	4222007	2.591E-08	1.00E-09	1.23E-08	3.92E-08	1.37E-08	1.10E-09	1.23E-08	2.71E-08	3.40E-09	1.96E-10	4.02E-09	7.61E-09	2.63E-09	1.09E-10	1.83E-09	4.57E-09
562	565393.1	4222007	2.582E-08	1.00E-09	1.22E-08	3.91E-08	1.37E-08	1.10E-09	1.22E-08	2.70E-08	3.39E-09	1.96E-10	4.00E-09	7.59E-09	2.62E-09	1.09E-10	1.83E-09	4.56E-09
563	565383.2	4222007	2.574E-08	1.00E-09	1.22E-08	3.89E-08	1.36E-08	1.10E-09	1.22E-08	2.69E-08	3.38E-09	1.96E-10	3.99E-09	7.57E-09	2.62E-09	1.09E-10	1.82E-09	4.55E-09
564	565373.3	4222007	2.567E-08	1.00E-09	1.22E-08	3.88E-08	1.36E-08	1.10E-09	1.22E-08	2.69E-08	3.37E-09	1.96E-10	3.98E-09	7.55E-09	2.61E-09	1.09E-10	1.82E-09	4.53E-09
565	565363.4	4222007	2.56E-08	1.00E-09	1.21E-08	3.87E-08	1.36E-08	1.10E-09	1.21E-08	2.68E-08	3.36E-09	1.96E-10	3.97E-09	7.53E-09	2.60E-09	1.09E-10	1.81E-09	4.52E-09
566	565353.5	4222007	2.554E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.96E-09	7.51E-09	2.60E-09	1.09E-10	1.81E-09	4.51E-09
567	565343.6	4222007	2.549E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.95E-09	7.50E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
568	565333.7	4222007	2.547E-08	1.00E-09	1.21E-08	3.85E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.34E-09	1.96E-10	3.95E-09	7.49E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
569	565323.8	4222007	2.546E-08	1.00E-09	1.21E-08	3.85E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.34E-09	1.96E-10	3.95E-09	7.49E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
570	565313.9	4222007	2.546E-08	1.00E-09	1.21E-08	3.85E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.34E-09	1.96E-10	3.95E-09	7.49E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
571	565304	4222007	2.548E-08	1.00E-09	1.21E-08	3.85E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.95E-09	7.49E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
572	565294.1	4222007	2.55E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.95E-09	7.50E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
573	565284.2	4222007	2.553E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.96E-09	7.51E-09	2.59E-09	1.09E-10	1.81E-09	4.51E-09
574	565537.2	4222011	2.804E-08	1.00E-09	1.33E-08	4.23E-08	1.49E-08	1.10E-09	1.33E-08	2.92E-08	3.68E-09	1.96E-10	4.35E-09	8.22E-09	2.85E-09	1.09E-10	1.98E-09	4.94E-09
575	565546	4222015	2.866E-08	1.00E-09	1.36E-08	4.32E-08	1.52E-08	1.10E-09	1.36E-08	2.99E-08	3.76E-09	1.96E-10	4.44E-09	8.40E-09	2.91E-09	1.09E-10	2.03E-09	5.05E-09
576	565554.8	4222018	2.927E-08	1.00E-09	1.39E-08	4.41E-08	1.55E-08	1.10E-09	1.39E-08	3.05E-08	3.84E-09	1.96E-10	4.54E-09	8.58E-09	2.97E-09	1.09E-10	2.07E-09	5.15E-09
577	565563.6	4222022	2.989E-08	1.00E-09	1.42E-08	4.50E-08	1.58E-08	1.10E-09	1.42E-08	3.11E-08	3.92E-09	1.96E-10	4.63E-09	8.75E-09	3.04E-09	1.09E-10	2.11E-09	5.26E-09
578	565502	4221997	2.559E-08	1.00E-09	1.21E-08	3.87E-08	1.36E-08	1.10E-09	1.21E-08	2.68E-08	3.36E-09	1.96E-10	3.97E-09	7.52E-09	2.60E-09	1.09E-10	1.81E-09	4.52E-09
579	565492.1	4221997	2.549E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.95E-09	7.50E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
580	565482.2	4221997	2.538E-08	1.00E-09	1.20E-08	3.84E-08	1.35E-08	1.10E-09	1.20E-08	2.66E-08	3.33E-09	1.96E-10	3.93E-09	7.46E-09	2.58E-09	1.09E-10	1.80E-09	4.48E-09
581	565472.3	4221997	2.526E-08	1.00E-09	1.20E-08	3.82E-08	1.34E-08	1.10E-09	1.20E-08	2.65E-08	3.32E-09	1.96E-10	3.92E-09	7.43E-09	2.57E-09	1.09E-10	1.79E-09	4.46E-09
582	565462.4	4221997	2.514E-08	1.00E-09	1.19E-08	3.81E-08	1.33E-08	1.10E-09	1.19E-08	2.63E-08	3.30E-09	1.96E-10	3.90E-09	7.40E-09	2.55E-09	1.09E-10	1.78E-09	4.44E-09
583	565452.5	4221997	2.503E-08	1.00E-09	1.19E-08	3.79E-08	1.33E-08	1.10E-09	1.19E-08	2.62E-08	3.29E-09	1.96E-10	3.88E-09	7.36E-09	2.54E-09	1.09E-10	1.77E-09	4.42E-09
584	565442.6	4221997	2.492E-08	1.00E-09	1.18E-08	3.77E-08	1.32E-08	1.10E-09	1.18E-08	2.61E-08	3.27E-09	1.96E-10	3.86E-09	7.33E-09	2.53E-09	1.09E-10	1.76E-09	4.40E-09
585	565432.7	4221997	2.481E-08	1.00E-09	1.18E-08	3.76E-08	1.32E-08	1.10E-09	1.18E-08	2.60E-08	3.26E-09	1.96E-10	3.85E-09	7.30E-09	2.52E-09	1.09E-10	1.75E-09	4.39E-09
586	565422.8	4221997	2.471E-08	1.00E-09	1.17E-08	3.74E-08	1.31E-08	1.10E-09	1.17E-08	2.59E-08	3.24E-09	1.96E-10	3.83E-09	7.27E-09	2.51E-09	1.09E-10	1.75E-09	4.37E-09
587	565412.9	4221997	2.461E-08	1.00E-09	1.17E-08	3.73E-08	1.30E-08	1.10E-09	1.17E-08	2.58E-08	3.23E-09	1.96E-10	3.81E-09	7.24E-09	2.50E-09	1.09E-10	1.74E-09	4.35E-09
588	565403	4221997	2.452E-08	1.00E-09	1.16E-08	3.71E-08	1.30E-08	1.10E-09	1.16E-08	2.57E-08	3.22E-09	1.96E-10	3.80E-09	7.22E-09	2.49E-09	1.09E-10	1.73E-09	4.33E-09
589	565393.1	4221997	2.443E-08	1.00E-09	1.16E-08	3.70E-08	1.30E-08	1.10E-09	1.16E-08	2.56E-08	3.21E-09	1.96E-10	3.79E-09	7.19E-09	2.48E-09	1.09E-10	1.73E-09	4.32E-09
590	565383.2	4221997	2.435E-08	1.00E-09	1.15E-08	3.69E-08	1.29E-08	1.10E-09	1.15E-08	2.55E-08	3.20E-09	1.96E-10	3.77E-09	7.17E-09	2.47E-09	1.09E-10	1.72E-09	4.31E-09
591	565373.3	4221997	2.428E-08	1.00E-09	1.15E-08	3.68E-08	1.29E-08	1.10E-09	1.15E-08	2.55E-08	3.19E-09	1.96E-10	3.76E-09	7.15E-09	2.47E-09	1.09E-10	1.72E-09	4.29E-09
592	565363.4	4221997	2.422E-08	1.00E-09	1.15E-08	3.67E-08	1.28E-08	1.10E-09	1.15E-08	2.54E-08	3.18E-09	1.96E-10	3.75E-09	7.13E-09	2.46E-09	1.09E-10	1.71E-09	4.28E-09
593	565353.5	4221997	2.417E-08	1.00E-09	1.14E-08	3.66E-08	1.28E-08	1.10E-09	1.14E-08	2.54E-08	3.17E-09	1.96E-10	3.75E-09	7.12E-09	2.46E-09	1.09E-10	1.71E-09	4.27E-09
594	565343.6	4221997	2.412E-08	1.00E-09	1.14E-08	3.66E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.17E-09	1.96E-10	3.74E-09	7.10E-09	2.45E-09	1.09E-10	1.71E-09	4.27E-09
595	565333.7	4221997	2.41E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.17E-09	1.96E-10	3.74E-09	7.10E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
596	565323.8	4221997	2.409E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.16E-09	1.96E-10	3.73E-09	7.09E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
597	565313.8	4221997	2.409E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.16E-09	1.96E-10	3.73E-09	7.10E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
598	565303.9	4221997	2.41E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.17E-09	1.96E-10	3.74E-09	7.10E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
599	565294	4221997	2.412E-08	1.00E-09	1.14E-08	3.66E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.17E-09	1.96E-10	3.74E-09	7.10E-09	2.45E-09	1.09E-10	1.71E-09	4.27E-09
600	565284.1	4221997	2.415E-08	1.00E-09	1.14E-08	3.66E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.17E-09	1.96E-10	3.74E-09	7.11E-09	2.45E-09	1.09E-10	1.71E-09	4.27E-09
601	565536.8	4222001	2.65E-08	1.00E-09	1.26E-08	4.01E-08	1.41E-08	1.10E-09	1.26E-08	2.77E-08	3.48E-09	1.96E-10	4.11E-09	7.78E-09	2.69E-09	1.09E-10	1.87E-09	4.68E-09
602	565545.5	4222005	2.707E-08	1.00E-09	1.28E-08	4.09E-08	1.44E-08	1.10E-09	1.28E-08	2.83E-08	3.56E-09	1.96E-10	4.20E-09	7.95E-09	2.75E-09	1.09E-10	1.91E-09	4.77E-09
603	565554.2	4222008	2.764E-08	1.00E-09	1.31E-08	4.17E-08	1.47E-08	1.10E-09	1.31E-08	2.89E-08	3.63E-09	1.96E-10	4.28E-09	8.11E-09	2.81E-09	1.09E-10	1.95E-09	4.87E-09
604	565562.9	4222012	2.821E-08	1.00E-09	1.34E-08	4.26E-08	1.50E-08	1.10E-09	1.34E-08	2.94E-08	3.70E-09	1.96E-10	4.37E-09	8.27E-09	2.87E-09	1.09E-10	1.99E-09	4.97E-09
605	565502	4221987	2.426E-08	1.00E-09	1.15E-08	3.68E-08	1.29E-08	1.10E-09	1.15E-08	2.55E-08	3.19E-09	1.96E-10	3.76E-09	7.14E-09	2.47E-09	1.09E-10	1.72E-09	4.29E-09
606	565492.1	4221987	2.417E-08	1.00E-09	1.14E-08	3.66E-08	1.28E-08	1.10E-09	1.14E-08	2.54E-08	3.17E-09	1.96E-10	3.75E-09	7.12E-09	2.46E-09	1.09E-10	1.71E-09	4.27E-09
607	565482.2	4221987	2.406E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.16E-09	1.96E-10	3.73E-09	7.09E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
608	565472.3	4221987	2.395E-08	1.00E-09	1.13E-08	3.63E-08	1.27E-08	1.10E-09	1.13E-08	2.51E-08	3.14E-09	1.96E-10	3.71E-09	7.05E-09	2.43E-09	1.09E-10	1.69E-09	4.24E-09
609	565462.4	4221987	2.383E-08	1.00E-09	1.13E-08	3.61E-08	1.26E-08	1.10E-09	1.13E-08	2.50E-08	3.13E-09	1.96E-10	3.69E-09	7.02E-09	2.42E-09	1.09E-10	1.69E-09	4.22E-09
610	565452.5	4221987	2.373E-08	1.00E-09	1.12E-08	3.60E-08	1.26E-08	1.10E-09	1.12E-08	2.49E-08	3.12E-09	1.96E-10	3.68E-09	6.99E-09	2.41E-09	1.09E-10	1.68E-09	4.20E-09
611	565442.6	4221987	2.362E-08	1.00E-09	1.12E-08	3.58E-08	1.25E-08	1.10E-09	1.12E-08	2.48E-08	3.10E-09	1.96E-10	3.66E-09	6.96E-09	2.40E-09	1.09E-10	1.67E-09	4.18E-09
612	565432.7	4221987	2.352E-08	1.00E-09	1.11E-08	3.57E-08	1.25E-08	1.10E-09	1.11E-08	2.47E-08	3.09E-09	1.96E-10	3.65E-09	6.93E-09	2.39E-09	1.09E-10	1.66E-09	4.16E-09
613	565422.8	4221987	2.342E-08	1.00E-09	1.11E-08	3.55E-08	1.24E-08	1.10E-09	1.11E-08	2.46E-08	3.08E-09	1.96E-10	3.63E-09	6.90E-09	2.38E-09	1.09E-10	1.66E-09	4.15E-09
614	565412.9	4221987	2.333E-08	1.00E-09	1.11E-08	3.54E-08	1.24E-08	1.10E-09	1.11E-08	2.45E-08	3.06E-09	1.96E-10	3.62E-09	6.88E-09	2.37E-09	1.09E-10	1.65E-09	4.13E-09
615	565403	4221987	2.324E-08	1.00E-09	1.10E-08	3.53E-08	1.23E-08	1.10E-09	1.10E-08	2.44E-08	3.05E-09	1.96E-10	3.60E-09	6.85E-09	2.36E-09	1.09E-10	1.64E-09	4.12E-09
616	565393.1	4221987	2.316E-08	1.00E-09	1.10E-08	3.51E-08	1.23E-08	1.10E-09	1.10E-08	2.44E-08	3.04E-09	1.96E-10	3.59E-09	6.83E-09	2.35E-09	1.09E-10	1.64E-09	4.10E-09
617	565383.2	4221987	2.308E-08	1.00E-09	1.09E-08	3.50E-08	1.22E-08	1.10E-09	1.09E-08	2.43E-08	3.03E-09	1.96E-10	3.58E-09	6.80E-09	2.35E-09	1.09E-10	1.63E-09	4.09E-09
618	565373.3	4221987	2.301E-08	1.00E-09	1.09E-08	3.49E-08	1.22E-08	1.10E-09	1.09E-08	2.42E-08	3.02E-09	1.96E-10	3.57E-09	6.79E-09	2.34E-09	1.09E-10	1.63E-09	4.08E-09
619	565363.4	4221987	2.295E-08	1.00E-09	1.09E-08	3.48E-08	1.22E-08	1.10E-09	1.09E-08	2.41E-08	3.01E-09	1.96E-10	3.56E-09	6.77E-09	2.33E-09	1.09E-10	1.62E-09	4.07E-09
620	565353.4	4221987	2.291E-08	1.00E-09	1.09E-08	3.48E-08	1.21E-08	1.10E-09	1.09E-08	2.41E-08	3.01E-09	1.96E-10	3.55E-09	6.76E-09	2.33E-09	1.09E-10	1.62E-09	4.06E-09
621	565343.5	4221987	2.287E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.41E-08	3.00E-09	1.96E-10	3.55E-09	6.75E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
622	565333.6	4221987	2.285E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
623	565323.7	4221987	2.284E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
624	565313.8	4221987	2.284E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
625	565303.9	4221987	2.285E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
626	565294	4221987	2.286E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.41E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
627	565284.1	4221987	2.288E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.41E-08	3.01E-09	1.96E-10	3.55E-09	6.75E-09	2.33E-09	1.09E-10	1.62E-09	4.05E-09
628	565538.2	4221992	2.52E-08	1.00E-09	1.19E-08	3.81E-08	1.34E-08	1.10E-09	1.19E-08	2.64E-08	3.31E-09	1.96E-10	3.91E-09	7.41E-09	2.56E-09	1.09E-10	1.78E-09	4.45E-09
629	565547.3	4221996	2.575E-08	1.00E-09	1.22E-08	3.90E-08	1.37E-08	1.10E-09	1.22E-08	2.70E-08	3.38E-09	1.96E-10	3.99E-09	7.57E-09	2.62E-09	1.09E-10	1.82E-09	4.55E-09
630	565556.3	4221999	2.631E-08	1.00E-09	1.25E-08	3.98E-08	1.39E-08	1.10E-09	1.25E-08	2.75E-08	3.45E-09	1.96E-10	4.08E-09	7.73E-09	2.67E-09	1.09E-10	1.86E-09	4.64E-09
631	565565.4	4222003	2.685E-08	1.00E-09	1.27E-08	4.06E-08	1.42E-08	1.10E-09	1.27E-08	2.81E-08	3.53E-09	1.96E-10	4.16E-09	7.89E-09	2.73E-09	1.09E-10	1.90E-09	4.74E-09
632	565601.6	4222018	2.897E-08	1.00E-09	1.37E-08	4.37E-08	1.54E-08	1.10E-09	1.37E-08	3.02E-08	3.80E-09	1.96E-10	4.49E-09	8.49E-09	2.94E-09	1.09E-10	2.05E-09	5.10E-09
633	565502	4221977	2.304E-08	1.00E-09	1.09E-08	3.50E-08	1.22E-08	1.10E-09	1.09E-08	2.42E-08	3.03E-09	1.96E-10	3.57E-09	6.79E-09	2.34E-09	1.09E-10	1.63E-09	4.08E-09
634	565492.1	4221977	2.295E-08	1.00E-09	1.09E-08	3.48E-08	1.22E-08	1.10E-09	1.09E-08	2.41E-08	3.01E-09	1.96E-10	3.56E-09	6.77E-09	2.33E-09	1.09E-10	1.62E-09	4.06E-09
635	565482.2	4221977	2.284E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
636	565472.3	4221977	2.274E-08	1.00E-09	1.08E-08	3.45E-08	1.21E-08	1.10E-09	1.08E-08	2.39E-08	2.99E-09	1.96E-10	3.52E-09	6.71E-09	2.31E-09	1.09E-10	1.61E-09	4.03E-09
637	565462.4	4221977	2.263E-08	1.00E-09	1.07E-08	3.44E-08	1.20E-08	1.10E-09	1.07E-08	2.38E-08	2.97E-09	1.96E-10	3.51E-09	6.68E-09	2.30E-09	1.09E-10	1.60E-09	4.01E-09
638	565452.5	4221977	2.253E-08	1.00E-09	1.07E-08	3.42E-08	1.19E-08	1.10E-09	1.07E-08	2.37E-08	2.96E-09	1.96E-10	3.49E-09	6.65E-09	2.29E-09	1.09E-10	1.59E-09	3.99E-09
639	565442.6	4221977	2.243E-08	1.00E-09	1.06E-08	3.41E-08	1.19E-08	1.10E-09	1.06E-08	2.36E-08	2.95E-09	1.96E-10	3.48E-09	6.62E-09	2.28E-09	1.09E-10	1.59E-09	3.98E-09
640	565432.7	4221977	2.234E-08	1.00E-09	1.06E-08	3.39E-08	1.18E-08	1.10E-09	1.06E-08	2.35E-08	2.93E-09	1.96E-10	3.46E-09	6.59E-09	2.27E-09	1.09E-10	1.58E-09	3.96E-09
641	565422.8	4221977	2.224E-08	1.00E-09	1.05E-08	3.38E-08	1.18E-08	1.10E-09	1.05E-08	2.34E-08	2.92E-09	1.96E-10	3.45E-09	6.57E-09	2.26E-09	1.09E-10	1.57E-09	3.94E-09
642	565412.9	4221977	2.216E-08	1.00E-09	1.05E-08	3.37E-08	1.17E-08	1.10E-09	1.05E-08	2.33E-08	2.91E-09	1.96E-10	3.43E-09	6.54E-09	2.25E-09	1.09E-10	1.57E-09	3.93E-09
643	565403	4221977	2.208E-08	1.00E-09	1.05E-08	3.35E-08	1.17E-08	1.10E-09	1.05E-08	2.33E-08	2.90E-09	1.96E-10	3.42E-09	6.52E-09	2.24E-09	1.09E-10	1.56E-09	3.91E-09
644	565393	4221977	2.199E-08	1.00E-09	1.04E-08	3.34E-08	1.17E-08	1.10E-09	1.04E-08	2.32E-08	2.89E-09	1.96E-10	3.41E-09	6.49E-09	2.23E-09	1.09E-10	1.56E-09	3.90E-09
645	565383.1	4221977	2.191E-08	1.00E-09	1.04E-08	3.33E-08	1.16E-08	1.10E-09	1.04E-08	2.31E-08	2.88E-09	1.96E-10	3.40E-09	6.47E-09	2.23E-09	1.09E-10	1.55E-09	3.89E-09
646	565373.2	4221977	2.185E-08	1.00E-09	1.03E-08	3.32E-08	1.16E-08	1.10E-09	1.03E-08	2.30E-08	2.87E-09	1.96E-10	3.39E-09	6.45E-09	2.22E-09	1.09E-10	1.54E-09	3.87E-09
647	565363.3	4221977	2.18E-08	1.00E-09	1.03E-08	3.31E-08	1.16E-08	1.10E-09	1.03E-08	2.30E-08	2.86E-09	1.96E-10	3.38E-09	6.44E-09	2.21E-09	1.09E-10	1.54E-09	3.87E-09
648	565353.4	4221977	2.176E-08	1.00E-09	1.03E-08	3.31E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.86E-09	1.96E-10	3.37E-09	6.43E-09	2.21E-09	1.09E-10	1.54E-09	3.86E-09
649	565343.5	4221977	2.172E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.37E-09	6.42E-09	2.21E-09	1.09E-10	1.54E-09	3.85E-09
650	565333.6	4221977	2.17E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.36E-09	6.41E-09	2.21E-09	1.09E-10	1.54E-09	3.85E-09
651	565323.7	4221977	2.169E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.36E-09	6.41E-09	2.20E-09	1.09E-10	1.53E-09	3.85E-09
652	565313.8	4221978	2.169E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.36E-09	6.41E-09	2.20E-09	1.09E-10	1.53E-09	3.85E-09
653	565303.9	4221978	2.17E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.36E-09	6.41E-09	2.20E-09	1.09E-10	1.53E-09	3.85E-09
654	565294	4221978	2.171E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.37E-09	6.41E-09	2.21E-09	1.09E-10	1.54E-09	3.85E-09
655	565284.1	4221978	2.173E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.37E-09	6.42E-09	2.21E-09	1.09E-10	1.54E-09

670	565452.5	4221967	2.143E-08	1.00E-09	1.02E-08	3.26E-08	1.14E-08	1.10E-09	1.02E-08	2.26E-08	2.81E-09	1.96E-10	3.32E-09	6.33E-09	2.18E-09	1.09E-10	1.52E-09	3.80E-09
671	565442.5	4221967	2.134E-08	1.00E-09	1.01E-08	3.24E-08	1.13E-08	1.10E-09	1.01E-08	2.25E-08	2.80E-09	1.96E-10	3.31E-09	6.31E-09	2.17E-09	1.09E-10	1.51E-09	3.79E-09
672	565432.6	4221967	2.125E-08	1.00E-09	1.01E-08	3.23E-08	1.13E-08	1.10E-09	1.01E-08	2.24E-08	2.79E-09	1.96E-10	3.29E-09	6.28E-09	2.16E-09	1.09E-10	1.50E-09	3.77E-09
673	565422.7	4221967	2.116E-08	1.00E-09	1.00E-08	3.22E-08	1.12E-08	1.10E-09	1.00E-08	2.23E-08	2.78E-09	1.96E-10	3.28E-09	6.25E-09	2.15E-09	1.09E-10	1.50E-09	3.76E-09
674	565412.8	4221967	2.107E-08	1.00E-09	9.98E-09	3.21E-08	1.12E-08	1.10E-09	9.98E-09	2.23E-08	2.77E-09	1.96E-10	3.27E-09	6.23E-09	2.14E-09	1.09E-10	1.49E-09	3.74E-09
675	565402.9	4221967	2.099E-08	1.00E-09	9.95E-09	3.19E-08	1.11E-08	1.10E-09	9.95E-09	2.22E-08	2.76E-09	1.96E-10	3.25E-09	6.21E-09	2.13E-09	1.09E-10	1.48E-09	3.73E-09
676	565393	4221967	2.092E-08	1.00E-09	9.91E-09	3.18E-08	1.11E-08	1.10E-09	9.91E-09	2.21E-08	2.75E-09	1.96E-10	3.24E-09	6.19E-09	2.13E-09	1.09E-10	1.48E-09	3.71E-09
677	565383.1	4221968	2.085E-08	1.00E-09	9.88E-09	3.17E-08	1.11E-08	1.10E-09	9.88E-09	2.20E-08	2.74E-09	1.96E-10	3.23E-09	6.17E-09	2.12E-09	1.09E-10	1.47E-09	3.70E-09
678	565373.2	4221968	2.078E-08	1.00E-09	9.85E-09	3.16E-08	1.10E-08	1.10E-09	9.85E-09	2.20E-08	2.73E-09	1.96E-10	3.22E-09	6.15E-09	2.11E-09	1.09E-10	1.47E-09	3.69E-09
679	565363.3	4221968	2.074E-08	1.00E-09	9.82E-09	3.16E-08	1.10E-08	1.10E-09	9.82E-09	2.19E-08	2.72E-09	1.96E-10	3.21E-09	6.13E-09	2.11E-09	1.09E-10	1.47E-09	3.68E-09
680	565353.4	4221968	2.07E-08	1.00E-09	9.81E-09	3.15E-08	1.10E-08	1.10E-09	9.81E-09	2.19E-08	2.72E-09	1.96E-10	3.21E-09	6.12E-09	2.10E-09	1.09E-10	1.46E-09	3.68E-09
681	565343.5	4221968	2.067E-08	1.00E-09	9.79E-09	3.15E-08	1.10E-08	1.10E-09	9.79E-09	2.19E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
682	565333.6	4221968	2.065E-08	1.00E-09	9.78E-09	3.14E-08	1.09E-08	1.10E-09	9.78E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
683	565323.7	4221968	2.064E-08	1.00E-09	9.78E-09	3.14E-08	1.09E-08	1.10E-09	9.78E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
684	565313.8	4221968	2.063E-08	1.00E-09	9.77E-09	3.14E-08	1.09E-08	1.10E-09	9.77E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.10E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
685	565303.9	4221968	2.064E-08	1.00E-09	9.78E-09	3.14E-08	1.09E-08	1.10E-09	9.78E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
686	565294	4221968	2.065E-08	1.00E-09	9.78E-09	3.14E-08	1.09E-08	1.10E-09	9.78E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
687	565284.1	4221968	2.066E-08	1.00E-09	9.79E-09	3.15E-08	1.10E-08	1.10E-09	9.79E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
688	565537.4	4221972	2.27E-08	1.00E-09	1.08E-08	3.45E-08	1.20E-08	1.10E-09	1.08E-08	2.39E-08	2.98E-09	1.96E-10	3.52E-09	6.70E-09	2.31E-09	1.09E-10	1.61E-09	4.02E-09
689	565546.3	4221976	2.317E-08	1.00E-09	1.10E-08	3.52E-08	1.23E-08	1.10E-09	1.10E-08	2.44E-08	3.04E-09	1.96E-10	3.59E-09	6.83E-09	2.35E-09	1.09E-10	1.64E-09	4.10E-09
690	565555.1	4221979	2.364E-08	1.00E-09	1.12E-08	3.58E-08	1.25E-08	1.10E-09	1.12E-08	2.48E-08	3.10E-09	1.96E-10	3.67E-09	6.97E-09	2.40E-09	1.09E-10	1.67E-09	4.18E-09
691	565564	4221983	2.411E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.17E-09	1.96E-10	3.74E-09	7.10E-09	2.45E-09	1.09E-10	1.71E-09	4.26E-09
692	565572.8	4221987	2.458E-08	1.00E-09	1.16E-08	3.72E-08	1.30E-08	1.10E-09	1.16E-08	2.58E-08	3.23E-09	1.96E-10	3.81E-09	7.23E-09	2.50E-09	1.09E-10	1.74E-09	4.35E-09
693	565599.4	4221998	2.595E-08	1.00E-09	1.23E-08	3.92E-08	1.38E-08	1.10E-09	1.23E-08	2.72E-08	3.41E-09	1.96E-10	4.02E-09	7.63E-09	2.64E-09	1.09E-10	1.84E-09	4.58E-09
694	565608.3	4222001	2.639E-08	1.00E-09	1.25E-08	3.99E-08	1.40E-08	1.10E-09	1.25E-08	2.76E-08	3.47E-09	1.96E-10	4.09E-09	7.75E-09	2.68E-09	1.09E-10	1.87E-09	4.66E-09
695	565617.2	4222005	2.682E-08	1.00E-09	1.27E-08	4.05E-08	1.42E-08	1.10E-09	1.27E-08	2.80E-08	3.52E-09	1.96E-10	4.16E-09	7.88E-09	2.73E-09	1.09E-10	1.90E-09	4.73E-09
696	565626	4222008	2.723E-08	1.00E-09	1.29E-08	4.11E-08	1.44E-08	1.10E-09	1.29E-08	2.84E-08	3.58E-09	1.96E-10	4.22E-09	7.99E-09	2.77E-09	1.09E-10	1.93E-09	4.80E-09
697	565634.9	4222012	2.763E-08	1.00E-09	1.31E-08	4.17E-08	1.46E-08	1.10E-09	1.31E-08	2.88E-08	3.63E-09	1.96E-10	4.28E-09	8.11E-09	2.81E-09	1.09E-10	1.95E-09	4.87E-09
698	565643.7	4222016	2.802E-08	1.00E-09	1.33E-08	4.23E-08	1.49E-08	1.10E-09	1.33E-08	2.92E-08	3.68E-09	1.96E-10	4.34E-09	8.22E-09	2.85E-09	1.09E-10	1.98E-09	4.94E-09
699	565652.6	4222019	2.838E-08	1.00E-09	1.34E-08	4.28E-08	1.50E-08	1.10E-09	1.34E-08	2.96E-08	3.73E-09	1.96E-10	4.40E-09	8.32E-09	2.88E-09	1.09E-10	2.01E-09	5.00E-09
700	565502	4221957	2.086E-08	1.00E-09	9.88E-09	3.17E-08	1.11E-08	1.10E-09	9.88E-09	2.20E-08	2.74E-09	1.96E-10	3.23E-09	6.17E-09	2.12E-09	1.09E-10	1.47E-09	3.70E-09
701	565492.1	4221957	2.077E-08	1.00E-09	9.84E-09	3.16E-08	1.10E-08	1.10E-09	9.84E-09	2.20E-08	2.73E-09	1.96E-10	3.22E-09	6.14E-09	2.11E-09	1.09E-10	1.47E-09	3.69E-09
702	565482.1	4221957	2.068E-08	1.00E-09	9.80E-09	3.15E-08	1.10E-08	1.10E-09	9.80E-09	2.19E-08	2.72E-09	1.96E-10	3.21E-09	6.12E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
703	565472.2	4221957	2.059E-08	1.00E-09	9.76E-09	3.14E-08	1.09E-08	1.10E-09	9.76E-09	2.18E-08	2.70E-09	1.96E-10	3.19E-09	6.09E-09	2.09E-09	1.09E-10	1.46E-09	3.66E-09
704	565462.3	4221957	2.05E-08	1.00E-09	9.71E-09	3.12E-08	1.09E-08	1.10E-09	9.71E-09	2.17E-08	2.69E-09	1.96E-10	3.18E-09	6.07E-09	2.08E-09	1.09E-10	1.45E-09	3.64E-09
705	565452.4	4221958	2.041E-08	1.00E-09	9.67E-09	3.11E-08	1.08E-08	1.10E-09	9.67E-09	2.16E-08	2.68E-09	1.96E-10	3.16E-09	6.04E-09	2.07E-09	1.09E-10	1.44E-09	3.63E-09
706	565442.5	4221958	2.032E-08	1.00E-09	9.63E-09	3.10E-08	1.08E-08	1.10E-09	9.63E-09	2.15E-08	2.67E-09	1.96E-10	3.15E-09	6.02E-09	2.07E-09	1.09E-10	1.44E-09	3.61E-09
707	565432.6	4221958	2.024E-08	1.00E-09	9.59E-09	3.08E-08	1.07E-08	1.10E-09	9.59E-09	2.14E-08	2.66E-09	1.96E-10	3.14E-09	5.99E-09	2.06E-09	1.09E-10	1.43E-09	3.60E-09
708	565422.7	4221958	2.015E-08	1.00E-09	9.55E-09	3.07E-08	1.07E-08	1.10E-09	9.55E-09	2.13E-08	2.65E-09	1.96E-10	3.12E-09	5.97E-09	2.05E-09	1.09E-10	1.43E-09	3.58E-09
709	565412.8	4221958	2.007E-08	1.00E-09	9.51E-09	3.06E-08	1.06E-08	1.10E-09	9.51E-09	2.12E-08	2.64E-09	1.96E-10	3.11E-09	5.94E-09	2.04E-09	1.09E-10	1.42E-09	3.57E-09
710	565402.9	4221958	1.999E-08	1.00E-09	9.47E-09	3.05E-08	1.06E-08	1.10E-09	9.47E-09	2.12E-08	2.63E-09	1.96E-10	3.10E-09	5.92E-09	2.03E-09	1.09E-10	1.41E-09	3.55E-09
711	565393	4221958	1.992E-08	1.00E-09	9.44E-09	3.04E-08	1.06E-08	1.10E-09	9.44E-09	2.11E-08	2.62E-09	1.96E-10	3.09E-09	5.90E-09	2.02E-09	1.09E-10	1.41E-09	3.54E-09
712	565383.1	4221958	1.986E-08	1.00E-09	9.41E-09	3.03E-08	1.05E-08	1.10E-09	9.41E-09	2.10E-08	2.61E-09	1.96E-10	3.08E-09	5.88E-09	2.02E-09	1.09E-10	1.40E-09	3.53E-09
713	565373.2	4221958	1.98E-08	1.00E-09	9.38E-09	3.02E-08	1.05E-08	1.10E-09	9.38E-09	2.10E-08	2.60E-09	1.96E-10	3.07E-09	5.87E-09	2.01E-09	1.09E-10	1.40E-09	3.52E-09
714	565363.3	4221958	1.976E-08	1.00E-09	9.36E-09	3.01E-08	1.05E-08	1.10E-09	9.36E-09	2.09E-08	2.59E-09	1.96E-10	3.06E-09	5.85E-09	2.01E-09	1.09E-10	1.40E-09	3.51E-09
715	565353.4	4221958	1.972E-08	1.00E-09	9.34E-09	3.01E-08	1.05E-08	1.10E-09	9.34E-09	2.09E-08	2.59E-09	1.96E-10	3.06E-09	5.84E-09	2.00E-09	1.09E-10	1.39E-09	3.51E-09
716	565343.5	4221958	1.97E-08	1.00E-09	9.33E-09	3.00E-08	1.04E-08	1.10E-09	9.33E-09	2.09E-08	2.59E-09	1.96E-10	3.05E-09	5.84E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
717	565333.6	4221958	1.967E-08	1.00E-09	9.32E-09	3.00E-08	1.04E-08	1.10E-09	9.32E-09	2.09E-08	2.58E-09	1.96E-10	3.05E-09	5.83E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
718	565323.7	4221958	1.966E-08	1.00E-09	9.32E-09	3.00E-08	1.04E-08	1.10E-09	9.32E-09	2.08E-08	2.58E-09	1.96E-10	3.05E-09	5.83E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
719	565313.8	4221958	1.966E-08	1.00E-09	9.31E-09	3.00E-08	1.04E-08	1.10E-09	9.31E-09	2.08E-08	2.58E-09	1.96E-10	3.05E-09	5.82E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
720	565303.9	4221958	1.966E-08	1.00E-09	9.31E-09	3.00E-08	1.04E-08	1.10E-09	9.31E-09	2.08E-08	2.58E-09	1.96E-10	3.05E-09	5.83E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
721	565294	4221958	1.967E-08	1.00E-09	9.32E-09	3.00E-08	1.04E-08	1.10E-09	9.32E-09	2.08E-08	2.58E-09	1.96E-10	3.05E-09	5.83E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
722	565284	4221958	1.968E-08	1.00E-09	9.32E-09	3.00E-08	1.04E-08	1.10E-09	9.32E-09	2.09E-08	2.58E-09	1.96E-10	3.05E-09	5.83E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
723	565537.1	4221962	2.159E-08	1.00E-09	1.02E-08	3.28E-08	1.14E-08	1.10E-09	1.02E-08	2.28E-08	2.84E-09	1.96E-10	3.35E-09	6.38E-09	2.19E-09	1.09E-10	1.53E-09	3.83E-09
724	565545.8	4221966	2.203E-08	1.00E-09	1.04E-08	3.35E-08	1.17E-08	1.10E-09	1.04E-08	2.32E-08	2.89E-09	1.96E-10	3.42E-09	6.51E-09	2.24E-09	1.09E-10	1.56E-09	3.91E-09
725	565554.6	4221969	2.247E-08	1.00E-09	1.06E-08	3.41E-08	1.19E-08	1.10E-09	1.06E-08	2.37E-08	2.95E-09	1.96E-10	3.48E-09	6.63E-09	2.28E-09	1.09E-10	1.59E-09	3.98E-09
726	565563.4	4221973	2.29E-08	1.00E-09	1.09E-08	3.48E-08	1.21E-08	1.10E-09	1.09E-08	2.41E-08	3.01E-09	1.96E-10	3.55E-09	6.75E-09	2.33E-09	1.09E-10	1.62E-09	4.06E-09
727	565572.2	4221976	2.334E-08	1.00E-09	1.11E-08	3.54E-08	1.24E-08	1.10E-09	1.11E-08	2.45E-08	3.06E-09	1.96E-10	3.62E-09	6.88E-09	2.37E-09	1.09E-10	1.65E-09	4.13E-09
728	565598.5	4221987	2.462E-08	1.00E-09	1.17E-08	3.73E-08	1.31E-08	1.10E-09	1.17E-08	2.58E-08	3.23E-09	1.96E-10	3.82E-09	7.25E-09	2.50E-09	1.09E-10	1.74E-09	4.35E-09
729	565607.3	4221991	2.504E-08	1.00E-09	1.19E-08	3.79E-08	1.33E-08	1.10E-09	1.19E-08	2.62E-08	3.29E-09	1.96E-10	3.88E-09	7.36E-09	2.54E-09	1.09E-10	1.77E-09	4.42E-09
730	565616.1	4221995	2.544E-08	1.00E-09	1.21E-08	3.85E-08	1.35E-08	1.10E-09	1.21E-08	2.66E-08	3.34E-09	1.96E-10	3.94E-09	7.48E-09	2.59E-09	1.09E-10	1.80E-09	4.49E-09
731	565624.8	4221998	2.584E-08	1.00E-09	1.22E-08	3.91E-08	1.37E-08	1.10E-09	1.22E-08	2.70E-08	3.39E-09	1.96E-10	4.01E-09	7.59E-09	2.63E-09	1.09E-10	1.83E-09	4.56E-09
732	565633.6	4222002	2.621E-08	1.00E-09	1.24E-08	3.96E-08	1.39E-08	1.10E-09	1.24E-08	2.74E-08	3.44E-09	1.96E-10	4.06E-09	7.70E-09	2.66E-09	1.09E-10	1.85E-09	4.63E-09
733	565642.4	4222005	2.658E-08	1.00E-09	1.26E-08	4.02E-08	1.41E-08	1.10E-09	1.26E-08	2.78E-08	3.49E-09	1.96E-10	4.12E-09	7.81E-09	2.70E-09	1.09E-10	1.88E-09	4.69E-09
734	565651.2	4222009	2.693E-08	1.00E-09	1.28E-08	4.07E-08	1.43E-08	1.10E-09	1.28E-08	2.81E-08	3.54E-09	1.96E-10	4.18E-09	7.91E-09	2.74E-09	1.09E-10	1.90E-09	4.75E-09
735	565660	4222013	2.727E-08	1.00E-09	1.29E-08	4.12E-08	1.45E-08	1.10E-09	1.29E-08	2.85E-08	3.58E-09	1.96E-10	4.23E-09	8.00E-09	2.77E-09	1.09E-10	1.93E-09	4.81E-09
736	565668.7	4222016	2.758E-08	1.00E-09	1.31E-08	4.17E-08	1.46E-08	1.10E-09	1.31E-08	2.88E-08	3.62E-09	1.96E-10	4.28E-09	8.09E-09	2.80E-09	1.09E-10	1.95E-09	4.86E-09
737	565677.5	4222020	2.787E-08	1.00E-09	1.32E-08	4.21E-08	1.48E-08	1.10E-09	1.32E-08	2.91E-08	3.66E-09	1.96E-10	4.32E-09	8.18E-09	2.83E-09	1.09E-10	1.97E-09	4.91E-09
738	565529.2	4221949	2.022E-08	1.00E-09	9.58E-09	3.08E-08	1.07E-08	1.10E-09	9.58E-09	2.14E-08	2.66E-09	1.96E-10	3.13E-09	5.99E-09	2.05E-09	1.09E-10	1.43E-09	3.59E-09
739	565538.2	4221953	2.064E-08	1.00E-09	9.78E-09	3.14E-08	1.09E-08	1.10E-09	9.78E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
740	565547.3	4221956	2.107E-08	1.00E-09	9.98E-09	3.21E-08	1.12E-08	1.10E-09	9.98E-09	2.23E-08	2.77E-09	1.96E-10	3.27E-09	6.23E-09	2.14E-09	1.09E-10	1.49E-09	3.74E-09
741	565556.4	4221960	2.149E-08	1.00E-09	1.02E-08	3.27E-08	1.14E-08	1.10E-09	1.02E-08	2.27E-08	2.82E-09	1.96E-10	3.33E-09	6.35E-09	2.18E-09	1.09E-10	1.52E-09	3.81E-09
742	565565.5	4221964	2.191E-08	1.00E-09	1.04E-08	3.33E-08	1.16E-08	1.10E-09	1.04E-08	2.31E-08	2.88E-09	1.96E-10	3.40E-09	6.47E-09	2.23E-09	1.09E-10	1.55E-09	3.89E-09
743	565574.6	4221968	2.234E-08	1.00E-09	1.06E-08	3.39E-08	1.18E-08	1.10E-09	1.06E-08	2.35E-08	2.93E-09	1.96E-10	3.46E-09	6.59E-09	2.27E-09	1.09E-10	1.58E-09	3.96E-09
744	565601.8	4221979	2.358E-08	1.00E-09	1.12E-08	3.58E-08	1.25E-08	1.10E-09	1.12E-08	2.48E-08	3.10E-09	1.96E-10	3.65E-09	6.95E-09	2.40E-09	1.09E-10	1.67E-09	4.17E-09
745	565610.9	4221983	2.398E-08	1.00E-09	1.14E-08	3.63E-08	1.27E-08	1.10E-09	1.14E-08	2.52E-08	3.15E-09	1.96E-10	3.72E-09	7.06E-09	2.44E-09	1.09E-10	1.70E-09	4.24E-09
746	565629.1	4221990	2.476E-08	1.00E-09	1.17E-08	3.75E-08	1.31E-08	1.10E-09	1.17E-08	2.60E-08	3.25E-09	1.96E-10	3.84E-09	7.29E-09	2.52E-09	1.09E-10	1.75E-09	4.38E-09
747	565638.1	4221994	2.514E-08	1.00E-09	1.19E-08	3.81E-08	1.33E-08	1.10E-09	1.19E-08	2.63E-08	3.30E-09	1.96E-10	3.90E-09	7.39E-09	2.55E-09	1.09E-10	1.78E-09	4.44E-09
748	565647.2	4221998	2.549E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.95E-09	7.50E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
749	565656.3	4222001	2.584E-08	1.00E-09	1.22E-08	3.91E-08	1.37E-08	1.10E-09	1.22E-08	2.70E-08	3.39E-09	1.96E-10	4.01E-09	7.59E-09	2.63E-09	1.09E-10	1.83E-09	4.56E-09
750	565665.4	4222005	2.616E-08	1.00E-09	1.24E-08	3.96E-08	1.39E-08	1.10E-09	1.24E-08	2.74E-08	3.44E-09	1.96E-10	4.06E-09	7.69E-09	2.66E-09	1.09E-10	1.85E-09	4.62E-09
751	565674.5	4222009	2.647E-08	1.00E-09	1.25E-08	4.00E-08	1.40E-08	1.10E-09	1.25E-08	2.77E-08	3.48E-09	1.96E-10	4.10E-09	7.78E-09	2.69E-09	1.09E-10	1.87E-09	4.67E-09
752	565683.5	4222012	2.675E-08	1.00E-09	1.27E-08	4.04E-08	1.42E-08	1.10E-09	1.27E-08	2.80E-08	3.51E-09	1.96E-10	4.15E-09	7.86E-09	2.72E-09	1.09E-10	1.89E-09	4.72E-09
753	565692.6	4222016	2.701E-08	1.00E-09	1.28E-08	4.08E-08	1.43E-08	1.10E-09	1.28E-08	2.82E-08	3.55E-09	1.96E-10	4.19E-09	7.93E-09	2.74E-09	1.09E-10	1.91E-09	4.76E-09
754	565701.7	4222020	2.725E-08	1.00E-09	1.29E-08	4.12E-08	1.44E-08	1.10E-09	1.29E-08	2.85E-08	3.58E-09	1.96E-10	4.22E-09	8.00E-09	2.77E-09	1.09E-10	1.93E-09	4.81E-09
755	565528.9	4221939	1.929E-08	1.00E-09	9.14E-09	2.94E-08	1.02E-08	1.10E-09	9.14E-09	2.05E-08	2.53E-09	1.96E-10	2.99E-09	5.72E-09	1.96E-09	1.09E-10	1.36E-09	3.43E-09
756	565537.9	4221943	1.969E-08	1.00E-09	9.33E-09	3.00E-08	1.04E-08	1.10E-09	9.33E-09	2.09E-08	2.59E-09	1.96E-10	3.05E-09	5.83E-09	2.00E-09	1.09E-10	1.39E-09	3.50E-09
757	565546.9	4221946	2.008E-08	1.00E-09	9.51E-09	3.06E-08	1.06E-08	1.10E-09	9.51E-09	2.13E-08	2.64E-09	1.96E-10	3.11E-09	5.95E-09	2.04E-09	1.09E-10	1.42E-09	3.57E-09
758	565555.9	4221950	2.048E-08	1.00E-09	9.70E-09	3.12E-08	1.09E-08	1.10E-09	9.70E-09	2.17E-08	2.69E-09	1.96E-10	3.17E-09	6.06E-09	2.08E-09	1.09E-10	1.45E-09	3.64E-09
759	565564.8	4221954	2.087E-08	1.00E-09	9.89E-09	3.18E-08	1.11E-08	1.10E-09	9.89E-09	2.21E-08	2.74E-09	1.96E-10	3.24E-09	6.17E-09	2.12E-09	1.09E-10	1.48E-09	3.71E-09
760	565573.8	4221958	2.126E-08	1.00E-09	1.01E-08	3.23E-08	1.13E-08	1.10E-09	1.01E-08	2.24E-08	2.79E-09	1.96E-10	3.30E-09	6.29E-09	2.16E-09	1.09E-10	1.50E-09	3.77E-09
761	565600.8	4221969	2.243E-08	1.00E-09	1.06E-08	3.41E-08	1.19E-08	1.10E-09	1.06E-08	2.36E-08	2.95E-09	1.96E-10	3.48E-09	6.62E-09	2.28E-09	1.09E-10	1.59E-09	3.97E-09
762	565609.8	4221972	2.28E-08	1.00E-09	1.08E-08	3.46E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	2.99E-09	1.96E-10	3.53E-09	6.73E-09	2.32E-09	1.09E-10	1.61E-09	4.04E-09
763	565618.8	4221976	2.318E-08	1.00E-09	1.10E-08	3.52E-08	1.23E-08	1.10E-09	1.10E-08	2.44E-08	3.04E-09	1.96E-10	3.59E-09	6.83E-09	2.36E-09	1.09E-10	1.64E-09	4.10E-09
764	565627.8	4221980	2.354E-08	1.00E-09	1.12E-08	3.57E-08	1.25E-08	1.10E-09	1.12E-08	2.47E-08	3.09E-09	1.96E-10	3.65E-09	6.94E-09	2.39E-09	1.09E-10	1.66E-09	4.17E-09
765	565636.8	4221983	2.39E-08	1.00E-09	1.13E-08	3.62E-08	1.27E-08	1.10E-09	1.13E-08	2.51E-08	3.14E-09	1.96E-10	3.70E-09	7.04E-09	2.43E-09	1.09E-10	1.69E-09	4.23E-09
766	565645.8	4221987	2.424E-08	1.00E-09	1.15E-08	3.67E-08	1.29E-08	1.10E-09	1.15E-08	2.54E-08	3.18E-09	1.96E-10	3.76E-09	7.14E-09	2.46E-09	1.09E-10	1.71E-09	4.29E-09
767	565654.8	4221991	2.457E-08	1.00E-09	1.16E-08	3.72E-08	1.30E-08	1.10E-09	1.16E-08	2.58E-08	3.23E-09	1.96E-10	3.81E-09	7.23E-09	2.50E-09	1.09E-10

782	565625.7	4221959	2.133E-08	1.00E-09	1.01E-08	3.24E-08	1.13E-08	1.10E-09	1.01E-08	2.25E-08	2.80E-09	1.96E-10	3.31E-09	6.30E-09	2.17E-09	1.09E-10	1.51E-09	3.79E-09
783	565634.5	4221963	2.165E-08	1.00E-09	1.03E-08	3.29E-08	1.15E-08	1.10E-09	1.03E-08	2.28E-08	2.84E-09	1.96E-10	3.36E-09	6.40E-09	2.20E-09	1.09E-10	1.53E-09	3.84E-09
784	565643.4	4221966	2.196E-08	1.00E-09	1.04E-08	3.34E-08	1.16E-08	1.10E-09	1.04E-08	2.32E-08	2.88E-09	1.96E-10	3.40E-09	6.49E-09	2.23E-09	1.09E-10	1.55E-09	3.89E-09
785	565652.2	4221970	2.227E-08	1.00E-09	1.06E-08	3.38E-08	1.18E-08	1.10E-09	1.06E-08	2.35E-08	2.92E-09	1.96E-10	3.45E-09	6.57E-09	2.26E-09	1.09E-10	1.57E-09	3.95E-09
786	565661.1	4221973	2.256E-08	1.00E-09	1.07E-08	3.43E-08	1.20E-08	1.10E-09	1.07E-08	2.38E-08	2.96E-09	1.96E-10	3.50E-09	6.66E-09	2.29E-09	1.09E-10	1.60E-09	4.00E-09
787	565669.9	4221977	2.284E-08	1.00E-09	1.08E-08	3.47E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	3.00E-09	1.96E-10	3.54E-09	6.74E-09	2.32E-09	1.09E-10	1.62E-09	4.05E-09
788	565678.8	4221981	2.311E-08	1.00E-09	1.09E-08	3.51E-08	1.23E-08	1.10E-09	1.09E-08	2.43E-08	3.04E-09	1.96E-10	3.58E-09	6.81E-09	2.35E-09	1.09E-10	1.63E-09	4.09E-09
789	565687.6	4221984	2.337E-08	1.00E-09	1.11E-08	3.54E-08	1.24E-08	1.10E-09	1.11E-08	2.46E-08	3.07E-09	1.96E-10	3.62E-09	6.89E-09	2.37E-09	1.09E-10	1.65E-09	4.14E-09
790	565696.5	4221988	2.361E-08	1.00E-09	1.12E-08	3.58E-08	1.25E-08	1.10E-09	1.12E-08	2.48E-08	3.10E-09	1.96E-10	3.66E-09	6.96E-09	2.40E-09	1.09E-10	1.67E-09	4.18E-09
791	565705.3	4221992	2.383E-08	1.00E-09	1.13E-08	3.61E-08	1.26E-08	1.10E-09	1.13E-08	2.50E-08	3.13E-09	1.96E-10	3.69E-09	7.02E-09	2.42E-09	1.09E-10	1.69E-09	4.22E-09
792	565714.2	4221995	2.404E-08	1.00E-09	1.14E-08	3.64E-08	1.27E-08	1.10E-09	1.14E-08	2.52E-08	3.16E-09	1.96E-10	3.73E-09	7.08E-09	2.44E-09	1.09E-10	1.70E-09	4.25E-09
793	565723	4221999	2.424E-08	1.00E-09	1.15E-08	3.67E-08	1.28E-08	1.10E-09	1.15E-08	2.54E-08	3.18E-09	1.96E-10	3.76E-09	7.14E-09	2.46E-09	1.09E-10	1.71E-09	4.29E-09
794	565735.5	4222011	2.526E-08	1.00E-09	1.20E-08	3.82E-08	1.34E-08	1.10E-09	1.20E-08	2.65E-08	3.32E-09	1.96E-10	3.92E-09	7.43E-09	2.57E-09	1.09E-10	1.79E-09	4.46E-09
795	565739.2	4222020	2.614E-08	1.00E-09	1.24E-08	3.95E-08	1.39E-08	1.10E-09	1.24E-08	2.73E-08	3.43E-09	1.96E-10	4.05E-09	7.68E-09	2.66E-09	1.09E-10	1.85E-09	4.62E-09
796	565538	4221903	1.65E-08	1.00E-09	7.82E-09	2.53E-08	8.75E-09	1.10E-09	7.82E-09	1.77E-08	2.17E-09	1.96E-10	2.56E-09	4.92E-09	1.68E-09	1.09E-10	1.17E-09	2.95E-09
797	565547	4221907	1.681E-08	1.00E-09	7.96E-09	2.58E-08	8.91E-09	1.10E-09	7.96E-09	1.80E-08	2.21E-09	1.96E-10	2.61E-09	5.01E-09	1.71E-09	1.09E-10	1.19E-09	3.01E-09
798	565556.1	4221910	1.712E-08	1.00E-09	8.11E-09	2.62E-08	9.07E-09	1.10E-09	8.11E-09	1.83E-08	2.25E-09	1.96E-10	2.65E-09	5.10E-09	1.74E-09	1.09E-10	1.21E-09	3.06E-09
799	565565.1	4221914	1.743E-08	1.00E-09	8.26E-09	2.67E-08	9.24E-09	1.10E-09	8.26E-09	1.86E-08	2.29E-09	1.96E-10	2.70E-09	5.19E-09	1.77E-09	1.09E-10	1.23E-09	3.11E-09
800	565574.1	4221918	1.774E-08	1.00E-09	8.41E-09	2.72E-08	9.41E-09	1.10E-09	8.41E-09	1.89E-08	2.33E-09	1.96E-10	2.75E-09	5.28E-09	1.80E-09	1.09E-10	1.25E-09	3.17E-09
801	565637.4	4221944	1.987E-08	1.00E-09	9.41E-09	3.03E-08	1.05E-08	1.10E-09	9.41E-09	2.10E-08	2.61E-09	1.96E-10	3.08E-09	5.88E-09	2.02E-09	1.09E-10	1.40E-09	3.53E-09
802	565646.5	4221947	2.016E-08	1.00E-09	9.55E-09	3.07E-08	1.07E-08	1.10E-09	9.55E-09	2.13E-08	2.65E-09	1.96E-10	3.12E-09	5.97E-09	2.05E-09	1.09E-10	1.43E-09	3.58E-09
803	565655.5	4221951	2.044E-08	1.00E-09	9.68E-09	3.11E-08	1.08E-08	1.10E-09	9.68E-09	2.16E-08	2.68E-09	1.96E-10	3.17E-09	6.05E-09	2.08E-09	1.09E-10	1.45E-09	3.63E-09
804	565664.6	4221955	2.071E-08	1.00E-09	9.81E-09	3.15E-08	1.10E-08	1.10E-09	9.81E-09	2.19E-08	2.72E-09	1.96E-10	3.21E-09	6.13E-09	2.10E-09	1.09E-10	1.46E-09	3.68E-09
805	565673.6	4221959	2.098E-08	1.00E-09	9.94E-09	3.19E-08	1.11E-08	1.10E-09	9.94E-09	2.22E-08	2.75E-09	1.96E-10	3.25E-09	6.20E-09	2.13E-09	1.09E-10	1.48E-09	3.72E-09
806	565682.7	4221962	2.123E-08	1.00E-09	1.01E-08	3.23E-08	1.13E-08	1.10E-09	1.01E-08	2.24E-08	2.79E-09	1.96E-10	3.29E-09	6.28E-09	2.16E-09	1.09E-10	1.50E-09	3.77E-09
807	565691.7	4221966	2.148E-08	1.00E-09	1.02E-08	3.27E-08	1.14E-08	1.10E-09	1.02E-08	2.27E-08	2.82E-09	1.96E-10	3.33E-09	6.35E-09	2.18E-09	1.09E-10	1.52E-09	3.81E-09
808	565700.7	4221970	2.171E-08	1.00E-09	1.03E-08	3.30E-08	1.15E-08	1.10E-09	1.03E-08	2.29E-08	2.85E-09	1.96E-10	3.37E-09	6.41E-09	2.21E-09	1.09E-10	1.54E-09	3.85E-09
809	565709.8	4221973	2.193E-08	1.00E-09	1.04E-08	3.33E-08	1.16E-08	1.10E-09	1.04E-08	2.31E-08	2.88E-09	1.96E-10	3.40E-09	6.48E-09	2.23E-09	1.09E-10	1.55E-09	3.89E-09
810	565718.8	4221977	2.214E-08	1.00E-09	1.05E-08	3.36E-08	1.17E-08	1.10E-09	1.05E-08	2.33E-08	2.91E-09	1.96E-10	3.43E-09	6.54E-09	2.25E-09	1.09E-10	1.57E-09	3.92E-09
811	565727.9	4221981	2.233E-08	1.00E-09	1.06E-08	3.39E-08	1.18E-08	1.10E-09	1.06E-08	2.35E-08	2.93E-09	1.96E-10	3.46E-09	6.59E-09	2.27E-09	1.09E-10	1.58E-09	3.96E-09
812	565736.9	4221985	2.251E-08	1.00E-09	1.07E-08	3.42E-08	1.19E-08	1.10E-09	1.07E-08	2.37E-08	2.96E-09	1.96E-10	3.49E-09	6.64E-09	2.29E-09	1.09E-10	1.59E-09	3.99E-09
813	565749.7	4221997	2.345E-08	1.00E-09	1.11E-08	3.56E-08	1.24E-08	1.10E-09	1.11E-08	2.46E-08	3.08E-09	1.96E-10	3.64E-09	6.91E-09	2.38E-09	1.09E-10	1.66E-09	4.15E-09
814	565753.5	4222006	2.425E-08	1.00E-09	1.15E-08	3.67E-08	1.29E-08	1.10E-09	1.15E-08	2.54E-08	3.18E-09	1.96E-10	3.76E-09	7.14E-09	2.46E-09	1.09E-10	1.71E-09	4.29E-09
815	565757.2	4222015	2.507E-08	1.00E-09	1.19E-08	3.79E-08	1.33E-08	1.10E-09	1.19E-08	2.63E-08	3.29E-09	1.96E-10	3.89E-09	7.37E-09	2.55E-09	1.09E-10	1.77E-09	4.43E-09
816	565537.4	4221883	1.519E-08	1.00E-09	7.20E-09	2.34E-08	8.05E-09	1.10E-09	7.20E-09	1.64E-08	1.99E-09	1.96E-10	2.35E-09	4.55E-09	1.54E-09	1.09E-10	1.07E-09	2.73E-09
817	565546.3	4221886	1.546E-08	1.00E-09	7.32E-09	2.38E-08	8.20E-09	1.10E-09	7.32E-09	1.66E-08	2.03E-09	1.96E-10	2.40E-09	4.62E-09	1.57E-09	1.09E-10	1.09E-09	2.77E-09
818	565555.2	4221890	1.573E-08	1.00E-09	7.45E-09	2.42E-08	8.34E-09	1.10E-09	7.45E-09	1.69E-08	2.07E-09	1.96E-10	2.44E-09	4.70E-09	1.60E-09	1.09E-10	1.11E-09	2.82E-09
819	565564.1	4221894	1.6E-08	1.00E-09	7.58E-09	2.46E-08	8.48E-09	1.10E-09	7.58E-09	1.72E-08	2.10E-09	1.96E-10	2.48E-09	4.78E-09	1.63E-09	1.09E-10	1.13E-09	2.87E-09
820	565573	4221897	1.628E-08	1.00E-09	7.71E-09	2.50E-08	8.63E-09	1.10E-09	7.71E-09	1.74E-08	2.14E-09	1.96E-10	2.52E-09	4.86E-09	1.65E-09	1.09E-10	1.15E-09	2.91E-09
821	565671	4221938	1.917E-08	1.00E-09	9.08E-09	2.93E-08	1.02E-08	1.10E-09	9.08E-09	2.03E-08	2.52E-09	1.96E-10	2.97E-09	5.68E-09	1.95E-09	1.09E-10	1.36E-09	3.41E-09
822	565679.9	4221941	1.94E-08	1.00E-09	9.19E-09	2.96E-08	1.03E-08	1.10E-09	9.19E-09	2.06E-08	2.55E-09	1.96E-10	3.01E-09	5.75E-09	1.97E-09	1.09E-10	1.37E-09	3.45E-09
823	565688.8	4221945	1.964E-08	1.00E-09	9.30E-09	2.99E-08	1.04E-08	1.10E-09	9.30E-09	2.08E-08	2.58E-09	1.96E-10	3.04E-09	5.82E-09	2.00E-09	1.09E-10	1.39E-09	3.49E-09
824	565697.7	4221949	1.986E-08	1.00E-09	9.41E-09	3.03E-08	1.05E-08	1.10E-09	9.41E-09	2.10E-08	2.61E-09	1.96E-10	3.08E-09	5.88E-09	2.02E-09	1.09E-10	1.40E-09	3.53E-09
825	565706.6	4221952	2.007E-08	1.00E-09	9.51E-09	3.06E-08	1.06E-08	1.10E-09	9.51E-09	2.13E-08	2.64E-09	1.96E-10	3.11E-09	5.94E-09	2.04E-09	1.09E-10	1.42E-09	3.57E-09
826	565715.5	4221956	2.027E-08	1.00E-09	9.61E-09	3.09E-08	1.07E-08	1.10E-09	9.61E-09	2.15E-08	2.66E-09	1.96E-10	3.14E-09	6.00E-09	2.06E-09	1.09E-10	1.43E-09	3.60E-09
827	565724.4	4221960	2.047E-08	1.00E-09	9.70E-09	3.12E-08	1.09E-08	1.10E-09	9.70E-09	2.16E-08	2.69E-09	1.96E-10	3.17E-09	6.06E-09	2.08E-09	1.09E-10	1.45E-09	3.64E-09
828	565733.3	4221963	2.065E-08	1.00E-09	9.78E-09	3.14E-08	1.09E-08	1.10E-09	9.78E-09	2.18E-08	2.71E-09	1.96E-10	3.20E-09	6.11E-09	2.10E-09	1.09E-10	1.46E-09	3.67E-09
829	565742.2	4221967	2.082E-08	1.00E-09	9.86E-09	3.17E-08	1.10E-08	1.10E-09	9.86E-09	2.20E-08	2.73E-09	1.96E-10	3.23E-09	6.16E-09	2.12E-09	1.09E-10	1.47E-09	3.70E-09
830	565751.2	4221971	2.097E-08	1.00E-09	9.94E-09	3.19E-08	1.11E-08	1.10E-09	9.94E-09	2.22E-08	2.75E-09	1.96E-10	3.25E-09	6.20E-09	2.13E-09	1.09E-10	1.48E-09	3.72E-09
831	565763.8	4221983	2.18E-08	1.00E-09	1.03E-08	3.31E-08	1.16E-08	1.10E-09	1.03E-08	2.30E-08	2.86E-09	1.96E-10	3.38E-09	6.44E-09	2.22E-09	1.09E-10	1.54E-09	3.87E-09
832	565767.5	4221992	2.251E-08	1.00E-09	1.07E-08	3.42E-08	1.19E-08	1.10E-09	1.07E-08	2.37E-08	2.96E-09	1.96E-10	3.49E-09	6.64E-09	2.29E-09	1.09E-10	1.59E-09	3.99E-09
833	565771.2	4222001	2.323E-08	1.00E-09	1.10E-08	3.52E-08	1.23E-08	1.10E-09	1.10E-08	2.44E-08	3.05E-09	1.96E-10	3.60E-09	6.85E-09	2.36E-09	1.09E-10	1.64E-09	4.11E-09
834	565774.9	4222010	2.396E-08	1.00E-09	1.14E-08	3.63E-08	1.27E-08	1.10E-09	1.14E-08	2.52E-08	3.15E-09	1.96E-10	3.71E-09	7.06E-09	2.44E-09	1.09E-10	1.69E-09	4.24E-09
835	565778.6	4222019	2.471E-08	1.00E-09	1.17E-08	3.74E-08	1.31E-08	1.10E-09	1.17E-08	2.59E-08	3.25E-09	1.96E-10	3.83E-09	7.27E-09	2.51E-09	1.09E-10	1.75E-09	4.37E-09
836	565538	4221863	1.407E-08	1.00E-09	6.66E-09	2.17E-08	7.46E-09	1.10E-09	6.66E-09	1.52E-08	1.85E-09	1.96E-10	2.18E-09	4.22E-09	1.43E-09	1.09E-10	9.95E-10	2.53E-09
837	565547.1	4221867	1.431E-08	1.00E-09	6.78E-09	2.21E-08	7.59E-09	1.10E-09	6.78E-09	1.55E-08	1.88E-09	1.96E-10	2.22E-09	4.29E-09	1.45E-09	1.09E-10	1.01E-09	2.58E-09
838	565556.2	4221870	1.456E-08	1.00E-09	6.90E-09	2.25E-08	7.72E-09	1.10E-09	6.90E-09	1.57E-08	1.91E-09	1.96E-10	2.26E-09	4.37E-09	1.48E-09	1.09E-10	1.03E-09	2.62E-09
839	565565.3	4221874	1.481E-08	1.00E-09	7.02E-09	2.28E-08	7.85E-09	1.10E-09	7.02E-09	1.60E-08	1.94E-09	1.96E-10	2.30E-09	4.44E-09	1.50E-09	1.09E-10	1.05E-09	2.66E-09
840	565574.4	4221878	1.506E-08	1.00E-09	7.13E-09	2.32E-08	7.98E-09	1.10E-09	7.13E-09	1.62E-08	1.98E-09	1.96E-10	2.33E-09	4.51E-09	1.53E-09	1.09E-10	1.07E-09	2.70E-09
841	565719.7	4221938	1.877E-08	1.00E-09	8.89E-09	2.87E-08	9.95E-09	1.10E-09	8.89E-09	1.99E-08	2.46E-09	1.96E-10	2.91E-09	5.57E-09	1.91E-09	1.09E-10	1.33E-09	3.34E-09
842	565728.8	4221941	1.895E-08	1.00E-09	8.98E-09	2.89E-08	1.00E-08	1.10E-09	8.98E-09	2.01E-08	2.49E-09	1.96E-10	2.94E-09	5.62E-09	1.93E-09	1.09E-10	1.34E-09	3.38E-09
843	565737.8	4221945	1.913E-08	1.00E-09	9.06E-09	2.92E-08	1.01E-08	1.10E-09	9.06E-09	2.03E-08	2.51E-09	1.96E-10	2.96E-09	5.67E-09	1.94E-09	1.09E-10	1.35E-09	3.41E-09
844	565746.9	4221949	1.929E-08	1.00E-09	9.14E-09	2.94E-08	1.02E-08	1.10E-09	9.14E-09	2.05E-08	2.53E-09	1.96E-10	2.99E-09	5.72E-09	1.96E-09	1.09E-10	1.36E-09	3.43E-09
845	565756	4221953	1.944E-08	1.00E-09	9.21E-09	2.97E-08	1.03E-08	1.10E-09	9.21E-09	2.06E-08	2.55E-09	1.96E-10	3.01E-09	5.76E-09	1.98E-09	1.09E-10	1.38E-09	3.46E-09
846	565765.1	4221956	1.959E-08	1.00E-09	9.28E-09	2.99E-08	1.04E-08	1.10E-09	9.28E-09	2.08E-08	2.57E-09	1.96E-10	3.04E-09	5.80E-09	1.99E-09	1.09E-10	1.39E-09	3.49E-09
847	565781.7	4221978	2.099E-08	1.00E-09	9.95E-09	3.19E-08	1.11E-08	1.10E-09	9.95E-09	2.22E-08	2.76E-09	1.96E-10	3.25E-09	6.21E-09	2.13E-09	1.09E-10	1.48E-09	3.73E-09
848	565785.5	4221987	2.165E-08	1.00E-09	1.03E-08	3.29E-08	1.15E-08	1.10E-09	1.03E-08	2.28E-08	2.84E-09	1.96E-10	3.36E-09	6.40E-09	2.20E-09	1.09E-10	1.53E-09	3.84E-09
849	565789.3	4221996	2.233E-08	1.00E-09	1.06E-08	3.39E-08	1.18E-08	1.10E-09	1.06E-08	2.35E-08	2.93E-09	1.96E-10	3.46E-09	6.59E-09	2.27E-09	1.09E-10	1.58E-09	3.96E-09
850	565793.1	4222005	2.302E-08	1.00E-09	1.09E-08	3.49E-08	1.22E-08	1.10E-09	1.09E-08	2.42E-08	3.02E-09	1.96E-10	3.57E-09	6.79E-09	2.34E-09	1.09E-10	1.63E-09	4.08E-09
851	565537.5	4221843	1.304E-08	1.00E-09	6.18E-09	2.02E-08	6.91E-09	1.10E-09	6.18E-09	1.42E-08	1.71E-09	1.96E-10	2.02E-09	3.93E-09	1.33E-09	1.09E-10	9.22E-10	2.36E-09
852	565546.5	4221846	1.326E-08	1.00E-09	6.28E-09	2.05E-08	7.03E-09	1.10E-09	6.28E-09	1.44E-08	1.74E-09	1.96E-10	2.06E-09	3.99E-09	1.35E-09	1.09E-10	9.38E-10	2.39E-09
853	565555.4	4221850	1.348E-08	1.00E-09	6.39E-09	2.09E-08	7.15E-09	1.10E-09	6.39E-09	1.46E-08	1.77E-09	1.96E-10	2.09E-09	4.06E-09	1.37E-09	1.09E-10	9.53E-10	2.43E-09
854	565564.4	4221854	1.37E-08	1.00E-09	6.49E-09	2.12E-08	7.26E-09	1.10E-09	6.49E-09	1.49E-08	1.80E-09	1.96E-10	2.12E-09	4.12E-09	1.39E-09	1.09E-10	9.69E-10	2.47E-09
855	565573.3	4221857	1.392E-08	1.00E-09	6.59E-09	2.15E-08	7.38E-09	1.10E-09	6.59E-09	1.51E-08	1.83E-09	1.96E-10	2.16E-09	4.18E-09	1.41E-09	1.09E-10	9.84E-10	2.51E-09
856	565761.4	4221935	1.809E-08	1.00E-09	8.57E-09	2.77E-08	9.59E-09	1.10E-09	8.57E-09	1.93E-08	2.38E-09	1.96E-10	2.80E-09	5.38E-09	1.84E-09	1.09E-10	1.28E-09	3.23E-09
857	565538.1	4221823	1.216E-08	1.00E-09	5.76E-09	1.89E-08	6.45E-09	1.10E-09	5.76E-09	1.33E-08	1.60E-09	1.96E-10	1.88E-09	3.68E-09	1.24E-09	1.09E-10	8.60E-10	2.20E-09
858	565547.2	4221827	1.235E-08	1.00E-09	5.85E-09	1.92E-08	6.55E-09	1.10E-09	5.85E-09	1.35E-08	1.62E-09	1.96E-10	1.91E-09	3.73E-09	1.26E-09	1.09E-10	8.74E-10	2.24E-09
859	565556.3	4221830	1.255E-08	1.00E-09	5.95E-09	1.95E-08	6.66E-09	1.10E-09	5.95E-09	1.37E-08	1.65E-09	1.96E-10	1.95E-09	3.79E-09	1.28E-09	1.09E-10	8.88E-10	2.27E-09
860	565565.4	4221834	1.276E-08	1.00E-09	6.04E-09	1.98E-08	6.76E-09	1.10E-09	6.04E-09	1.39E-08	1.68E-09	1.96E-10	1.98E-09	3.85E-09	1.30E-09	1.09E-10	9.02E-10	2.31E-09
861	565574.5	4221838	1.296E-08	1.00E-09	6.14E-09	2.01E-08	6.87E-09	1.10E-09	6.14E-09	1.41E-08	1.70E-09	1.96E-10	2.01E-09	3.91E-09	1.32E-09	1.09E-10	9.17E-10	2.34E-09
862	565855.5	4222059	2.479E-08	1.00E-09	1.17E-08	3.75E-08	1.31E-08	1.10E-09	1.17E-08	2.60E-08	3.26E-09	1.96E-10	3.84E-09	7.29E-09	2.52E-09	1.09E-10	1.75E-09	4.38E-09
863	565859.3	4222068	2.539E-08	1.00E-09	1.20E-08	3.84E-08	1.35E-08	1.10E-09	1.20E-08	2.66E-08	3.33E-09	1.96E-10	3.94E-09	7.47E-09	2.58E-09	1.09E-10	1.80E-09	4.48E-09
864	565863.1	4222077	2.602E-08	1.00E-09	1.23E-08	3.93E-08	1.38E-08	1.10E-09	1.23E-08	2.72E-08	3.42E-09	1.96E-10	4.03E-09	7.65E-09	2.64E-09	1.09E-10	1.84E-09	4.59E-09
865	565866.9	4222086	2.664E-08	1.00E-09	1.26E-08	4.03E-08	1.41E-08	1.10E-09	1.26E-08	2.78E-08	3.50E-09	1.96E-10	4.13E-09	7.83E-09	2.71E-09	1.09E-10	1.88E-09	4.70E-09
866	565870.7	4222095	2.726E-08	1.00E-09	1.29E-08	4.12E-08	1.45E-08	1.10E-09	1.29E-08	2.85E-08	3.58E-09	1.96E-10	4.22E-09	8.00E-09	2.77E-09	1.09E-10	1.93E-09	4.81E-09
867	565874.5	4222105	2.782E-08	1.00E-09	1.32E-08	4.20E-08	1.48E-08	1.10E-09	1.32E-08	2.90E-08	3.65E-09	1.96E-10	4.31E-09	8.16E-09	2.83E-09	1.09E-10	1.97E-09	4.90E-09
868	565537.6	4221803	1.134E-08	1.00E-09	5.37E-09	1.77E-08	6.01E-09	1.10E-09	5.37E-09	1.25E-08	1.49E-09	1.96E-10	1.76E-09	3.44E-09	1.15E-09	1.09E-10	8.02E-10	2.06E-09
869	565546.6	4221806	1.152E-08	1.00E-09	5.46E-09	1.80E-08	6.11E-09	1.10E-09	5.46E-09	1.27E-08	1.51E-09	1.96E-10	1.79E-09	3.49E-09	1.17E-09	1.09E-10	8.15E-10	2.09E-09
870	565555.6	4221810	1.17E-08	1.00E-09	5.54E-09	1.82E-08	6.20E-09	1.10E-09	5.54E-09	1.28E-08	1.54E-09	1.96E-10	1.81E-09	3.55E-09	1.19E-09	1.09E-10	8.27E-10	2.13E-09
871	565564.6	4221814	1.188E-08	1.00E-09	5.63E-09	1.85E-08	6.30E-09	1.10E-09	5.63E-09	1.30E-08	1.56E-09	1.96E-10	1.84E-09	3.60E-09	1.21E-09	1.09E-10	8.40E-10	2.16E-09
872	565573.6	4221818	1.206E-08	1.00E-09	5.71E-09	1.88E-08	6.40E-09	1.10E-09	5.71E-09	1.32E-08	1.58E-09	1.96E-10	1.87E-09	3.65E-09	1.23E-09	1.09E-10	8.53E-10	2.19E-09
873	565582.6	4221821	1.225E-08	1.00E-09	5.80E-09	1.91E-08	6.49E-09	1.10E-09	5.80E-09	1.34E-08	1.61E-09	1.96E-10	1.90E-09	3.70E-09	1.24E-09	1.09E-10	8.66E-10	2.22E-09
874	565846.5	4221989	2.03E-08	1.00E-09	9.62E-09	3.09E-08	1.08E-08	1.10E-09	9.62E-09	2.15E-08	2.67E-09	1.96E-10	3.15E-09	6.01E-09	2.06E-09	1.09E-10	1.44E-09	3.61E-09
875	565850.2	4221998	2.084E-08	1.00E-09	9.87E-09	3.17E-08	1.10E-08	1.10E-09	9.87E-09	2.20E-08	2.74E-09	1.96E-10	3.23E-09	6.16E-09	2.12E-09	1.09E-10	1.47E-09	3.70E-09
876	565853.9	4222007	2.079E-08	1.00E-09	9.85E-09	3.16E-08	1.10E-08	1.10E-09	9.85E-09	2.20E-08	2.73E-09	1.96E-10	3.22E-09	6.15E-09	2.11E-09	1.09E-10	1.47E-09	3.69E-09
877	565857.7	4222016	2.134E-08	1.00E-09	1.01E-08	3.25E-08	1.13E-08	1.10E-09	1.01E-08	2.25E-08	2.80E-09	1.96E-10	3.31E-09	6.31E-09	2.17E-09	1.09E-10	1.51E-09	3.79E-09
878	565872.7	4222052	2.353E-08	1.00E-09	1.11E-08	3.57E-08	1.25E-08	1.10E-09	1.11E-08	2.47E-08	3.09E-09	1.96E-10	3.65E-09	6.93E-09	2.39E-09	1.09E-10	1.66E-09	4.17E-09
879	565876.4	4222061	2.409E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.16E-09	1.96E-10	3.73E-09	7.09E-09	2.45E-09	1.09

894	565864.8	4221985	1.9E-08	1.00E-09	9.00E-09	2.90E-08	1.01E-08	1.10E-09	9.00E-09	2.02E-08	2.49E-09	1.96E-10	2.94E-09	5.64E-09	1.93E-09	1.09E-10	1.34E-09	3.38E-09
895	565868.7	4221995	1.949E-08	1.00E-09	9.23E-09	2.97E-08	1.03E-08	1.10E-09	9.23E-09	2.07E-08	2.56E-09	1.96E-10	3.02E-09	5.78E-09	1.98E-09	1.09E-10	1.38E-09	3.47E-09
896	565872.5	4222004	1.998E-08	1.00E-09	9.46E-09	3.04E-08	1.06E-08	1.10E-09	9.46E-09	2.12E-08	2.62E-09	1.96E-10	3.10E-09	5.92E-09	2.03E-09	1.09E-10	1.41E-09	3.55E-09
897	565876.3	4222013	2.048E-08	1.00E-09	9.70E-09	3.12E-08	1.09E-08	1.10E-09	9.70E-09	2.17E-08	2.69E-09	1.96E-10	3.17E-09	6.06E-09	2.08E-09	1.09E-10	1.45E-09	3.64E-09
898	565880.1	4222022	2.1E-08	1.00E-09	9.95E-09	3.19E-08	1.11E-08	1.10E-09	9.95E-09	2.22E-08	2.76E-09	1.96E-10	3.25E-09	6.21E-09	2.13E-09	1.09E-10	1.48E-09	3.73E-09
899	565883.9	4222031	2.151E-08	1.00E-09	1.02E-08	3.27E-08	1.14E-08	1.10E-09	1.02E-08	2.27E-08	2.83E-09	1.96E-10	3.34E-09	6.36E-09	2.19E-09	1.09E-10	1.52E-09	3.82E-09
900	565887.7	4222040	2.203E-08	1.00E-09	1.04E-08	3.35E-08	1.17E-08	1.10E-09	1.04E-08	2.32E-08	2.89E-09	1.96E-10	3.42E-09	6.51E-09	2.24E-09	1.09E-10	1.56E-09	3.91E-09
901	565891.5	4222049	2.255E-08	1.00E-09	1.07E-08	3.42E-08	1.20E-08	1.10E-09	1.07E-08	2.37E-08	2.96E-09	1.96E-10	3.50E-09	6.65E-09	2.29E-09	1.09E-10	1.59E-09	4.00E-09
902	565895.3	4222058	2.306E-08	1.00E-09	1.09E-08	3.50E-08	1.22E-08	1.10E-09	1.09E-08	2.43E-08	3.03E-09	1.96E-10	3.58E-09	6.80E-09	2.34E-09	1.09E-10	1.63E-09	4.08E-09
903	565899.1	4222068	2.357E-08	1.00E-09	1.12E-08	3.57E-08	1.25E-08	1.10E-09	1.12E-08	2.48E-08	3.10E-09	1.96E-10	3.65E-09	6.95E-09	2.40E-09	1.09E-10	1.67E-09	4.17E-09
904	565902.9	4222077	2.407E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.16E-09	1.96E-10	3.73E-09	7.09E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
905	565906.7	4222086	2.456E-08	1.00E-09	1.16E-08	3.72E-08	1.30E-08	1.10E-09	1.16E-08	2.58E-08	3.23E-09	1.96E-10	3.81E-09	7.23E-09	2.50E-09	1.09E-10	1.74E-09	4.34E-09
906	565910.5	4222095	2.504E-08	1.00E-09	1.19E-08	3.79E-08	1.33E-08	1.10E-09	1.19E-08	2.62E-08	3.29E-09	1.96E-10	3.88E-09	7.37E-09	2.54E-09	1.09E-10	1.77E-09	4.42E-09
907	565914.3	4222104	2.55E-08	1.00E-09	1.21E-08	3.86E-08	1.35E-08	1.10E-09	1.21E-08	2.67E-08	3.35E-09	1.96E-10	3.95E-09	7.50E-09	2.59E-09	1.09E-10	1.80E-09	4.50E-09
908	565918.1	4222113	2.595E-08	1.00E-09	1.23E-08	3.93E-08	1.38E-08	1.10E-09	1.23E-08	2.72E-08	3.41E-09	1.96E-10	4.02E-09	7.63E-09	2.64E-09	1.09E-10	1.84E-09	4.58E-09
909	565921.9	4222122	2.638E-08	1.00E-09	1.25E-08	3.99E-08	1.40E-08	1.10E-09	1.25E-08	2.76E-08	3.46E-09	1.96E-10	4.09E-09	7.75E-09	2.68E-09	1.09E-10	1.87E-09	4.66E-09
910	565886.1	4221988	1.867E-08	1.00E-09	8.85E-09	2.85E-08	9.90E-09	1.10E-09	8.85E-09	1.98E-08	2.45E-09	1.96E-10	2.89E-09	5.54E-09	1.90E-09	1.09E-10	1.32E-09	3.33E-09
911	565889.8	4221997	1.911E-08	1.00E-09	9.05E-09	2.92E-08	1.01E-08	1.10E-09	9.05E-09	2.03E-08	2.51E-09	1.96E-10	2.96E-09	5.67E-09	1.94E-09	1.09E-10	1.35E-09	3.40E-09
912	565893.6	4222006	1.956E-08	1.00E-09	9.27E-09	2.98E-08	1.04E-08	1.10E-09	9.27E-09	2.07E-08	2.57E-09	1.96E-10	3.03E-09	5.80E-09	1.99E-09	1.09E-10	1.38E-09	3.48E-09
913	565897.3	4222015	2.003E-08	1.00E-09	9.49E-09	3.05E-08	1.06E-08	1.10E-09	9.49E-09	2.12E-08	2.63E-09	1.96E-10	3.10E-09	5.93E-09	2.04E-09	1.09E-10	1.42E-09	3.56E-09
914	565901.1	4222024	2.048E-08	1.00E-09	9.70E-09	3.12E-08	1.09E-08	1.10E-09	9.70E-09	2.17E-08	2.69E-09	1.96E-10	3.18E-09	6.06E-09	2.08E-09	1.09E-10	1.45E-09	3.64E-09
915	565904.9	4222033	2.093E-08	1.00E-09	9.92E-09	3.19E-08	1.11E-08	1.10E-09	9.92E-09	2.21E-08	2.75E-09	1.96E-10	3.24E-09	6.19E-09	2.13E-09	1.09E-10	1.48E-09	3.72E-09
916	565908.6	4222042	2.139E-08	1.00E-09	1.01E-08	3.25E-08	1.13E-08	1.10E-09	1.01E-08	2.26E-08	2.81E-09	1.96E-10	3.32E-09	6.32E-09	2.17E-09	1.09E-10	1.51E-09	3.80E-09
917	565912.4	4222051	2.185E-08	1.00E-09	1.04E-08	3.32E-08	1.16E-08	1.10E-09	1.04E-08	2.30E-08	2.87E-09	1.96E-10	3.39E-09	6.45E-09	2.22E-09	1.09E-10	1.55E-09	3.88E-09
918	565916.1	4222060	2.232E-08	1.00E-09	1.06E-08	3.39E-08	1.18E-08	1.10E-09	1.06E-08	2.35E-08	2.93E-09	1.96E-10	3.46E-09	6.59E-09	2.27E-09	1.09E-10	1.58E-09	3.96E-09
919	565919.9	4222069	2.277E-08	1.00E-09	1.08E-08	3.46E-08	1.21E-08	1.10E-09	1.08E-08	2.40E-08	2.99E-09	1.96E-10	3.53E-09	6.72E-09	2.31E-09	1.09E-10	1.61E-09	4.03E-09
920	565923.7	4222078	2.321E-08	1.00E-09	1.10E-08	3.52E-08	1.23E-08	1.10E-09	1.10E-08	2.44E-08	3.05E-09	1.96E-10	3.60E-09	6.84E-09	2.36E-09	1.09E-10	1.64E-09	4.11E-09
921	565927.4	4222087	2.365E-08	1.00E-09	1.12E-08	3.59E-08	1.25E-08	1.10E-09	1.12E-08	2.48E-08	3.11E-09	1.96E-10	3.67E-09	6.97E-09	2.40E-09	1.09E-10	1.67E-09	4.18E-09
922	565931.2	4222096	2.407E-08	1.00E-09	1.14E-08	3.65E-08	1.28E-08	1.10E-09	1.14E-08	2.53E-08	3.16E-09	1.96E-10	3.73E-09	7.09E-09	2.45E-09	1.09E-10	1.70E-09	4.26E-09
923	565934.9	4222106	2.447E-08	1.00E-09	1.16E-08	3.71E-08	1.30E-08	1.10E-09	1.16E-08	2.57E-08	3.21E-09	1.96E-10	3.79E-09	7.20E-09	2.49E-09	1.09E-10	1.73E-09	4.33E-09
924	565590.8	4221765	1.019E-08	1.00E-09	4.83E-09	1.60E-08	5.40E-09	1.10E-09	4.83E-09	1.13E-08	1.34E-09	1.96E-10	1.58E-09	3.11E-09	1.04E-09	1.09E-10	7.21E-10	1.87E-09
925	565599.7	4221768	1.033E-08	1.00E-09	4.89E-09	1.62E-08	5.48E-09	1.10E-09	4.89E-09	1.15E-08	1.36E-09	1.96E-10	1.60E-09	3.15E-09	1.05E-09	1.09E-10	7.30E-10	1.89E-09
926	565608.7	4221772	1.047E-08	1.00E-09	4.96E-09	1.64E-08	5.55E-09	1.10E-09	4.96E-09	1.16E-08	1.37E-09	1.96E-10	1.62E-09	3.19E-09	1.06E-09	1.09E-10	7.40E-10	1.91E-09
927	565617.6	4221776	1.06E-08	1.00E-09	5.02E-09	1.66E-08	5.62E-09	1.10E-09	5.02E-09	1.17E-08	1.39E-09	1.96E-10	1.64E-09	3.23E-09	1.08E-09	1.09E-10	7.50E-10	1.94E-09
928	565626.5	4221779	1.074E-08	1.00E-09	5.09E-09	1.68E-08	5.69E-09	1.10E-09	5.09E-09	1.19E-08	1.41E-09	1.96E-10	1.66E-09	3.27E-09	1.09E-09	1.09E-10	7.60E-10	1.96E-09
929	565907.2	4221991	1.83E-08	1.00E-09	8.67E-09	2.80E-08	9.70E-09	1.10E-09	8.67E-09	1.95E-08	2.40E-09	1.96E-10	2.84E-09	5.44E-09	1.86E-09	1.09E-10	1.29E-09	3.26E-09
930	565910.9	4222000	1.873E-08	1.00E-09	8.87E-09	2.86E-08	9.93E-09	1.10E-09	8.87E-09	1.99E-08	2.46E-09	1.96E-10	2.90E-09	5.56E-09	1.90E-09	1.09E-10	1.32E-09	3.34E-09
931	565914.6	4222009	1.916E-08	1.00E-09	9.08E-09	2.92E-08	1.02E-08	1.10E-09	9.08E-09	2.03E-08	2.52E-09	1.96E-10	2.97E-09	5.68E-09	1.95E-09	1.09E-10	1.35E-09	3.41E-09
932	565918.3	4222018	1.956E-08	1.00E-09	9.26E-09	2.98E-08	1.04E-08	1.10E-09	9.26E-09	2.07E-08	2.57E-09	1.96E-10	3.03E-09	5.80E-09	1.99E-09	1.09E-10	1.38E-09	3.48E-09
933	565922	4222027	1.996E-08	1.00E-09	9.46E-09	3.04E-08	1.06E-08	1.10E-09	9.46E-09	2.11E-08	2.62E-09	1.96E-10	3.09E-09	5.91E-09	2.03E-09	1.09E-10	1.41E-09	3.55E-09
934	565925.8	4222035	2.038E-08	1.00E-09	9.65E-09	3.10E-08	1.08E-08	1.10E-09	9.65E-09	2.16E-08	2.68E-09	1.96E-10	3.16E-09	6.03E-09	2.07E-09	1.09E-10	1.44E-09	3.62E-09
935	565929.5	4222044	2.079E-08	1.00E-09	9.85E-09	3.16E-08	1.10E-08	1.10E-09	9.85E-09	2.20E-08	2.73E-09	1.96E-10	3.22E-09	6.15E-09	2.11E-09	1.09E-10	1.47E-09	3.69E-09
936	565944.4	4222080	2.237E-08	1.00E-09	1.06E-08	3.40E-08	1.19E-08	1.10E-09	1.06E-08	2.36E-08	2.94E-09	1.96E-10	3.47E-09	6.60E-09	2.27E-09	1.09E-10	1.58E-09	3.96E-09
937	565948.1	4222089	2.275E-08	1.00E-09	1.08E-08	3.45E-08	1.21E-08	1.10E-09	1.08E-08	2.39E-08	2.99E-09	1.96E-10	3.53E-09	6.71E-09	2.31E-09	1.09E-10	1.61E-09	4.03E-09
938	565546.7	4221727	8.968E-09	1.00E-09	4.25E-09	1.42E-08	4.75E-09	1.10E-09	4.25E-09	1.01E-08	1.18E-09	1.96E-10	1.39E-09	2.76E-09	9.11E-10	1.09E-10	6.34E-10	1.65E-09
939	565555.8	4221730	9.092E-09	1.00E-09	4.31E-09	1.44E-08	4.82E-09	1.10E-09	4.31E-09	1.02E-08	1.19E-09	1.96E-10	1.41E-09	2.80E-09	9.24E-10	1.09E-10	6.43E-10	1.68E-09
940	565564.8	4221734	9.217E-09	1.00E-09	4.37E-09	1.46E-08	4.89E-09	1.10E-09	4.37E-09	1.04E-08	1.21E-09	1.96E-10	1.43E-09	2.84E-09	9.37E-10	1.09E-10	6.52E-10	1.70E-09
941	565573.9	4221738	9.343E-09	1.00E-09	4.43E-09	1.48E-08	4.95E-09	1.10E-09	4.43E-09	1.05E-08	1.23E-09	1.96E-10	1.45E-09	2.87E-09	9.49E-10	1.09E-10	6.61E-10	1.72E-09
942	565583	4221741	9.47E-09	1.00E-09	4.49E-09	1.50E-08	5.02E-09	1.10E-09	4.49E-09	1.06E-08	1.24E-09	1.96E-10	1.47E-09	2.91E-09	9.62E-10	1.09E-10	6.70E-10	1.74E-09
943	565592	4221745	9.598E-09	1.00E-09	4.55E-09	1.52E-08	5.09E-09	1.10E-09	4.55E-09	1.07E-08	1.26E-09	1.96E-10	1.49E-09	2.94E-09	9.75E-10	1.09E-10	6.79E-10	1.76E-09
944	565601.1	4221749	9.728E-09	1.00E-09	4.61E-09	1.53E-08	5.16E-09	1.10E-09	4.61E-09	1.09E-08	1.28E-09	1.96E-10	1.51E-09	2.98E-09	9.89E-10	1.09E-10	6.88E-10	1.79E-09
945	565610.1	4221753	9.858E-09	1.00E-09	4.67E-09	1.55E-08	5.23E-09	1.10E-09	4.67E-09	1.10E-08	1.29E-09	1.96E-10	1.53E-09	3.02E-09	1.00E-09	1.09E-10	6.97E-10	1.81E-09
946	565619.2	4221756	9.986E-09	1.00E-09	4.73E-09	1.57E-08	5.29E-09	1.10E-09	4.73E-09	1.11E-08	1.31E-09	1.96E-10	1.55E-09	3.06E-09	1.01E-09	1.09E-10	7.06E-10	1.83E-09
947	565628.3	4221760	1.011E-08	1.00E-09	4.79E-09	1.59E-08	5.36E-09	1.10E-09	4.79E-09	1.12E-08	1.33E-09	1.96E-10	1.57E-09	3.09E-09	1.03E-09	1.09E-10	7.15E-10	1.85E-09
948	565682.6	4221782	1.086E-08	1.00E-09	5.14E-09	1.70E-08	5.76E-09	1.10E-09	5.14E-09	1.20E-08	1.43E-09	1.96E-10	1.68E-09	3.31E-09	1.10E-09	1.09E-10	7.68E-10	1.98E-09
949	565691.7	4221786	1.098E-08	1.00E-09	5.20E-09	1.72E-08	5.82E-09	1.10E-09	5.20E-09	1.21E-08	1.44E-09	1.96E-10	1.70E-09	3.34E-09	1.12E-09	1.09E-10	7.77E-10	2.00E-09
950	565700.8	4221790	1.111E-08	1.00E-09	5.26E-09	1.74E-08	5.89E-09	1.10E-09	5.26E-09	1.23E-08	1.46E-09	1.96E-10	1.72E-09	3.38E-09	1.13E-09	1.09E-10	7.85E-10	2.02E-09
951	565709.8	4221794	1.123E-08	1.00E-09	5.32E-09	1.76E-08	5.95E-09	1.10E-09	5.32E-09	1.24E-08	1.47E-09	1.96E-10	1.74E-09	3.41E-09	1.14E-09	1.09E-10	7.94E-10	2.04E-09
952	565937	4222015	1.883E-08	1.00E-09	8.92E-09	2.88E-08	9.98E-09	1.10E-09	8.92E-09	2.00E-08	2.47E-09	1.96E-10	2.92E-09	5.59E-09	1.91E-09	1.09E-10	1.33E-09	3.35E-09
953	565940.8	4222024	1.923E-08	1.00E-09	9.11E-09	2.93E-08	1.02E-08	1.10E-09	9.11E-09	2.04E-08	2.53E-09	1.96E-10	2.98E-09	5.70E-09	1.95E-09	1.09E-10	1.36E-09	3.42E-09
954	565519.3	4221695	8.131E-09	1.00E-09	3.85E-09	1.30E-08	4.31E-09	1.10E-09	3.85E-09	9.26E-09	1.07E-09	1.96E-10	1.26E-09	2.52E-09	8.26E-10	1.09E-10	5.75E-10	1.51E-09
955	565528.3	4221699	8.241E-09	1.00E-09	3.90E-09	1.32E-08	4.37E-09	1.10E-09	3.90E-09	9.38E-09	1.08E-09	1.96E-10	1.28E-09	2.56E-09	8.38E-10	1.09E-10	5.83E-10	1.53E-09
956	565537.2	4221703	8.352E-09	1.00E-09	3.96E-09	1.33E-08	4.43E-09	1.10E-09	3.96E-09	9.49E-09	1.10E-09	1.96E-10	1.29E-09	2.59E-09	8.49E-10	1.09E-10	5.91E-10	1.55E-09
957	565546.2	4221706	8.464E-09	1.00E-09	4.01E-09	1.35E-08	4.49E-09	1.10E-09	4.01E-09	9.60E-09	1.11E-09	1.96E-10	1.31E-09	2.62E-09	8.60E-10	1.09E-10	5.99E-10	1.57E-09
958	565555.2	4221710	8.577E-09	1.00E-09	4.06E-09	1.36E-08	4.55E-09	1.10E-09	4.06E-09	9.71E-09	1.13E-09	1.96E-10	1.33E-09	2.65E-09	8.72E-10	1.09E-10	6.07E-10	1.59E-09
959	565564.1	4221714	8.691E-09	1.00E-09	4.12E-09	1.38E-08	4.61E-09	1.10E-09	4.12E-09	9.83E-09	1.14E-09	1.96E-10	1.35E-09	2.68E-09	8.83E-10	1.09E-10	6.15E-10	1.61E-09
960	565573.1	4221717	8.805E-09	1.00E-09	4.17E-09	1.40E-08	4.67E-09	1.10E-09	4.17E-09	9.94E-09	1.16E-09	1.96E-10	1.37E-09	2.72E-09	8.95E-10	1.09E-10	6.23E-10	1.63E-09
961	565582.1	4221721	8.92E-09	1.00E-09	4.23E-09	1.42E-08	4.73E-09	1.10E-09	4.23E-09	1.01E-08	1.17E-09	1.96E-10	1.38E-09	2.75E-09	9.07E-10	1.09E-10	6.31E-10	1.65E-09
962	565591.1	4221725	9.035E-09	1.00E-09	4.28E-09	1.43E-08	4.79E-09	1.10E-09	4.28E-09	1.02E-08	1.19E-09	1.96E-10	1.40E-09	2.78E-09	9.18E-10	1.09E-10	6.39E-10	1.67E-09
963	565600	4221729	9.151E-09	1.00E-09	4.34E-09	1.45E-08	4.85E-09	1.10E-09	4.34E-09	1.03E-08	1.20E-09	1.96E-10	1.42E-09	2.82E-09	9.30E-10	1.09E-10	6.47E-10	1.69E-09
964	565680.8	4221762	1.019E-08	1.00E-09	4.83E-09	1.60E-08	5.40E-09	1.10E-09	4.83E-09	1.13E-08	1.34E-09	1.96E-10	1.58E-09	3.11E-09	1.04E-09	1.09E-10	7.20E-10	1.87E-09
965	565689.7	4221765	1.03E-08	1.00E-09	4.88E-09	1.62E-08	5.46E-09	1.10E-09	4.88E-09	1.14E-08	1.35E-09	1.96E-10	1.60E-09	3.15E-09	1.05E-09	1.09E-10	7.29E-10	1.88E-09
966	565698.7	4221769	1.041E-08	1.00E-09	4.93E-09	1.64E-08	5.52E-09	1.10E-09	4.93E-09	1.16E-08	1.37E-09	1.96E-10	1.61E-09	3.18E-09	1.06E-09	1.09E-10	7.37E-10	1.90E-09
967	565707.7	4221773	1.053E-08	1.00E-09	4.99E-09	1.65E-08	5.58E-09	1.10E-09	4.99E-09	1.17E-08	1.38E-09	1.96E-10	1.63E-09	3.21E-09	1.07E-09	1.09E-10	7.44E-10	1.92E-09
968	565716.6	4221776	1.064E-08	1.00E-09	5.04E-09	1.67E-08	5.64E-09	1.10E-09	5.04E-09	1.18E-08	1.40E-09	1.96E-10	1.65E-09	3.24E-09	1.08E-09	1.09E-10	7.52E-10	1.94E-09
969	565725.6	4221780	1.075E-08	1.00E-09	5.09E-09	1.68E-08	5.70E-09	1.10E-09	5.09E-09	1.19E-08	1.41E-09	1.96E-10	1.67E-09	3.27E-09	1.09E-09	1.09E-10	7.60E-10	1.96E-09
970	565510.4	4221672	7.6E-09	1.00E-09	3.60E-09	1.22E-08	4.03E-09	1.10E-09	3.60E-09	8.73E-09	9.98E-10	1.96E-10	1.18E-09	2.37E-09	7.72E-10	1.09E-10	5.37E-10	1.42E-09
971	565519.5	4221675	7.704E-09	1.00E-09	3.65E-09	1.24E-08	4.08E-09	1.10E-09	3.65E-09	8.84E-09	1.01E-09	1.96E-10	1.19E-09	2.40E-09	7.83E-10	1.09E-10	5.45E-10	1.44E-09
972	565528.6	4221679	7.808E-09	1.00E-09	3.70E-09	1.25E-08	4.14E-09	1.10E-09	3.70E-09	8.94E-09	1.03E-09	1.96E-10	1.21E-09	2.43E-09	7.93E-10	1.09E-10	5.52E-10	1.45E-09
973	565537.7	4221683	7.912E-09	1.00E-09	3.75E-09	1.27E-08	4.19E-09	1.10E-09	3.75E-09	9.04E-09	1.04E-09	1.96E-10	1.23E-09	2.46E-09	8.04E-10	1.09E-10	5.60E-10	1.47E-09
974	565546.8	4221687	8.017E-09	1.00E-09	3.80E-09	1.28E-08	4.25E-09	1.10E-09	3.80E-09	9.15E-09	1.05E-09	1.96E-10	1.24E-09	2.49E-09	8.15E-10	1.09E-10	5.67E-10	1.49E-09
975	565555.8	4221690	8.123E-09	1.00E-09	3.85E-09	1.30E-08	4.31E-09	1.10E-09	3.85E-09	9.26E-09	1.07E-09	1.96E-10	1.26E-09	2.52E-09	8.25E-10	1.09E-10	5.74E-10	1.51E-09
976	565564.9	4221694	8.23E-09	1.00E-09	3.90E-09	1.31E-08	4.36E-09	1.10E-09	3.90E-09	9.36E-09	1.08E-09	1.96E-10	1.28E-09	2.55E-09	8.36E-10	1.09E-10	5.82E-10	1.53E-09
977	565574	4221698	8.338E-09	1.00E-09	3.95E-09	1.33E-08	4.42E-09	1.10E-09	3.95E-09	9.47E-09	1.09E-09	1.96E-10	1.29E-09	2.58E-09	8.47E-10	1.09E-10	5.90E-10	1.55E-09
978	565583.1	4221702	8.445E-09	1.00E-09	4.00E-09	1.35E-08	4.48E-09	1.10E-09	4.00E-09	9.58E-09	1.11E-09	1.96E-10	1.31E-09	2.61E-09	8.58E-10	1.09E-10	5.97E-10	1.56E-09
979	565592.2	4221705	8.551E-09	1.00E-09	4.05E-09	1.36E-08	4.53E-09	1.10E-09	4.05E-09	9.69E-09	1.12E-09	1.96E-10	1.33E-09	2.64E-09	8.69E-10	1.09E-10	6.05E-10	1.58E-09
980	565601.3	4221709	8.659E-09	1.00E-09	4.10E-09	1.38E-08	4.59E-09	1.10E-09	4.10E-09	9.79E-09	1.14E-09	1.96E-10	1.34E-09	2.68E-09	8.80E-10	1.09E-10	6.12E-10	1.60E-09
981	565501.3	4221668	7.498E-09	1.00E-09	3.55E-09	1.21E-08	3.98E-09	1.10E-09	3.55E-09	8.63E-09	9.85E-10	1.96E-10	1.16E-09	2.34E-09	7.62E-10	1.09E-10	5.30E-10	1.40E-09
982	565491.4	4221668	7.469E-09	1.00E-09	3.54E-09	1.20E-08	3.96E-09	1.10E-09	3.54E-09	8.60E-09	9.81E-10	1.96E-10	1.16E-09	2.34E-09	7.59E-10	1.09E-10	5.28E-10	1.40E-09
983	565392.4	4221668	7.24E-09	1.00E-09	3.43E-09	1.17E-08	3.84E-09	1.10E-09	3.43E-09	8.37E-09	9.51E-10	1.96E-10	1.12E-09	2.27E-09	7.36E-10	1.09E-10	5.12E-10	1.36E-09
984	565382.5	4221668	7.225E-09	1.00E-09	3.42E-09	1.17E-08	3.83E-09	1.10E-09	3.42E-09	8.36E-09	9.49E-10	1.96E-10	1.12E-09	2.27E-09	7.34E-10	1.09E-10	5.11E-10	1.35E-09
985	565372.6	4221668	7.212E-09	1.00E-09	3.42E-09	1.16E-08	3.82E-09	1.10E-09	3.42E-09	8.34E-09	9.47E-10	1.96E-10	1.12E-09	2.26E-09	7.33E-10	1.09E-10	5.10E-10	1.35E-09
986	565362.7	4221668	7.201E-09	1.00E-09	3.41E-09	1.16E-08	3.82E-09	1.10E-09	3.41E-09	8.33E-09	9.46E-10	1.96E-10	1.12E-09	2.26E-09	7.32E-10	1.09E-10	5.09E-10	1.35E-09
987	565352.7	4221668	7.191E-09	1.00E-09	3.41E-09	1.16E-08	3.81E-09	1.10E-09	3.41E-09	8.32E-09	9.44E-10	1.96E-10	1.11E-09	2.26E-09	7.31E-10	1.09E-10	5.09E-10	1.35E-09
988	565342.8	4221668	7.182E-09	1.00E-09	3.40E-09	1.16E-08	3.81E-09	1.10E-09	3.40E-09	8.31E-09	9.43E-10	1.96E-10	1.11E-09	2.25E-09	7.30E-10	1.09E-10	5.08E-10	1.35E-09
989	565332.9	4221668	7.175E-09	1.00E-09	3.40E-09	1.16E-08	3.80E-09	1.10E-09	3.40E-09	8.31E-09	9.42E-10	1.96E-10	1.11E-09	2.25E-09	7.29E-10	1.09E-10	5.07E-10	1.35E-09
990	565510.3	4221652	7.213E-09	1.00E-09	3.42E-09	1.16E-08	3.82E-09	1.10E-09	3.42E-09	8.34E-09	9.47E-10	1.96E-10	1.12E-09	2.26E-09	7.33E-10	1.09E-10	5.10E-10	1.35E-09
991	565519.3	4221655	7.308E-09	1.00E-09	3.46E-09	1.18E-08	3.87E-09	1.10E-09	3.46E-09	8.44E-09	9.60E-10	1.96E-10	1.13E-09	2.29E-09	7.43E-10	1

1006	565412.1	4221648	6.913E-09	1.00E-09	3.28E-09	1.12E-08	3.67E-09	1.10E-09	3.28E-09	8.04E-09	9.08E-10	1.96E-10	1.07E-09	2.18E-09	7.03E-10	1.09E-10	4.89E-10	1.30E-09
1007	565402.2	4221648	6.894E-09	1.00E-09	3.27E-09	1.12E-08	3.66E-09	1.10E-09	3.27E-09	8.02E-09	9.05E-10	1.96E-10	1.07E-09	2.17E-09	7.01E-10	1.09E-10	4.88E-10	1.30E-09
1008	565392.3	4221648	6.879E-09	1.00E-09	3.26E-09	1.11E-08	3.65E-09	1.10E-09	3.26E-09	8.01E-09	9.03E-10	1.96E-10	1.07E-09	2.17E-09	6.99E-10	1.09E-10	4.86E-10	1.29E-09
1009	565382.4	4221648	6.866E-09	1.00E-09	3.25E-09	1.11E-08	3.64E-09	1.10E-09	3.25E-09	7.99E-09	9.02E-10	1.96E-10	1.06E-09	2.16E-09	6.98E-10	1.09E-10	4.86E-10	1.29E-09
1010	565372.5	4221648	6.854E-09	1.00E-09	3.25E-09	1.11E-08	3.63E-09	1.10E-09	3.25E-09	7.98E-09	9.00E-10	1.96E-10	1.06E-09	2.16E-09	6.97E-10	1.09E-10	4.85E-10	1.29E-09
1011	565362.6	4221648	6.843E-09	1.00E-09	3.24E-09	1.11E-08	3.63E-09	1.10E-09	3.24E-09	7.97E-09	8.99E-10	1.96E-10	1.06E-09	2.16E-09	6.95E-10	1.09E-10	4.84E-10	1.29E-09
1012	565352.7	4221648	6.834E-09	1.00E-09	3.24E-09	1.11E-08	3.62E-09	1.10E-09	3.24E-09	7.96E-09	8.98E-10	1.96E-10	1.06E-09	2.15E-09	6.95E-10	1.09E-10	4.83E-10	1.29E-09
1013	565342.8	4221648	6.826E-09	1.00E-09	3.23E-09	1.11E-08	3.62E-09	1.10E-09	3.23E-09	7.95E-09	8.96E-10	1.96E-10	1.06E-09	2.15E-09	6.94E-10	1.09E-10	4.83E-10	1.29E-09
1014	565332.9	4221648	6.819E-09	1.00E-09	3.23E-09	1.11E-08	3.62E-09	1.10E-09	3.23E-09	7.95E-09	8.96E-10	1.96E-10	1.06E-09	2.15E-09	6.93E-10	1.09E-10	4.82E-10	1.28E-09
1015	565323	4221648	6.814E-09	1.00E-09	3.23E-09	1.10E-08	3.61E-09	1.10E-09	3.23E-09	7.94E-09	8.95E-10	1.96E-10	1.06E-09	2.15E-09	6.92E-10	1.09E-10	4.82E-10	1.28E-09
1016	565313.1	4221648	6.81E-09	1.00E-09	3.23E-09	1.10E-08	3.61E-09	1.10E-09	3.23E-09	7.94E-09	8.94E-10	1.96E-10	1.06E-09	2.15E-09	6.92E-10	1.09E-10	4.82E-10	1.28E-09
1017	565510.3	4221632	6.858E-09	1.00E-09	3.25E-09	1.11E-08	3.64E-09	1.10E-09	3.25E-09	7.99E-09	9.01E-10	1.96E-10	1.06E-09	2.16E-09	6.97E-10	1.09E-10	4.85E-10	1.29E-09
1018	565519.5	4221635	6.948E-09	1.00E-09	3.29E-09	1.12E-08	3.68E-09	1.10E-09	3.29E-09	8.08E-09	9.12E-10	1.96E-10	1.08E-09	2.19E-09	7.06E-10	1.09E-10	4.91E-10	1.31E-09
1019	565528.6	4221639	7.037E-09	1.00E-09	3.33E-09	1.14E-08	3.73E-09	1.10E-09	3.33E-09	8.17E-09	9.24E-10	1.96E-10	1.09E-09	2.21E-09	7.15E-10	1.09E-10	4.98E-10	1.32E-09
1020	565537.7	4221643	7.126E-09	1.00E-09	3.38E-09	1.15E-08	3.78E-09	1.10E-09	3.38E-09	8.26E-09	9.36E-10	1.96E-10	1.10E-09	2.24E-09	7.24E-10	1.09E-10	5.04E-10	1.34E-09
1021	565546.8	4221647	7.217E-09	1.00E-09	3.42E-09	1.16E-08	3.83E-09	1.10E-09	3.42E-09	8.35E-09	9.48E-10	1.96E-10	1.12E-09	2.26E-09	7.33E-10	1.09E-10	5.10E-10	1.35E-09
1022	565555.9	4221650	7.308E-09	1.00E-09	3.46E-09	1.18E-08	3.87E-09	1.10E-09	3.46E-09	8.44E-09	9.60E-10	1.96E-10	1.13E-09	2.29E-09	7.43E-10	1.09E-10	5.17E-10	1.37E-09
1023	565565	4221654	7.402E-09	1.00E-09	3.51E-09	1.19E-08	3.92E-09	1.10E-09	3.51E-09	8.53E-09	9.72E-10	1.96E-10	1.15E-09	2.32E-09	7.52E-10	1.09E-10	5.23E-10	1.39E-09
1024	565574.1	4221658	7.496E-09	1.00E-09	3.55E-09	1.21E-08	3.97E-09	1.10E-09	3.55E-09	8.63E-09	9.84E-10	1.96E-10	1.16E-09	2.34E-09	7.62E-10	1.09E-10	5.30E-10	1.40E-09
1025	565583.2	4221662	7.591E-09	1.00E-09	3.60E-09	1.22E-08	4.02E-09	1.10E-09	3.60E-09	8.72E-09	9.97E-10	1.96E-10	1.18E-09	2.37E-09	7.71E-10	1.09E-10	5.37E-10	1.42E-09
1026	565592.3	4221665	7.684E-09	1.00E-09	3.64E-09	1.23E-08	4.07E-09	1.10E-09	3.64E-09	8.82E-09	1.01E-09	1.96E-10	1.19E-09	2.40E-09	7.81E-10	1.09E-10	5.43E-10	1.43E-09
1027	565601.4	4221669	7.777E-09	1.00E-09	3.68E-09	1.25E-08	4.12E-09	1.10E-09	3.68E-09	8.91E-09	1.02E-09	1.96E-10	1.21E-09	2.42E-09	7.90E-10	1.09E-10	5.50E-10	1.45E-09
1028	565610.5	4221673	7.87E-09	1.00E-09	3.73E-09	1.26E-08	4.17E-09	1.10E-09	3.73E-09	9.00E-09	1.03E-09	1.96E-10	1.22E-09	2.45E-09	8.00E-10	1.09E-10	5.57E-10	1.47E-09
1029	565501.2	4221628	6.771E-09	1.00E-09	3.21E-09	1.10E-08	3.59E-09	1.10E-09	3.21E-09	7.90E-09	8.89E-10	1.96E-10	1.05E-09	2.13E-09	6.88E-10	1.09E-10	4.79E-10	1.28E-09
1030	565491.3	4221628	6.745E-09	1.00E-09	3.20E-09	1.09E-08	3.58E-09	1.10E-09	3.20E-09	7.87E-09	8.86E-10	1.96E-10	1.05E-09	2.13E-09	6.85E-10	1.09E-10	4.77E-10	1.27E-09
1031	565481.4	4221628	6.722E-09	1.00E-09	3.18E-09	1.09E-08	3.56E-09	1.10E-09	3.18E-09	7.85E-09	8.83E-10	1.96E-10	1.04E-09	2.12E-09	6.83E-10	1.09E-10	4.75E-10	1.27E-09
1032	565471.5	4221628	6.699E-09	1.00E-09	3.17E-09	1.09E-08	3.55E-09	1.10E-09	3.17E-09	7.83E-09	8.80E-10	1.96E-10	1.04E-09	2.11E-09	6.81E-10	1.09E-10	4.74E-10	1.26E-09
1033	565461.6	4221628	6.677E-09	1.00E-09	3.16E-09	1.08E-08	3.54E-09	1.10E-09	3.16E-09	7.81E-09	8.77E-10	1.96E-10	1.04E-09	2.11E-09	6.79E-10	1.09E-10	4.72E-10	1.26E-09
1034	565412.1	4221628	6.581E-09	1.00E-09	3.12E-09	1.07E-08	3.49E-09	1.10E-09	3.12E-09	7.71E-09	8.64E-10	1.96E-10	1.02E-09	2.08E-09	6.69E-10	1.09E-10	4.65E-10	1.24E-09
1035	565402.2	4221628	6.565E-09	1.00E-09	3.11E-09	1.07E-08	3.48E-09	1.10E-09	3.11E-09	7.69E-09	8.62E-10	1.96E-10	1.02E-09	2.08E-09	6.67E-10	1.09E-10	4.64E-10	1.24E-09
1036	565392.3	4221628	6.549E-09	1.00E-09	3.10E-09	1.07E-08	3.47E-09	1.10E-09	3.10E-09	7.68E-09	8.60E-10	1.96E-10	1.02E-09	2.07E-09	6.66E-10	1.09E-10	4.63E-10	1.24E-09
1037	565382.4	4221628	6.535E-09	1.00E-09	3.10E-09	1.06E-08	3.47E-09	1.10E-09	3.10E-09	7.66E-09	8.58E-10	1.96E-10	1.01E-09	2.07E-09	6.64E-10	1.09E-10	4.62E-10	1.24E-09
1038	565372.5	4221628	6.523E-09	1.00E-09	3.09E-09	1.06E-08	3.46E-09	1.10E-09	3.09E-09	7.65E-09	8.57E-10	1.96E-10	1.01E-09	2.06E-09	6.63E-10	1.09E-10	4.61E-10	1.23E-09
1039	565362.6	4221628	6.513E-09	1.00E-09	3.09E-09	1.06E-08	3.45E-09	1.10E-09	3.09E-09	7.64E-09	8.55E-10	1.96E-10	1.01E-09	2.06E-09	6.62E-10	1.09E-10	4.61E-10	1.23E-09
1040	565352.7	4221628	6.505E-09	1.00E-09	3.08E-09	1.06E-08	3.45E-09	1.10E-09	3.08E-09	7.63E-09	8.54E-10	1.96E-10	1.01E-09	2.06E-09	6.61E-10	1.09E-10	4.60E-10	1.23E-09
1041	565342.8	4221628	6.497E-09	1.00E-09	3.08E-09	1.06E-08	3.44E-09	1.10E-09	3.08E-09	7.62E-09	8.53E-10	1.96E-10	1.01E-09	2.06E-09	6.60E-10	1.09E-10	4.59E-10	1.23E-09
1042	565332.8	4221628	6.491E-09	1.00E-09	3.08E-09	1.06E-08	3.44E-09	1.10E-09	3.08E-09	7.62E-09	8.52E-10	1.96E-10	1.01E-09	2.05E-09	6.60E-10	1.09E-10	4.59E-10	1.23E-09
1043	565322.9	4221628	6.486E-09	1.00E-09	3.07E-09	1.06E-08	3.44E-09	1.10E-09	3.07E-09	7.61E-09	8.52E-10	1.96E-10	1.01E-09	2.05E-09	6.59E-10	1.09E-10	4.59E-10	1.23E-09
1044	565313	4221628	6.482E-09	1.00E-09	3.07E-09	1.06E-08	3.44E-09	1.10E-09	3.07E-09	7.61E-09	8.51E-10	1.96E-10	1.00E-09	2.05E-09	6.59E-10	1.09E-10	4.58E-10	1.23E-09
1045	565303.1	4221628	6.479E-09	1.00E-09	3.07E-09	1.06E-08	3.44E-09	1.10E-09	3.07E-09	7.61E-09	8.51E-10	1.96E-10	1.00E-09	2.05E-09	6.58E-10	1.09E-10	4.58E-10	1.23E-09
1046	565293.2	4221628	6.477E-09	1.00E-09	3.07E-09	1.06E-08	3.43E-09	1.10E-09	3.07E-09	7.60E-09	8.51E-10	1.96E-10	1.00E-09	2.05E-09	6.58E-10	1.09E-10	4.58E-10	1.23E-09
1047	565225.7	4222171	9.051E-08	1.00E-09	4.29E-08	1.34E-07	4.80E-08	1.10E-09	4.29E-08	9.20E-08	1.19E-08	1.96E-10	1.40E-08	2.61E-08	9.20E-09	1.09E-10	6.40E-09	1.57E-08
1048	565208.3	4222177	9.141E-08	1.00E-09	4.33E-08	1.36E-07	4.85E-08	1.10E-09	4.33E-08	9.29E-08	1.20E-08	1.96E-10	1.42E-08	2.64E-08	9.29E-09	1.09E-10	6.46E-09	1.59E-08
1049	565219.1	4222165	8.372E-08	1.00E-09	3.97E-08	1.24E-07	4.44E-08	1.10E-09	3.97E-08	8.52E-08	1.10E-08	1.96E-10	1.30E-08	2.42E-08	8.51E-09	1.09E-10	5.92E-09	1.45E-08
1050	565200.9	4222170	8.474E-08	1.00E-09	4.01E-08	1.26E-07	4.49E-08	1.10E-09	4.01E-08	8.62E-08	1.11E-08	1.96E-10	1.31E-08	2.45E-08	8.61E-09	1.09E-10	5.99E-09	1.47E-08
1051	565211.6	4222158	7.788E-08	1.00E-09	3.69E-08	1.16E-07	4.13E-08	1.10E-09	3.69E-08	7.93E-08	1.02E-08	1.96E-10	1.21E-08	2.25E-08	7.91E-09	1.09E-10	5.51E-09	1.35E-08
1052	565191	4222172	8.397E-08	1.00E-09	3.98E-08	1.25E-07	4.45E-08	1.10E-09	3.98E-08	8.54E-08	1.10E-08	1.96E-10	1.30E-08	2.42E-08	8.53E-09	1.09E-10	5.94E-09	1.46E-08
1053	565181	4222174	8.295E-08	1.00E-09	3.93E-08	1.23E-07	4.40E-08	1.10E-09	3.93E-08	8.44E-08	1.09E-08	1.96E-10	1.29E-08	2.39E-08	8.43E-09	1.09E-10	5.87E-09	1.44E-08
1054	565186.2	4222157	7.359E-08	1.00E-09	3.49E-08	1.09E-07	3.90E-08	1.10E-09	3.49E-08	7.50E-08	9.66E-09	1.96E-10	1.14E-08	2.13E-08	7.48E-09	1.09E-10	5.20E-09	1.28E-08
1055	565171.1	4222175	8.172E-08	1.00E-09	3.87E-08	1.21E-07	4.33E-08	1.10E-09	3.87E-08	8.31E-08	1.07E-08	1.96E-10	1.27E-08	2.36E-08	8.30E-09	1.09E-10	5.78E-09	1.42E-08
1056	565176.3	4222159	7.306E-08	1.00E-09	3.46E-08	1.09E-07	3.87E-08	1.10E-09	3.46E-08	7.44E-08	9.59E-09	1.96E-10	1.13E-08	2.11E-08	7.42E-09	1.09E-10	5.17E-09	1.27E-08
1057	565276.1	4222040	3.131E-08	1.00E-09	1.48E-08	4.71E-08	1.66E-08	1.10E-09	1.48E-08	3.25E-08	4.11E-09	1.96E-10	4.85E-09	9.16E-09	3.18E-09	1.09E-10	2.21E-09	5.51E-09
1058	564991.1	4222671	1.521E-08	1.00E-09	7.21E-09	2.34E-08	8.06E-09	1.10E-09	7.21E-09	1.64E-08	2.00E-09	1.96E-10	2.36E-09	4.55E-09	1.55E-09	1.09E-10	1.08E-09	2.73E-09
1059	564984.1	4222659	1.612E-08	1.00E-09	7.64E-09	2.48E-08	8.55E-09	1.10E-09	7.64E-09	1.73E-08	2.12E-09	1.96E-10	2.50E-09	4.81E-09	1.64E-09	1.09E-10	1.14E-09	2.89E-09
1060	564992.5	4222711	1.241E-08	1.00E-09	5.88E-09	1.93E-08	6.58E-09	1.10E-09	5.88E-09	1.36E-08	1.63E-09	1.96E-10	1.92E-09	3.75E-09	1.26E-09	1.09E-10	8.77E-10	2.25E-09
1061	564985.6	4222699	1.317E-08	1.00E-09	6.24E-09	2.04E-08	6.98E-09	1.10E-09	6.24E-09	1.43E-08	1.73E-09	1.96E-10	2.04E-09	3.97E-09	1.34E-09	1.09E-10	9.32E-10	2.38E-09
1062	564978.6	4222686	1.397E-08	1.00E-09	6.62E-09	2.16E-08	7.41E-09	1.10E-09	6.62E-09	1.51E-08	1.83E-09	1.96E-10	2.17E-09	4.20E-09	1.42E-09	1.09E-10	9.88E-10	2.52E-09
1063	564971.6	4222674	1.48E-08	1.00E-09	7.01E-09	2.28E-08	7.85E-09	1.10E-09	7.01E-09	1.60E-08	1.94E-09	1.96E-10	2.29E-09	4.43E-09	1.50E-09	1.09E-10	1.05E-09	2.66E-09
1064	564964.7	4222662	1.565E-08	1.00E-09	7.42E-09	2.41E-08	8.30E-09	1.10E-09	7.42E-09	1.68E-08	2.06E-09	1.96E-10	2.43E-09	4.68E-09	1.59E-09	1.09E-10	1.11E-09	2.81E-09
1065	564994.1	4222751	1.018E-08	1.00E-09	4.82E-09	1.60E-08	5.40E-09	1.10E-09	4.82E-09	1.13E-08	1.34E-09	1.96E-10	1.58E-09	3.11E-09	1.03E-09	1.09E-10	7.20E-10	1.86E-09
1066	564987.1	4222739	1.08E-08	1.00E-09	5.12E-09	1.69E-08	5.73E-09	1.10E-09	5.12E-09	1.19E-08	1.42E-09	1.96E-10	1.67E-09	3.29E-09	1.10E-09	1.09E-10	7.64E-10	1.97E-09
1067	564980.1	4222727	1.146E-08	1.00E-09	5.43E-09	1.79E-08	6.07E-09	1.10E-09	5.43E-09	1.26E-08	1.50E-09	1.96E-10	1.78E-09	3.48E-09	1.16E-09	1.09E-10	8.10E-10	2.08E-09
1068	564973.1	4222714	1.215E-08	1.00E-09	5.76E-09	1.89E-08	6.44E-09	1.10E-09	5.76E-09	1.33E-08	1.60E-09	1.96E-10	1.88E-09	3.68E-09	1.23E-09	1.09E-10	8.59E-10	2.20E-09
1069	564966.1	4222702	1.287E-08	1.00E-09	6.10E-09	2.00E-08	6.83E-09	1.10E-09	6.10E-09	1.40E-08	1.69E-09	1.96E-10	2.00E-09	3.88E-09	1.31E-09	1.09E-10	9.10E-10	2.33E-09
1070	564959.2	4222690	1.363E-08	1.00E-09	6.46E-09	2.11E-08	7.23E-09	1.10E-09	6.46E-09	1.48E-08	1.79E-09	1.96E-10	2.11E-09	4.10E-09	1.38E-09	1.09E-10	9.64E-10	2.46E-09
1071	564952.2	4222677	1.441E-08	1.00E-09	6.82E-09	2.22E-08	7.64E-09	1.10E-09	6.82E-09	1.56E-08	1.89E-09	1.96E-10	2.23E-09	4.32E-09	1.46E-09	1.09E-10	1.02E-09	2.59E-09
1072	564945.2	4222665	1.52E-08	1.00E-09	7.20E-09	2.34E-08	8.06E-09	1.10E-09	7.20E-09	1.64E-08	2.00E-09	1.96E-10	2.36E-09	4.55E-09	1.54E-09	1.09E-10	1.08E-09	2.73E-09
1073	564938.2	4222653	1.601E-08	1.00E-09	7.59E-09	2.46E-08	8.49E-09	1.10E-09	7.59E-09	1.72E-08	2.10E-09	1.96E-10	2.48E-09	4.78E-09	1.63E-09	1.09E-10	1.13E-09	2.87E-09
1074	564988.7	4222779	8.928E-09	1.00E-09	4.23E-09	1.42E-08	4.73E-09	1.10E-09	4.23E-09	1.01E-08	1.17E-09	1.96E-10	1.38E-09	2.75E-09	9.07E-10	1.09E-10	6.31E-10	1.65E-09
1075	564981.7	4222767	9.455E-09	1.00E-09	4.48E-09	1.49E-08	5.01E-09	1.10E-09	4.48E-09	1.06E-08	1.24E-09	1.96E-10	1.47E-09	2.90E-09	9.61E-10	1.09E-10	6.69E-10	1.74E-09
1076	564974.7	4222755	1.002E-08	1.00E-09	4.75E-09	1.58E-08	5.31E-09	1.10E-09	4.75E-09	1.12E-08	1.32E-09	1.96E-10	1.55E-09	3.06E-09	1.02E-09	1.09E-10	7.08E-10	1.84E-09
1077	564967.7	4222742	1.061E-08	1.00E-09	5.03E-09	1.66E-08	5.63E-09	1.10E-09	5.03E-09	1.18E-08	1.39E-09	1.96E-10	1.65E-09	3.23E-09	1.08E-09	1.09E-10	7.50E-10	1.94E-09
1078	564960.7	4222730	1.124E-08	1.00E-09	5.32E-09	1.76E-08	5.96E-09	1.10E-09	5.32E-09	1.24E-08	1.48E-09	1.96E-10	1.74E-09	3.41E-09	1.14E-09	1.09E-10	7.95E-10	2.05E-09
1079	564953.7	4222718	1.19E-08	1.00E-09	5.64E-09	1.85E-08	6.31E-09	1.10E-09	5.64E-09	1.30E-08	1.56E-09	1.96E-10	1.84E-09	3.60E-09	1.21E-09	1.09E-10	8.41E-10	2.16E-09
1080	564946.7	4222705	1.258E-08	1.00E-09	5.96E-09	1.96E-08	6.67E-09	1.10E-09	5.96E-09	1.37E-08	1.65E-09	1.96E-10	1.95E-09	3.80E-09	1.28E-09	1.09E-10	8.90E-10	2.28E-09
1081	564939.7	4222693	1.329E-08	1.00E-09	6.30E-09	2.06E-08	7.05E-09	1.10E-09	6.30E-09	1.44E-08	1.75E-09	1.96E-10	2.06E-09	4.00E-09	1.35E-09	1.09E-10	9.40E-10	2.40E-09
1082	564932.7	4222681	1.402E-08	1.00E-09	6.64E-09	2.17E-08	7.43E-09	1.10E-09	6.64E-09	1.52E-08	1.84E-09	1.96E-10	2.17E-09	4.21E-09	1.43E-09	1.09E-10	9.92E-10	2.53E-09
1083	564925.7	4222668	1.477E-08	1.00E-09	7.00E-09	2.28E-08	7.83E-09	1.10E-09	7.00E-09	1.59E-08	1.94E-09	1.96E-10	2.29E-09	4.42E-09	1.50E-09	1.09E-10	1.04E-09	2.65E-09
1084	564918.6	4222656	1.552E-08	1.00E-09	7.35E-09	2.39E-08	8.23E-09	1.10E-09	7.35E-09	1.67E-08	2.04E-09	1.96E-10	2.41E-09	4.64E-09	1.58E-09	1.09E-10	1.10E-09	2.78E-09
1085	564993.4	4222805	7.959E-09	1.00E-09	3.77E-09	1.27E-08	4.22E-09	1.10E-09	3.77E-09	9.09E-09	1.05E-09	1.96E-10	1.23E-09	2.48E-09	8.09E-10	1.09E-10	5.63E-10	1.48E-09
1086	564976.4	4222795	8.328E-09	1.00E-09	3.95E-09	1.33E-08	4.42E-09	1.10E-09	3.95E-09	9.46E-09	1.09E-09	1.96E-10	1.29E-09	2.58E-09	8.46E-10	1.09E-10	5.89E-10	1.54E-09
1087	564969.5	4222783	8.795E-09	1.00E-09	4.17E-09	1.40E-08	4.66E-09	1.10E-09	4.17E-09	9.93E-09	1.16E-09	1.96E-10	1.36E-09	2.71E-09	8.94E-10	1.09E-10	6.22E-10	1.63E-09
1088	564962.6	4222771	9.294E-09	1.00E-09	4.40E-09	1.47E-08	4.93E-09	1.10E-09	4.40E-09	1.04E-08	1.22E-09	1.96E-10	1.44E-09	2.86E-09	9.44E-10	1.09E-10	6.57E-10	1.71E-09
1089	564955.7	4222759	9.823E-09	1.00E-09	4.65E-09	1.55E-08	5.21E-09	1.10E-09	4.65E-09	1.10E-08	1.29E-09	1.96E-10	1.52E-09	3.01E-09	9.98E-10	1.09E-10	6.95E-10	1.80E-09
1090	564948.8	4222747	1.038E-08	1.00E-09	4.92E-09	1.63E-08	5.50E-09	1.10E-09	4.92E-09	1.15E-08	1.36E-09	1.96E-10	1.61E-09	3.17E-09	1.05E-09	1.09E-10	7.34E-10	1.90E-09
1091	564941.9	4222734	1.097E-08	1.00E-09	5.20E-09	1.72E-08	5.81E-09	1.10E-09	5.20E-09	1.21E-08	1.44E-09	1.96E-10	1.70E-09	3.34E-09	1.11E-09	1.09E-10	7.76E-10	2.00E-09
1092	564935	4222722	1.158E-08	1.00E-09	5.49E-09	1.81E-08	6.14E-09	1.10E-09	5.49E-09	1.27E-08	1.52E-09	1.96E-10	1.80E-09	3.51E-09	1.18E-09	1.09E-10	8.19E-10	2.10E-09
1093	564928.1	4222710	1.221E-08	1.00E-09	5.79E-09	1.90E-08	6.48E-09	1.10E-09	5.79E-09	1.34E-08	1.60E-09	1.96E-10	1.89E-09	3.69E-09	1.24E-09	1.09E-10	8.64E-10	2.21E-09
1094	564921.2	4222698	1.287E-08	1.00E-09	6.10E-09	2.00E-08	6.82E-09	1.10E-09	6.10E-09	1.40E-08	1.69E-09	1.96E-10	1.99E-09	3.88E-09	1.31E-09	1.09E-10	9.10E-10	2.33E-09
1095	564914.3	4222686	1.354E-08	1.00E-09	6.41E-09	2.10E-08	7.18E-09	1.10E-09	6.41E-09	1.47E-08	1.78E-09	1.96E-10	2.10E-09	4.07E-09	1.38E-09	1.09E-10	9.57E-10	2.44E-09
1096	564907.4	4222673	1.422E-08	1.00E-09	6.74E-09	2.20E-08	7.54E-09	1.10E-09	6.74E-09	1.54E-08	1.87E-09	1.96E-10	2.20E-09	4.27E-09	1.45E-09	1.09E-10	1.01E-09	2.56E-09
1097	564900.5	4222661	1.491E-08	1.00E-09	7.06E-09	2.30E-08	7.90E-09	1.10E-09	7.06E-09	1.61E-08	1.96E-09	1.96E-10	2.31E-09	4.47E-09	1.52E-09	1.09E-10	1.05E-09	2.68E-09
1098	564994.6	4222825	7.321E-09	1.00E-09	3.47E-09	1.18E-08	3.88E-09	1.10E-09	3.47E-09	8.45E-09	9.61E-10	1.96E-10	1.13E-09	2.29E-09	7.44E-10	1.09E-10	5.18E-10	1.37E-09
1099	564981.1	4222821	7.456E-09	1.00E-09	3.53E-09	1.20E-08	3.95E-09	1.10E-09	3.53E-09	8.59E-09	9.79E-10	1.96E-10	1.16E-09	2.33E-09	7.58E-10	1.09E-10	5.27E-10	1.39E-09
1100	564964.1	4222811	7.791E-09	1.00E-09	3.69E-09	1.25E-08	4.13E-09	1.10E-09	3.69E-09	8.92E-09	1.02E-09	1.96E-10	1.21E-09	2.43E-09	7.92E-10	1.09E-10	5.51E-10	1.45E-09
1101	564957.2	4222799	8.215E-09	1.00E-09	3.89E-09	1.31E-08	4.36E-09	1.10E-09	3.89E-09	9.35E-09	1.08E-09	1.96E-10	1.27E-09	2.55E-09	8.35E-10	1.09E-10	5.81E-10	1.53E-09
1102	564950.2	4222787	8.669E-09	1.00E-09	4.11E-09	1.38E-08	4.60E-09	1.10E-09	4.11E-09	9.80E-09	1.14E-09	1.96E-10	1.34E-09	2.68E-09	8.81E-10	1.09E-10	6.13E-10	1.60E-09
1103	564943.3	4222774	9.151E-09	1.00E-09	4.

1118	564944.8	4222814	7.692E-09	1.00E-09	3.64E-09	1.23E-08	4.08E-09	1.10E-09	3.64E-09	8.82E-09	1.01E-09	1.96E-10	1.19E-09	2.40E-09	7.82E-10	1.09E-10	5.44E-10	1.44E-09
1119	564937.9	4222802	8.106E-09	1.00E-09	3.84E-09	1.30E-08	4.30E-09	1.10E-09	3.84E-09	9.24E-09	1.06E-09	1.96E-10	1.26E-09	2.52E-09	8.24E-10	1.09E-10	5.73E-10	1.51E-09
1120	564930.9	4222790	8.546E-09	1.00E-09	4.05E-09	1.36E-08	4.53E-09	1.10E-09	4.05E-09	9.68E-09	1.12E-09	1.96E-10	1.32E-09	2.64E-09	8.68E-10	1.09E-10	6.04E-10	1.58E-09
1121	564924	4222778	9.01E-09	1.00E-09	4.27E-09	1.43E-08	4.78E-09	1.10E-09	4.27E-09	1.01E-08	1.18E-09	1.96E-10	1.40E-09	2.78E-09	9.16E-10	1.09E-10	6.37E-10	1.66E-09
1122	564917	4222765	9.499E-09	1.00E-09	4.50E-09	1.50E-08	5.04E-09	1.10E-09	4.50E-09	1.06E-08	1.25E-09	1.96E-10	1.47E-09	2.92E-09	9.65E-10	1.09E-10	6.72E-10	1.75E-09
1123	564910.1	4222753	1.001E-08	1.00E-09	4.74E-09	1.58E-08	5.31E-09	1.10E-09	4.74E-09	1.12E-08	1.31E-09	1.96E-10	1.55E-09	3.06E-09	1.02E-09	1.09E-10	7.08E-10	1.83E-09
1124	564903.1	4222741	1.054E-08	1.00E-09	5.00E-09	1.65E-08	5.59E-09	1.10E-09	5.00E-09	1.17E-08	1.38E-09	1.96E-10	1.63E-09	3.22E-09	1.07E-09	1.09E-10	7.46E-10	1.93E-09
1125	564896.2	4222729	1.11E-08	1.00E-09	5.26E-09	1.74E-08	5.88E-09	1.10E-09	5.26E-09	1.22E-08	1.46E-09	1.96E-10	1.72E-09	3.37E-09	1.13E-09	1.09E-10	7.85E-10	2.02E-09
1126	564889.3	4222716	1.166E-08	1.00E-09	5.53E-09	1.82E-08	6.18E-09	1.10E-09	5.53E-09	1.28E-08	1.53E-09	1.96E-10	1.81E-09	3.54E-09	1.19E-09	1.09E-10	8.25E-10	2.12E-09
1127	564882.3	4222704	1.224E-08	1.00E-09	5.80E-09	1.90E-08	6.49E-09	1.10E-09	5.80E-09	1.34E-08	1.61E-09	1.96E-10	1.90E-09	3.70E-09	1.24E-09	1.09E-10	8.66E-10	2.22E-09
1128	564875.4	4222692	1.284E-08	1.00E-09	6.08E-09	1.99E-08	6.81E-09	1.10E-09	6.08E-09	1.40E-08	1.69E-09	1.96E-10	1.99E-09	3.87E-09	1.30E-09	1.09E-10	9.08E-10	2.32E-09
1129	564868.4	4222680	1.343E-08	1.00E-09	6.36E-09	2.08E-08	7.12E-09	1.10E-09	6.36E-09	1.46E-08	1.76E-09	1.96E-10	2.08E-09	4.04E-09	1.36E-09	1.09E-10	9.50E-10	2.42E-09
1130	564861.5	4222667	1.403E-08	1.00E-09	6.65E-09	2.17E-08	7.44E-09	1.10E-09	6.65E-09	1.52E-08	1.84E-09	1.96E-10	2.17E-09	4.21E-09	1.43E-09	1.09E-10	9.92E-10	2.53E-09
1131	564854.5	4222655	1.463E-08	1.00E-09	6.93E-09	2.26E-08	7.76E-09	1.10E-09	6.93E-09	1.58E-08	1.92E-09	1.96E-10	2.27E-09	4.38E-09	1.49E-09	1.09E-10	1.03E-09	2.63E-09
1132	564997.2	4222864	6.251E-09	1.00E-09	2.96E-09	1.02E-08	3.31E-09	1.10E-09	2.96E-09	7.38E-09	8.21E-10	1.96E-10	9.69E-10	1.99E-09	6.35E-10	1.09E-10	4.42E-10	1.19E-09
1133	564983.6	4222860	6.36E-09	1.00E-09	3.01E-09	1.04E-08	3.37E-09	1.10E-09	3.01E-09	7.49E-09	8.35E-10	1.96E-10	9.86E-10	2.02E-09	6.46E-10	1.09E-10	4.50E-10	1.21E-09
1134	564970	4222856	6.472E-09	1.00E-09	3.07E-09	1.05E-08	3.43E-09	1.10E-09	3.07E-09	7.60E-09	8.50E-10	1.96E-10	1.00E-09	2.05E-09	6.58E-10	1.09E-10	4.58E-10	1.22E-09
1135	564956.4	4222852	6.586E-09	1.00E-09	3.12E-09	1.07E-08	3.49E-09	1.10E-09	3.12E-09	7.71E-09	8.65E-10	1.96E-10	1.02E-09	2.08E-09	6.69E-10	1.09E-10	4.66E-10	1.24E-09
1136	564939.4	4222842	6.867E-09	1.00E-09	3.25E-09	1.11E-08	3.64E-09	1.10E-09	3.25E-09	8.00E-09	9.02E-10	1.96E-10	1.06E-09	2.16E-09	6.98E-10	1.09E-10	4.86E-10	1.29E-09
1137	564932.4	4222830	7.22E-09	1.00E-09	3.42E-09	1.16E-08	3.83E-09	1.10E-09	3.42E-09	8.35E-09	9.48E-10	1.96E-10	1.12E-09	2.26E-09	7.34E-10	1.09E-10	5.11E-10	1.35E-09
1138	564925.5	4222818	7.598E-09	1.00E-09	3.60E-09	1.22E-08	4.03E-09	1.10E-09	3.60E-09	8.73E-09	9.98E-10	1.96E-10	1.18E-09	2.37E-09	7.72E-10	1.09E-10	5.37E-10	1.42E-09
1139	564918.5	4222806	7.999E-09	1.00E-09	3.79E-09	1.28E-08	4.24E-09	1.10E-09	3.79E-09	9.13E-09	1.05E-09	1.96E-10	1.24E-09	2.49E-09	8.13E-10	1.09E-10	5.66E-10	1.49E-09
1140	564911.5	4222793	8.424E-09	1.00E-09	3.99E-09	1.34E-08	4.47E-09	1.10E-09	3.99E-09	9.56E-09	1.11E-09	1.96E-10	1.31E-09	2.61E-09	8.56E-10	1.09E-10	5.96E-10	1.56E-09
1141	564904.6	4222781	8.872E-09	1.00E-09	4.20E-09	1.41E-08	4.70E-09	1.10E-09	4.20E-09	1.00E-08	1.17E-09	1.96E-10	1.38E-09	2.74E-09	9.02E-10	1.09E-10	6.27E-10	1.64E-09
1142	564897.6	4222769	9.341E-09	1.00E-09	4.43E-09	1.48E-08	4.95E-09	1.10E-09	4.43E-09	1.05E-08	1.23E-09	1.96E-10	1.45E-09	2.87E-09	9.49E-10	1.09E-10	6.61E-10	1.72E-09
1143	564890.7	4222756	9.83E-09	1.00E-09	4.66E-09	1.55E-08	5.21E-09	1.10E-09	4.66E-09	1.10E-08	1.29E-09	1.96E-10	1.52E-09	3.01E-09	9.99E-10	1.09E-10	6.95E-10	1.80E-09
1144	564883.7	4222744	1.034E-08	1.00E-09	4.90E-09	1.62E-08	5.48E-09	1.10E-09	4.90E-09	1.15E-08	1.36E-09	1.96E-10	1.60E-09	3.16E-09	1.05E-09	1.09E-10	7.31E-10	1.89E-09
1145	564876.7	4222732	1.086E-08	1.00E-09	5.15E-09	1.70E-08	5.76E-09	1.10E-09	5.15E-09	1.20E-08	1.43E-09	1.96E-10	1.68E-09	3.31E-09	1.10E-09	1.09E-10	7.68E-10	1.98E-09
1146	564869.8	4222720	1.14E-08	1.00E-09	5.40E-09	1.78E-08	6.04E-09	1.10E-09	5.40E-09	1.25E-08	1.50E-09	1.96E-10	1.77E-09	3.46E-09	1.16E-09	1.09E-10	8.06E-10	2.07E-09
1147	564862.8	4222707	1.195E-08	1.00E-09	5.66E-09	1.86E-08	6.33E-09	1.10E-09	5.66E-09	1.31E-08	1.57E-09	1.96E-10	1.85E-09	3.62E-09	1.21E-09	1.09E-10	8.45E-10	2.17E-09
1148	564855.9	4222695	1.25E-08	1.00E-09	5.92E-09	1.94E-08	6.63E-09	1.10E-09	5.92E-09	1.37E-08	1.64E-09	1.96E-10	1.94E-09	3.78E-09	1.27E-09	1.09E-10	8.84E-10	2.26E-09
1149	564848.9	4222683	1.306E-08	1.00E-09	6.19E-09	2.03E-08	6.92E-09	1.10E-09	6.19E-09	1.42E-08	1.72E-09	1.96E-10	2.02E-09	3.94E-09	1.33E-09	1.09E-10	9.24E-10	2.36E-09
1150	564841.9	4222671	1.362E-08	1.00E-09	6.45E-09	2.11E-08	7.22E-09	1.10E-09	6.45E-09	1.48E-08	1.79E-09	1.96E-10	2.11E-09	4.10E-09	1.38E-09	1.09E-10	9.63E-10	2.46E-09
1151	564835	4222658	1.417E-08	1.00E-09	6.71E-09	2.19E-08	7.51E-09	1.10E-09	6.71E-09	1.53E-08	1.86E-09	1.96E-10	2.20E-09	4.25E-09	1.44E-09	1.09E-10	1.00E-09	2.55E-09
1152	564998.6	4222884	5.805E-09	1.00E-09	2.75E-09	9.56E-09	3.08E-09	1.10E-09	2.75E-09	6.93E-09	7.62E-10	1.96E-10	9.00E-10	1.86E-09	5.90E-10	1.09E-10	4.11E-10	1.11E-09
1153	564985	4222880	5.902E-09	1.00E-09	2.80E-09	9.70E-09	3.13E-09	1.10E-09	2.80E-09	7.03E-09	7.75E-10	1.96E-10	9.15E-10	1.89E-09	6.00E-10	1.09E-10	4.17E-10	1.13E-09
1154	564971.4	4222876	6.002E-09	1.00E-09	2.84E-09	9.85E-09	3.18E-09	1.10E-09	2.84E-09	7.13E-09	7.88E-10	1.96E-10	9.30E-10	1.91E-09	6.10E-10	1.09E-10	4.24E-10	1.14E-09
1155	564957.7	4222872	6.104E-09	1.00E-09	2.89E-09	1.00E-08	3.24E-09	1.10E-09	2.89E-09	7.23E-09	8.02E-10	1.96E-10	9.46E-10	1.94E-09	6.20E-10	1.09E-10	4.32E-10	1.16E-09
1156	564944.1	4222868	6.209E-09	1.00E-09	2.94E-09	1.02E-08	3.29E-09	1.10E-09	2.94E-09	7.33E-09	8.15E-10	1.96E-10	9.62E-10	1.97E-09	6.31E-10	1.09E-10	4.39E-10	1.18E-09
1157	564927	4222858	6.468E-09	1.00E-09	3.06E-09	1.05E-08	3.43E-09	1.10E-09	3.06E-09	7.59E-09	8.49E-10	1.96E-10	1.00E-09	2.05E-09	6.57E-10	1.09E-10	4.57E-10	1.22E-09
1158	564920.1	4222846	6.791E-09	1.00E-09	3.22E-09	1.10E-08	3.60E-09	1.10E-09	3.22E-09	7.92E-09	8.92E-10	1.96E-10	1.05E-09	2.14E-09	6.90E-10	1.09E-10	4.80E-10	1.28E-09
1159	564913.1	4222834	7.137E-09	1.00E-09	3.38E-09	1.15E-08	3.78E-09	1.10E-09	3.38E-09	8.27E-09	9.37E-10	1.96E-10	1.11E-09	2.24E-09	7.25E-10	1.09E-10	5.05E-10	1.34E-09
1160	564906.1	4222821	7.505E-09	1.00E-09	3.56E-09	1.21E-08	3.98E-09	1.10E-09	3.56E-09	8.64E-09	9.86E-10	1.96E-10	1.16E-09	2.35E-09	7.63E-10	1.09E-10	5.31E-10	1.40E-09
1161	564899.1	4222809	7.894E-09	1.00E-09	3.74E-09	1.26E-08	4.19E-09	1.10E-09	3.74E-09	9.03E-09	1.04E-09	1.96E-10	1.22E-09	2.46E-09	8.02E-10	1.09E-10	5.58E-10	1.47E-09
1162	564892.1	4222797	8.305E-09	1.00E-09	3.93E-09	1.32E-08	4.40E-09	1.10E-09	3.93E-09	9.44E-09	1.09E-09	1.96E-10	1.29E-09	2.57E-09	8.44E-10	1.09E-10	5.87E-10	1.54E-09
1163	564885.2	4222784	8.735E-09	1.00E-09	4.14E-09	1.39E-08	4.63E-09	1.10E-09	4.14E-09	9.87E-09	1.15E-09	1.96E-10	1.35E-09	2.70E-09	8.88E-10	1.09E-10	6.18E-10	1.61E-09
1164	564878.2	4222772	9.185E-09	1.00E-09	4.35E-09	1.45E-08	4.87E-09	1.10E-09	4.35E-09	1.03E-08	1.21E-09	1.96E-10	1.42E-09	2.83E-09	9.33E-10	1.09E-10	6.50E-10	1.69E-09
1165	564871.2	4222760	9.653E-09	1.00E-09	4.57E-09	1.52E-08	5.12E-09	1.10E-09	4.57E-09	1.08E-08	1.27E-09	1.96E-10	1.50E-09	2.96E-09	9.81E-10	1.09E-10	6.83E-10	1.77E-09
1166	564864.2	4222747	1.014E-08	1.00E-09	4.80E-09	1.59E-08	5.37E-09	1.10E-09	4.80E-09	1.13E-08	1.33E-09	1.96E-10	1.57E-09	3.10E-09	1.03E-09	1.09E-10	7.17E-10	1.86E-09
1167	564857.3	4222735	1.063E-08	1.00E-09	5.04E-09	1.67E-08	5.64E-09	1.10E-09	5.04E-09	1.18E-08	1.40E-09	1.96E-10	1.65E-09	3.24E-09	1.08E-09	1.09E-10	7.52E-10	1.94E-09
1168	564850.3	4222723	1.114E-08	1.00E-09	5.28E-09	1.74E-08	5.91E-09	1.10E-09	5.28E-09	1.23E-08	1.46E-09	1.96E-10	1.73E-09	3.39E-09	1.13E-09	1.09E-10	7.88E-10	2.03E-09
1169	564843.3	4222710	1.166E-08	1.00E-09	5.52E-09	1.82E-08	6.18E-09	1.10E-09	5.52E-09	1.28E-08	1.53E-09	1.96E-10	1.81E-09	3.53E-09	1.18E-09	1.09E-10	8.24E-10	2.12E-09
1170	564836.3	4222698	1.218E-08	1.00E-09	5.77E-09	1.90E-08	6.46E-09	1.10E-09	5.77E-09	1.33E-08	1.60E-09	1.96E-10	1.89E-09	3.68E-09	1.24E-09	1.09E-10	8.61E-10	2.21E-09
1171	564829.4	4222686	1.27E-08	1.00E-09	6.02E-09	1.97E-08	6.73E-09	1.10E-09	6.02E-09	1.39E-08	1.67E-09	1.96E-10	1.97E-09	3.83E-09	1.29E-09	1.09E-10	8.98E-10	2.30E-09
1172	564822.4	4222674	1.322E-08	1.00E-09	6.26E-09	2.05E-08	7.01E-09	1.10E-09	6.26E-09	1.44E-08	1.74E-09	1.96E-10	2.05E-09	3.98E-09	1.34E-09	1.09E-10	9.35E-10	2.39E-09
1173	564815.4	4222661	1.374E-08	1.00E-09	6.51E-09	2.13E-08	7.28E-09	1.10E-09	6.51E-09	1.49E-08	1.80E-09	1.96E-10	2.13E-09	4.13E-09	1.40E-09	1.09E-10	9.72E-10	2.48E-09
1174	564992.3	4222890	5.68E-09	1.00E-09	2.69E-09	9.38E-09	3.01E-09	1.10E-09	2.69E-09	6.80E-09	7.46E-10	1.96E-10	8.80E-10	1.82E-09	5.77E-10	1.09E-10	4.02E-10	1.09E-09
1175	564996.7	4222814	7.643E-09	1.00E-09	3.62E-09	1.23E-08	4.05E-09	1.10E-09	3.62E-09	8.77E-09	1.00E-09	1.96E-10	1.18E-09	2.38E-09	7.77E-10	1.09E-10	5.41E-10	1.43E-09
1176	564988	4222795	8.315E-09	1.00E-09	3.94E-09	1.33E-08	4.41E-09	1.10E-09	3.94E-09	9.45E-09	1.09E-09	1.96E-10	1.29E-09	2.58E-09	8.45E-10	1.09E-10	5.88E-10	1.54E-09
1177	564979.3	4222776	9.068E-09	1.00E-09	4.30E-09	1.44E-08	4.81E-09	1.10E-09	4.30E-09	1.02E-08	1.19E-09	1.96E-10	1.41E-09	2.79E-09	9.22E-10	1.09E-10	6.41E-10	1.67E-09
1178	564974.5	4222810	7.818E-09	1.00E-09	3.70E-09	1.25E-08	4.15E-09	1.10E-09	3.70E-09	8.95E-09	1.03E-09	1.96E-10	1.21E-09	2.44E-09	7.95E-10	1.09E-10	5.53E-10	1.46E-09
1179	564988.6	4222870	6.119E-09	1.00E-09	2.90E-09	1.00E-08	3.24E-09	1.10E-09	2.90E-09	7.24E-09	8.04E-10	1.96E-10	9.48E-10	1.95E-09	6.22E-10	1.09E-10	4.33E-10	1.16E-09
1180	564963	4222829	7.233E-09	1.00E-09	3.43E-09	1.17E-08	3.83E-09	1.10E-09	3.43E-09	8.36E-09	9.50E-10	1.96E-10	1.12E-09	2.27E-09	7.35E-10	1.09E-10	5.12E-10	1.36E-09
1181	564954.3	4222809	7.847E-09	1.00E-09	3.72E-09	1.26E-08	4.16E-09	1.10E-09	3.72E-09	8.98E-09	1.03E-09	1.96E-10	1.22E-09	2.44E-09	7.97E-10	1.09E-10	5.55E-10	1.46E-09
1182	564884.4	4222655	1.507E-08	1.00E-09	7.14E-09	2.32E-08	7.99E-09	1.10E-09	7.14E-09	1.62E-08	1.98E-09	1.96E-10	2.34E-09	4.51E-09	1.53E-09	1.09E-10	1.07E-09	2.71E-09
1183	564975.3	4222885	5.8E-09	1.00E-09	2.75E-09	9.55E-09	3.07E-09	1.10E-09	2.75E-09	6.92E-09	7.62E-10	1.96E-10	8.99E-10	1.86E-09	5.89E-10	1.09E-10	4.10E-10	1.11E-09
1184	564958.5	4222863	6.315E-09	1.00E-09	2.99E-09	1.03E-08	3.35E-09	1.10E-09	2.99E-09	7.44E-09	8.29E-10	1.96E-10	9.79E-10	2.00E-09	6.42E-10	1.09E-10	4.47E-10	1.20E-09
1185	564949.8	4222844	6.82E-09	1.00E-09	3.23E-09	1.11E-08	3.62E-09	1.10E-09	3.23E-09	7.95E-09	8.96E-10	1.96E-10	1.06E-09	2.15E-09	6.93E-10	1.09E-10	4.82E-10	1.28E-09
1186	564944.5	4222832	7.149E-09	1.00E-09	3.39E-09	1.15E-08	3.79E-09	1.10E-09	3.39E-09	8.28E-09	9.39E-10	1.96E-10	1.11E-09	2.24E-09	7.27E-10	1.09E-10	5.06E-10	1.34E-09
1187	564935.8	4222813	7.746E-09	1.00E-09	3.67E-09	1.24E-08	4.11E-09	1.10E-09	3.67E-09	8.88E-09	1.02E-09	1.96E-10	1.20E-09	2.41E-09	7.87E-10	1.09E-10	5.48E-10	1.44E-09
1188	564871.3	4222670	1.398E-08	1.00E-09	6.63E-09	2.16E-08	7.41E-09	1.10E-09	6.63E-09	1.51E-08	1.84E-09	1.96E-10	2.17E-09	4.20E-09	1.42E-09	1.09E-10	9.89E-10	2.52E-09
1189	564866	4222659	1.458E-08	1.00E-09	6.91E-09	2.25E-08	7.73E-09	1.10E-09	6.91E-09	1.57E-08	1.92E-09	1.96E-10	2.26E-09	4.37E-09	1.48E-09	1.09E-10	1.03E-09	2.62E-09
1190	565388.8	4223035	3.888E-09	1.00E-09	1.84E-09	6.74E-09	2.06E-09	1.10E-09	1.84E-09	5.00E-09	5.11E-10	1.96E-10	6.03E-10	1.31E-09	3.95E-10	1.09E-10	2.75E-10	7.79E-10
1191	564990.2	4222909	5.312E-09	1.00E-09	2.52E-09	8.83E-09	2.82E-09	1.10E-09	2.52E-09	6.43E-09	6.98E-10	1.96E-10	8.24E-10	1.72E-09	5.40E-10	1.09E-10	3.76E-10	1.02E-09
1192	564978.1	4222905	5.394E-09	1.00E-09	2.56E-09	8.95E-09	2.86E-09	1.10E-09	2.56E-09	6.52E-09	7.08E-10	1.96E-10	8.36E-10	1.74E-09	5.48E-10	1.09E-10	3.81E-10	1.04E-09
1193	564966	4222901	5.478E-09	1.00E-09	2.60E-09	9.08E-09	2.90E-09	1.10E-09	2.60E-09	6.60E-09	7.19E-10	1.96E-10	8.49E-10	1.76E-09	5.57E-10	1.09E-10	3.87E-10	1.05E-09
1194	564952.2	4222893	5.644E-09	1.00E-09	2.67E-09	9.32E-09	2.99E-09	1.10E-09	2.67E-09	6.77E-09	7.41E-10	1.96E-10	8.75E-10	1.81E-09	5.74E-10	1.09E-10	3.99E-10	1.08E-09
1195	564947	4222882	5.893E-09	1.00E-09	2.79E-09	9.69E-09	3.12E-09	1.10E-09	2.79E-09	7.02E-09	7.74E-10	1.96E-10	9.14E-10	1.88E-09	5.99E-10	1.09E-10	4.17E-10	1.12E-09
1196	564936.5	4222859	6.442E-09	1.00E-09	3.05E-09	1.05E-08	3.42E-09	1.10E-09	3.05E-09	7.57E-09	8.46E-10	1.96E-10	9.99E-10	2.04E-09	6.55E-10	1.09E-10	4.56E-10	1.22E-09
1197	564931.3	4222847	6.743E-09	1.00E-09	3.19E-09	1.09E-08	3.58E-09	1.10E-09	3.19E-09	7.87E-09	8.86E-10	1.96E-10	1.05E-09	2.13E-09	6.85E-10	1.09E-10	4.77E-10	1.27E-09
1198	564922.6	4222828	7.29E-09	1.00E-09	3.45E-09	1.17E-08	3.86E-09	1.10E-09	3.45E-09	8.42E-09	9.57E-10	1.96E-10	1.13E-09	2.28E-09	7.41E-10	1.09E-10	5.16E-10	1.37E-09
1199	564858.1	4222686	1.3E-08	1.00E-09	6.16E-09	2.02E-08	6.89E-09	1.10E-09	6.16E-09	1.42E-08	1.71E-09	1.96E-10	2.02E-09	3.92E-09	1.32E-09	1.09E-10	9.20E-10	2.35E-09
1200	564852.9	4222674	1.356E-08	1.00E-09	6.42E-09	2.10E-08	7.19E-09	1.10E-09	6.42E-09	1.47E-08	1.78E-09	1.96E-10	2.10E-09	4.08E-09	1.38E-09	1.09E-10	9.59E-10	2.45E-09
1201	564847.6	4222663	1.412E-08	1.00E-09	6.69E-09	2.18E-08	7.48E-09	1.10E-09	6.69E-09	1.53E-08	1.85E-09	1.96E-10	2.19E-09	4.24E-09	1.43E-09	1.09E-10	9.98E-10	2.54E-09
1202	565391.1	4223055	3.703E-09	1.00E-09	1.75E-09	6.46E-09	1.96E-09	1.10E-09	1.75E-09	4.82E-09	4.86E-10	1.96E-10	5.74E-10	1.26E-09	3.76E-10	1.09E-10	2.62E-10	7.47E-10
1203	564993	4222929	4.962E-09	1.00E-09	2.35E-09	8.32E-09	2.63E-09	1.10E-09	2.35E-09	6.08E-09	6.52E-10	1.96E-10	7.69E-10	1.62E-09	5.04E-10	1.09E-10	3.51E-10	9.64E-10
1204	564980.9	4222925	5.033E-09	1.00E-09	2.38E-09	8.42E-09	2.67E-09	1.10E-09	2.38E-09	6.15E-09	6.61E-10	1.96E-10	7.80E-10	1.64E-09	5.12E-10	1.09E-10	3.56E-10	9.77E-10
1205	564968.8	4222921	5.108E-09	1.00E-09	2.42E-09	8.53E-09	2.71E-09	1.10E-09	2.42E-09	6.23E-09	6.71E-10	1.96E-10	7.92E-10	1.66E-09	5.19E-10	1.09E-10	3.61E-10	9.90E-10
1206	564956.8	4222917	5.184E-09	1.00E-09	2.46E-09	8.64E-09	2.75E-09	1.10E-09	2.46E-09	6.31E-09	6.81E-10	1.96E-10	8.04E-10	1.68E-09	5.27E-10	1.09E-10	3.67E-10	1.00E-09
1207	564944.7	4222913	5.263E-09	1.00E-09	2.49E-09	8.76E-09	2.79E-09	1.10E-09	2.49E-09	6.39E-09	6.91E-10	1.96E-10	8.16E-10	1.70E-09	5.35E-10	1.09E-10	3.72E-10	1.02E-09
1208	564937.2	4222905	5.438E-09	1.00E-09	2.58E-09	9.02E-09	2.88E-09	1.10E-09	2.58E-09	6.56E-09	7.14E-10	1.96E-10	8.43E-10	1.75E-09	5.53E-10	1.09E-10	3.85E-10	1.05E-09
1209	564932	4222893	5.672E-09	1.00E-09	2.69E-09	9.36E-09	3.01E-09	1.10E-09	2.69E-09	6.80E-09	7.45E-10	1.96E-10	8.79E-10	1.82E-09	5.76E-10	1.09E-10	4.01E-10	1.09E-09
1210	564926.8	4222881	5.923E-09	1.00E-09	2.81E-09	9.73E-09	3.14E-09	1.10E-09	2.81E-09	7.05E-09	7.78E-10	1.96E-10	9.18E-10	1.89E-09	6.02E-10	1.09E-10	4.19E-10	1.13E-09
1211	564921.5	4222870	6.188E-09	1.00E-09	2.93E-09	1.01E-08	3.28E-09	1.10E-09	2.93E-09	7.31E-09	8.13E-10	1.96E-10	9.59E-10	1.97E-09	6.29E-10	1.09E-10	4.38E-10	1.18E-09
1212	564916.3	4222858	6.47E-09	1.00E-09	3.07E-09	1.05E-08	3.43E-09	1.10E-09	3.07E-09	7.60E-09	8.50E-10	1.96E-10	1.00E-09	2.05E-09	6.57E-10	1.09E-10	4.58E-10	1.22E-09
1213	564911.1	4222847	6.769E-09	1.00E-09	3.21E-09	1.10E-08	3.59E-09	1.10E-09	3.21E-09	7.90E-09	8.89E-10	1.96E-10	1.05E-09	2.13E-09	6.88E-10	1.09E-10	4.79E-10	1.28E-09
1214	564904.1	4222832	7.2E-09	1.00E-09	3.41E-09	1.16E-08	3.82E-09	1.10E-09	3.41E-09	8.33E-09	9.46E-10	1.96E-10	1.12E-09	2.26E-09	7.32E-10	1.09E-10	5.09E-10	1.35E-09
1215	564845	4222701	1.212E-08	1.00E-09	5.74E-09	1.89E-08

1230	564873.5	4222808	7.915E-09	1.00E-09	3.75E-09	1.27E-08	4.20E-09	1.10E-09	3.75E-09	9.05E-09	1.04E-09	1.96E-10	1.23E-09	2.46E-09	8.04E-10	1.09E-10	5.60E-10	1.47E-09
1231	564868.3	4222797	8.288E-09	1.00E-09	3.93E-09	1.32E-08	4.39E-09	1.10E-09	3.93E-09	9.42E-09	1.09E-09	1.96E-10	1.28E-09	2.57E-09	8.42E-10	1.09E-10	5.86E-10	1.54E-09
1232	564863.1	4222785	8.679E-09	1.00E-09	4.11E-09	1.38E-08	4.60E-09	1.10E-09	4.11E-09	9.81E-09	1.14E-09	1.96E-10	1.35E-09	2.68E-09	8.82E-10	1.09E-10	6.14E-10	1.61E-09
1233	564857.9	4222774	9.085E-09	1.00E-09	4.30E-09	1.44E-08	4.82E-09	1.10E-09	4.30E-09	1.02E-08	1.19E-09	1.96E-10	1.41E-09	2.80E-09	9.23E-10	1.09E-10	6.42E-10	1.68E-09
1234	564852.7	4222762	9.506E-09	1.00E-09	4.50E-09	1.50E-08	5.04E-09	1.10E-09	4.50E-09	1.06E-08	1.25E-09	1.96E-10	1.47E-09	2.92E-09	9.66E-10	1.09E-10	6.72E-10	1.75E-09
1235	564847.4	4222751	9.942E-09	1.00E-09	4.71E-09	1.57E-08	5.27E-09	1.10E-09	4.71E-09	1.11E-08	1.31E-09	1.96E-10	1.54E-09	3.04E-09	1.01E-09	1.09E-10	7.03E-10	1.82E-09
1236	564842.2	4222739	1.039E-08	1.00E-09	4.92E-09	1.63E-08	5.51E-09	1.10E-09	4.92E-09	1.15E-08	1.36E-09	1.96E-10	1.61E-09	3.17E-09	1.06E-09	1.09E-10	7.35E-10	1.90E-09
1237	564837	4222728	1.085E-08	1.00E-09	5.14E-09	1.70E-08	5.75E-09	1.10E-09	5.14E-09	1.20E-08	1.42E-09	1.96E-10	1.68E-09	3.30E-09	1.10E-09	1.09E-10	7.67E-10	1.98E-09
1238	564831.8	4222716	1.132E-08	1.00E-09	5.36E-09	1.77E-08	6.00E-09	1.10E-09	5.36E-09	1.25E-08	1.49E-09	1.96E-10	1.75E-09	3.44E-09	1.15E-09	1.09E-10	8.00E-10	2.06E-09
1239	564826.6	4222705	1.179E-08	1.00E-09	5.59E-09	1.84E-08	6.25E-09	1.10E-09	5.59E-09	1.29E-08	1.55E-09	1.96E-10	1.83E-09	3.57E-09	1.20E-09	1.09E-10	8.34E-10	2.14E-09
1240	564821.4	4222693	1.228E-08	1.00E-09	5.82E-09	1.91E-08	6.51E-09	1.10E-09	5.82E-09	1.34E-08	1.61E-09	1.96E-10	1.90E-09	3.71E-09	1.25E-09	1.09E-10	8.68E-10	2.22E-09
1241	564816.1	4222682	1.276E-08	1.00E-09	6.05E-09	1.98E-08	6.77E-09	1.10E-09	6.05E-09	1.39E-08	1.68E-09	1.96E-10	1.98E-09	3.85E-09	1.30E-09	1.09E-10	9.02E-10	2.31E-09
1242	564996.7	4222701	1.309E-08	1.00E-09	6.20E-09	2.03E-08	6.94E-09	1.10E-09	6.20E-09	1.42E-08	1.72E-09	1.96E-10	2.03E-09	3.95E-09	1.33E-09	1.09E-10	9.26E-10	2.37E-09
1243	564988.7	4222730	1.13E-08	1.00E-09	5.35E-09	1.77E-08	5.99E-09	1.10E-09	5.35E-09	1.24E-08	1.48E-09	1.96E-10	1.75E-09	3.43E-09	1.15E-09	1.09E-10	7.99E-10	2.06E-09
1244	564978.2	4222704	1.278E-08	1.00E-09	6.05E-09	1.98E-08	6.77E-09	1.10E-09	6.05E-09	1.39E-08	1.68E-09	1.96E-10	1.98E-09	3.86E-09	1.30E-09	1.09E-10	9.04E-10	2.31E-09
1245	564974.7	4222696	1.331E-08	1.00E-09	6.31E-09	2.06E-08	7.06E-09	1.10E-09	6.31E-09	1.45E-08	1.75E-09	1.96E-10	2.06E-09	4.01E-09	1.35E-09	1.09E-10	9.41E-10	2.40E-09
1246	564964.4	4222719	1.183E-08	1.00E-09	5.60E-09	1.84E-08	6.27E-09	1.10E-09	5.60E-09	1.30E-08	1.55E-09	1.96E-10	1.83E-09	3.58E-09	1.20E-09	1.09E-10	8.36E-10	2.15E-09
1247	564961	4222711	1.23E-08	1.00E-09	5.83E-09	1.91E-08	6.52E-09	1.10E-09	5.83E-09	1.35E-08	1.62E-09	1.96E-10	1.91E-09	3.72E-09	1.25E-09	1.09E-10	8.70E-10	2.23E-09
1248	564991.9	4222834	7.034E-09	1.00E-09	3.33E-09	1.14E-08	3.73E-09	1.10E-09	3.33E-09	8.16E-09	9.24E-10	1.96E-10	1.09E-09	2.21E-09	7.15E-10	1.09E-10	4.97E-10	1.32E-09
1249	564947.2	4222726	1.141E-08	1.00E-09	5.41E-09	1.78E-08	6.05E-09	1.10E-09	5.41E-09	1.26E-08	1.50E-09	1.96E-10	1.77E-09	3.46E-09	1.16E-09	1.09E-10	8.07E-10	2.08E-09
1250	564943.7	4222718	1.185E-08	1.00E-09	5.62E-09	1.85E-08	6.28E-09	1.10E-09	5.62E-09	1.30E-08	1.56E-09	1.96E-10	1.84E-09	3.59E-09	1.20E-09	1.09E-10	8.38E-10	2.15E-09
1251	564977.6	4222848	6.665E-09	1.00E-09	3.16E-09	1.08E-08	3.53E-09	1.10E-09	3.16E-09	7.79E-09	8.75E-10	1.96E-10	1.03E-09	2.10E-09	6.77E-10	1.09E-10	4.71E-10	1.26E-09
1252	564932.2	4222738	1.075E-08	1.00E-09	5.09E-09	1.68E-08	5.70E-09	1.10E-09	5.09E-09	1.19E-08	1.41E-09	1.96E-10	1.67E-09	3.27E-09	1.09E-09	1.09E-10	7.60E-10	1.96E-09
1253	564925.2	4222721	1.159E-08	1.00E-09	5.49E-09	1.81E-08	6.14E-09	1.10E-09	5.49E-09	1.27E-08	1.52E-09	1.96E-10	1.80E-09	3.51E-09	1.18E-09	1.09E-10	8.20E-10	2.11E-09
1254	564914.9	4222745	1.04E-08	1.00E-09	4.93E-09	1.63E-08	5.51E-09	1.10E-09	4.93E-09	1.15E-08	1.37E-09	1.96E-10	1.61E-09	3.17E-09	1.06E-09	1.09E-10	7.35E-10	1.90E-09
1255	564911.4	4222736	1.078E-08	1.00E-09	5.11E-09	1.69E-08	5.72E-09	1.10E-09	5.11E-09	1.19E-08	1.42E-09	1.96E-10	1.67E-09	3.28E-09	1.10E-09	1.09E-10	7.62E-10	1.97E-09
1256	564986.8	4222899	5.493E-09	1.00E-09	2.60E-09	9.10E-09	2.91E-09	1.10E-09	2.60E-09	6.62E-09	7.21E-10	1.96E-10	8.51E-10	1.77E-09	5.58E-10	1.09E-10	3.88E-10	1.06E-09
1257	564978.3	4222896	5.571E-09	1.00E-09	2.64E-09	9.21E-09	2.95E-09	1.10E-09	2.64E-09	6.69E-09	7.32E-10	1.96E-10	8.64E-10	1.79E-09	5.66E-10	1.09E-10	3.94E-10	1.07E-09
1258	564961.2	4222889	5.734E-09	1.00E-09	2.72E-09	9.45E-09	3.04E-09	1.10E-09	2.72E-09	6.86E-09	7.53E-10	1.96E-10	8.89E-10	1.84E-09	5.83E-10	1.09E-10	4.05E-10	1.10E-09
1259	564899.9	4222757	9.825E-09	1.00E-09	4.65E-09	1.55E-08	5.21E-09	1.10E-09	4.65E-09	1.10E-08	1.29E-09	1.96E-10	1.52E-09	3.01E-09	9.99E-10	1.09E-10	6.95E-10	1.80E-09
1260	564896.4	4222749	1.019E-08	1.00E-09	4.83E-09	1.60E-08	5.40E-09	1.10E-09	4.83E-09	1.13E-08	1.34E-09	1.96E-10	1.58E-09	3.11E-09	1.04E-09	1.09E-10	7.20E-10	1.86E-09
1261	564892.9	4222740	1.056E-08	1.00E-09	5.00E-09	1.66E-08	5.60E-09	1.10E-09	5.00E-09	1.17E-08	1.39E-09	1.96E-10	1.64E-09	3.22E-09	1.07E-09	1.09E-10	7.47E-10	1.93E-09
1262	565400.4	4223046	3.809E-09	1.00E-09	1.80E-09	6.62E-09	2.02E-09	1.10E-09	1.80E-09	4.93E-09	5.00E-10	1.96E-10	5.90E-10	1.29E-09	3.87E-10	1.09E-10	2.69E-10	7.66E-10
1263	564963.9	4222910	5.314E-09	1.00E-09	2.52E-09	8.84E-09	2.82E-09	1.10E-09	2.52E-09	6.44E-09	6.98E-10	1.96E-10	8.24E-10	1.72E-09	5.40E-10	1.09E-10	3.76E-10	1.03E-09
1264	564955.4	4222906	5.388E-09	1.00E-09	2.55E-09	8.95E-09	2.86E-09	1.10E-09	2.55E-09	6.51E-09	7.08E-10	1.96E-10	8.35E-10	1.74E-09	5.48E-10	1.09E-10	3.81E-10	1.04E-09
1265	564947	4222903	5.464E-09	1.00E-09	2.59E-09	9.06E-09	2.90E-09	1.10E-09	2.59E-09	6.59E-09	7.18E-10	1.96E-10	8.47E-10	1.76E-09	5.55E-10	1.09E-10	3.86E-10	1.05E-09
1266	564882.7	4222764	9.521E-09	1.00E-09	4.51E-09	1.50E-08	5.05E-09	1.10E-09	4.51E-09	1.07E-08	1.25E-09	1.96E-10	1.48E-09	2.92E-09	9.68E-10	1.09E-10	6.73E-10	1.75E-09
1267	564879.2	4222755	9.858E-09	1.00E-09	4.67E-09	1.55E-08	5.23E-09	1.10E-09	4.67E-09	1.10E-08	1.29E-09	1.96E-10	1.53E-09	3.02E-09	1.00E-09	1.09E-10	6.97E-10	1.81E-09
1268	564966.3	4222931	4.945E-09	1.00E-09	2.34E-09	8.29E-09	2.62E-09	1.10E-09	2.34E-09	6.07E-09	6.49E-10	1.96E-10	7.66E-10	1.61E-09	5.02E-10	1.09E-10	3.50E-10	9.61E-10
1269	564957.9	4222927	5.009E-09	1.00E-09	2.37E-09	8.39E-09	2.66E-09	1.10E-09	2.37E-09	6.13E-09	6.58E-10	1.96E-10	7.77E-10	1.63E-09	5.09E-10	1.09E-10	3.54E-10	9.73E-10
1270	564949.5	4222924	5.076E-09	1.00E-09	2.40E-09	8.49E-09	2.69E-09	1.10E-09	2.40E-09	6.20E-09	6.67E-10	1.96E-10	7.87E-10	1.65E-09	5.16E-10	1.09E-10	3.59E-10	9.84E-10
1271	564932.7	4222917	5.214E-09	1.00E-09	2.47E-09	8.69E-09	2.76E-09	1.10E-09	2.47E-09	6.34E-09	6.85E-10	1.96E-10	8.08E-10	1.69E-09	5.30E-10	1.09E-10	3.69E-10	1.01E-09
1272	564872.3	4222787	8.624E-09	1.00E-09	4.09E-09	1.37E-08	4.57E-09	1.10E-09	4.09E-09	9.76E-09	1.13E-09	1.96E-10	1.34E-09	2.67E-09	8.76E-10	1.09E-10	6.10E-10	1.60E-09
1273	564861.9	4222762	9.545E-09	1.00E-09	4.52E-09	1.51E-08	5.06E-09	1.10E-09	4.52E-09	1.07E-08	1.25E-09	1.96E-10	1.48E-09	2.93E-09	9.70E-10	1.09E-10	6.75E-10	1.75E-09
1274	564855	4222745	1.02E-08	1.00E-09	4.83E-09	1.60E-08	5.41E-09	1.10E-09	4.83E-09	1.13E-08	1.34E-09	1.96E-10	1.58E-09	3.12E-09	1.04E-09	1.09E-10	7.21E-10	1.87E-09
1275	565390.9	4223086	3.426E-09	1.00E-09	1.62E-09	6.05E-09	1.82E-09	1.10E-09	1.62E-09	4.54E-09	4.50E-10	1.96E-10	5.31E-10	1.18E-09	3.48E-10	1.09E-10	2.42E-10	7.00E-10
1276	564896.1	4222893	5.698E-09	1.00E-09	2.70E-09	9.40E-09	3.02E-09	1.10E-09	2.70E-09	6.82E-09	7.48E-10	1.96E-10	8.83E-10	1.83E-09	5.79E-10	1.09E-10	4.03E-10	1.09E-09
1277	564892.6	4222885	5.881E-09	1.00E-09	2.79E-09	9.67E-09	3.12E-09	1.10E-09	2.79E-09	7.01E-09	7.72E-10	1.96E-10	9.12E-10	1.88E-09	5.98E-10	1.09E-10	4.16E-10	1.12E-09
1278	564889.1	4222876	6.072E-09	1.00E-09	2.88E-09	9.95E-09	3.22E-09	1.10E-09	2.88E-09	7.20E-09	7.97E-10	1.96E-10	9.41E-10	1.93E-09	6.17E-10	1.09E-10	4.29E-10	1.16E-09
1279	564885.5	4222868	6.271E-09	1.00E-09	2.97E-09	1.02E-08	3.32E-09	1.10E-09	2.97E-09	7.40E-09	8.24E-10	1.96E-10	9.72E-10	1.99E-09	6.37E-10	1.09E-10	4.44E-10	1.19E-09
1280	564882	4222859	6.48E-09	1.00E-09	3.07E-09	1.06E-08	3.44E-09	1.10E-09	3.07E-09	7.61E-09	8.51E-10	1.96E-10	1.00E-09	2.05E-09	6.58E-10	1.09E-10	4.58E-10	1.23E-09
1281	564878.5	4222851	6.697E-09	1.00E-09	3.17E-09	1.09E-08	3.55E-09	1.10E-09	3.17E-09	7.82E-09	8.79E-10	1.96E-10	1.04E-09	2.11E-09	6.81E-10	1.09E-10	4.74E-10	1.26E-09
1282	564875	4222842	6.923E-09	1.00E-09	3.28E-09	1.12E-08	3.67E-09	1.10E-09	3.28E-09	8.05E-09	9.09E-10	1.96E-10	1.07E-09	2.18E-09	7.04E-10	1.09E-10	4.90E-10	1.30E-09
1283	564871.5	4222834	7.158E-09	1.00E-09	3.39E-09	1.16E-08	3.79E-09	1.10E-09	3.39E-09	8.29E-09	9.40E-10	1.96E-10	1.11E-09	2.25E-09	7.27E-10	1.09E-10	5.06E-10	1.34E-09
1284	564868	4222825	7.402E-09	1.00E-09	3.51E-09	1.19E-08	3.92E-09	1.10E-09	3.51E-09	8.53E-09	9.72E-10	1.96E-10	1.15E-09	2.32E-09	7.52E-10	1.09E-10	5.23E-10	1.38E-09
1285	564864.5	4222816	7.655E-09	1.00E-09	3.63E-09	1.23E-08	4.06E-09	1.10E-09	3.63E-09	8.79E-09	1.01E-09	1.96E-10	1.19E-09	2.39E-09	7.78E-10	1.09E-10	5.41E-10	1.43E-09
1286	564860.9	4222808	7.918E-09	1.00E-09	3.75E-09	1.27E-08	4.20E-09	1.10E-09	3.75E-09	9.05E-09	1.04E-09	1.96E-10	1.23E-09	2.46E-09	8.05E-10	1.09E-10	5.60E-10	1.47E-09
1287	564857.4	4222799	8.189E-09	1.00E-09	3.88E-09	1.31E-08	4.34E-09	1.10E-09	3.88E-09	9.32E-09	1.08E-09	1.96E-10	1.27E-09	2.54E-09	8.32E-10	1.09E-10	5.79E-10	1.52E-09
1288	564853.9	4222791	8.47E-09	1.00E-09	4.01E-09	1.35E-08	4.49E-09	1.10E-09	4.01E-09	9.60E-09	1.11E-09	1.96E-10	1.31E-09	2.62E-09	8.61E-10	1.09E-10	5.99E-10	1.57E-09
1289	564850.4	4222782	8.759E-09	1.00E-09	4.15E-09	1.39E-08	4.64E-09	1.10E-09	4.15E-09	9.89E-09	1.15E-09	1.96E-10	1.36E-09	2.70E-09	8.90E-10	1.09E-10	6.19E-10	1.62E-09
1290	564846.9	4222774	9.056E-09	1.00E-09	4.29E-09	1.44E-08	4.80E-09	1.10E-09	4.29E-09	1.02E-08	1.19E-09	1.96E-10	1.40E-09	2.79E-09	9.20E-10	1.09E-10	6.40E-10	1.67E-09
1291	564843.4	4222765	9.361E-09	1.00E-09	4.44E-09	1.48E-08	4.96E-09	1.10E-09	4.44E-09	1.05E-08	1.23E-09	1.96E-10	1.45E-09	2.88E-09	9.51E-10	1.09E-10	6.62E-10	1.72E-09
1292	564839.8	4222757	9.674E-09	1.00E-09	4.58E-09	1.53E-08	5.13E-09	1.10E-09	4.58E-09	1.08E-08	1.27E-09	1.96E-10	1.50E-09	2.97E-09	9.83E-10	1.09E-10	6.84E-10	1.78E-09
1293	564836.3	4222748	9.994E-09	1.00E-09	4.73E-09	1.57E-08	5.30E-09	1.10E-09	4.73E-09	1.11E-08	1.31E-09	1.96E-10	1.55E-09	3.06E-09	1.02E-09	1.09E-10	7.07E-10	1.83E-09
1294	564832.8	4222740	1.032E-08	1.00E-09	4.89E-09	1.62E-08	5.47E-09	1.10E-09	4.89E-09	1.15E-08	1.36E-09	1.96E-10	1.60E-09	3.15E-09	1.05E-09	1.09E-10	7.30E-10	1.89E-09
1295	564822.3	4222714	1.134E-08	1.00E-09	5.37E-09	1.77E-08	6.01E-09	1.10E-09	5.37E-09	1.25E-08	1.49E-09	1.96E-10	1.76E-09	3.44E-09	1.15E-09	1.09E-10	8.02E-10	2.06E-09
1296	565390.8	4223106	3.268E-09	1.00E-09	1.55E-09	5.82E-09	1.73E-09	1.10E-09	1.55E-09	4.38E-09	4.29E-10	1.96E-10	5.07E-10	1.13E-09	3.32E-10	1.09E-10	2.31E-10	6.73E-10

			UnMitigated			T2			T2L3			T4		
			3.96E-02	5.24E-02	1.88E-02	2.10E-02	5.74E-02	1.88E-02	5.20E-03	1.02E-02	6.14E-03	4.03E-03	5.70E-03	2.80E-03
			Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	565427.7	4222516	1.12E-02	1.49E-02	5.32E-03	5.96E-03	1.63E-02	5.32E-03	1.48E-03	2.90E-03	1.74E-03	1.14E-03	1.62E-03	7.95E-04
2	565422.4	4222529	8.05E-03	1.06E-02	3.81E-03	4.27E-03	1.17E-02	3.81E-03	1.06E-03	2.08E-03	1.25E-03	8.18E-04	1.16E-03	5.69E-04
3	565432.3	4222525	9.31E-03	1.23E-02	4.41E-03	4.94E-03	1.35E-02	4.41E-03	1.22E-03	2.41E-03	1.44E-03	9.46E-04	1.34E-03	6.59E-04
4	565427	4222537	6.87E-03	9.08E-03	3.25E-03	3.64E-03	9.96E-03	3.25E-03	9.02E-04	1.77E-03	1.06E-03	6.98E-04	9.88E-04	4.86E-04
5	565436.9	4222533	7.90E-03	1.04E-02	3.74E-03	4.19E-03	1.14E-02	3.74E-03	1.04E-03	2.04E-03	1.22E-03	8.03E-04	1.14E-03	5.58E-04
6	565431.6	4222546	5.97E-03	7.89E-03	2.83E-03	3.16E-03	8.65E-03	2.83E-03	7.84E-04	1.54E-03	9.25E-04	6.06E-04	8.58E-04	4.22E-04
7	565422.3	4222548	5.39E-03	7.13E-03	2.56E-03	2.86E-03	7.82E-03	2.56E-03	7.08E-04	1.39E-03	8.36E-04	5.48E-04	7.76E-04	3.81E-04
8	565441.5	4222542	6.82E-03	9.02E-03	3.23E-03	3.62E-03	9.89E-03	3.23E-03	8.96E-04	1.76E-03	1.06E-03	6.93E-04	9.81E-04	4.82E-04
9	565435.3	4222555	5.21E-03	6.89E-03	2.47E-03	2.76E-03	7.55E-03	2.47E-03	6.84E-04	1.35E-03	8.08E-04	5.29E-04	7.49E-04	3.68E-04
10	565424.1	4222558	4.64E-03	6.13E-03	2.20E-03	2.46E-03	6.72E-03	2.20E-03	6.09E-04	1.20E-03	7.19E-04	4.71E-04	6.67E-04	3.28E-04
11	565446.1	4222551	5.98E-03	7.91E-03	2.83E-03	3.17E-03	8.67E-03	2.83E-03	7.85E-04	1.54E-03	9.27E-04	6.08E-04	8.60E-04	4.23E-04
12	565440.1	4222564	4.64E-03	6.14E-03	2.20E-03	2.46E-03	6.73E-03	2.20E-03	6.10E-04	1.20E-03	7.20E-04	4.72E-04	6.68E-04	3.28E-04
13	565429.2	4222566	4.17E-03	5.52E-03	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.00E-04	2.95E-04
14	565450.7	4222560	5.29E-03	6.99E-03	2.50E-03	2.80E-03	7.67E-03	2.50E-03	6.94E-04	1.37E-03	8.20E-04	5.37E-04	7.61E-04	3.74E-04
15	565444.8	4222572	4.17E-03	5.52E-03	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.01E-04	2.95E-04
16	565434.1	4222575	3.77E-03	4.98E-03	1.78E-03	2.00E-03	5.46E-03	1.78E-03	4.95E-04	9.73E-04	5.84E-04	3.83E-04	5.42E-04	2.66E-04
17	565423.4	4222578	3.42E-03	4.53E-03	1.62E-03	1.82E-03	4.96E-03	1.62E-03	4.50E-04	8.85E-04	5.31E-04	3.48E-04	4.93E-04	2.42E-04
18	565455.4	4222568	4.73E-03	6.25E-03	2.24E-03	2.51E-03	6.86E-03	2.24E-03	6.21E-04	1.22E-03	7.33E-04	4.81E-04	6.80E-04	3.34E-04
19	565449.5	4222581	3.79E-03	5.01E-03	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.98E-04	9.80E-04	5.88E-04	3.85E-04	5.45E-04	2.68E-04
20	565439	4222584	3.44E-03	4.55E-03	1.63E-03	1.82E-03	4.99E-03	1.63E-03	4.52E-04	8.89E-04	5.33E-04	3.50E-04	4.95E-04	2.43E-04
21	565428.5	4222586	3.14E-03	4.15E-03	1.49E-03	1.66E-03	4.55E-03	1.49E-03	4.12E-04	8.11E-04	4.87E-04	3.19E-04	4.52E-04	2.22E-04
22	565460	4222577	4.27E-03	5.65E-03	2.02E-03	2.26E-03	6.19E-03	2.02E-03	5.61E-04	1.10E-03	6.62E-04	4.34E-04	6.14E-04	3.02E-04
23	565454.2	4222590	3.47E-03	4.59E-03	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.97E-04	5.38E-04	3.53E-04	4.99E-04	2.45E-04
24	565443.8	4222592	3.16E-03	4.18E-03	1.50E-03	1.68E-03	4.59E-03	1.50E-03	4.16E-04	8.17E-04	4.91E-04	3.22E-04	4.55E-04	2.24E-04
25	565433.4	4222595	2.90E-03	3.83E-03	1.37E-03	1.53E-03	4.20E-03	1.37E-03	3.80E-04	7.48E-04	4.49E-04	2.94E-04	4.16E-04	2.05E-04
26	565423	4222597	2.67E-03	3.53E-03	1.27E-03	1.42E-03	3.87E-03	1.27E-03	3.51E-04	6.90E-04	4.14E-04	2.72E-04	3.84E-04	1.89E-04
27	565464.6	4222586	3.89E-03	5.14E-03	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.10E-04	1.00E-03	6.03E-04	3.95E-04	5.59E-04	2.75E-04
28	565458.3	4222598	3.18E-03	4.20E-03	1.51E-03	1.68E-03	4.61E-03	1.51E-03	4.17E-04	8.21E-04	4.93E-04	3.23E-04	4.57E-04	2.25E-04
29	565469.2	4222594	3.56E-03	4.71E-03	1.69E-03	1.89E-03	5.16E-03	1.69E-03	4.67E-04	9.19E-04	5.52E-04	3.62E-04	5.12E-04	2.52E-04
30	565438.1	4223019	3.27E-04	4.33E-04	1.55E-04	1.74E-04	4.75E-04	1.55E-04	4.30E-05	8.46E-05	5.08E-05	3.33E-05	4.71E-05	2.32E-05
31	565426.8	4223022	3.22E-04	4.25E-04	1.52E-04	1.70E-04	4.66E-04	1.52E-04	4.22E-05	8.31E-05	4.98E-05	3.27E-05	4.63E-05	2.27E-05
32	565415.4	4223025	3.16E-04	4.18E-04	1.50E-04	1.67E-04	4.58E-04	1.50E-04	4.15E-05	8.16E-05	4.90E-05	3.21E-05	4.54E-05	2.23E-05
33	565449.1	4223037	3.16E-04	4.18E-04	1.50E-04	1.67E-04	4.58E-04	1.50E-04	4.15E-05	8.16E-05	4.89E-05	3.21E-05	4.54E-05	2.23E-05
34	565437.8	4223040	3.10E-04	4.10E-04	1.47E-04	1.64E-04	4.50E-04	1.47E-04	4.07E-05	8.01E-05	4.81E-05	3.15E-05	4.46E-05	2.19E-05
35	565426.5	4223042	3.05E-04	4.03E-04	1.44E-04	1.62E-04	4.42E-04	1.44E-04	4.00E-05	7.88E-05	4.73E-05	3.10E-05	4.38E-05	2.16E-05
36	565415.3	4223045	3.00E-04	3.96E-04	1.42E-04	1.59E-04	4.34E-04	1.42E-04	3.94E-05	7.74E-05	4.65E-05	3.05E-05	4.31E-05	2.12E-05
37	565443.8	4223058	2.97E-04	3.93E-04	1.41E-04	1.58E-04	4.31E-04	1.41E-04	3.90E-05	7.68E-05	4.61E-05	3.02E-05	4.28E-05	2.10E-05
38	565432.4	4223061	2.92E-04	3.86E-04	1.38E-04	1.55E-04	4.24E-04	1.38E-04	3.84E-05	7.55E-05	4.53E-05	2.97E-05	4.20E-05	2.07E-05
39	565420.9	4223064	2.87E-04	3.80E-04	1.36E-04	1.52E-04	4.16E-04	1.36E-04	3.77E-05	7.42E-05	4.45E-05	2.92E-05	4.13E-05	2.03E-05
40	565443.4	4223078	2.82E-04	3.74E-04	1.34E-04	1.50E-04	4.09E-04	1.34E-04	3.71E-05	7.30E-05	4.38E-05	2.87E-05	4.06E-05	2.00E-05
41	565432.1	4223081	2.78E-04	3.67E-04	1.32E-04	1.47E-04	4.03E-04	1.32E-04	3.65E-05	7.18E-05	4.31E-05	2.82E-05	4.00E-05	1.97E-05
42	565420.7	4223084	2.73E-04	3.62E-04	1.30E-04	1.45E-04	3.96E-04	1.30E-04	3.59E-05	7.06E-05	4.24E-05	2.78E-05	3.93E-05	1.93E-05
43	565443.1	4223098	2.69E-04	3.56E-04	1.27E-04	1.43E-04	3.90E-04	1.27E-04	3.53E-05	6.95E-05	4.17E-05	2.73E-05	3.87E-05	1.90E-05
44	565431.8	4223101	2.65E-04	3.50E-04	1.25E-04	1.40E-04	3.84E-04	1.25E-04	3.48E-05	6.84E-05	4.10E-05	2.69E-05	3.81E-05	1.87E-05
45	565420.5	4223104	2.61E-04	3.45E-04	1.23E-04	1.38E-04	3.78E-04	1.23E-04	3.42E-05	6.73E-05	4.04E-05	2.65E-05	3.75E-05	1.84E-05
46	565433.5	4222508	1.42E-02	1.88E-02	6.72E-03	7.52E-03	2.06E-02	6.72E-03	1.86E-03	3.66E-03	2.20E-03	1.44E-03	2.04E-03	1.00E-03
47	565406.8	4223063	2.84E-04	3.76E-04	1.35E-04	1.51E-04	4.12E-04	1.35E-04	3.73E-05	7.34E-05	4.41E-05	2.89E-05	4.09E-05	2.01E-05
48	565406.4	4223083	2.71E-04	3.58E-04	1.28E-04	1.43E-04	3.92E-04	1.28E-04	3.55E-05	6.99E-05	4.19E-05	2.75E-05	3.89E-05	1.91E-05
49	565405.9	4223103	2.58E-04	3.41E-04	1.22E-04	1.37E-04	3.74E-04	1.22E-04	3.39E-05	6.66E-05	4.00E-05	2.62E-05	3.71E-05	1.82E-05
50	565443.5	4222508	1.47E-02	1.94E-02	6.95E-03	7.78E-03	2.13E-02	6.95E-03	1.93E-03	3.79E-03	2.27E-03	1.49E-03	2.11E-03	1.04E-03
51	565453.4	4222509	1.51E-02	1.99E-02	7.14E-03	7.99E-03	2.18E-02	7.14E-03	1.98E-03	3.89E-03	2.33E-03	1.53E-03	2.17E-03	1.07E-03
52	565463.3	4222509	1.54E-02	2.03E-02	7.29E-03	8.15E-03	2.23E-02	7.29E-03	2.02E-03	3.97E-03	2.38E-03	1.56E-03	2.21E-03	1.09E-03
53	565473.1	4222509	1.57E-02	2.07E-02	7.43E-03	8.32E-03	2.27E-02	7.43E-03	2.06E-03	4.05E-03	2.43E-03	1.59E-03	2.26E-03	1.11E-03
54	565483	4222509	1.59E-02	2.10E-02	7.53E-03	8.43E-03	2.31E-02	7.53E-03	2.09E-03	4.11E-03	2.47E-03	1.62E-03	2.29E-03	1.12E-03
55	565443.4	4222518	1.14E-02	1.51E-02	5.42E-03	6.07E-03	1.66E-02	5.42E-03	1.50E-03	2.96E-03	1.77E-03	1.16E-03	1.65E-03	8.09E-04
56	565453.3	4222518	1.19E-02	1.57E-02	5.63E-03	6.30E-03	1.72E-02	5.63E-03	1.56E-03	3.07E-03	1.84E-03	1.21E-03	1.71E-03	8.40E-04
57	565463.2	4222518	1.23E-02	1.62E-02	5.80E-03	6.49E-03	1.78E-02	5.80E-03	1.61E-03	3.16E-03	1.90E-03	1.24E-03	1.76E-03	8.66E-04
58	565473.1	4222519	1.26E-02	1.67E-02	5.98E-03	6.69E-03	1.83E-02	5.98E-03	1.66E-03	3.26E-03	1.96E-03	1.28E-03	1.82E-03	8.93E-04
59	565482.9	4222519	1.29E-02	1.71E-02	6.12E-03	6.85E-03	1.87E-02	6.12E-03	1.70E-03	3.34E-03	2.00E-03	1.31E-03	1.86E-03	9.14E-04
60	565453.2	4222528	9.57E-03	1.27E-02	4.54E-03	5.08E-03	1.39E-02	4.54E-03	1.26E-03	2.47E-03	1.48E-03	9.73E-04	1.38E-03	6.77E-04
61	565463.1	4222528	9.95E-03	1.32E-02	4.72E-03	5.28E-03	1.44E-02	4.72E-03	1.31E-03	2.57E-03	1.54E-03	1.01E-03	1.43E-03	7.04E-04
62	565473	4222528	1.03E-02	1.37E-02	4.90E-03	5.48E-03	1.50E-02	4.90E-03	1.36E-03	2.67E-03	1.60E-03	1.05E-03	1.49E-03	7.31E-04
63	565482.8	4222529	1.07E-02	1.41E-02	5.05E-03	5.66E-03	1.55E-02	5.05E-03	1.40E-03	2.76E-03	1.65E-03	1.08E-03	1.53E-03	7.54E-04
64	565453.1	4222538	7.85E-03	1.04E-02	3.72E-03	4.16E-03	1.14E-02	3.72E-03	1.03E-03	2.03E-03	1.22E-03	7.98E-04	1.13E-03	5.55E-04
65	565463	4222538	8.21E-03	1.09E-02	3.89E-03	4.35E-03	1.19E-02	3.89E-03	1.08E-03	2.12E-03	1.27E-03	8.35E-04	1.18E-03	5.81E-04
66	565472.9	4222538	8.58E-03	1.13E-02	4.06E-03	4.55E-03	1.24E-02	4.06E-03	1.13E-03	2.22E-03	1.33E-03	8.72E-04	1.23E-03	6.07E-04
67	565482.8	4222538	8.91E-03	1.18E-02	4.22E-03	4.72E-03	1.29E-02	4.22E-03	1.17E-03	2.30E-03	1.38E-03	9.06E-04	1.28E-03	6.30E-04
68	565462.9	4222548	6.87E-03	9.08E-03	3.25E-03	3.64E-03	9.96E-03	3.25E-03	9.02E-04	1.77E-03	1.06E-03	6.98E-04	9.88E-04	4.86E-04
69	565472.8	4222548	7.21E-03	9.53E-03	3.41E-03	3.82E-03	1.04E-02	3.41E-03	9.47E-04	1.86E-03	1.12E-03	7.32E-04	1.04E-03	5.10E-04
70	565482.7	4222548	7.52E-03	9.95E-03	3.56E-03	3.99E-03	1.09E-02	3.56E-03	9.88E-04	1.94E-03	1.17E-03	7.65E-04	1.08E-03	5.32E-04
71	565462.8	4222558	5.81E-03	7.69E-03	2.75E-03	3.08E-03	8.43E-03	2.75E-03	7.63E-04	1.50E-03	9.01E-04	5.91E-04	8.36E-04	4.11E-04
72	565472.7	4222558	6.12E-03	8.09E-03	2.90E-03	3.24E-03	8.87E-03	2.90E-03	8.04E-04	1.58E-03	9.49E-04	6.22E-04	8.80E-04	4.33E-04
73	565482.6	4222558	6.41E-03	8.48E-03	3.04E-03	3.40E-03	9.30E-03	3.04E-03	8.42E-04	1.66E-03	9.94E-04	6.52E-04	9.22E-04	4.54E-04
74	565472.6	4222568	5.25E-03	6.94E-03	2.49E-03	2.78E-03	7.61E-03	2.49E-03	6.89E-04	1.36E-03	8.13E-04	5.33E-04	7.55E-04	3.71E-04
75	565482.5	4222568	5.51E-03	7.29E-03	2.61E-03	2.92E-03	7.99E-03	2.61E-03	7.24E-04	1.42E-03	8.55E-04	5.60E-04	7.93E-04	3.90E-04
76	565472.5	4222578	4.54E-03	6.00E-03	2.15E-03	2.41E-03	6.58E-03	2.15E-03	5.96E-04	1.17E-03	7.04E-04	4.61E-04	6.53E-04	3.21E-04
77	565482.4	4222578	4.78E-03	6.32E-03	2.26E-03	2.53E-03	6.93E-03	2.26E-03	6.27E-04	1.23E-03	7.41E-04	4.85E-04	6.87E-04	3.38E-04
78	565482.3	4222588	4.17E-03	5.52E-03	1.98E-03	2.21E-03	6.05E-03	1.98E-03	5.48E-04	1.08E-03	6.47E-04	4.24E-04	6.00E-04	2.95E-04
79	565482.2	4222597	3.67E-03	4.85E-03	1.74E-03	1.95E-03	5.32E-03	1.74E-03	4.82E-04	9.48E-04	5.69E-04	3.73E-04	5.28E-04	2.60E-04
80	565532.8	4222462	2.25E-02	2.97E-02	1.06E-02	1.19E-02	3.26E-02	1.06E-02	2.95E-03	5.80E-03	3.48E-03	2.28E-03	3.23E-03	1.59E-03
81	565532.6	4222452	2.41E-02	3.19E-02	1.14E-02	1.28E-02	3.50E-02	1.14E-02	3.17E-03	6.24E-03	3.74E-03	2.45E-03	3.47E-03	1.71E-03
82	565532.1	4222442	2.61E-02	3.45E-02	1.23E-02	1.38E-02	3.78E-02	1.23E-02	3.42E-03	6.73E-03	4.04E-03	2.65E-03	3.75E-03	1.84E-03
83	565531.7	4222432	2.81E-02	3.72E-02	1.33E-02	1.49E-02	4.08E-02	1.33E-02	3.69E-03	7.26E-03	4.36E-03	2.86E-03	4.04E-03	1.99E-03
84	565531.2	4222423	3.04E-02	4.03E-02	1.44E-02	1.61E-02	4.41E-02	1.44E-02	4.00E-03	7.87E-03	4.72E-03	3.09E-03	4.38E-03	2.15E-03
85	565530.9	4222409	3.38E-02	4.47E-02	1.60E-02	1.79E-02	4.90E-02	1.60E-02	4.44E-03	8.74E-03	5.24E-03	3.44E-03	4.86E-03	2.39E-03
86	565530.9	4222400	3.58E-02	4.74E-02	1.70E-02	1.90E-02	5.20E-02	1.70E-02	4.71E-03	9.26E-03	5.56E-03	3.64E-03	5.16E-03	2.53E-03
87	565532.1	4222389	3.71E-02	4.91E-02	1.76E-02	1.97E-02	5.38E-02	1.76E-02	4.87E-03	9.59E-03	5.75E-03	3.77E-03	5.34E-03	2.62E-03
88	565532.5	4222379	3.81E-02	5.04E-02	1.80E-02	2.02E-02	5.52E-02	1.80E-02	5.00E-03	9.84E-03	5.90E-03	3.87E-03	5.48E-03	2.69E-03

89	565532.5	4222368	3.90E-02	5.16E-02	1.85E-02	2.07E-02	5.66E-02	1.85E-02	5.12E-03	1.01E-02	6.05E-03	3.96E-03	5.61E-03	2.76E-03
90	565532.5	4222358	3.95E-02	5.22E-02	1.87E-02	2.09E-02	5.72E-02	1.87E-02	5.18E-03	1.02E-02	6.12E-03	4.01E-03	5.68E-03	2.79E-03
91	565532.4	4222348	3.96E-02	5.24E-02	1.88E-02	2.10E-02	5.74E-02	1.88E-02	5.20E-03	1.02E-02	6.14E-03	4.03E-03	5.70E-03	2.80E-03
92	565532.4	4222338	3.95E-02	5.22E-02	1.87E-02	2.09E-02	5.72E-02	1.87E-02	5.18E-03	1.02E-02	6.12E-03	4.01E-03	5.67E-03	2.79E-03
93	565532.4	4222328	3.90E-02	5.16E-02	1.85E-02	2.07E-02	5.65E-02	1.85E-02	5.12E-03	1.01E-02	6.05E-03	3.96E-03	5.61E-03	2.76E-03
94	565532.3	4222318	3.83E-02	5.06E-02	1.81E-02	2.03E-02	5.55E-02	1.81E-02	5.02E-03	9.88E-03	5.93E-03	3.89E-03	5.50E-03	2.71E-03
95	565532.3	4222309	3.72E-02	4.92E-02	1.76E-02	1.97E-02	5.39E-02	1.76E-02	4.89E-03	9.61E-03	5.77E-03	3.78E-03	5.35E-03	2.63E-03
96	565532.2	4222299	3.58E-02	4.74E-02	1.70E-02	1.90E-02	5.20E-02	1.70E-02	4.71E-03	9.26E-03	5.56E-03	3.64E-03	5.16E-03	2.54E-03
97	565542.4	4222368	3.37E-02	4.46E-02	1.60E-02	1.79E-02	4.89E-02	1.60E-02	4.43E-03	8.71E-03	5.22E-03	3.42E-03	4.85E-03	2.38E-03
98	565542.3	4222358	3.40E-02	4.50E-02	1.61E-02	1.80E-02	4.93E-02	1.61E-02	4.47E-03	8.79E-03	5.28E-03	3.46E-03	4.89E-03	2.41E-03
99	565542.3	4222348	3.41E-02	4.51E-02	1.62E-02	1.81E-02	4.94E-02	1.62E-02	4.48E-03	8.81E-03	5.28E-03	3.46E-03	4.90E-03	2.41E-03
100	565542.2	4222338	3.39E-02	4.48E-02	1.61E-02	1.80E-02	4.91E-02	1.61E-02	4.45E-03	8.75E-03	5.25E-03	3.44E-03	4.87E-03	2.40E-03
101	565542.2	4222328	3.34E-02	4.42E-02	1.58E-02	1.77E-02	4.85E-02	1.58E-02	4.39E-03	8.64E-03	5.18E-03	3.40E-03	4.81E-03	2.36E-03
102	565542.2	4222318	3.27E-02	4.33E-02	1.55E-02	1.73E-02	4.74E-02	1.55E-02	4.30E-03	8.45E-03	5.07E-03	3.33E-03	4.71E-03	2.31E-03
103	565542.1	4222309	3.17E-02	4.20E-02	1.50E-02	1.68E-02	4.60E-02	1.50E-02	4.17E-03	8.20E-03	4.92E-03	3.23E-03	4.57E-03	2.25E-03
104	565542.1	4222299	3.05E-02	4.03E-02	1.45E-02	1.62E-02	4.42E-02	1.45E-02	4.01E-03	7.88E-03	4.73E-03	3.10E-03	4.39E-03	2.16E-03
105	565532.2	4222289	3.42E-02	4.53E-02	1.62E-02	1.81E-02	4.96E-02	1.62E-02	4.49E-03	8.84E-03	5.31E-03	3.48E-03	4.92E-03	2.42E-03
106	565532.2	4222280	3.22E-02	4.26E-02	1.53E-02	1.71E-02	4.67E-02	1.53E-02	4.23E-03	8.33E-03	5.00E-03	3.27E-03	4.64E-03	2.28E-03
107	565532.2	4222270	2.98E-02	3.95E-02	1.41E-02	1.58E-02	4.33E-02	1.41E-02	3.92E-03	7.71E-03	4.63E-03	3.03E-03	4.29E-03	2.11E-03
108	565532.1	4222261	2.71E-02	3.58E-02	1.28E-02	1.44E-02	3.93E-02	1.28E-02	3.56E-03	7.00E-03	4.20E-03	2.75E-03	3.90E-03	1.92E-03
109	565532.1	4222252	2.40E-02	3.18E-02	1.14E-02	1.27E-02	3.48E-02	1.14E-02	3.16E-03	6.21E-03	3.72E-03	2.44E-03	3.46E-03	1.70E-03
110	565532.1	4222242	2.09E-02	2.77E-02	9.91E-03	1.11E-02	3.03E-02	9.91E-03	2.75E-03	5.40E-03	3.24E-03	2.12E-03	3.01E-03	1.48E-03
111	565532.1	4222233	1.80E-02	2.38E-02	8.54E-03	9.55E-03	2.61E-02	8.54E-03	2.37E-03	4.66E-03	2.79E-03	1.83E-03	2.59E-03	1.27E-03
112	565542.1	4222289	2.91E-02	3.84E-02	1.38E-02	1.54E-02	4.21E-02	1.38E-02	3.82E-03	7.51E-03	4.50E-03	2.95E-03	4.18E-03	2.06E-03
113	565542	4222280	2.73E-02	3.61E-02	1.29E-02	1.45E-02	3.96E-02	1.29E-02	3.59E-03	7.06E-03	4.24E-03	2.78E-03	3.93E-03	1.93E-03
114	565542	4222270	2.53E-02	3.35E-02	1.20E-02	1.34E-02	3.67E-02	1.20E-02	3.33E-03	6.55E-03	3.93E-03	2.58E-03	3.65E-03	1.79E-03
115	565542	4222261	2.32E-02	3.06E-02	1.10E-02	1.23E-02	3.36E-02	1.10E-02	3.04E-03	5.98E-03	3.59E-03	2.35E-03	3.33E-03	1.64E-03
116	565542	4222252	2.08E-02	2.75E-02	9.86E-03	1.10E-02	3.02E-02	9.86E-03	2.73E-03	5.38E-03	3.23E-03	2.12E-03	2.99E-03	1.47E-03
117	565541.9	4222242	0.018489	2.45E-02	8.76E-03	9.80E-03	2.68E-02	8.76E-03	2.43E-03	4.78E-03	2.87E-03	1.88E-03	2.66E-03	1.31E-03
118	565541.9	4222233	0.016309	2.16E-02	7.73E-03	8.65E-03	2.36E-02	7.73E-03	2.14E-03	4.21E-03	2.53E-03	1.66E-03	2.35E-03	1.15E-03
119	565551.8	4222252	0.018415	2.44E-02	8.72E-03	9.76E-03	2.67E-02	8.72E-03	2.42E-03	4.76E-03	2.85E-03	1.87E-03	2.65E-03	1.30E-03
120	565551.8	4222242	0.016602	2.20E-02	7.87E-03	8.80E-03	2.41E-02	7.87E-03	2.18E-03	4.29E-03	2.57E-03	1.69E-03	2.39E-03	1.17E-03
121	565551.8	4222233	0.014885	1.97E-02	7.05E-03	7.89E-03	2.16E-02	7.05E-03	1.95E-03	3.85E-03	2.31E-03	1.51E-03	2.14E-03	1.05E-03
122	565502.5	4222223	0.019162	2.53E-02	9.08E-03	1.02E-02	2.78E-02	9.08E-03	2.52E-03	4.95E-03	2.97E-03	1.95E-03	2.76E-03	1.36E-03
123	565492.6	4222223	0.020228	2.68E-02	9.58E-03	1.07E-02	2.93E-02	9.58E-03	2.66E-03	5.23E-03	3.14E-03	2.06E-03	2.91E-03	1.43E-03
124	565482.7	4222223	0.021228	2.81E-02	1.01E-02	1.13E-02	3.08E-02	1.01E-02	2.79E-03	5.48E-03	3.29E-03	2.16E-03	3.05E-03	1.50E-03
125	565472.8	4222223	0.022017	2.91E-02	1.04E-02	1.17E-02	3.19E-02	1.04E-02	2.89E-03	5.69E-03	3.41E-03	2.24E-03	3.17E-03	1.56E-03
126	565462.9	4222223	0.022556	2.98E-02	1.07E-02	1.20E-02	3.27E-02	1.07E-02	2.96E-03	5.83E-03	3.50E-03	2.29E-03	3.24E-03	1.60E-03
127	565453	4222223	0.022878	3.03E-02	1.08E-02	1.21E-02	3.32E-02	1.08E-02	3.00E-03	5.91E-03	3.55E-03	2.33E-03	3.29E-03	1.62E-03
128	565443.1	4222223	0.023049	3.05E-02	1.09E-02	1.22E-02	3.34E-02	1.09E-02	3.03E-03	5.95E-03	3.57E-03	2.34E-03	3.32E-03	1.63E-03
129	565433.2	4222223	0.023135	3.06E-02	1.10E-02	1.23E-02	3.35E-02	1.10E-02	3.04E-03	5.98E-03	3.59E-03	2.35E-03	3.33E-03	1.64E-03
130	565423.3	4222223	0.023181	3.07E-02	1.10E-02	1.23E-02	3.36E-02	1.10E-02	3.04E-03	5.99E-03	3.59E-03	2.36E-03	3.33E-03	1.64E-03
131	565413.4	4222223	0.023178	3.07E-02	1.10E-02	1.23E-02	3.36E-02	1.10E-02	3.04E-03	5.99E-03	3.59E-03	2.36E-03	3.33E-03	1.64E-03
132	565403.5	4222223	0.023117	3.06E-02	1.10E-02	1.23E-02	3.35E-02	1.10E-02	3.04E-03	5.97E-03	3.58E-03	2.35E-03	3.33E-03	1.63E-03
133	565393.6	4222223	0.022896	3.03E-02	1.08E-02	1.21E-02	3.32E-02	1.08E-02	3.01E-03	5.92E-03	3.55E-03	2.33E-03	3.29E-03	1.62E-03
134	565492.6	4222213	0.016032	2.12E-02	7.60E-03	8.50E-03	2.32E-02	7.60E-03	2.11E-03	4.14E-03	2.49E-03	1.63E-03	2.31E-03	1.13E-03
135	565482.7	4222213	0.016582	2.19E-02	7.86E-03	8.79E-03	2.40E-02	7.86E-03	2.18E-03	4.28E-03	2.57E-03	1.69E-03	2.39E-03	1.17E-03
136	565472.8	4222213	0.017077	2.26E-02	8.09E-03	9.05E-03	2.48E-02	8.09E-03	2.24E-03	4.41E-03	2.65E-03	1.74E-03	2.46E-03	1.21E-03
137	565462.9	4222213	0.017505	2.32E-02	8.29E-03	9.28E-03	2.54E-02	8.29E-03	2.30E-03	4.52E-03	2.71E-03	1.78E-03	2.52E-03	1.24E-03
138	565453	4222213	0.017844	2.36E-02	8.45E-03	9.46E-03	2.59E-02	8.45E-03	2.34E-03	4.61E-03	2.77E-03	1.81E-03	2.57E-03	1.26E-03
139	565443.1	4222213	0.018083	2.39E-02	8.57E-03	9.59E-03	2.62E-02	8.57E-03	2.37E-03	4.67E-03	2.80E-03	1.84E-03	2.60E-03	1.28E-03
140	565433.2	4222213	0.018239	2.41E-02	8.64E-03	9.67E-03	2.64E-02	8.64E-03	2.40E-03	4.71E-03	2.83E-03	1.85E-03	2.62E-03	1.29E-03
141	565423.3	4222213	0.018322	2.42E-02	8.68E-03	9.71E-03	2.66E-02	8.68E-03	2.41E-03	4.73E-03	2.84E-03	1.86E-03	2.64E-03	1.30E-03
142	565413.4	4222213	0.018345	2.43E-02	8.69E-03	9.73E-03	2.66E-02	8.69E-03	2.41E-03	4.74E-03	2.84E-03	1.86E-03	2.64E-03	1.30E-03
143	565403.5	4222213	0.01831	2.42E-02	8.67E-03	9.71E-03	2.65E-02	8.67E-03	2.40E-03	4.73E-03	2.84E-03	1.86E-03	2.63E-03	1.29E-03
144	565393.6	4222213	0.018165	2.40E-02	8.61E-03	9.63E-03	2.63E-02	8.61E-03	2.39E-03	4.69E-03	2.82E-03	1.85E-03	2.61E-03	1.28E-03
145	565492.6	4222203	0.013273	1.76E-02	6.29E-03	7.04E-03	1.92E-02	6.29E-03	1.74E-03	3.43E-03	2.06E-03	1.35E-03	1.91E-03	9.39E-04
146	565482.7	4222203	0.013594	1.80E-02	6.44E-03	7.21E-03	1.97E-02	6.44E-03	1.79E-03	3.51E-03	2.11E-03	1.38E-03	1.96E-03	9.61E-04
147	565472.8	4222203	0.013901	1.84E-02	6.59E-03	7.37E-03	2.02E-02	6.59E-03	1.83E-03	3.59E-03	2.15E-03	1.41E-03	2.00E-03	9.83E-04
148	565462.9	4222203	0.01419	1.88E-02	6.72E-03	7.52E-03	2.06E-02	6.72E-03	1.86E-03	3.67E-03	2.20E-03	1.44E-03	2.04E-03	1.00E-03
149	565453	4222203	0.014443	1.91E-02	6.84E-03	7.66E-03	2.09E-02	6.84E-03	1.90E-03	3.73E-03	2.24E-03	1.47E-03	2.08E-03	1.02E-03
150	565443.1	4222204	0.014643	1.94E-02	6.94E-03	7.76E-03	2.12E-02	6.94E-03	1.92E-03	3.78E-03	2.27E-03	1.49E-03	2.11E-03	1.04E-03
151	565433.2	4222204	0.014788	1.96E-02	7.01E-03	7.84E-03	2.14E-02	7.01E-03	1.94E-03	3.82E-03	2.29E-03	1.50E-03	2.13E-03	1.05E-03
152	565423.3	4222204	0.014874	1.97E-02	7.05E-03	7.89E-03	2.16E-02	7.05E-03	1.95E-03	3.84E-03	2.31E-03	1.51E-03	2.14E-03	1.05E-03
153	565413.4	4222204	0.014907	1.97E-02	7.06E-03	7.90E-03	2.16E-02	7.06E-03	1.96E-03	3.85E-03	2.31E-03	1.51E-03	2.14E-03	1.05E-03
154	565403.4	4222204	0.014891	1.97E-02	7.05E-03	7.90E-03	2.16E-02	7.05E-03	1.96E-03	3.85E-03	2.31E-03	1.51E-03	2.14E-03	1.05E-03
155	565393.5	4222204	0.014795	1.96E-02	7.01E-03	7.84E-03	2.14E-02	7.01E-03	1.94E-03	3.82E-03	2.29E-03	1.50E-03	2.13E-03	1.05E-03
156	565533.2	4222212	0.012982	1.72E-02	6.15E-03	6.88E-03	1.88E-02	6.15E-03	1.70E-03	3.35E-03	2.01E-03	1.32E-03	1.87E-03	9.18E-04
157	565492.6	4222194	0.011261	1.49E-02	5.33E-03	5.97E-03	1.63E-02	5.33E-03	1.48E-03	2.91E-03	1.75E-03	1.14E-03	1.62E-03	7.96E-04
158	565482.7	4222194	0.011465	1.52E-02	5.43E-03	6.08E-03	1.66E-02	5.43E-03	1.51E-03	2.96E-03	1.78E-03	1.17E-03	1.65E-03	8.11E-04
159	565472.8	4222194	0.01166	1.54E-02	5.52E-03	6.18E-03	1.69E-02	5.52E-03	1.53E-03	3.01E-03	1.81E-03	1.18E-03	1.68E-03	8.25E-04
160	565462.9	4222194	0.011847	1.57E-02	5.61E-03	6.28E-03	1.72E-02	5.61E-03	1.56E-03	3.06E-03	1.84E-03	1.20E-03	1.70E-03	8.38E-04
161	565453	4222194	0.012017	1.59E-02	5.69E-03	6.37E-03	1.74E-02	5.69E-03	1.58E-03	3.10E-03	1.86E-03	1.22E-03	1.73E-03	8.50E-04
162	565443	4222194	0.012162	1.61E-02	5.76E-03	6.45E-03	1.76E-02	5.76E-03	1.60E-03	3.14E-03	1.89E-03	1.24E-03	1.75E-03	8.60E-04
163	565433.1	4222194	0.01227	1.62E-02	5.81E-03	6.51E-03	1.78E-02	5.81E-03	1.61E-03	3.17E-03	1.90E-03	1.25E-03	1.77E-03	8.68E-04
164	565423.2	4222194	0.012339	1.63E-02	5.85E-03	6.54E-03	1.79E-02	5.85E-03	1.62E-03	3.19E-03	1.91E-03	1.25E-03	1.78E-03	8.73E-04
165	565413.3	4222194	0.01237	1.64E-02	5.86E-03	6.56E-03	1.79E-02	5.86E-03	1.62E-03	3.20E-03	1.92E-03	1.26E-03	1.78E-03	8.75E-04
166	565403.4	4222194	0.012363	1.64E-02	5.86E-03	6.55E-03	1.79E-02	5.86E-03	1.62E-03	3.19E-03	1.92E-03	1.26E-03	1.78E-03	8.74E-04
167	565393.5	4222194	0.012301	1.63E-02	5.83E-03	6.52E-03	1.78E-02	5.83E-03	1.62E-03	3.18E-03	1.91E-03	1.25E-03	1.77E-03	8.70E-04
168	565540.9	4222207	0.011582	1.53E-02	5.49E-03	6.14E-03	1.68E-02	5.49E-03	1.52E-03	2.99E-03	1.80E-03	1.18E-03	1.67E-03	8.19E-04
169	565544.5	4222215	0.012688	1.68E-02	6.01E-03	6.73E-03	1.84E-02	6.01E-03	1.67E-03	3.28E-03	1.97E-03	1.29E-03	1.83E-03	8.97E-04
170	565548.1	4222224	0.013803	1.83E-02	6.54E-03	7.32E-03	2.00E-02	6.54E-03	1.81E-03	3.57E-03	2.14E-03	1.40E-03	1.99E-03	9.76E-04
171	565502.5	4222184	0.009572	1.27E-02	4.53E-03	5.07E-03	1.39E-02	4.53E-03	1.26E-03	2.47E-03	1.48E-03	9.73E-04	1.38E-03	6.77E-04
172	565492.6	4222184	0.009722	1.29E-02	4.61E-03	5.15E-03	1.41E-02	4.61E-03	1.28E-03	2.51E-03	1.51E-03	9.88E-04	1.40E-03	6.88E-04
173	565482.6	4222184	0.009857	1.30E-02	4.67E-03	5.23E-03	1.43E-02	4.67E-03	1.29E-03	2.55E-03	1.53E-03	1.00E-03	1.42E-03	6.97E-04
174	565472.7	4222184	0.009983	1.32E-02	4.73E-03	5.29E-03	1.45E-02	4.73E-03	1.31E-03	2.58E-03	1.55E-03	1.01E-03	1.44E-03	7.06E-04
175	565462.8	4222184	0.010101	1.34E-02	4.79E-03	5.36E-03	1.46E-02	4.79E-03	1.33E-03	2.61E-03	1.57E-03	1.03E-03	1.45E-03	7.14E-04
176	565452.9	4222184	0.010211	1.35E-02	4.84E-03	5.41E-03	1.48E-02	4.84E-03	1.34E-03	2.64E-03	1.58E-03	1.04E-03	1.47E-03	7.22E-04
177	565443	4222184	0.010304	1.36E-02	4.88E-03	5.46E-03	1.49E-02	4.88E-03	1.35E-03	2.66E-03	1.60E-03	1.05E-03	1.48E-03	7.29E-04
178	565433.1	4222184	0.010377	1.37E-02	4.92E-03	5.50E-03	1.50E-02	4.92E-03	1.36E-03	2.68E-03	1.61E-03	1.05E-03	1.49E-03	7.34E-04
179	565423.2	4222184	0.010425	1.38E-02	4.94E-03	5.53E-03	1.51E-02	4.94E-03	1.37E-03	2.69E-03	1.62E-03	1.06E-03	1.50E-03	7.37E-04

180	565413.3	4222184	0.010447	1.38E-02	4.95E-03	5.54E-03	1.51E-02	4.95E-03	1.37E-03	2.70E-03	1.62E-03	1.06E-03	1.50E-03	7.39E-04
181	565403.4	4222184	0.010443	1.38E-02	4.95E-03	5.54E-03	1.51E-02	4.95E-03	1.37E-03	2.70E-03	1.62E-03	1.06E-03	1.50E-03	7.39E-04
182	565393.5	4222184	0.0104	1.38E-02	4.93E-03	5.51E-03	1.51E-02	4.93E-03	1.37E-03	2.69E-03	1.61E-03	1.06E-03	1.50E-03	7.35E-04
183	565535.9	4222188	0.00929	1.23E-02	4.40E-03	4.93E-03	1.35E-02	4.40E-03	1.22E-03	2.40E-03	1.44E-03	9.44E-04	1.34E-03	6.57E-04
184	565547.7	4222199	0.010232	1.35E-02	4.85E-03	5.42E-03	1.48E-02	4.85E-03	1.34E-03	2.64E-03	1.59E-03	1.04E-03	1.47E-03	7.24E-04
185	565554.6	4222216	0.011976	1.58E-02	5.67E-03	6.35E-03	1.74E-02	5.67E-03	1.57E-03	3.09E-03	1.86E-03	1.22E-03	1.72E-03	8.47E-04
186	565502.4	4222174	0.008403	1.11E-02	3.98E-03	4.46E-03	1.22E-02	3.98E-03	1.10E-03	2.17E-03	1.30E-03	8.54E-04	1.21E-03	5.94E-04
187	565492.5	4222174	0.008505	1.12E-02	4.03E-03	4.51E-03	1.23E-02	4.03E-03	1.12E-03	2.20E-03	1.32E-03	8.64E-04	1.22E-03	6.02E-04
188	565482.6	4222174	0.008595	1.14E-02	4.07E-03	4.56E-03	1.25E-02	4.07E-03	1.13E-03	2.22E-03	1.33E-03	8.73E-04	1.24E-03	6.08E-04
189	565472.7	4222174	0.008675	1.15E-02	4.11E-03	4.60E-03	1.26E-02	4.11E-03	1.14E-03	2.24E-03	1.34E-03	8.82E-04	1.25E-03	6.14E-04
190	565462.8	4222174	0.00875	1.16E-02	4.15E-03	4.64E-03	1.27E-02	4.15E-03	1.15E-03	2.26E-03	1.36E-03	8.89E-04	1.26E-03	6.19E-04
191	565452.9	4222174	0.008816	1.17E-02	4.18E-03	4.67E-03	1.28E-02	4.18E-03	1.16E-03	2.28E-03	1.37E-03	8.96E-04	1.27E-03	6.23E-04
192	565443	4222174	0.008872	1.17E-02	4.20E-03	4.70E-03	1.29E-02	4.20E-03	1.17E-03	2.29E-03	1.38E-03	9.02E-04	1.28E-03	6.27E-04
193	565433.1	4222174	0.008916	1.18E-02	4.22E-03	4.73E-03	1.29E-02	4.22E-03	1.17E-03	2.30E-03	1.38E-03	9.06E-04	1.28E-03	6.31E-04
194	565423.2	4222174	0.008945	1.18E-02	4.24E-03	4.74E-03	1.30E-02	4.24E-03	1.17E-03	2.31E-03	1.39E-03	9.09E-04	1.29E-03	6.33E-04
195	565413.3	4222174	0.008957	1.18E-02	4.24E-03	4.75E-03	1.30E-02	4.24E-03	1.18E-03	2.31E-03	1.39E-03	9.10E-04	1.29E-03	6.33E-04
196	565403.4	4222174	0.008953	1.18E-02	4.24E-03	4.75E-03	1.30E-02	4.24E-03	1.18E-03	2.31E-03	1.39E-03	9.10E-04	1.29E-03	6.33E-04
197	565393.5	4222174	0.00892	1.18E-02	4.23E-03	4.73E-03	1.29E-02	4.23E-03	1.17E-03	2.30E-03	1.38E-03	9.07E-04	1.28E-03	6.31E-04
198	565543	4222181	0.008391	1.11E-02	3.98E-03	4.45E-03	1.22E-02	3.98E-03	1.10E-03	2.17E-03	1.30E-03	8.53E-04	1.21E-03	5.93E-04
199	565554.5	4222192	0.009152	1.21E-02	4.34E-03	4.85E-03	1.33E-02	4.34E-03	1.20E-03	2.36E-03	1.42E-03	9.30E-04	1.32E-03	6.47E-04
200	565492.5	4222164	0.007518	9.94E-03	3.56E-03	3.99E-03	1.09E-02	3.56E-03	9.87E-04	1.94E-03	1.17E-03	7.64E-04	1.08E-03	5.32E-04
201	565482.6	4222164	0.007577	1.00E-02	3.59E-03	4.02E-03	1.10E-02	3.59E-03	9.95E-04	1.96E-03	1.17E-03	7.70E-04	1.09E-03	5.36E-04
202	565472.7	4222164	0.007627	1.01E-02	3.61E-03	4.04E-03	1.11E-02	3.61E-03	1.00E-03	1.97E-03	1.18E-03	7.75E-04	1.10E-03	5.39E-04
203	565462.8	4222164	0.007672	1.01E-02	3.63E-03	4.07E-03	1.11E-02	3.63E-03	1.01E-03	1.98E-03	1.19E-03	7.80E-04	1.10E-03	5.43E-04
204	565452.9	4222164	0.007709	1.02E-02	3.65E-03	4.09E-03	1.12E-02	3.65E-03	1.01E-03	1.99E-03	1.20E-03	7.83E-04	1.11E-03	5.45E-04
205	565443	4222164	0.00774	1.02E-02	3.67E-03	4.10E-03	1.12E-02	3.67E-03	1.02E-03	2.00E-03	1.20E-03	7.87E-04	1.11E-03	5.47E-04
206	565433.1	4222164	0.007763	1.03E-02	3.68E-03	4.12E-03	1.13E-02	3.68E-03	1.02E-03	2.01E-03	1.20E-03	7.89E-04	1.12E-03	5.49E-04
207	565423.2	4222164	0.007777	1.03E-02	3.68E-03	4.12E-03	1.13E-02	3.68E-03	1.02E-03	2.01E-03	1.21E-03	7.90E-04	1.12E-03	5.50E-04
208	565413.3	4222164	0.007782	1.03E-02	3.69E-03	4.13E-03	1.13E-02	3.69E-03	1.02E-03	2.01E-03	1.21E-03	7.91E-04	1.12E-03	5.50E-04
209	565403.4	4222164	0.007774	1.03E-02	3.68E-03	4.12E-03	1.13E-02	3.68E-03	1.02E-03	2.01E-03	1.21E-03	7.90E-04	1.12E-03	5.50E-04
210	565393.5	4222164	0.007748	1.02E-02	3.67E-03	4.11E-03	1.12E-02	3.67E-03	1.02E-03	2.00E-03	1.20E-03	7.87E-04	1.11E-03	5.48E-04
211	565542.2	4222171	0.007524	9.95E-03	3.56E-03	3.99E-03	1.09E-02	3.56E-03	9.88E-04	1.94E-03	1.17E-03	7.65E-04	1.08E-03	5.32E-04
212	565492.5	4222154	0.006703	8.86E-03	3.18E-03	3.55E-03	9.72E-03	3.18E-03	8.80E-04	1.73E-03	1.04E-03	6.81E-04	9.64E-04	4.74E-04
213	565482.6	4222154	0.00674	8.91E-03	3.19E-03	3.57E-03	9.77E-03	3.19E-03	8.85E-04	1.74E-03	1.04E-03	6.85E-04	9.70E-04	4.77E-04
214	565472.7	4222154	0.006771	8.95E-03	3.21E-03	3.59E-03	9.82E-03	3.21E-03	8.89E-04	1.75E-03	1.05E-03	6.88E-04	9.74E-04	4.79E-04
215	565462.8	4222154	0.006795	8.99E-03	3.22E-03	3.60E-03	9.85E-03	3.22E-03	8.92E-04	1.76E-03	1.05E-03	6.91E-04	9.77E-04	4.81E-04
216	565452.9	4222154	0.006813	9.01E-03	3.23E-03	3.61E-03	9.88E-03	3.23E-03	8.95E-04	1.76E-03	1.06E-03	6.92E-04	9.80E-04	4.82E-04
217	565443	4222154	0.006827	9.03E-03	3.23E-03	3.62E-03	9.90E-03	3.23E-03	8.97E-04	1.76E-03	1.06E-03	6.94E-04	9.82E-04	4.83E-04
218	565433.1	4222154	0.006835	9.04E-03	3.24E-03	3.62E-03	9.91E-03	3.24E-03	8.98E-04	1.77E-03	1.06E-03	6.95E-04	9.83E-04	4.83E-04
219	565423.2	4222154	0.006839	9.04E-03	3.24E-03	3.63E-03	9.92E-03	3.24E-03	8.98E-04	1.77E-03	1.06E-03	6.95E-04	9.84E-04	4.84E-04
220	565413.2	4222154	0.006836	9.04E-03	3.24E-03	3.62E-03	9.91E-03	3.24E-03	8.98E-04	1.77E-03	1.06E-03	6.95E-04	9.83E-04	4.83E-04
221	565403.3	4222154	0.006827	9.03E-03	3.23E-03	3.62E-03	9.90E-03	3.23E-03	8.97E-04	1.76E-03	1.06E-03	6.94E-04	9.82E-04	4.83E-04
222	565393.4	4222154	0.006804	9.00E-03	3.22E-03	3.61E-03	9.86E-03	3.22E-03	8.94E-04	1.76E-03	1.05E-03	6.91E-04	9.79E-04	4.81E-04
223	565538.2	4222159	0.00672	8.89E-03	3.18E-03	3.56E-03	9.74E-03	3.18E-03	8.82E-04	1.74E-03	1.04E-03	6.83E-04	9.67E-04	4.75E-04
224	565556.1	4222166	0.006972	9.22E-03	3.30E-03	3.70E-03	1.01E-02	3.30E-03	9.16E-04	1.80E-03	1.08E-03	7.09E-04	1.00E-03	4.93E-04
225	565502.4	4222144	0.005989	7.92E-03	2.84E-03	3.18E-03	8.68E-03	2.84E-03	7.87E-04	1.55E-03	9.28E-04	6.09E-04	8.61E-04	4.24E-04
226	565492.5	4222144	0.006019	7.96E-03	2.85E-03	3.19E-03	8.73E-03	2.85E-03	7.90E-04	1.55E-03	9.33E-04	6.12E-04	8.66E-04	4.26E-04
227	565482.6	4222144	0.006042	7.99E-03	2.86E-03	3.20E-03	8.76E-03	2.86E-03	7.93E-04	1.56E-03	9.37E-04	6.14E-04	8.69E-04	4.27E-04
228	565472.7	4222144	0.006058	8.01E-03	2.87E-03	3.21E-03	8.78E-03	2.87E-03	7.96E-04	1.57E-03	9.39E-04	6.16E-04	8.71E-04	4.28E-04
229	565462.7	4222144	0.006069	8.03E-03	2.88E-03	3.22E-03	8.80E-03	2.88E-03	7.97E-04	1.57E-03	9.41E-04	6.17E-04	8.73E-04	4.29E-04
230	565452.8	4222144	0.006075	8.03E-03	2.88E-03	3.22E-03	8.81E-03	2.88E-03	7.98E-04	1.57E-03	9.42E-04	6.17E-04	8.74E-04	4.30E-04
231	565442.9	4222144	0.006077	8.04E-03	2.88E-03	3.22E-03	8.81E-03	2.88E-03	7.98E-04	1.57E-03	9.42E-04	6.18E-04	8.74E-04	4.30E-04
232	565433	4222144	0.006076	8.04E-03	2.88E-03	3.22E-03	8.81E-03	2.88E-03	7.98E-04	1.57E-03	9.42E-04	6.18E-04	8.74E-04	4.30E-04
233	565423.1	4222145	0.006073	8.03E-03	2.88E-03	3.22E-03	8.80E-03	2.88E-03	7.98E-04	1.57E-03	9.41E-04	6.17E-04	8.74E-04	4.29E-04
234	565413.2	4222145	0.006065	8.02E-03	2.87E-03	3.22E-03	8.79E-03	2.87E-03	7.96E-04	1.57E-03	9.40E-04	6.16E-04	8.72E-04	4.29E-04
235	565403.3	4222145	0.006053	8.01E-03	2.87E-03	3.21E-03	8.78E-03	2.87E-03	7.95E-04	1.56E-03	9.38E-04	6.15E-04	8.71E-04	4.28E-04
236	565393.4	4222145	0.006033	7.98E-03	2.86E-03	3.20E-03	8.75E-03	2.86E-03	7.92E-04	1.56E-03	9.35E-04	6.13E-04	8.68E-04	4.27E-04
237	565537.2	4222149	0.006068	8.03E-03	2.87E-03	3.22E-03	8.80E-03	2.87E-03	7.97E-04	1.57E-03	9.41E-04	6.17E-04	8.73E-04	4.29E-04
238	565545.9	4222152	0.006202	8.20E-03	2.94E-03	3.29E-03	8.99E-03	2.94E-03	8.15E-04	1.60E-03	9.61E-04	6.30E-04	8.92E-04	4.39E-04
239	565554.6	4222156	0.006318	8.36E-03	2.99E-03	3.35E-03	9.16E-03	2.99E-03	8.30E-04	1.63E-03	9.79E-04	6.42E-04	9.09E-04	4.47E-04
240	565502.3	4222135	0.00542	7.17E-03	2.57E-03	2.87E-03	7.86E-03	2.57E-03	7.12E-04	1.40E-03	8.40E-04	5.51E-04	7.80E-04	3.83E-04
241	565492.4	4222135	0.005439	7.19E-03	2.58E-03	2.88E-03	7.88E-03	2.58E-03	7.14E-04	1.41E-03	8.43E-04	5.53E-04	7.82E-04	3.85E-04
242	565482.5	4222135	0.005451	7.21E-03	2.58E-03	2.89E-03	7.90E-03	2.58E-03	7.16E-04	1.41E-03	8.45E-04	5.54E-04	7.84E-04	3.86E-04
243	565472.6	4222135	0.005458	7.22E-03	2.59E-03	2.89E-03	7.91E-03	2.59E-03	7.17E-04	1.41E-03	8.46E-04	5.55E-04	7.85E-04	3.86E-04
244	565462.7	4222135	0.00546	7.22E-03	2.59E-03	2.89E-03	7.92E-03	2.59E-03	7.17E-04	1.41E-03	8.46E-04	5.55E-04	7.85E-04	3.86E-04
245	565452.8	4222135	0.005458	7.22E-03	2.59E-03	2.89E-03	7.91E-03	2.59E-03	7.17E-04	1.41E-03	8.46E-04	5.55E-04	7.85E-04	3.86E-04
246	565442.9	4222135	0.005453	7.21E-03	2.58E-03	2.89E-03	7.91E-03	2.58E-03	7.16E-04	1.41E-03	8.45E-04	5.54E-04	7.84E-04	3.86E-04
247	565433	4222135	0.005447	7.20E-03	2.58E-03	2.89E-03	7.90E-03	2.58E-03	7.15E-04	1.41E-03	8.44E-04	5.54E-04	7.84E-04	3.85E-04
248	565423.1	4222135	0.005438	7.19E-03	2.58E-03	2.88E-03	7.88E-03	2.58E-03	7.14E-04	1.40E-03	8.43E-04	5.53E-04	7.82E-04	3.85E-04
249	565413.2	4222135	0.005427	7.18E-03	2.57E-03	2.88E-03	7.87E-03	2.57E-03	7.13E-04	1.40E-03	8.41E-04	5.52E-04	7.81E-04	3.84E-04
250	565403.3	4222135	0.005414	7.16E-03	2.57E-03	2.87E-03	7.85E-03	2.57E-03	7.11E-04	1.40E-03	8.39E-04	5.50E-04	7.79E-04	3.83E-04
251	565393.4	4222135	0.005396	7.14E-03	2.56E-03	2.86E-03	7.82E-03	2.56E-03	7.09E-04	1.39E-03	8.36E-04	5.48E-04	7.76E-04	3.82E-04
252	565536.4	4222139	0.005508	7.28E-03	2.61E-03	2.92E-03	7.98E-03	2.61E-03	7.23E-04	1.42E-03	8.54E-04	5.60E-04	7.92E-04	3.90E-04
253	565544.9	4222142	0.005634	7.45E-03	2.67E-03	2.99E-03	8.17E-03	2.67E-03	7.40E-04	1.46E-03	8.73E-04	5.73E-04	8.10E-04	3.98E-04
254	565553.4	4222146	0.005747	7.60E-03	2.72E-03	3.05E-03	8.33E-03	2.72E-03	7.55E-04	1.48E-03	8.91E-04	5.84E-04	8.27E-04	4.06E-04
255	565502.3	4222125	0.004932	6.52E-03	2.34E-03	2.61E-03	7.15E-03	2.34E-03	6.48E-04	1.27E-03	7.65E-04	5.01E-04	7.09E-04	3.49E-04
256	565492.4	4222125	0.004942	6.54E-03	2.34E-03	2.62E-03	7.17E-03	2.34E-03	6.49E-04	1.28E-03	7.66E-04	5.02E-04	7.11E-04	3.50E-04
257	565482.5	4222125	0.004947	6.54E-03	2.34E-03	2.62E-03	7.17E-03	2.34E-03	6.50E-04	1.28E-03	7.67E-04	5.03E-04	7.12E-04	3.50E-04
258	565472.6	4222125	0.004947	6.54E-03	2.34E-03	2.62E-03	7.17E-03	2.34E-03	6.50E-04	1.28E-03	7.67E-04	5.03E-04	7.12E-04	3.50E-04
259	565462.7	4222125	0.004943	6.54E-03	2.34E-03	2.62E-03	7.17E-03	2.34E-03	6.49E-04	1.28E-03	7.66E-04	5.02E-04	7.11E-04	3.50E-04
260	565452.8	4222125	0.004937	6.53E-03	2.34E-03	2.62E-03	7.16E-03	2.34E-03	6.48E-04	1.28E-03	7.65E-04	5.02E-04	7.10E-04	3.49E-04
261	565442.9	4222125	0.004928	6.52E-03	2.33E-03	2.61E-03	7.14E-03	2.33E-03	6.47E-04	1.27E-03	7.64E-04	5.01E-04	7.09E-04	3.49E-04
262	565433	4222125	0.004917	6.50E-03	2.33E-03	2.61E-03	7.13E-03	2.33E-03	6.46E-04	1.27E-03	7.62E-04	5.00E-04	7.07E-04	3.48E-04
263	565423.1	4222125	0.004905	6.49E-03	2.32E-03	2.60E-03	7.11E-03	2.32E-03	6.44E-04	1.27E-03	7.60E-04	4.98E-04	7.06E-04	3.47E-04
264	565413.2	4222125	0.004892	6.47E-03	2.32E-03	2.59E-03	7.09E-03	2.32E-03	6.43E-04	1.26E-03	7.58E-04	4.97E-04	7.04E-04	3.46E-04
265	565403.3	4222125	0.004879	6.45E-03	2.31E-03	2.59E-03	7.07E-03	2.31E-03	6.41E-04	1.26E-03	7.56E-04	4.96E-04	7.02E-04	3.45E-04
266	565393.4	4222125	0.004862	6.43E-03	2.30E-03	2.58E-03	7.05E-03	2.30E-03	6.39E-04	1.26E-03	7.54E-04	4.94E-04	6.99E-04	3.44E-04
267	565535.7	4222129	0.005023	6.64E-03	2.38E-03	2.66E-03	7.28E-03	2.38E-03	6.60E-04	1.30E-03	7.79E-04	5.10E-04	7.22E-04	3.55E-04
268	565544.1	4222132	0.005139	6.80E-03	2.43E-03	2.72E-03	7.45E-03	2.43E-03	6.75E-04	1.33E-03	7.97E-04	5.22E-04	7.39E-04	3.63E-04
269	565552.4	4222135	0.005246	6.94E-03	2.49E-03	2.78E-03	7.61E-03	2.49E-03	6.89E-04	1.36E-03	8.13E-04	5.33E-04	7.55E-04	3.71E-04
270	565560.8	4222139	0.005343	7.07E-03	2.53E-03	2.83E-03	7.75E-03	2.53E-03	7.02E-04	1.38E-03	8.28E-04	5.43E-04	7.69E-04	3.78E-04

271	565502.3	4222115	0.004509	5.96E-03	2.14E-03	2.39E-03	6.54E-03	2.14E-03	5.92E-04	1.16E-03	6.99E-04	4.58E-04	6.49E-04	3.19E-04
272	565492.4	4222115	0.004513	5.97E-03	2.14E-03	2.39E-03	6.54E-03	2.14E-03	5.93E-04	1.17E-03	7.00E-04	4.59E-04	6.49E-04	3.19E-04
273	565482.5	4222115	0.004512	5.97E-03	2.14E-03	2.39E-03	6.54E-03	2.14E-03	5.93E-04	1.17E-03	7.00E-04	4.59E-04	6.49E-04	3.19E-04
274	565472.6	4222115	0.004508	5.96E-03	2.14E-03	2.39E-03	6.54E-03	2.14E-03	5.92E-04	1.16E-03	6.99E-04	4.58E-04	6.48E-04	3.19E-04
275	565462.7	4222115	0.004501	5.95E-03	2.13E-03	2.39E-03	6.53E-03	2.13E-03	5.91E-04	1.16E-03	6.98E-04	4.57E-04	6.47E-04	3.18E-04
276	565452.8	4222115	0.004491	5.94E-03	2.13E-03	2.38E-03	6.51E-03	2.13E-03	5.90E-04	1.16E-03	6.96E-04	4.56E-04	6.46E-04	3.18E-04
277	565442.9	4222115	0.00448	5.92E-03	2.12E-03	2.38E-03	6.49E-03	2.12E-03	5.88E-04	1.16E-03	6.94E-04	4.55E-04	6.44E-04	3.17E-04
278	565433	4222115	0.004467	5.91E-03	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.15E-03	6.93E-04	4.54E-04	6.43E-04	3.16E-04
279	565423.1	4222115	0.004453	5.89E-03	2.11E-03	2.36E-03	6.46E-03	2.11E-03	5.85E-04	1.15E-03	6.90E-04	4.53E-04	6.41E-04	3.15E-04
280	565413.2	4222115	0.004438	5.87E-03	2.10E-03	2.35E-03	6.43E-03	2.10E-03	5.83E-04	1.15E-03	6.88E-04	4.51E-04	6.38E-04	3.14E-04
281	565403.3	4222115	0.004423	5.85E-03	2.10E-03	2.35E-03	6.41E-03	2.10E-03	5.81E-04	1.14E-03	6.86E-04	4.50E-04	6.36E-04	3.13E-04
282	565393.3	4222115	0.004409	5.83E-03	2.09E-03	2.34E-03	6.39E-03	2.09E-03	5.79E-04	1.14E-03	6.83E-04	4.48E-04	6.34E-04	3.12E-04
283	565547.5	4222124	0.004757	6.29E-03	2.25E-03	2.52E-03	6.90E-03	2.25E-03	6.25E-04	1.23E-03	7.37E-04	4.83E-04	6.84E-04	3.36E-04
284	565556.6	4222127	0.004863	6.43E-03	2.30E-03	2.58E-03	7.05E-03	2.30E-03	6.39E-04	1.26E-03	7.54E-04	4.94E-04	7.00E-04	3.44E-04
285	565502.3	4222105	0.004139	5.47E-03	1.96E-03	2.19E-03	6.00E-03	1.96E-03	5.44E-04	1.07E-03	6.42E-04	4.21E-04	5.95E-04	2.93E-04
286	565492.4	4222105	0.004139	5.47E-03	1.96E-03	2.19E-03	6.00E-03	1.96E-03	5.44E-04	1.07E-03	6.42E-04	4.21E-04	5.95E-04	2.93E-04
287	565482.5	4222105	0.004135	5.47E-03	1.96E-03	2.19E-03	6.00E-03	1.96E-03	5.43E-04	1.07E-03	6.41E-04	4.20E-04	5.95E-04	2.92E-04
288	565472.6	4222105	0.004128	5.46E-03	1.96E-03	2.19E-03	5.99E-03	1.96E-03	5.42E-04	1.07E-03	6.40E-04	4.20E-04	5.94E-04	2.92E-04
289	565462.7	4222105	0.004119	5.45E-03	1.95E-03	2.18E-03	5.97E-03	1.95E-03	5.41E-04	1.06E-03	6.38E-04	4.19E-04	5.92E-04	2.91E-04
290	565452.8	4222105	0.004108	5.43E-03	1.95E-03	2.18E-03	5.96E-03	1.95E-03	5.39E-04	1.06E-03	6.37E-04	4.17E-04	5.91E-04	2.90E-04
291	565442.9	4222105	0.004095	5.42E-03	1.94E-03	2.17E-03	5.94E-03	1.94E-03	5.38E-04	1.06E-03	6.35E-04	4.16E-04	5.89E-04	2.90E-04
292	565432.9	4222105	0.004081	5.40E-03	1.93E-03	2.16E-03	5.92E-03	1.93E-03	5.36E-04	1.05E-03	6.33E-04	4.15E-04	5.87E-04	2.89E-04
293	565423	4222105	0.004065	5.38E-03	1.93E-03	2.16E-03	5.89E-03	1.93E-03	5.34E-04	1.05E-03	6.30E-04	4.13E-04	5.85E-04	2.87E-04
294	565413.1	4222105	0.004049	5.36E-03	1.92E-03	2.15E-03	5.87E-03	1.92E-03	5.32E-04	1.05E-03	6.28E-04	4.12E-04	5.82E-04	2.86E-04
295	565403.2	4222105	0.004034	5.34E-03	1.91E-03	2.14E-03	5.85E-03	1.91E-03	5.30E-04	1.04E-03	6.25E-04	4.10E-04	5.80E-04	2.85E-04
296	565393.3	4222105	0.004021	5.32E-03	1.91E-03	2.13E-03	5.83E-03	1.91E-03	5.28E-04	1.04E-03	6.23E-04	4.09E-04	5.78E-04	2.84E-04
297	565383.4	4222105	0.004009	5.30E-03	1.90E-03	2.13E-03	5.81E-03	1.90E-03	5.26E-04	1.04E-03	6.21E-04	4.07E-04	5.77E-04	2.84E-04
298	565373.5	4222105	0.003998	5.29E-03	1.89E-03	2.12E-03	5.80E-03	1.89E-03	5.25E-04	1.03E-03	6.20E-04	4.06E-04	5.75E-04	2.83E-04
299	565363.6	4222105	0.003989	5.28E-03	1.89E-03	2.12E-03	5.78E-03	1.89E-03	5.24E-04	1.03E-03	6.18E-04	4.05E-04	5.74E-04	2.82E-04
300	565353.7	4222105	0.003982	5.27E-03	1.89E-03	2.11E-03	5.77E-03	1.89E-03	5.23E-04	1.03E-03	6.17E-04	4.05E-04	5.73E-04	2.82E-04
301	565343.8	4222105	0.003977	5.26E-03	1.88E-03	2.11E-03	5.77E-03	1.88E-03	5.22E-04	1.03E-03	6.16E-04	4.04E-04	5.72E-04	2.81E-04
302	565333.9	4222105	0.003969	5.25E-03	1.88E-03	2.10E-03	5.75E-03	1.88E-03	5.21E-04	1.03E-03	6.15E-04	4.03E-04	5.71E-04	2.81E-04
303	565324	4222105	0.003961	5.24E-03	1.88E-03	2.10E-03	5.74E-03	1.88E-03	5.20E-04	1.02E-03	6.14E-04	4.03E-04	5.70E-04	2.80E-04
304	565314.1	4222105	0.003955	5.23E-03	1.87E-03	2.10E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.13E-04	4.02E-04	5.69E-04	2.80E-04
305	565304.2	4222105	0.003953	5.23E-03	1.87E-03	2.10E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.13E-04	4.02E-04	5.69E-04	2.80E-04
306	565294.3	4222105	0.003951	5.23E-03	1.87E-03	2.09E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.13E-04	4.02E-04	5.68E-04	2.79E-04
307	565284.4	4222105	0.003949	5.22E-03	1.87E-03	2.09E-03	5.73E-03	1.87E-03	5.19E-04	1.02E-03	6.12E-04	4.01E-04	5.68E-04	2.79E-04
308	565537.7	4222110	0.004265	5.64E-03	2.02E-03	2.26E-03	6.18E-03	2.02E-03	5.60E-04	1.10E-03	6.61E-04	4.33E-04	6.13E-04	3.02E-04
309	565546.6	4222113	0.004369	5.78E-03	2.07E-03	2.32E-03	6.33E-03	2.07E-03	5.74E-04	1.13E-03	6.77E-04	4.44E-04	6.28E-04	3.09E-04
310	565555.4	4222117	0.004468	5.91E-03	2.12E-03	2.37E-03	6.48E-03	2.12E-03	5.87E-04	1.15E-03	6.93E-04	4.54E-04	6.43E-04	3.16E-04
311	565502.3	4222095	0.003815	5.05E-03	1.81E-03	2.02E-03	5.53E-03	1.81E-03	5.01E-04	9.86E-04	5.91E-04	3.88E-04	5.49E-04	2.70E-04
312	565492.4	4222095	0.003812	5.04E-03	1.81E-03	2.02E-03	5.53E-03	1.81E-03	5.01E-04	9.85E-04	5.91E-04	3.87E-04	5.48E-04	2.70E-04
313	565482.5	4222095	0.003806	5.03E-03	1.80E-03	2.02E-03	5.52E-03	1.80E-03	5.00E-04	9.83E-04	5.90E-04	3.87E-04	5.47E-04	2.69E-04
314	565472.5	4222095	0.003797	5.02E-03	1.80E-03	2.01E-03	5.50E-03	1.80E-03	4.99E-04	9.81E-04	5.89E-04	3.86E-04	5.46E-04	2.69E-04
315	565462.6	4222095	0.003787	5.01E-03	1.79E-03	2.01E-03	5.49E-03	1.79E-03	4.97E-04	9.78E-04	5.87E-04	3.85E-04	5.45E-04	2.68E-04
316	565452.7	4222095	0.003774	4.99E-03	1.79E-03	2.00E-03	5.47E-03	1.79E-03	4.96E-04	9.75E-04	5.85E-04	3.84E-04	5.43E-04	2.67E-04
317	565442.8	4222095	0.003761	4.97E-03	1.78E-03	1.99E-03	5.45E-03	1.78E-03	4.94E-04	9.72E-04	5.83E-04	3.82E-04	5.41E-04	2.66E-04
318	565432.9	4222095	0.003747	4.95E-03	1.77E-03	1.99E-03	5.43E-03	1.77E-03	4.92E-04	9.68E-04	5.81E-04	3.81E-04	5.39E-04	2.65E-04
319	565423	4222095	0.00373	4.93E-03	1.77E-03	1.98E-03	5.41E-03	1.77E-03	4.90E-04	9.64E-04	5.78E-04	3.79E-04	5.37E-04	2.64E-04
320	565413.1	4222095	0.003714	4.91E-03	1.76E-03	1.97E-03	5.38E-03	1.76E-03	4.88E-04	9.60E-04	5.76E-04	3.77E-04	5.34E-04	2.63E-04
321	565403.2	4222095	0.003699	4.89E-03	1.75E-03	1.96E-03	5.36E-03	1.75E-03	4.86E-04	9.56E-04	5.73E-04	3.76E-04	5.32E-04	2.62E-04
322	565393.3	4222095	0.003687	4.88E-03	1.75E-03	1.95E-03	5.35E-03	1.75E-03	4.84E-04	9.53E-04	5.72E-04	3.75E-04	5.30E-04	2.61E-04
323	565383.4	4222095	0.003677	4.86E-03	1.74E-03	1.95E-03	5.33E-03	1.74E-03	4.83E-04	9.50E-04	5.70E-04	3.74E-04	5.29E-04	2.60E-04
324	565373.5	4222095	0.003668	4.85E-03	1.74E-03	1.94E-03	5.32E-03	1.74E-03	4.82E-04	9.48E-04	5.69E-04	3.73E-04	5.28E-04	2.59E-04
325	565363.6	4222095	0.00366	4.84E-03	1.73E-03	1.94E-03	5.31E-03	1.73E-03	4.81E-04	9.46E-04	5.67E-04	3.72E-04	5.26E-04	2.59E-04
326	565353.7	4222095	0.003654	4.83E-03	1.73E-03	1.94E-03	5.30E-03	1.73E-03	4.80E-04	9.44E-04	5.66E-04	3.71E-04	5.26E-04	2.58E-04
327	565343.8	4222096	0.003649	4.83E-03	1.73E-03	1.93E-03	5.29E-03	1.73E-03	4.79E-04	9.43E-04	5.66E-04	3.71E-04	5.25E-04	2.58E-04
328	565333.9	4222096	0.003643	4.82E-03	1.73E-03	1.93E-03	5.28E-03	1.73E-03	4.78E-04	9.41E-04	5.65E-04	3.70E-04	5.24E-04	2.58E-04
329	565324	4222096	0.003638	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.78E-04	9.40E-04	5.64E-04	3.70E-04	5.23E-04	2.57E-04
330	565314.1	4222096	0.003634	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.77E-04	9.39E-04	5.63E-04	3.69E-04	5.23E-04	2.57E-04
331	565304.2	4222096	0.003634	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.77E-04	9.39E-04	5.63E-04	3.69E-04	5.23E-04	2.57E-04
332	565294.3	4222096	0.003634	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.77E-04	9.39E-04	5.63E-04	3.69E-04	5.23E-04	2.57E-04
333	565284.4	4222096	0.003634	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.77E-04	9.39E-04	5.63E-04	3.69E-04	5.23E-04	2.57E-04
334	565537.1	4222100	0.003932	5.20E-03	1.86E-03	2.08E-03	5.70E-03	1.86E-03	5.16E-04	1.02E-03	6.09E-04	4.00E-04	5.66E-04	2.78E-04
335	565545.8	4222103	0.004027	5.33E-03	1.91E-03	2.14E-03	5.84E-03	1.91E-03	5.29E-04	1.04E-03	6.24E-04	4.09E-04	5.79E-04	2.85E-04
336	565554.5	4222107	0.004118	5.45E-03	1.95E-03	2.18E-03	5.97E-03	1.95E-03	5.41E-04	1.06E-03	6.38E-04	4.19E-04	5.92E-04	2.91E-04
337	565563.2	4222110	0.004205	5.56E-03	1.99E-03	2.23E-03	6.10E-03	1.99E-03	5.52E-04	1.09E-03	6.52E-04	4.27E-04	6.05E-04	2.97E-04
338	565502.2	4222085	0.003529	4.67E-03	1.67E-03	1.87E-03	5.12E-03	1.67E-03	4.63E-04	9.12E-04	5.47E-04	3.59E-04	5.08E-04	2.50E-04
339	565492.3	4222085	0.003524	4.66E-03	1.67E-03	1.87E-03	5.11E-03	1.67E-03	4.63E-04	9.10E-04	5.46E-04	3.58E-04	5.07E-04	2.49E-04
340	565482.4	4222085	0.003516	4.65E-03	1.67E-03	1.86E-03	5.10E-03	1.67E-03	4.62E-04	9.08E-04	5.45E-04	3.57E-04	5.06E-04	2.49E-04
341	565472.5	4222085	0.003507	4.64E-03	1.66E-03	1.86E-03	5.08E-03	1.66E-03	4.61E-04	9.06E-04	5.44E-04	3.56E-04	5.04E-04	2.48E-04
342	565462.6	4222085	0.003495	4.62E-03	1.66E-03	1.85E-03	5.07E-03	1.66E-03	4.59E-04	9.03E-04	5.42E-04	3.55E-04	5.03E-04	2.47E-04
343	565452.7	4222085	0.003482	4.61E-03	1.65E-03	1.85E-03	5.05E-03	1.65E-03	4.57E-04	9.00E-04	5.40E-04	3.54E-04	5.01E-04	2.46E-04
344	565442.8	4222085	0.003469	4.59E-03	1.64E-03	1.84E-03	5.03E-03	1.64E-03	4.56E-04	8.96E-04	5.38E-04	3.53E-04	4.99E-04	2.45E-04
345	565432.9	4222085	0.003455	4.57E-03	1.64E-03	1.83E-03	5.01E-03	1.64E-03	4.54E-04	8.93E-04	5.36E-04	3.51E-04	4.97E-04	2.44E-04
346	565423	4222085	0.003439	4.55E-03	1.63E-03	1.82E-03	4.99E-03	1.63E-03	4.52E-04	8.89E-04	5.33E-04	3.50E-04	4.95E-04	2.43E-04
347	565413.1	4222086	0.003424	4.53E-03	1.62E-03	1.82E-03	4.96E-03	1.62E-03	4.50E-04	8.85E-04	5.31E-04	3.48E-04	4.93E-04	2.42E-04
348	565403.2	4222086	0.00341	4.51E-03	1.62E-03	1.81E-03	4.94E-03	1.62E-03	4.48E-04	8.81E-04	5.29E-04	3.46E-04	4.90E-04	2.41E-04
349	565393.3	4222086	0.003398	4.49E-03	1.61E-03	1.80E-03	4.93E-03	1.61E-03	4.46E-04	8.78E-04	5.27E-04	3.45E-04	4.89E-04	2.40E-04
350	565383.4	4222086	0.003389	4.48E-03	1.61E-03	1.80E-03	4.91E-03	1.61E-03	4.45E-04	8.75E-04	5.25E-04	3.44E-04	4.87E-04	2.40E-04
351	565373.5	4222086	0.00338	4.47E-03	1.60E-03	1.79E-03	4.90E-03	1.60E-03	4.44E-04	8.73E-04	5.24E-04	3.44E-04	4.86E-04	2.39E-04
352	565363.6	4222086	0.003373	4.46E-03	1.60E-03	1.79E-03	4.89E-03	1.60E-03	4.43E-04	8.71E-04	5.23E-04	3.43E-04	4.85E-04	2.39E-04
353	565353.7	4222086	0.003366	4.45E-03	1.59E-03	1.78E-03	4.88E-03	1.59E-03	4.42E-04	8.70E-04	5.22E-04	3.42E-04	4.84E-04	2.38E-04
354	565343.8	4222086	0.003362	4.45E-03	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.68E-04	5.21E-04	3.42E-04	4.84E-04	2.38E-04
355	565333.9	4222086	0.003357	4.44E-03	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
356	565323.9	4222086	0.003354	4.44E-03	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.82E-04	2.37E-04
357	565314	4222086	0.003352	4.43E-03	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.66E-04	5.20E-04	3.41E-04	4.82E-04	2.37E-04
358	565304.1	4222086	0.003354	4.44E-03	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.40E-04	8.66E-04	5.20E-04	3.41E-04	4.82E-04	2.37E-04
359	565294.2	4222086	0.003355	4.44E-03	1.59E-03	1.78E-03	4.86E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
360	565284.3	4222086	0.003357	4.44E-03	1.59E-03	1.78E-03	4.87E-03	1.59E-03	4.41E-04	8.67E-04	5.20E-04	3.41E-04	4.83E-04	2.37E-04
361	565536.5	4222090	0.003637	4.81E-03	1.72E-03	1.93E-03	5.27E-03	1.72E-03	4.78E-04	9.40E-04	5.64E-04	3.70E-04	5.23E-04	2.57E-04

362	565545.1	4222093	0.003724	4.93E-03	1.76E-03	1.97E-03	5.40E-03	1.76E-03	4.89E-04	9.62E-04	5.77E-04	3.78E-04	5.36E-04	2.63E-04
363	565553.6	4222097	0.003808	5.04E-03	1.80E-03	2.02E-03	5.52E-03	1.80E-03	5.00E-04	9.84E-04	5.90E-04	3.87E-04	5.48E-04	2.69E-04
364	565562.2	4222100	0.003889	5.14E-03	1.84E-03	2.06E-03	5.64E-03	1.84E-03	5.11E-04	1.00E-03	6.03E-04	3.95E-04	5.59E-04	2.75E-04
365	565502.2	4222075	0.003275	4.33E-03	1.55E-03	1.74E-03	4.75E-03	1.55E-03	4.30E-04	8.46E-04	5.08E-04	3.33E-04	4.71E-04	2.32E-04
366	565492.3	4222075	0.003269	4.32E-03	1.55E-03	1.73E-03	4.74E-03	1.55E-03	4.29E-04	8.44E-04	5.07E-04	3.32E-04	4.70E-04	2.31E-04
367	565482.4	4222076	0.00326	4.31E-03	1.54E-03	1.73E-03	4.73E-03	1.54E-03	4.28E-04	8.42E-04	5.05E-04	3.31E-04	4.69E-04	2.31E-04
368	565472.5	4222076	0.00325	4.30E-03	1.54E-03	1.72E-03	4.71E-03	1.54E-03	4.27E-04	8.40E-04	5.04E-04	3.30E-04	4.68E-04	2.30E-04
369	565462.6	4222076	0.003238	4.28E-03	1.53E-03	1.72E-03	4.69E-03	1.53E-03	4.25E-04	8.37E-04	5.02E-04	3.29E-04	4.66E-04	2.29E-04
370	565452.7	4222076	0.003226	4.27E-03	1.53E-03	1.71E-03	4.68E-03	1.53E-03	4.24E-04	8.33E-04	5.00E-04	3.28E-04	4.64E-04	2.28E-04
371	565442.8	4222076	0.003212	4.25E-03	1.52E-03	1.70E-03	4.66E-03	1.52E-03	4.22E-04	8.30E-04	4.98E-04	3.26E-04	4.62E-04	2.27E-04
372	565432.9	4222076	0.003199	4.23E-03	1.52E-03	1.70E-03	4.64E-03	1.52E-03	4.20E-04	8.26E-04	4.96E-04	3.25E-04	4.60E-04	2.26E-04
373	565423	4222076	0.003184	4.21E-03	1.51E-03	1.69E-03	4.62E-03	1.51E-03	4.18E-04	8.23E-04	4.94E-04	3.24E-04	4.58E-04	2.25E-04
374	565413.1	4222076	0.00317	4.19E-03	1.50E-03	1.68E-03	4.60E-03	1.50E-03	4.16E-04	8.19E-04	4.91E-04	3.22E-04	4.56E-04	2.24E-04
375	565403.2	4222076	0.003156	4.17E-03	1.50E-03	1.67E-03	4.58E-03	1.50E-03	4.14E-04	8.15E-04	4.89E-04	3.21E-04	4.54E-04	2.23E-04
376	565393.3	4222076	0.003145	4.16E-03	1.49E-03	1.67E-03	4.56E-03	1.49E-03	4.13E-04	8.13E-04	4.88E-04	3.20E-04	4.52E-04	2.22E-04
377	565383.4	4222076	0.003136	4.15E-03	1.49E-03	1.66E-03	4.55E-03	1.49E-03	4.12E-04	8.10E-04	4.86E-04	3.19E-04	4.51E-04	2.22E-04
378	565373.5	4222076	0.003128	4.14E-03	1.48E-03	1.66E-03	4.54E-03	1.48E-03	4.11E-04	8.08E-04	4.85E-04	3.18E-04	4.50E-04	2.21E-04
379	565363.5	4222076	0.003121	4.13E-03	1.48E-03	1.65E-03	4.52E-03	1.48E-03	4.10E-04	8.06E-04	4.84E-04	3.17E-04	4.49E-04	2.21E-04
380	565353.6	4222076	0.003114	4.12E-03	1.48E-03	1.65E-03	4.51E-03	1.48E-03	4.09E-04	8.04E-04	4.83E-04	3.16E-04	4.48E-04	2.20E-04
381	565343.7	4222076	0.003109	4.11E-03	1.47E-03	1.65E-03	4.51E-03	1.47E-03	4.08E-04	8.03E-04	4.82E-04	3.16E-04	4.47E-04	2.20E-04
382	565333.8	4222076	0.003106	4.11E-03	1.47E-03	1.65E-03	4.50E-03	1.47E-03	4.08E-04	8.02E-04	4.81E-04	3.16E-04	4.47E-04	2.20E-04
383	565323.9	4222076	0.003105	4.11E-03	1.47E-03	1.65E-03	4.50E-03	1.47E-03	4.08E-04	8.02E-04	4.81E-04	3.16E-04	4.47E-04	2.20E-04
384	565314	4222076	0.003105	4.11E-03	1.47E-03	1.65E-03	4.50E-03	1.47E-03	4.08E-04	8.02E-04	4.81E-04	3.15E-04	4.47E-04	2.20E-04
385	565304.1	4222076	0.003106	4.11E-03	1.47E-03	1.65E-03	4.50E-03	1.47E-03	4.08E-04	8.02E-04	4.81E-04	3.16E-04	4.47E-04	2.20E-04
386	565294.2	4222076	0.003108	4.11E-03	1.47E-03	1.65E-03	4.51E-03	1.47E-03	4.08E-04	8.03E-04	4.82E-04	3.16E-04	4.47E-04	2.20E-04
387	565284.3	4222076	0.003111	4.11E-03	1.47E-03	1.65E-03	4.51E-03	1.47E-03	4.09E-04	8.04E-04	4.82E-04	3.16E-04	4.47E-04	2.20E-04
388	565538.6	4222081	0.0034	4.50E-03	1.61E-03	1.80E-03	4.93E-03	1.61E-03	4.47E-04	8.78E-04	5.27E-04	3.46E-04	4.89E-04	2.40E-04
389	565556.8	4222088	0.003567	4.72E-03	1.69E-03	1.89E-03	5.17E-03	1.69E-03	4.68E-04	9.22E-04	5.53E-04	3.63E-04	5.13E-04	2.52E-04
390	565502.2	4222066	0.003049	4.03E-03	1.44E-03	1.62E-03	4.42E-03	1.44E-03	4.00E-04	7.88E-04	4.73E-04	3.10E-04	4.39E-04	2.16E-04
391	565492.3	4222066	0.003042	4.02E-03	1.44E-03	1.61E-03	4.41E-03	1.44E-03	3.99E-04	7.86E-04	4.72E-04	3.09E-04	4.38E-04	2.15E-04
392	565482.4	4222066	0.003033	4.01E-03	1.44E-03	1.61E-03	4.40E-03	1.44E-03	3.98E-04	7.84E-04	4.70E-04	3.08E-04	4.36E-04	2.14E-04
393	565472.5	4222066	0.003022	4.00E-03	1.43E-03	1.60E-03	4.38E-03	1.43E-03	3.97E-04	7.81E-04	4.69E-04	3.07E-04	4.35E-04	2.14E-04
394	565462.6	4222066	0.003011	3.98E-03	1.43E-03	1.60E-03	4.36E-03	1.43E-03	3.95E-04	7.78E-04	4.67E-04	3.06E-04	4.33E-04	2.13E-04
395	565452.7	4222066	0.002998	3.96E-03	1.42E-03	1.59E-03	4.35E-03	1.42E-03	3.94E-04	7.75E-04	4.65E-04	3.05E-04	4.31E-04	2.12E-04
396	565442.8	4222066	0.002985	3.95E-03	1.41E-03	1.58E-03	4.33E-03	1.41E-03	3.92E-04	7.71E-04	4.63E-04	3.03E-04	4.29E-04	2.11E-04
397	565432.9	4222066	0.002973	3.93E-03	1.41E-03	1.58E-03	4.31E-03	1.41E-03	3.90E-04	7.68E-04	4.61E-04	3.02E-04	4.28E-04	2.10E-04
398	565423	4222066	0.002959	3.91E-03	1.40E-03	1.57E-03	4.29E-03	1.40E-03	3.89E-04	7.64E-04	4.59E-04	3.01E-04	4.26E-04	2.09E-04
399	565413.1	4222066	0.002945	3.89E-03	1.40E-03	1.56E-03	4.27E-03	1.40E-03	3.87E-04	7.61E-04	4.57E-04	2.99E-04	4.24E-04	2.08E-04
400	565403.1	4222066	0.002932	3.88E-03	1.39E-03	1.55E-03	4.25E-03	1.39E-03	3.85E-04	7.58E-04	4.55E-04	2.98E-04	4.22E-04	2.07E-04
401	565393.2	4222066	0.002922	3.86E-03	1.38E-03	1.55E-03	4.24E-03	1.38E-03	3.84E-04	7.55E-04	4.53E-04	2.97E-04	4.20E-04	2.07E-04
402	565383.3	4222066	0.002914	3.85E-03	1.38E-03	1.54E-03	4.22E-03	1.38E-03	3.83E-04	7.53E-04	4.52E-04	2.96E-04	4.19E-04	2.06E-04
403	565373.4	4222066	0.002906	3.84E-03	1.38E-03	1.54E-03	4.21E-03	1.38E-03	3.82E-04	7.51E-04	4.51E-04	2.95E-04	4.18E-04	2.06E-04
404	565363.5	4222066	0.002898	3.83E-03	1.37E-03	1.54E-03	4.20E-03	1.37E-03	3.81E-04	7.49E-04	4.49E-04	2.95E-04	4.17E-04	2.05E-04
405	565353.6	4222066	0.002891	3.82E-03	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.80E-04	7.47E-04	4.48E-04	2.94E-04	4.16E-04	2.04E-04
406	565343.7	4222066	0.002886	3.82E-03	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.46E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
407	565333.8	4222066	0.002884	3.81E-03	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.45E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
408	565323.9	4222066	0.002884	3.81E-03	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.45E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
409	565314	4222066	0.002885	3.82E-03	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.45E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
410	565304.1	4222066	0.002887	3.82E-03	1.37E-03	1.53E-03	4.18E-03	1.37E-03	3.79E-04	7.46E-04	4.47E-04	2.93E-04	4.15E-04	2.04E-04
411	565294.2	4222066	0.002889	3.82E-03	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.79E-04	7.46E-04	4.48E-04	2.94E-04	4.16E-04	2.04E-04
412	565284.3	4222066	0.002892	3.82E-03	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.80E-04	7.47E-04	4.48E-04	2.94E-04	4.16E-04	2.05E-04
413	565538	4222071	0.003163	4.18E-03	1.50E-03	1.68E-03	4.58E-03	1.50E-03	4.15E-04	8.17E-04	4.90E-04	3.21E-04	4.55E-04	2.24E-04
414	565546.9	4222074	0.00324	4.28E-03	1.54E-03	1.72E-03	4.70E-03	1.54E-03	4.26E-04	8.37E-04	5.02E-04	3.29E-04	4.66E-04	2.29E-04
415	565555.9	4222078	0.003315	4.38E-03	1.57E-03	1.76E-03	4.81E-03	1.57E-03	4.35E-04	8.57E-04	5.14E-04	3.37E-04	4.77E-04	2.34E-04
416	565564.8	4222082	0.003388	4.48E-03	1.61E-03	1.80E-03	4.91E-03	1.61E-03	4.45E-04	8.75E-04	5.25E-04	3.44E-04	4.87E-04	2.40E-04
417	565502.2	4222056	0.002847	3.76E-03	1.35E-03	1.51E-03	4.13E-03	1.35E-03	3.74E-04	7.35E-04	4.41E-04	2.89E-04	4.09E-04	2.01E-04
418	565492.3	4222056	0.002839	3.75E-03	1.35E-03	1.51E-03	4.12E-03	1.35E-03	3.73E-04	7.33E-04	4.40E-04	2.89E-04	4.08E-04	2.01E-04
419	565482.4	4222056	0.00283	3.74E-03	1.34E-03	1.50E-03	4.10E-03	1.34E-03	3.72E-04	7.31E-04	4.39E-04	2.88E-04	4.07E-04	2.00E-04
420	565472.5	4222056	0.002819	3.73E-03	1.34E-03	1.49E-03	4.09E-03	1.34E-03	3.70E-04	7.28E-04	4.37E-04	2.86E-04	4.06E-04	1.99E-04
421	565462.6	4222056	0.002808	3.71E-03	1.33E-03	1.49E-03	4.07E-03	1.33E-03	3.69E-04	7.25E-04	4.35E-04	2.85E-04	4.04E-04	1.99E-04
422	565452.6	4222056	0.002795	3.70E-03	1.32E-03	1.48E-03	4.05E-03	1.32E-03	3.67E-04	7.22E-04	4.33E-04	2.84E-04	4.02E-04	1.98E-04
423	565442.7	4222056	0.002783	3.68E-03	1.32E-03	1.48E-03	4.03E-03	1.32E-03	3.65E-04	7.19E-04	4.31E-04	2.83E-04	4.00E-04	1.97E-04
424	565432.8	4222056	0.00277	3.66E-03	1.31E-03	1.47E-03	4.02E-03	1.31E-03	3.64E-04	7.16E-04	4.29E-04	2.82E-04	3.98E-04	1.96E-04
425	565422.9	4222056	0.002757	3.65E-03	1.31E-03	1.46E-03	4.00E-03	1.31E-03	3.62E-04	7.12E-04	4.27E-04	2.80E-04	3.97E-04	1.95E-04
426	565413	4222056	0.002745	3.63E-03	1.30E-03	1.46E-03	3.98E-03	1.30E-03	3.60E-04	7.09E-04	4.26E-04	2.79E-04	3.95E-04	1.94E-04
427	565403.1	4222056	0.002734	3.62E-03	1.30E-03	1.45E-03	3.96E-03	1.30E-03	3.59E-04	7.06E-04	4.24E-04	2.78E-04	3.93E-04	1.93E-04
428	565393.2	4222056	0.002724	3.60E-03	1.29E-03	1.44E-03	3.95E-03	1.29E-03	3.58E-04	7.04E-04	4.22E-04	2.77E-04	3.92E-04	1.93E-04
429	565383.3	4222056	0.002716	3.59E-03	1.29E-03	1.44E-03	3.94E-03	1.29E-03	3.57E-04	7.02E-04	4.21E-04	2.76E-04	3.91E-04	1.92E-04
430	565373.4	4222056	0.002709	3.58E-03	1.28E-03	1.44E-03	3.93E-03	1.28E-03	3.56E-04	7.00E-04	4.20E-04	2.75E-04	3.90E-04	1.92E-04
431	565363.5	4222056	0.002702	3.57E-03	1.28E-03	1.43E-03	3.92E-03	1.28E-03	3.55E-04	6.98E-04	4.19E-04	2.75E-04	3.89E-04	1.91E-04
432	565353.6	4222056	0.002697	3.57E-03	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.97E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
433	565343.7	4222056	0.002692	3.56E-03	1.28E-03	1.43E-03	3.90E-03	1.28E-03	3.54E-04	6.96E-04	4.17E-04	2.74E-04	3.87E-04	1.90E-04
434	565333.8	4222056	0.00269	3.56E-03	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
435	565323.9	4222056	0.002689	3.56E-03	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
436	565314	4222056	0.002689	3.56E-03	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
437	565304.1	4222056	0.002691	3.56E-03	1.27E-03	1.43E-03	3.90E-03	1.27E-03	3.53E-04	6.95E-04	4.17E-04	2.73E-04	3.87E-04	1.90E-04
438	565294.2	4222056	0.002694	3.56E-03	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.96E-04	4.18E-04	2.74E-04	3.87E-04	1.91E-04
439	565284.3	4222056	0.002697	3.57E-03	1.28E-03	1.43E-03	3.91E-03	1.28E-03	3.54E-04	6.97E-04	4.18E-04	2.74E-04	3.88E-04	1.91E-04
440	565537.4	4222060	0.00295	3.90E-03	1.40E-03	1.56E-03	4.28E-03	1.40E-03	3.87E-04	7.62E-04	4.57E-04	3.00E-04	4.24E-04	2.09E-04
441	565546.2	4222064	0.003021	3.99E-03	1.43E-03	1.60E-03	4.38E-03	1.43E-03	3.97E-04	7.80E-04	4.68E-04	3.07E-04	4.34E-04	2.14E-04
442	565555.1	4222068	0.00309	4.09E-03	1.46E-03	1.64E-03	4.48E-03	1.46E-03	4.06E-04	7.98E-04	4.79E-04	3.14E-04	4.44E-04	2.19E-04
443	565563.9	4222071	0.003157	4.18E-03	1.50E-03	1.67E-03	4.58E-03	1.50E-03	4.15E-04	8.16E-04	4.89E-04	3.21E-04	4.54E-04	2.23E-04
444	565502.2	4222046	0.002665	3.52E-03	1.26E-03	1.41E-03	3.86E-03	1.26E-03	3.50E-04	6.88E-04	4.13E-04	2.71E-04	3.83E-04	1.88E-04
445	565492.2	4222046	0.002657	3.51E-03	1.26E-03	1.41E-03	3.85E-03	1.26E-03	3.49E-04	6.86E-04	4.12E-04	2.70E-04	3.82E-04	1.88E-04
446	565482.3	4222046	0.002647	3.50E-03	1.25E-03	1.40E-03	3.84E-03	1.25E-03	3.48E-04	6.84E-04	4.10E-04	2.69E-04	3.81E-04	1.87E-04
447	565472.4	4222046	0.002637	3.49E-03	1.25E-03	1.40E-03	3.82E-03	1.25E-03	3.46E-04	6.81E-04	4.09E-04	2.68E-04	3.79E-04	1.86E-04
448	565462.5	4222046	0.002626	3.47E-03	1.24E-03	1.39E-03	3.81E-03	1.24E-03	3.45E-04	6.78E-04	4.07E-04	2.67E-04	3.78E-04	1.86E-04
449	565452.6	4222046	0.002614	3.46E-03	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.66E-04	3.76E-04	1.85E-04
450	565442.7	4222046	0.002601	3.44E-03	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.42E-04	6.72E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
451	565432.8	4222046	0.002589	3.42E-03	1.23E-03	1.37E-03	3.75E-03	1.23E-03	3.40E-04	6.69E-04	4.01E-04	2.63E-04	3.72E-04	1.83E-04
452	565422.9	4222046	0.002578	3.41E-03	1.22E-03	1.37E-03	3.74E-03	1.22E-03	3.39E-04	6.66E-04	4.00E-04	2.62E-04	3.71E-04	1.82E-04

453	565413	4222046	0.002566	3.39E-03	1.22E-03	1.36E-03	3.72E-03	1.22E-03	3.37E-04	6.63E-04	3.98E-04	2.61E-04	3.69E-04	1.82E-04
454	565403.1	4222046	0.002556	3.38E-03	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.60E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
455	565393.2	4222046	0.002547	3.37E-03	1.21E-03	1.35E-03	3.69E-03	1.21E-03	3.35E-04	6.58E-04	3.95E-04	2.59E-04	3.66E-04	1.80E-04
456	565383.3	4222046	0.00254	3.36E-03	1.20E-03	1.35E-03	3.68E-03	1.20E-03	3.34E-04	6.56E-04	3.94E-04	2.58E-04	3.65E-04	1.80E-04
457	565373.4	4222046	0.002533	3.35E-03	1.20E-03	1.34E-03	3.67E-03	1.20E-03	3.33E-04	6.54E-04	3.93E-04	2.57E-04	3.64E-04	1.79E-04
458	565363.5	4222046	0.002527	3.34E-03	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.32E-04	6.53E-04	3.92E-04	2.57E-04	3.64E-04	1.79E-04
459	565353.6	4222046	0.002523	3.34E-03	1.20E-03	1.34E-03	3.66E-03	1.20E-03	3.31E-04	6.52E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
460	565343.7	4222046	0.002519	3.33E-03	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.91E-04	2.56E-04	3.62E-04	1.78E-04
461	565333.8	4222046	0.002517	3.33E-03	1.19E-03	1.33E-03	3.65E-03	1.19E-03	3.31E-04	6.50E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
462	565323.9	4222046	0.002515	3.33E-03	1.19E-03	1.33E-03	3.65E-03	1.19E-03	3.30E-04	6.50E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
463	565314	4222046	0.002515	3.33E-03	1.19E-03	1.33E-03	3.65E-03	1.19E-03	3.30E-04	6.50E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
464	565304.1	4222046	0.002516	3.33E-03	1.19E-03	1.33E-03	3.65E-03	1.19E-03	3.30E-04	6.50E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
465	565294.1	4222046	0.002519	3.33E-03	1.19E-03	1.34E-03	3.65E-03	1.19E-03	3.31E-04	6.51E-04	3.90E-04	2.56E-04	3.62E-04	1.78E-04
466	565284.2	4222046	0.002522	3.34E-03	1.19E-03	1.34E-03	3.66E-03	1.19E-03	3.31E-04	6.51E-04	3.91E-04	2.56E-04	3.63E-04	1.78E-04
467	565536.9	4222050	0.002759	3.65E-03	1.31E-03	1.46E-03	4.00E-03	1.31E-03	3.62E-04	7.13E-04	4.28E-04	2.80E-04	3.97E-04	1.95E-04
468	565545.6	4222054	0.002824	3.73E-03	1.34E-03	1.50E-03	4.09E-03	1.34E-03	3.71E-04	7.29E-04	4.38E-04	2.87E-04	4.06E-04	2.00E-04
469	565554.4	4222058	0.002887	3.82E-03	1.37E-03	1.53E-03	4.19E-03	1.37E-03	3.79E-04	7.46E-04	4.48E-04	2.93E-04	4.15E-04	2.04E-04
470	565563.1	4222061	0.002949	3.90E-03	1.40E-03	1.56E-03	4.28E-03	1.40E-03	3.87E-04	7.62E-04	4.57E-04	3.00E-04	4.24E-04	2.09E-04
471	565502.1	4222036	0.002501	3.31E-03	1.18E-03	1.33E-03	3.63E-03	1.18E-03	3.28E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
472	565492.2	4222036	0.002492	3.30E-03	1.18E-03	1.32E-03	3.61E-03	1.18E-03	3.27E-04	6.44E-04	3.86E-04	2.53E-04	3.59E-04	1.76E-04
473	565482.3	4222036	0.002483	3.28E-03	1.18E-03	1.32E-03	3.60E-03	1.18E-03	3.26E-04	6.42E-04	3.85E-04	2.52E-04	3.57E-04	1.76E-04
474	565472.4	4222036	0.002473	3.27E-03	1.17E-03	1.31E-03	3.59E-03	1.17E-03	3.25E-04	6.39E-04	3.83E-04	2.51E-04	3.56E-04	1.75E-04
475	565462.5	4222036	0.002463	3.26E-03	1.17E-03	1.31E-03	3.57E-03	1.17E-03	3.23E-04	6.36E-04	3.82E-04	2.50E-04	3.54E-04	1.74E-04
476	565452.6	4222036	0.002451	3.24E-03	1.16E-03	1.30E-03	3.55E-03	1.16E-03	3.22E-04	6.33E-04	3.80E-04	2.49E-04	3.53E-04	1.73E-04
477	565442.7	4222036	0.002439	3.23E-03	1.16E-03	1.29E-03	3.54E-03	1.16E-03	3.20E-04	6.30E-04	3.78E-04	2.48E-04	3.51E-04	1.72E-04
478	565432.8	4222036	0.002427	3.21E-03	1.15E-03	1.29E-03	3.52E-03	1.15E-03	3.19E-04	6.27E-04	3.76E-04	2.47E-04	3.49E-04	1.72E-04
479	565422.9	4222036	0.002416	3.20E-03	1.14E-03	1.28E-03	3.50E-03	1.14E-03	3.17E-04	6.24E-04	3.75E-04	2.46E-04	3.48E-04	1.71E-04
480	565413	4222036	0.002406	3.18E-03	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.22E-04	3.73E-04	2.45E-04	3.46E-04	1.70E-04
481	565403.1	4222036	0.002397	3.17E-03	1.14E-03	1.27E-03	3.48E-03	1.14E-03	3.15E-04	6.19E-04	3.72E-04	2.44E-04	3.45E-04	1.70E-04
482	565393.2	4222036	0.002389	3.16E-03	1.13E-03	1.27E-03	3.46E-03	1.13E-03	3.14E-04	6.17E-04	3.70E-04	2.43E-04	3.44E-04	1.69E-04
483	565383.3	4222036	0.002382	3.15E-03	1.13E-03	1.26E-03	3.45E-03	1.13E-03	3.13E-04	6.15E-04	3.69E-04	2.42E-04	3.43E-04	1.68E-04
484	565373.4	4222036	0.002375	3.14E-03	1.13E-03	1.26E-03	3.44E-03	1.13E-03	3.12E-04	6.14E-04	3.68E-04	2.41E-04	3.42E-04	1.68E-04
485	565363.5	4222036	0.00237	3.13E-03	1.12E-03	1.26E-03	3.44E-03	1.12E-03	3.11E-04	6.12E-04	3.67E-04	2.41E-04	3.41E-04	1.68E-04
486	565353.6	4222036	0.002366	3.13E-03	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.11E-04	6.11E-04	3.67E-04	2.40E-04	3.40E-04	1.67E-04
487	565343.7	4222036	0.002363	3.13E-03	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.10E-04	6.11E-04	3.66E-04	2.40E-04	3.40E-04	1.67E-04
488	565333.7	4222036	0.00236	3.12E-03	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.10E-04	3.66E-04	2.40E-04	3.40E-04	1.67E-04
489	565323.8	4222037	0.002359	3.12E-03	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.09E-04	3.66E-04	2.40E-04	3.39E-04	1.67E-04
490	565313.9	4222037	0.002358	3.12E-03	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.09E-04	3.65E-04	2.40E-04	3.39E-04	1.67E-04
491	565304	4222037	0.002359	3.12E-03	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.09E-04	3.66E-04	2.40E-04	3.39E-04	1.67E-04
492	565294.1	4222037	0.002361	3.12E-03	1.12E-03	1.25E-03	3.42E-03	1.12E-03	3.10E-04	6.10E-04	3.66E-04	2.40E-04	3.40E-04	1.67E-04
493	565284.2	4222037	0.002364	3.13E-03	1.12E-03	1.25E-03	3.43E-03	1.12E-03	3.11E-04	6.11E-04	3.67E-04	2.40E-04	3.40E-04	1.67E-04
494	565538.7	4222041	0.002602	3.44E-03	1.23E-03	1.38E-03	3.77E-03	1.23E-03	3.42E-04	6.72E-04	4.03E-04	2.64E-04	3.74E-04	1.84E-04
495	565547.8	4222045	0.002664	3.52E-03	1.26E-03	1.41E-03	3.86E-03	1.26E-03	3.50E-04	6.88E-04	4.13E-04	2.71E-04	3.83E-04	1.88E-04
496	565566.1	4222053	0.002786	3.69E-03	1.32E-03	1.48E-03	4.04E-03	1.32E-03	3.66E-04	7.20E-04	4.32E-04	2.83E-04	4.01E-04	1.97E-04
497	565502.1	4222026	0.002352	3.11E-03	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.38E-04	1.66E-04
498	565492.2	4222026	0.002344	3.10E-03	1.11E-03	1.24E-03	3.40E-03	1.11E-03	3.08E-04	6.05E-04	3.63E-04	2.38E-04	3.37E-04	1.66E-04
499	565482.3	4222026	0.002335	3.09E-03	1.11E-03	1.24E-03	3.38E-03	1.11E-03	3.07E-04	6.03E-04	3.62E-04	2.37E-04	3.36E-04	1.65E-04
500	565472.4	4222026	0.002325	3.07E-03	1.10E-03	1.23E-03	3.37E-03	1.10E-03	3.05E-04	6.01E-04	3.60E-04	2.36E-04	3.34E-04	1.64E-04
501	565462.5	4222026	0.002314	3.06E-03	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.98E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
502	565452.6	4222026	0.002303	3.05E-03	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.02E-04	5.95E-04	3.57E-04	2.34E-04	3.31E-04	1.63E-04
503	565442.7	4222026	0.002292	3.03E-03	1.09E-03	1.22E-03	3.32E-03	1.09E-03	3.01E-04	5.92E-04	3.55E-04	2.33E-04	3.30E-04	1.62E-04
504	565432.8	4222026	0.002281	3.02E-03	1.08E-03	1.21E-03	3.31E-03	1.08E-03	3.00E-04	5.89E-04	3.54E-04	2.32E-04	3.28E-04	1.61E-04
505	565422.9	4222026	0.002272	3.00E-03	1.08E-03	1.20E-03	3.29E-03	1.08E-03	2.98E-04	5.87E-04	3.52E-04	2.31E-04	3.27E-04	1.61E-04
506	565413	4222026	0.002262	2.99E-03	1.07E-03	1.20E-03	3.28E-03	1.07E-03	2.97E-04	5.84E-04	3.51E-04	2.30E-04	3.25E-04	1.60E-04
507	565403.1	4222027	0.002254	2.98E-03	1.07E-03	1.19E-03	3.27E-03	1.07E-03	2.96E-04	5.82E-04	3.49E-04	2.29E-04	3.24E-04	1.59E-04
508	565393.2	4222027	0.002246	2.97E-03	1.06E-03	1.19E-03	3.26E-03	1.06E-03	2.95E-04	5.80E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
509	565383.2	4222027	0.002239	2.96E-03	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.94E-04	5.78E-04	3.47E-04	2.28E-04	3.22E-04	1.58E-04
510	565373.3	4222027	0.002233	2.95E-03	1.06E-03	1.18E-03	3.24E-03	1.06E-03	2.93E-04	5.77E-04	3.46E-04	2.27E-04	3.21E-04	1.58E-04
511	565363.4	4222027	0.002228	2.95E-03	1.06E-03	1.18E-03	3.23E-03	1.06E-03	2.93E-04	5.76E-04	3.45E-04	2.26E-04	3.20E-04	1.58E-04
512	565353.5	4222027	0.002224	2.94E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
513	565343.6	4222027	0.002221	2.94E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.44E-04	2.26E-04	3.19E-04	1.57E-04
514	565333.7	4222027	0.002218	2.93E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
515	565323.8	4222027	0.002217	2.93E-03	1.05E-03	1.18E-03	3.21E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
516	565313.9	4222027	0.002216	2.93E-03	1.05E-03	1.17E-03	3.21E-03	1.05E-03	2.91E-04	5.72E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
517	565304	4222027	0.002217	2.93E-03	1.05E-03	1.18E-03	3.21E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
518	565294.1	4222027	0.00222	2.94E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.26E-04	3.19E-04	1.57E-04
519	565284.2	4222027	0.002222	2.94E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.92E-04	5.74E-04	3.44E-04	2.26E-04	3.20E-04	1.57E-04
520	565538.1	4222031	0.002444	3.23E-03	1.16E-03	1.30E-03	3.54E-03	1.16E-03	3.21E-04	6.31E-04	3.79E-04	2.48E-04	3.52E-04	1.73E-04
521	565547.1	4222035	0.002501	3.31E-03	1.18E-03	1.33E-03	3.63E-03	1.18E-03	3.28E-04	6.46E-04	3.88E-04	2.54E-04	3.60E-04	1.77E-04
522	565556.2	4222039	0.002558	3.38E-03	1.21E-03	1.36E-03	3.71E-03	1.21E-03	3.36E-04	6.61E-04	3.96E-04	2.60E-04	3.68E-04	1.81E-04
523	565565.2	4222042	0.002613	3.46E-03	1.24E-03	1.39E-03	3.79E-03	1.24E-03	3.43E-04	6.75E-04	4.05E-04	2.66E-04	3.76E-04	1.85E-04
524	565502.1	4222016	0.002217	2.93E-03	1.05E-03	1.18E-03	3.21E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
525	565492.2	4222016	0.002209	2.92E-03	1.05E-03	1.17E-03	3.20E-03	1.05E-03	2.90E-04	5.71E-04	3.42E-04	2.24E-04	3.18E-04	1.56E-04
526	565482.3	4222016	0.0022	2.91E-03	1.04E-03	1.17E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.24E-04	3.16E-04	1.56E-04
527	565472.4	4222017	0.00219	2.90E-03	1.04E-03	1.16E-03	3.17E-03	1.04E-03	2.88E-04	5.66E-04	3.39E-04	2.23E-04	3.15E-04	1.55E-04
528	565462.5	4222017	0.00218	2.88E-03	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.22E-04	3.14E-04	1.54E-04
529	565452.6	4222017	0.00217	2.87E-03	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.85E-04	5.61E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
530	565442.7	4222017	0.00216	2.86E-03	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.84E-04	5.58E-04	3.35E-04	2.19E-04	3.11E-04	1.53E-04
531	565432.8	4222017	0.00215	2.84E-03	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.82E-04	5.55E-04	3.33E-04	2.18E-04	3.09E-04	1.52E-04
532	565422.8	4222017	0.002141	2.83E-03	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.18E-04	3.08E-04	1.51E-04
533	565412.9	4222017	0.002132	2.82E-03	1.01E-03	1.13E-03	3.09E-03	1.01E-03	2.80E-04	5.51E-04	3.30E-04	2.17E-04	3.07E-04	1.51E-04
534	565403	4222017	0.002124	2.81E-03	1.01E-03	1.13E-03	3.08E-03	1.01E-03	2.79E-04	5.49E-04	3.29E-04	2.16E-04	3.06E-04	1.50E-04
535	565393.1	4222017	0.002117	2.80E-03	1.00E-03	1.12E-03	3.07E-03	1.00E-03	2.78E-04	5.47E-04	3.28E-04	2.15E-04	3.04E-04	1.50E-04
536	565383.2	4222017	0.00211	2.79E-03	1.00E-03	1.12E-03	3.06E-03	1.00E-03	2.77E-04	5.45E-04	3.27E-04	2.14E-04	3.04E-04	1.49E-04
537	565373.3	4222017	0.002104	2.78E-03	9.97E-04	1.12E-03	3.05E-03	9.97E-04	2.76E-04	5.44E-04	3.26E-04	2.14E-04	3.03E-04	1.49E-04
538	565363.4	4222017	0.002099	2.78E-03	9.94E-04	1.11E-03	3.04E-03	9.94E-04	2.76E-04	5.42E-04	3.25E-04	2.13E-04	3.02E-04	1.48E-04
539	565353.5	4222017	0.002095	2.77E-03	9.92E-04	1.11E-03	3.04E-03	9.92E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
540	565343.6	4222017	0.002091	2.77E-03	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
541	565333.7	4222017	0.002089	2.76E-03	9.90E-04	1.11E-03	3.03E-03	9.90E-04	2.74E-04	5.40E-04	3.24E-04	2.12E-04	3.00E-04	1.48E-04
542	565323.8	4222017	0.002088	2.76E-03	9.89E-04	1.11E-03	3.03E-03	9.89E-04	2.74E-04	5.39E-04	3.24E-04	2.12E-04	3.00E-04	1.48E-04
543	565313.9	4222017	0.002088	2.76E-03	9.89E-04	1.11E-03	3.03E-03	9.89E-04	2.74E-04	5.39E-04	3.24E-04	2.12E-04	3.00E-04	1.48E-04

544	565304	4222017	0.002089	2.76E-03	9.90E-04	1.11E-03	3.03E-03	9.90E-04	2.74E-04	5.40E-04	3.24E-04	2.12E-04	3.00E-04	1.48E-04
545	565294.1	4222017	0.002091	2.77E-03	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.12E-04	3.01E-04	1.48E-04
546	565284.2	4222017	0.002093	2.77E-03	9.92E-04	1.11E-03	3.03E-03	9.92E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
547	565537.7	4222021	0.002301	3.04E-03	1.09E-03	1.22E-03	3.34E-03	1.09E-03	3.02E-04	5.94E-04	3.57E-04	2.34E-04	3.31E-04	1.63E-04
548	565546.5	4222025	0.002353	3.11E-03	1.11E-03	1.25E-03	3.41E-03	1.11E-03	3.09E-04	6.08E-04	3.65E-04	2.39E-04	3.39E-04	1.66E-04
549	565555.4	4222029	0.002405	3.18E-03	1.14E-03	1.28E-03	3.49E-03	1.14E-03	3.16E-04	6.21E-04	3.73E-04	2.44E-04	3.46E-04	1.70E-04
550	565564.3	4222032	0.002457	3.25E-03	1.16E-03	1.30E-03	3.56E-03	1.16E-03	3.23E-04	6.35E-04	3.81E-04	2.50E-04	3.53E-04	1.74E-04
551	565502.1	4222007	0.002094	2.77E-03	9.92E-04	1.11E-03	3.04E-03	9.92E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
552	565492.2	4222007	0.002086	2.76E-03	9.88E-04	1.11E-03	3.02E-03	9.88E-04	2.74E-04	5.39E-04	3.23E-04	2.12E-04	3.00E-04	1.48E-04
553	565482.3	4222007	0.002077	2.75E-03	9.84E-04	1.10E-03	3.01E-03	9.84E-04	2.73E-04	5.37E-04	3.22E-04	2.11E-04	2.99E-04	1.47E-04
554	565472.4	4222007	0.002067	2.73E-03	9.79E-04	1.10E-03	3.00E-03	9.79E-04	2.71E-04	5.34E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
555	565462.4	4222007	0.002057	2.72E-03	9.75E-04	1.09E-03	2.98E-03	9.75E-04	2.70E-04	5.32E-04	3.19E-04	2.09E-04	2.96E-04	1.45E-04
556	565452.5	4222007	0.002048	2.71E-03	9.70E-04	1.09E-03	2.97E-03	9.70E-04	2.69E-04	5.29E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
557	565442.6	4222007	0.002039	2.70E-03	9.66E-04	1.08E-03	2.96E-03	9.66E-04	2.68E-04	5.27E-04	3.16E-04	2.07E-04	2.93E-04	1.44E-04
558	565432.7	4222007	0.00203	2.68E-03	9.62E-04	1.08E-03	2.94E-03	9.62E-04	2.67E-04	5.24E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
559	565422.8	4222007	0.002021	2.67E-03	9.58E-04	1.07E-03	2.93E-03	9.58E-04	2.65E-04	5.22E-04	3.13E-04	2.05E-04	2.91E-04	1.43E-04
560	565412.9	4222007	0.002013	2.66E-03	9.54E-04	1.07E-03	2.92E-03	9.54E-04	2.64E-04	5.20E-04	3.12E-04	2.05E-04	2.90E-04	1.42E-04
561	565403	4222007	0.002006	2.65E-03	9.50E-04	1.06E-03	2.91E-03	9.50E-04	2.63E-04	5.18E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
562	565393.1	4222007	0.001999	2.64E-03	9.47E-04	1.06E-03	2.90E-03	9.47E-04	2.63E-04	5.16E-04	3.10E-04	2.03E-04	2.88E-04	1.41E-04
563	565383.2	4222007	0.001993	2.64E-03	9.44E-04	1.06E-03	2.89E-03	9.44E-04	2.62E-04	5.15E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
564	565373.3	4222007	0.001987	2.63E-03	9.42E-04	1.05E-03	2.88E-03	9.42E-04	2.61E-04	5.13E-04	3.08E-04	2.02E-04	2.86E-04	1.41E-04
565	565363.4	4222007	0.001982	2.62E-03	9.39E-04	1.05E-03	2.87E-03	9.39E-04	2.60E-04	5.12E-04	3.07E-04	2.01E-04	2.85E-04	1.40E-04
566	565353.5	4222007	0.001977	2.62E-03	9.37E-04	1.05E-03	2.87E-03	9.37E-04	2.60E-04	5.11E-04	3.07E-04	2.01E-04	2.84E-04	1.40E-04
567	565343.6	4222007	0.001974	2.61E-03	9.35E-04	1.05E-03	2.86E-03	9.35E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
568	565333.7	4222007	0.001972	2.61E-03	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
569	565323.8	4222007	0.001971	2.61E-03	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
570	565313.9	4222007	0.001971	2.61E-03	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
571	565304	4222007	0.001972	2.61E-03	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.10E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
572	565294.1	4222007	0.001974	2.61E-03	9.35E-04	1.05E-03	2.86E-03	9.35E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
573	565284.2	4222007	0.001976	2.61E-03	9.36E-04	1.05E-03	2.87E-03	9.36E-04	2.60E-04	5.11E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
574	565537.2	4222011	0.002171	2.87E-03	1.03E-03	1.15E-03	3.15E-03	1.03E-03	2.85E-04	5.61E-04	3.37E-04	2.21E-04	3.12E-04	1.54E-04
575	565546	4222015	0.002219	2.93E-03	1.05E-03	1.18E-03	3.22E-03	1.05E-03	2.91E-04	5.73E-04	3.44E-04	2.25E-04	3.19E-04	1.57E-04
576	565554.8	4222018	0.002267	3.00E-03	1.07E-03	1.20E-03	3.29E-03	1.07E-03	2.98E-04	5.86E-04	3.51E-04	2.30E-04	3.26E-04	1.60E-04
577	565563.6	4222022	0.002314	3.06E-03	1.10E-03	1.23E-03	3.35E-03	1.10E-03	3.04E-04	5.98E-04	3.59E-04	2.35E-04	3.33E-04	1.64E-04
578	565502	4221997	0.001981	2.62E-03	9.39E-04	1.05E-03	2.87E-03	9.39E-04	2.60E-04	5.12E-04	3.07E-04	2.01E-04	2.85E-04	1.40E-04
579	565492.1	4221997	0.001974	2.61E-03	9.35E-04	1.05E-03	2.86E-03	9.35E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
580	565482.2	4221997	0.001965	2.60E-03	9.31E-04	1.04E-03	2.85E-03	9.31E-04	2.58E-04	5.08E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
581	565472.3	4221997	0.001956	2.59E-03	9.27E-04	1.04E-03	2.84E-03	9.27E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
582	565462.4	4221997	0.001947	2.57E-03	9.22E-04	1.03E-03	2.82E-03	9.22E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
583	565452.5	4221997	0.001938	2.56E-03	9.18E-04	1.03E-03	2.81E-03	9.18E-04	2.54E-04	5.01E-04	3.00E-04	1.97E-04	2.79E-04	1.37E-04
584	565442.6	4221997	0.001929	2.55E-03	9.14E-04	1.02E-03	2.80E-03	9.14E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.78E-04	1.36E-04
585	565432.7	4221997	0.001921	2.54E-03	9.10E-04	1.02E-03	2.78E-03	9.10E-04	2.52E-04	4.96E-04	2.98E-04	1.95E-04	2.76E-04	1.36E-04
586	565422.8	4221997	0.001913	2.53E-03	9.06E-04	1.01E-03	2.77E-03	9.06E-04	2.51E-04	4.94E-04	2.97E-04	1.94E-04	2.75E-04	1.35E-04
587	565412.9	4221997	0.001905	2.52E-03	9.03E-04	1.01E-03	2.76E-03	9.03E-04	2.50E-04	4.92E-04	2.95E-04	1.94E-04	2.74E-04	1.35E-04
588	565403	4221997	0.001898	2.51E-03	8.99E-04	1.01E-03	2.75E-03	8.99E-04	2.49E-04	4.90E-04	2.94E-04	1.93E-04	2.73E-04	1.34E-04
589	565393.1	4221997	0.001891	2.50E-03	8.96E-04	1.00E-03	2.74E-03	8.96E-04	2.48E-04	4.89E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
590	565383.2	4221997	0.001885	2.49E-03	8.93E-04	1.00E-03	2.73E-03	8.93E-04	2.48E-04	4.87E-04	2.92E-04	1.92E-04	2.71E-04	1.33E-04
591	565373.3	4221997	0.00188	2.49E-03	8.91E-04	9.97E-04	2.73E-03	8.91E-04	2.47E-04	4.86E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
592	565363.4	4221997	0.001875	2.48E-03	8.88E-04	9.94E-04	2.72E-03	8.88E-04	2.46E-04	4.84E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
593	565353.5	4221997	0.001871	2.47E-03	8.86E-04	9.92E-04	2.71E-03	8.86E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
594	565343.6	4221997	0.001868	2.47E-03	8.85E-04	9.90E-04	2.71E-03	8.85E-04	2.45E-04	4.82E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
595	565333.7	4221997	0.001866	2.47E-03	8.84E-04	9.89E-04	2.71E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
596	565323.8	4221997	0.001865	2.47E-03	8.84E-04	9.89E-04	2.70E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
597	565313.8	4221997	0.001865	2.47E-03	8.84E-04	9.89E-04	2.70E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
598	565303.9	4221997	0.001866	2.47E-03	8.84E-04	9.89E-04	2.71E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
599	565294	4221997	0.001868	2.47E-03	8.85E-04	9.90E-04	2.71E-03	8.85E-04	2.45E-04	4.82E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
600	565284.1	4221997	0.00187	2.47E-03	8.86E-04	9.91E-04	2.71E-03	8.86E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
601	565536.8	4222001	0.002052	2.71E-03	9.72E-04	1.09E-03	2.97E-03	9.72E-04	2.69E-04	5.30E-04	3.18E-04	2.09E-04	2.95E-04	1.45E-04
602	565545.5	4222005	0.002096	2.77E-03	9.93E-04	1.11E-03	3.04E-03	9.93E-04	2.75E-04	5.41E-04	3.25E-04	2.13E-04	3.01E-04	1.48E-04
603	565554.2	4222008	0.00214	2.83E-03	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
604	565562.9	4222012	0.002184	2.89E-03	1.03E-03	1.16E-03	3.17E-03	1.03E-03	2.87E-04	5.64E-04	3.39E-04	2.22E-04	3.14E-04	1.54E-04
605	565502	4221987	0.001878	2.48E-03	8.90E-04	9.96E-04	2.72E-03	8.90E-04	2.47E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
606	565492.1	4221987	0.001871	2.47E-03	8.86E-04	9.92E-04	2.71E-03	8.86E-04	2.46E-04	4.83E-04	2.90E-04	1.90E-04	2.69E-04	1.32E-04
607	565482.2	4221987	0.001863	2.46E-03	8.82E-04	9.88E-04	2.70E-03	8.82E-04	2.45E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
608	565472.3	4221987	0.001854	2.45E-03	8.78E-04	9.83E-04	2.69E-03	8.78E-04	2.43E-04	4.79E-04	2.87E-04	1.88E-04	2.67E-04	1.31E-04
609	565462.4	4221987	0.001845	2.44E-03	8.74E-04	9.78E-04	2.68E-03	8.74E-04	2.42E-04	4.77E-04	2.86E-04	1.88E-04	2.65E-04	1.30E-04
610	565452.5	4221987	0.001837	2.43E-03	8.70E-04	9.74E-04	2.66E-03	8.70E-04	2.41E-04	4.75E-04	2.85E-04	1.87E-04	2.64E-04	1.30E-04
611	565442.6	4221987	0.001829	2.42E-03	8.66E-04	9.70E-04	2.65E-03	8.66E-04	2.40E-04	4.72E-04	2.84E-04	1.86E-04	2.63E-04	1.29E-04
612	565432.7	4221987	0.001821	2.41E-03	8.63E-04	9.66E-04	2.64E-03	8.63E-04	2.39E-04	4.70E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
613	565422.8	4221987	0.001814	2.40E-03	8.59E-04	9.62E-04	2.63E-03	8.59E-04	2.38E-04	4.69E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
614	565412.9	4221987	0.001806	2.39E-03	8.56E-04	9.58E-04	2.62E-03	8.56E-04	2.37E-04	4.67E-04	2.80E-04	1.84E-04	2.60E-04	1.28E-04
615	565403	4221987	0.0018	2.38E-03	8.53E-04	9.54E-04	2.61E-03	8.53E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
616	565393.1	4221987	0.001793	2.37E-03	8.49E-04	9.51E-04	2.60E-03	8.49E-04	2.35E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
617	565383.2	4221987	0.001787	2.36E-03	8.47E-04	9.47E-04	2.59E-03	8.47E-04	2.35E-04	4.62E-04	2.77E-04	1.82E-04	2.57E-04	1.26E-04
618	565373.3	4221987	0.001782	2.36E-03	8.44E-04	9.45E-04	2.58E-03	8.44E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
619	565363.4	4221987	0.001777	2.35E-03	8.42E-04	9.42E-04	2.58E-03	8.42E-04	2.33E-04	4.59E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
620	565353.4	4221987	0.001774	2.35E-03	8.40E-04	9.40E-04	2.57E-03	8.40E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
621	565343.5	4221987	0.001771	2.34E-03	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.33E-04	4.57E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
622	565333.6	4221987	0.001769	2.34E-03	8.38E-04	9.38E-04	2.56E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
623	565323.7	4221987	0.001768	2.34E-03	8.38E-04	9.38E-04	2.56E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
624	565313.8	4221987	0.001768	2.34E-03	8.38E-04	9.38E-04	2.56E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
625	565303.9	4221987	0.001769	2.34E-03	8.38E-04	9.38E-04	2.56E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
626	565294	4221987	0.00177	2.34E-03	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.55E-04	1.25E-04
627	565284.1	4221987	0.001772	2.34E-03	8.39E-04	9.39E-04	2.57E-03	8.39E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
628	565538.2	4221992	0.001951	2.58E-03	9.24E-04	1.03E-03	2.83E-03	9.24E-04	2.56E-04	5.04E-04	3.02E-04	1.98E-04	2.81E-04	1.38E-04
629	565547.3	4221996	0.001994	2.64E-03	9.45E-04	1.06E-03	2.89E-03	9.45E-04	2.62E-04	5.15E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
630	565556.3	4221999	0.002037	2.69E-03	9.65E-04	1.08E-03	2.95E-03	9.65E-04	2.67E-04	5.26E-04	3.16E-04	2.07E-04	2.93E-04	1.44E-04
631	565565.4	4222003	0.002079	2.75E-03	9.85E-04	1.10E-03	3.01E-03	9.85E-04	2.73E-04	5.37E-04	3.22E-04	2.11E-04	2.99E-04	1.47E-04
632	565601.6	4222018	0.002243	2.97E-03	1.06E-03	1.19E-03	3.25E-03	1.06E-03	2.95E-04	5.79E-04	3.48E-04	2.28E-04	3.23E-04	1.59E-04
633	565502	4221977	0.001784	2.36E-03	8.45E-04	9.46E-04	2.59E-03	8.45E-04	2.34E-04	4.61E-04	2.76E-04	1.81E-04	2.57E-04	1.26E-04
634	565492.1	4221977	0.001777	2.35E-03	8.42E-04	9.42E-04	2.58E-03	8.42E-04	2.33E-04	4.59E-04	2.75E-04	1.81E-04	2.56E-04	1.26E-04

635	565482.2	4221977	0.001769	2.34E-03	8.38E-04	9.38E-04	2.56E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
636	565472.3	4221977	0.00176	2.33E-03	8.34E-04	9.33E-04	2.55E-03	8.34E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.53E-04	1.24E-04
637	565462.4	4221977	0.001752	2.32E-03	8.30E-04	9.29E-04	2.54E-03	8.30E-04	2.30E-04	4.53E-04	2.72E-04	1.78E-04	2.52E-04	1.24E-04
638	565452.5	4221977	0.001744	2.31E-03	8.26E-04	9.25E-04	2.53E-03	8.26E-04	2.29E-04	4.51E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
639	565442.6	4221977	0.001737	2.30E-03	8.23E-04	9.21E-04	2.52E-03	8.23E-04	2.28E-04	4.49E-04	2.69E-04	1.77E-04	2.50E-04	1.23E-04
640	565432.7	4221977	0.001729	2.29E-03	8.19E-04	9.17E-04	2.51E-03	8.19E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
641	565422.8	4221977	0.001722	2.28E-03	8.16E-04	9.13E-04	2.50E-03	8.16E-04	2.26E-04	4.45E-04	2.67E-04	1.75E-04	2.48E-04	1.22E-04
642	565412.9	4221977	0.001716	2.27E-03	8.13E-04	9.10E-04	2.49E-03	8.13E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
643	565403	4221977	0.001709	2.26E-03	8.10E-04	9.06E-04	2.48E-03	8.10E-04	2.24E-04	4.42E-04	2.65E-04	1.74E-04	2.46E-04	1.21E-04
644	565393	4221977	0.001703	2.25E-03	8.07E-04	9.03E-04	2.47E-03	8.07E-04	2.24E-04	4.40E-04	2.64E-04	1.73E-04	2.45E-04	1.20E-04
645	565383.1	4221977	0.001697	2.24E-03	8.04E-04	9.00E-04	2.46E-03	8.04E-04	2.23E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
646	565373.2	4221977	0.001691	2.24E-03	8.01E-04	8.97E-04	2.45E-03	8.01E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
647	565363.3	4221977	0.001688	2.23E-03	7.99E-04	8.95E-04	2.45E-03	7.99E-04	2.22E-04	4.36E-04	2.62E-04	1.71E-04	2.43E-04	1.19E-04
648	565353.4	4221977	0.001684	2.23E-03	7.98E-04	8.93E-04	2.44E-03	7.98E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
649	565343.5	4221977	0.001682	2.22E-03	7.97E-04	8.92E-04	2.44E-03	7.97E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
650	565333.6	4221977	0.00168	2.22E-03	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
651	565323.7	4221977	0.00168	2.22E-03	7.96E-04	8.90E-04	2.43E-03	7.96E-04	2.21E-04	4.34E-04	2.60E-04	1.71E-04	2.42E-04	1.19E-04
652	565313.8	4221978	0.001679	2.22E-03	7.96E-04	8.90E-04	2.43E-03	7.96E-04	2.21E-04	4.34E-04	2.60E-04	1.71E-04	2.42E-04	1.19E-04
653	565303.9	4221978	0.00168	2.22E-03	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.60E-04	1.71E-04	2.42E-04	1.19E-04
654	565294	4221978	0.001681	2.22E-03	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
655	565284.1	4221978	0.001682	2.22E-03	7.97E-04	8.92E-04	2.44E-03	7.97E-04	2.21E-04	4.35E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
656	565537.8	4221982	0.00185	2.45E-03	8.77E-04	9.81E-04	2.68E-03	8.77E-04	2.43E-04	4.78E-04	2.87E-04	1.88E-04	2.66E-04	1.31E-04
657	565546.7	4221986	0.00189	2.50E-03	8.95E-04	1.00E-03	2.74E-03	8.95E-04	2.48E-04	4.88E-04	2.93E-04	1.92E-04	2.72E-04	1.34E-04
658	565555.7	4221989	0.001929	2.55E-03	9.14E-04	1.02E-03	2.80E-03	9.14E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
659	565564.6	4221993	0.001968	2.60E-03	9.33E-04	1.04E-03	2.85E-03	9.33E-04	2.59E-04	5.09E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
660	565591.5	4222004	0.002084	2.76E-03	9.87E-04	1.10E-03	3.02E-03	9.87E-04	2.74E-04	5.38E-04	3.23E-04	2.12E-04	3.00E-04	1.47E-04
661	565600.5	4222008	0.002121	2.81E-03	1.00E-03	1.12E-03	3.08E-03	1.00E-03	2.79E-04	5.48E-04	3.29E-04	2.16E-04	3.05E-04	1.50E-04
662	565609.4	4222011	0.002158	2.85E-03	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.53E-04
663	565618.4	4222015	0.002193	2.90E-03	1.04E-03	1.16E-03	3.18E-03	1.04E-03	2.88E-04	5.67E-04	3.40E-04	2.23E-04	3.15E-04	1.55E-04
664	565627.3	4222019	0.002226	2.94E-03	1.05E-03	1.18E-03	3.23E-03	1.05E-03	2.92E-04	5.75E-04	3.45E-04	2.26E-04	3.20E-04	1.57E-04
665	565502	4221967	0.001696	2.24E-03	8.03E-04	8.99E-04	2.46E-03	8.03E-04	2.23E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
666	565492.1	4221967	0.001689	2.23E-03	8.00E-04	8.96E-04	2.45E-03	8.00E-04	2.22E-04	4.36E-04	2.62E-04	1.72E-04	2.43E-04	1.19E-04
667	565482.2	4221967	0.001682	2.22E-03	7.97E-04	8.92E-04	2.44E-03	7.97E-04	2.21E-04	4.34E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
668	565472.3	4221967	0.001674	2.21E-03	7.93E-04	8.88E-04	2.43E-03	7.93E-04	2.20E-04	4.32E-04	2.60E-04	1.70E-04	2.41E-04	1.18E-04
669	565462.4	4221967	0.001666	2.20E-03	7.89E-04	8.83E-04	2.42E-03	7.89E-04	2.19E-04	4.30E-04	2.58E-04	1.69E-04	2.40E-04	1.18E-04
670	565452.5	4221967	0.001659	2.19E-03	7.86E-04	8.80E-04	2.41E-03	7.86E-04	2.18E-04	4.29E-04	2.57E-04	1.69E-04	2.39E-04	1.17E-04
671	565442.5	4221967	0.001652	2.18E-03	7.83E-04	8.76E-04	2.39E-03	7.83E-04	2.17E-04	4.27E-04	2.56E-04	1.68E-04	2.38E-04	1.17E-04
672	565432.6	4221967	0.001645	2.18E-03	7.79E-04	8.72E-04	2.38E-03	7.79E-04	2.16E-04	4.25E-04	2.55E-04	1.67E-04	2.37E-04	1.16E-04
673	565422.7	4221967	0.001638	2.17E-03	7.76E-04	8.68E-04	2.37E-03	7.76E-04	2.15E-04	4.23E-04	2.54E-04	1.66E-04	2.36E-04	1.16E-04
674	565412.8	4221967	0.001631	2.16E-03	7.73E-04	8.65E-04	2.37E-03	7.73E-04	2.14E-04	4.21E-04	2.53E-04	1.66E-04	2.35E-04	1.15E-04
675	565402.9	4221967	0.001625	2.15E-03	7.70E-04	8.62E-04	2.36E-03	7.70E-04	2.13E-04	4.20E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
676	565393	4221967	0.001619	2.14E-03	7.67E-04	8.59E-04	2.35E-03	7.67E-04	2.13E-04	4.18E-04	2.51E-04	1.65E-04	2.33E-04	1.15E-04
677	565383.1	4221968	0.001614	2.13E-03	7.65E-04	8.56E-04	2.34E-03	7.65E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
678	565373.2	4221968	0.001609	2.13E-03	7.62E-04	8.53E-04	2.33E-03	7.62E-04	2.11E-04	4.16E-04	2.49E-04	1.64E-04	2.31E-04	1.14E-04
679	565363.3	4221968	0.001605	2.12E-03	7.61E-04	8.51E-04	2.33E-03	7.61E-04	2.11E-04	4.15E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
680	565353.4	4221968	0.001603	2.12E-03	7.59E-04	8.50E-04	2.32E-03	7.59E-04	2.10E-04	4.14E-04	2.48E-04	1.63E-04	2.31E-04	1.13E-04
681	565343.5	4221968	0.0016	2.12E-03	7.58E-04	8.48E-04	2.32E-03	7.58E-04	2.10E-04	4.13E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
682	565333.6	4221968	0.001599	2.11E-03	7.57E-04	8.48E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
683	565323.7	4221968	0.001598	2.11E-03	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
684	565313.8	4221968	0.001597	2.11E-03	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
685	565303.9	4221968	0.001598	2.11E-03	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
686	565294	4221968	0.001599	2.11E-03	7.57E-04	8.48E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
687	565284.1	4221968	0.0016	2.12E-03	7.58E-04	8.48E-04	2.32E-03	7.58E-04	2.10E-04	4.13E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
688	565537.4	4221972	0.001758	2.32E-03	8.33E-04	9.32E-04	2.55E-03	8.33E-04	2.31E-04	4.54E-04	2.72E-04	1.79E-04	2.53E-04	1.24E-04
689	565546.3	4221976	0.001794	2.37E-03	8.50E-04	9.51E-04	2.60E-03	8.50E-04	2.36E-04	4.63E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
690	565555.1	4221979	0.001831	2.42E-03	8.67E-04	9.71E-04	2.65E-03	8.67E-04	2.40E-04	4.73E-04	2.84E-04	1.86E-04	2.63E-04	1.29E-04
691	565564	4221983	0.001867	2.47E-03	8.84E-04	9.90E-04	2.71E-03	8.84E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.69E-04	1.32E-04
692	565572.8	4221987	0.001903	2.52E-03	9.02E-04	1.01E-03	2.76E-03	9.02E-04	2.50E-04	4.92E-04	2.95E-04	1.93E-04	2.74E-04	1.35E-04
693	565599.4	4221998	0.002009	2.66E-03	9.52E-04	1.07E-03	2.91E-03	9.52E-04	2.64E-04	5.19E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
694	565608.3	4222001	0.002043	2.70E-03	9.68E-04	1.08E-03	2.96E-03	9.68E-04	2.68E-04	5.28E-04	3.17E-04	2.08E-04	2.94E-04	1.45E-04
695	565617.2	4222005	0.002077	2.75E-03	9.84E-04	1.10E-03	3.01E-03	9.84E-04	2.73E-04	5.37E-04	3.22E-04	2.11E-04	2.99E-04	1.47E-04
696	565626	4222008	0.002108	2.79E-03	9.99E-04	1.12E-03	3.06E-03	9.99E-04	2.77E-04	5.45E-04	3.27E-04	2.14E-04	3.03E-04	1.49E-04
697	565634.9	4222012	0.002139	2.83E-03	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.81E-04	5.53E-04	3.32E-04	2.17E-04	3.08E-04	1.51E-04
698	565643.7	4222016	0.002169	2.87E-03	1.03E-03	1.15E-03	3.14E-03	1.03E-03	2.85E-04	5.60E-04	3.36E-04	2.20E-04	3.12E-04	1.53E-04
699	565652.6	4222019	0.002197	2.91E-03	1.04E-03	1.16E-03	3.19E-03	1.04E-03	2.89E-04	5.68E-04	3.41E-04	2.23E-04	3.16E-04	1.55E-04
700	565502	4221957	0.001615	2.14E-03	7.65E-04	8.56E-04	2.34E-03	7.65E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
701	565492.1	4221957	0.001608	2.13E-03	7.62E-04	8.53E-04	2.33E-03	7.62E-04	2.11E-04	4.15E-04	2.49E-04	1.63E-04	2.31E-04	1.14E-04
702	565482.1	4221957	0.001601	2.12E-03	7.59E-04	8.49E-04	2.32E-03	7.59E-04	2.10E-04	4.14E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
703	565472.2	4221957	0.001594	2.11E-03	7.55E-04	8.45E-04	2.31E-03	7.55E-04	2.09E-04	4.12E-04	2.47E-04	1.62E-04	2.29E-04	1.13E-04
704	565462.3	4221957	0.001587	2.10E-03	7.52E-04	8.41E-04	2.30E-03	7.52E-04	2.08E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
705	565452.4	4221958	0.00158	2.09E-03	7.49E-04	8.38E-04	2.29E-03	7.49E-04	2.08E-04	4.08E-04	2.45E-04	1.61E-04	2.27E-04	1.12E-04
706	565442.5	4221958	0.001574	2.08E-03	7.46E-04	8.34E-04	2.28E-03	7.46E-04	2.07E-04	4.07E-04	2.44E-04	1.60E-04	2.26E-04	1.11E-04
707	565432.6	4221958	0.001567	2.07E-03	7.42E-04	8.31E-04	2.27E-03	7.42E-04	2.06E-04	4.05E-04	2.43E-04	1.59E-04	2.25E-04	1.11E-04
708	565422.7	4221958	0.00156	2.06E-03	7.39E-04	8.27E-04	2.26E-03	7.39E-04	2.05E-04	4.03E-04	2.42E-04	1.59E-04	2.24E-04	1.10E-04
709	565412.8	4221958	0.001554	2.05E-03	7.36E-04	8.24E-04	2.25E-03	7.36E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
710	565402.9	4221958	0.001548	2.05E-03	7.33E-04	8.21E-04	2.24E-03	7.33E-04	2.03E-04	4.00E-04	2.40E-04	1.57E-04	2.23E-04	1.09E-04
711	565393	4221958	0.001542	2.04E-03	7.31E-04	8.18E-04	2.24E-03	7.31E-04	2.03E-04	3.98E-04	2.39E-04	1.57E-04	2.22E-04	1.09E-04
712	565383.1	4221958	0.001538	2.03E-03	7.28E-04	8.15E-04	2.23E-03	7.28E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
713	565373.2	4221958	0.001533	2.03E-03	7.26E-04	8.13E-04	2.22E-03	7.26E-04	2.01E-04	3.96E-04	2.38E-04	1.56E-04	2.21E-04	1.08E-04
714	565363.3	4221958	0.00153	2.02E-03	7.25E-04	8.11E-04	2.22E-03	7.25E-04	2.01E-04	3.95E-04	2.37E-04	1.55E-04	2.20E-04	1.08E-04
715	565353.4	4221958	0.001527	2.02E-03	7.23E-04	8.10E-04	2.21E-03	7.23E-04	2.01E-04	3.94E-04	2.37E-04	1.55E-04	2.20E-04	1.08E-04
716	565343.5	4221958	0.001525	2.02E-03	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
717	565333.6	4221958	0.001523	2.01E-03	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
718	565323.7	4221958	0.001522	2.01E-03	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
719	565313.8	4221958	0.001522	2.01E-03	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
720	565303.9	4221958	0.001522	2.01E-03	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
721	565294	4221958	0.001523	2.01E-03	7.21E-04	8.07E-04	2.21E-03	7.21E-04	2.00E-04	3.93E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
722	565284	4221958	0.001524	2.02E-03	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
723	565537.1	4221962	0.001672	2.21E-03	7.92E-04	8.86E-04	2.42E-03	7.92E-04	2.20E-04	4.32E-04	2.59E-04	1.70E-04	2.41E-04	1.18E-04
724	565545.8	4221966	0.001706	2.26E-03	8.08E-04	9.04E-04	2.47E-03	8.08E-04	2.24E-04	4.41E-04	2.64E-04	1.73E-04	2.45E-04	1.21E-04
725	565554.6	4221969	0.00174	2.30E-03	8.24E-04	9.22E-04	2.52E-03	8.24E-04	2.28E-04	4.49E-04	2.70E-04	1.77E-04	2.50E-04	1.23E-04

726	565563.4	4221973	0.001773	2.35E-03	8.40E-04	9.40E-04	2.57E-03	8.40E-04	2.33E-04	4.58E-04	2.75E-04	1.80E-04	2.55E-04	1.25E-04
727	565572.2	4221976	0.001807	2.39E-03	8.56E-04	9.58E-04	2.62E-03	8.56E-04	2.37E-04	4.67E-04	2.80E-04	1.84E-04	2.60E-04	1.28E-04
728	565598.5	4221987	0.001906	2.52E-03	9.03E-04	1.01E-03	2.76E-03	9.03E-04	2.50E-04	4.92E-04	2.95E-04	1.94E-04	2.74E-04	1.35E-04
729	565607.3	4221991	0.001938	2.56E-03	9.18E-04	1.03E-03	2.81E-03	9.18E-04	2.55E-04	5.01E-04	3.00E-04	1.97E-04	2.79E-04	1.37E-04
730	565616.1	4221995	0.00197	2.61E-03	9.33E-04	1.04E-03	2.86E-03	9.33E-04	2.59E-04	5.09E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
731	565624.8	4221998	0.002001	2.65E-03	9.48E-04	1.06E-03	2.90E-03	9.48E-04	2.63E-04	5.17E-04	3.10E-04	2.03E-04	2.88E-04	1.41E-04
732	565633.6	4222002	0.002029	2.68E-03	9.61E-04	1.08E-03	2.94E-03	9.61E-04	2.67E-04	5.24E-04	3.15E-04	2.06E-04	2.92E-04	1.44E-04
733	565642.4	4222005	0.002058	2.72E-03	9.75E-04	1.09E-03	2.98E-03	9.75E-04	2.70E-04	5.32E-04	3.19E-04	2.09E-04	2.96E-04	1.46E-04
734	565651.2	4222009	0.002085	2.76E-03	9.88E-04	1.11E-03	3.02E-03	9.88E-04	2.74E-04	5.39E-04	3.23E-04	2.12E-04	3.00E-04	1.47E-04
735	565660	4222013	0.002111	2.79E-03	1.00E-03	1.12E-03	3.06E-03	1.00E-03	2.77E-04	5.45E-04	3.27E-04	2.15E-04	3.04E-04	1.49E-04
736	565668.7	4222016	0.002136	2.82E-03	1.01E-03	1.13E-03	3.10E-03	1.01E-03	2.80E-04	5.52E-04	3.31E-04	2.17E-04	3.07E-04	1.51E-04
737	565677.5	4222020	0.002158	2.85E-03	1.02E-03	1.14E-03	3.13E-03	1.02E-03	2.83E-04	5.57E-04	3.35E-04	2.19E-04	3.10E-04	1.53E-04
738	565529.2	4221949	0.001565	2.07E-03	7.42E-04	8.30E-04	2.27E-03	7.42E-04	2.06E-04	4.04E-04	2.43E-04	1.59E-04	2.25E-04	1.11E-04
739	565538.2	4221953	0.001598	2.11E-03	7.57E-04	8.47E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
740	565547.3	4221956	0.001631	2.16E-03	7.73E-04	8.65E-04	2.36E-03	7.73E-04	2.14E-04	4.21E-04	2.53E-04	1.66E-04	2.35E-04	1.15E-04
741	565556.4	4221960	0.001664	2.20E-03	7.88E-04	8.82E-04	2.41E-03	7.88E-04	2.19E-04	4.30E-04	2.58E-04	1.69E-04	2.39E-04	1.18E-04
742	565565.5	4221964	0.001697	2.24E-03	8.04E-04	9.00E-04	2.46E-03	8.04E-04	2.23E-04	4.38E-04	2.63E-04	1.72E-04	2.44E-04	1.20E-04
743	565574.6	4221968	0.001729	2.29E-03	8.19E-04	9.17E-04	2.51E-03	8.19E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
744	565601.8	4221979	0.001826	2.41E-03	8.65E-04	9.68E-04	2.65E-03	8.65E-04	2.40E-04	4.72E-04	2.83E-04	1.86E-04	2.63E-04	1.29E-04
745	565610.9	4221983	0.001857	2.46E-03	8.80E-04	9.84E-04	2.69E-03	8.80E-04	2.44E-04	4.80E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
746	565629.1	4221990	0.001917	2.54E-03	9.08E-04	1.02E-03	2.78E-03	9.08E-04	2.52E-04	4.95E-04	2.97E-04	1.95E-04	2.76E-04	1.36E-04
747	565638.1	4221994	0.001946	2.57E-03	9.22E-04	1.03E-03	2.82E-03	9.22E-04	2.56E-04	5.03E-04	3.02E-04	1.98E-04	2.80E-04	1.38E-04
748	565647.2	4221998	0.001974	2.61E-03	9.35E-04	1.05E-03	2.86E-03	9.35E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04
749	565656.3	4222001	0.002	2.65E-03	9.48E-04	1.06E-03	2.90E-03	9.48E-04	2.63E-04	5.17E-04	3.10E-04	2.03E-04	2.88E-04	1.41E-04
750	565665.4	4222005	0.002026	2.68E-03	9.60E-04	1.07E-03	2.94E-03	9.60E-04	2.66E-04	5.23E-04	3.14E-04	2.06E-04	2.91E-04	1.43E-04
751	565674.5	4222009	0.00205	2.71E-03	9.71E-04	1.09E-03	2.97E-03	9.71E-04	2.69E-04	5.29E-04	3.18E-04	2.08E-04	2.95E-04	1.45E-04
752	565683.5	4222012	0.002071	2.74E-03	9.81E-04	1.10E-03	3.00E-03	9.81E-04	2.72E-04	5.35E-04	3.21E-04	2.10E-04	2.98E-04	1.46E-04
753	565692.6	4222016	0.002091	2.77E-03	9.91E-04	1.11E-03	3.03E-03	9.91E-04	2.75E-04	5.40E-04	3.24E-04	2.13E-04	3.01E-04	1.48E-04
754	565701.7	4222020	0.00211	2.79E-03	9.99E-04	1.12E-03	3.06E-03	9.99E-04	2.77E-04	5.45E-04	3.27E-04	2.14E-04	3.03E-04	1.49E-04
755	565528.9	4221939	0.001494	1.98E-03	7.08E-04	7.92E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
756	565537.9	4221943	0.001524	2.02E-03	7.22E-04	8.08E-04	2.21E-03	7.22E-04	2.00E-04	3.94E-04	2.36E-04	1.55E-04	2.19E-04	1.08E-04
757	565546.9	4221946	0.001555	2.06E-03	7.37E-04	8.24E-04	2.25E-03	7.37E-04	2.04E-04	4.02E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
758	565555.9	4221950	0.001586	2.10E-03	7.51E-04	8.41E-04	2.30E-03	7.51E-04	2.08E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
759	565564.8	4221954	0.001616	2.14E-03	7.66E-04	8.57E-04	2.34E-03	7.66E-04	2.12E-04	4.17E-04	2.51E-04	1.64E-04	2.32E-04	1.14E-04
760	565573.8	4221958	0.001646	2.18E-03	7.80E-04	8.73E-04	2.39E-03	7.80E-04	2.16E-04	4.25E-04	2.55E-04	1.67E-04	2.37E-04	1.16E-04
761	565600.8	4221969	0.001736	2.30E-03	8.23E-04	9.21E-04	2.52E-03	8.23E-04	2.28E-04	4.49E-04	2.69E-04	1.76E-04	2.50E-04	1.23E-04
762	565609.8	4221972	0.001766	2.33E-03	8.36E-04	9.36E-04	2.56E-03	8.36E-04	2.32E-04	4.56E-04	2.74E-04	1.79E-04	2.54E-04	1.25E-04
763	565618.8	4221976	0.001794	2.37E-03	8.50E-04	9.51E-04	2.60E-03	8.50E-04	2.36E-04	4.64E-04	2.78E-04	1.82E-04	2.58E-04	1.27E-04
764	565627.8	4221980	0.001823	2.41E-03	8.64E-04	9.66E-04	2.64E-03	8.64E-04	2.39E-04	4.71E-04	2.83E-04	1.85E-04	2.62E-04	1.29E-04
765	565636.8	4221983	0.00185	2.45E-03	8.77E-04	9.81E-04	2.68E-03	8.77E-04	2.43E-04	4.78E-04	2.87E-04	1.88E-04	2.66E-04	1.31E-04
766	565645.8	4221987	0.001877	2.48E-03	8.89E-04	9.95E-04	2.72E-03	8.89E-04	2.47E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
767	565654.8	4221991	0.001903	2.52E-03	9.01E-04	1.01E-03	2.76E-03	9.01E-04	2.50E-04	4.92E-04	2.95E-04	1.93E-04	2.74E-04	1.35E-04
768	565663.8	4221995	0.001927	2.55E-03	9.13E-04	1.02E-03	2.79E-03	9.13E-04	2.53E-04	4.98E-04	2.99E-04	1.96E-04	2.77E-04	1.36E-04
769	565672.8	4221998	0.00195	2.58E-03	9.24E-04	1.03E-03	2.83E-03	9.24E-04	2.56E-04	5.04E-04	3.02E-04	1.98E-04	2.81E-04	1.38E-04
770	565681.8	4222002	0.001972	2.61E-03	9.34E-04	1.05E-03	2.86E-03	9.34E-04	2.59E-04	5.09E-04	3.06E-04	2.00E-04	2.84E-04	1.39E-04
771	565690.8	4222006	0.001992	2.63E-03	9.44E-04	1.06E-03	2.89E-03	9.44E-04	2.62E-04	5.15E-04	3.09E-04	2.02E-04	2.87E-04	1.41E-04
772	565699.7	4222009	0.002011	2.66E-03	9.53E-04	1.07E-03	2.92E-03	9.53E-04	2.64E-04	5.19E-04	3.12E-04	2.04E-04	2.89E-04	1.42E-04
773	565708.7	4222013	0.002028	2.68E-03	9.61E-04	1.08E-03	2.94E-03	9.61E-04	2.66E-04	5.24E-04	3.14E-04	2.06E-04	2.92E-04	1.43E-04
774	565537.2	4221922	0.00139	1.84E-03	6.59E-04	7.37E-04	2.02E-03	6.59E-04	1.83E-04	3.59E-04	2.15E-04	1.41E-04	2.00E-04	9.83E-05
775	565546.1	4221926	0.001416	1.87E-03	6.71E-04	7.51E-04	2.05E-03	6.71E-04	1.86E-04	3.66E-04	2.20E-04	1.44E-04	2.04E-04	1.00E-04
776	565554.9	4221930	0.001443	1.91E-03	6.84E-04	7.65E-04	2.09E-03	6.84E-04	1.90E-04	3.73E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
777	565563.8	4221933	0.00147	1.94E-03	6.96E-04	7.79E-04	2.13E-03	6.96E-04	1.93E-04	3.80E-04	2.28E-04	1.49E-04	2.11E-04	1.04E-04
778	565572.6	4221937	0.001496	1.98E-03	7.09E-04	7.93E-04	2.17E-03	7.09E-04	1.96E-04	3.87E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
779	565599.2	4221948	0.001575	2.08E-03	7.46E-04	8.35E-04	2.28E-03	7.46E-04	2.07E-04	4.07E-04	2.44E-04	1.60E-04	2.27E-04	1.11E-04
780	565608	4221952	0.001601	2.12E-03	7.58E-04	8.49E-04	2.32E-03	7.58E-04	2.10E-04	4.14E-04	2.48E-04	1.63E-04	2.30E-04	1.13E-04
781	565616.8	4221955	0.001626	2.15E-03	7.70E-04	8.62E-04	2.36E-03	7.70E-04	2.14E-04	4.20E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
782	565625.7	4221959	0.001651	2.18E-03	7.82E-04	8.76E-04	2.39E-03	7.82E-04	2.17E-04	4.27E-04	2.56E-04	1.68E-04	2.38E-04	1.17E-04
783	565634.5	4221963	0.001676	2.22E-03	7.94E-04	8.89E-04	2.43E-03	7.94E-04	2.20E-04	4.33E-04	2.60E-04	1.70E-04	2.41E-04	1.19E-04
784	565643.4	4221966	0.0017	2.25E-03	8.06E-04	9.02E-04	2.47E-03	8.06E-04	2.23E-04	4.39E-04	2.64E-04	1.73E-04	2.45E-04	1.20E-04
785	565652.2	4221970	0.001724	2.28E-03	8.17E-04	9.14E-04	2.50E-03	8.17E-04	2.26E-04	4.45E-04	2.67E-04	1.75E-04	2.48E-04	1.22E-04
786	565661.1	4221973	0.001747	2.31E-03	8.28E-04	9.26E-04	2.53E-03	8.28E-04	2.29E-04	4.51E-04	2.71E-04	1.78E-04	2.51E-04	1.24E-04
787	565669.9	4221977	0.001769	2.34E-03	8.38E-04	9.38E-04	2.56E-03	8.38E-04	2.32E-04	4.57E-04	2.74E-04	1.80E-04	2.54E-04	1.25E-04
788	565678.8	4221981	0.001789	2.37E-03	8.48E-04	9.49E-04	2.59E-03	8.48E-04	2.35E-04	4.62E-04	2.77E-04	1.82E-04	2.57E-04	1.27E-04
789	565687.6	4221984	0.001809	2.39E-03	8.57E-04	9.59E-04	2.62E-03	8.57E-04	2.38E-04	4.67E-04	2.80E-04	1.84E-04	2.60E-04	1.28E-04
790	565696.5	4221988	0.001828	2.42E-03	8.66E-04	9.69E-04	2.65E-03	8.66E-04	2.40E-04	4.72E-04	2.83E-04	1.86E-04	2.63E-04	1.29E-04
791	565705.3	4221992	0.001845	2.44E-03	8.74E-04	9.78E-04	2.68E-03	8.74E-04	2.42E-04	4.77E-04	2.86E-04	1.88E-04	2.65E-04	1.31E-04
792	565714.2	4221995	0.001862	2.46E-03	8.82E-04	9.87E-04	2.70E-03	8.82E-04	2.44E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
793	565723	4221999	0.001876	2.48E-03	8.89E-04	9.95E-04	2.72E-03	8.89E-04	2.46E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
794	565735.5	4222011	0.001956	2.59E-03	9.27E-04	1.04E-03	2.84E-03	9.27E-04	2.57E-04	5.05E-04	3.03E-04	1.99E-04	2.81E-04	1.38E-04
795	565739.2	4222020	0.002024	2.68E-03	9.59E-04	1.07E-03	2.93E-03	9.59E-04	2.66E-04	5.23E-04	3.14E-04	2.06E-04	2.91E-04	1.43E-04
796	565538	4221903	0.001278	1.69E-03	6.05E-04	6.77E-04	1.85E-03	6.05E-04	1.68E-04	3.30E-04	1.98E-04	1.30E-04	1.84E-04	9.04E-05
797	565547	4221907	0.001301	1.72E-03	6.17E-04	6.90E-04	1.89E-03	6.17E-04	1.71E-04	3.36E-04	2.02E-04	1.32E-04	1.87E-04	9.20E-05
798	565556.1	4221910	0.001325	1.75E-03	6.28E-04	7.03E-04	1.92E-03	6.28E-04	1.74E-04	3.42E-04	2.05E-04	1.35E-04	1.91E-04	9.37E-05
799	565565.1	4221914	0.001349	1.78E-03	6.39E-04	7.15E-04	1.96E-03	6.39E-04	1.77E-04	3.49E-04	2.09E-04	1.37E-04	1.94E-04	9.54E-05
800	565574.1	4221918	0.001374	1.82E-03	6.51E-04	7.28E-04	1.99E-03	6.51E-04	1.80E-04	3.55E-04	2.13E-04	1.40E-04	1.98E-04	9.71E-05
801	565637.4	4221944	0.001538	2.03E-03	7.29E-04	8.15E-04	2.23E-03	7.29E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
802	565646.5	4221947	0.001561	2.06E-03	7.39E-04	8.27E-04	2.26E-03	7.39E-04	2.05E-04	4.03E-04	2.42E-04	1.59E-04	2.24E-04	1.10E-04
803	565655.5	4221951	0.001582	2.09E-03	7.50E-04	8.39E-04	2.29E-03	7.50E-04	2.08E-04	4.09E-04	2.45E-04	1.61E-04	2.28E-04	1.12E-04
804	565664.6	4221955	0.001604	2.12E-03	7.60E-04	8.50E-04	2.32E-03	7.60E-04	2.11E-04	4.14E-04	2.49E-04	1.63E-04	2.31E-04	1.13E-04
805	565673.6	4221959	0.001624	2.15E-03	7.69E-04	8.61E-04	2.35E-03	7.69E-04	2.13E-04	4.20E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
806	565682.7	4221962	0.001644	2.17E-03	7.79E-04	8.72E-04	2.38E-03	7.79E-04	2.16E-04	4.25E-04	2.55E-04	1.67E-04	2.36E-04	1.16E-04
807	565691.7	4221966	0.001663	2.20E-03	7.88E-04	8.82E-04	2.41E-03	7.88E-04	2.18E-04	4.30E-04	2.58E-04	1.69E-04	2.39E-04	1.18E-04
808	565700.7	4221970	0.001681	2.22E-03	7.96E-04	8.91E-04	2.44E-03	7.96E-04	2.21E-04	4.34E-04	2.61E-04	1.71E-04	2.42E-04	1.19E-04
809	565709.8	4221973	0.001698	2.25E-03	8.04E-04	9.00E-04	2.46E-03	8.04E-04	2.23E-04	4.39E-04	2.63E-04	1.73E-04	2.44E-04	1.20E-04
810	565718.8	4221977	0.001714	2.27E-03	8.12E-04	9.09E-04	2.48E-03	8.12E-04	2.25E-04	4.43E-04	2.66E-04	1.74E-04	2.47E-04	1.21E-04
811	565727.9	4221981	0.001729	2.29E-03	8.19E-04	9.17E-04	2.51E-03	8.19E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
812	565736.9	4221985	0.001743	2.30E-03	8.26E-04	9.24E-04	2.53E-03	8.26E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
813	565749.7	4221997	0.001815	2.40E-03	8.60E-04	9.63E-04	2.63E-03	8.60E-04	2.38E-04	4.69E-04	2.81E-04	1.84E-04	2.61E-04	1.28E-04
814	565753.5	4222006	0.001877	2.48E-03	8.89E-04	9.95E-04	2.72E-03	8.89E-04	2.47E-04	4.85E-04	2.91E-04	1.91E-04	2.70E-04	1.33E-04
815	565757.2	4222015	0.001941	2.57E-03	9.19E-04	1.03E-03	2.81E-03	9.19E-04	2.55E-04	5.01E-04	3.01E-04	1.97E-04	2.79E-04	1.37E-04
816	565537.4	4221883	0.001176	1.56E-03	5.57E-04	6.24E-04	1.71E-03	5.57E-04	1.54E-04	3.04E-04	1.82E-04	1.20E-04	1.69E-04	8.32E-05

817	565546.3	4221886	0.001197	1.58E-03	5.67E-04	6.35E-04	1.74E-03	5.67E-04	1.57E-04	3.09E-04	1.86E-04	1.22E-04	1.72E-04	8.46E-05
818	565555.2	4221890	0.001218	1.61E-03	5.77E-04	6.46E-04	1.77E-03	5.77E-04	1.60E-04	3.15E-04	1.89E-04	1.24E-04	1.75E-04	8.61E-05
819	565564.1	4221894	0.001239	1.64E-03	5.87E-04	6.57E-04	1.80E-03	5.87E-04	1.63E-04	3.20E-04	1.92E-04	1.26E-04	1.78E-04	8.76E-05
820	565573	4221897	0.00126	1.67E-03	5.97E-04	6.68E-04	1.83E-03	5.97E-04	1.66E-04	3.26E-04	1.95E-04	1.28E-04	1.81E-04	8.91E-05
821	565671	4221938	0.001484	1.96E-03	7.03E-04	7.87E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.13E-04	1.05E-04
822	565679.9	4221941	0.001502	1.99E-03	7.12E-04	7.97E-04	2.18E-03	7.12E-04	1.97E-04	3.88E-04	2.33E-04	1.53E-04	2.16E-04	1.06E-04
823	565688.8	4221945	0.00152	2.01E-03	7.20E-04	8.06E-04	2.20E-03	7.20E-04	2.00E-04	3.93E-04	2.36E-04	1.54E-04	2.19E-04	1.08E-04
824	565697.7	4221949	0.001538	2.03E-03	7.28E-04	8.15E-04	2.23E-03	7.28E-04	2.02E-04	3.97E-04	2.38E-04	1.56E-04	2.21E-04	1.09E-04
825	565706.6	4221952	0.001554	2.06E-03	7.36E-04	8.24E-04	2.25E-03	7.36E-04	2.04E-04	4.01E-04	2.41E-04	1.58E-04	2.24E-04	1.10E-04
826	565715.5	4221956	0.00157	2.08E-03	7.44E-04	8.32E-04	2.28E-03	7.44E-04	2.06E-04	4.06E-04	2.43E-04	1.60E-04	2.26E-04	1.11E-04
827	565724.4	4221960	0.001585	2.10E-03	7.51E-04	8.40E-04	2.30E-03	7.51E-04	2.08E-04	4.09E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
828	565733.3	4221963	0.001599	2.11E-03	7.57E-04	8.48E-04	2.32E-03	7.57E-04	2.10E-04	4.13E-04	2.48E-04	1.62E-04	2.30E-04	1.13E-04
829	565742.2	4221967	0.001612	2.13E-03	7.64E-04	8.55E-04	2.34E-03	7.64E-04	2.12E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
830	565751.2	4221971	0.001624	2.15E-03	7.69E-04	8.61E-04	2.35E-03	7.69E-04	2.13E-04	4.19E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
831	565763.8	4221983	0.001688	2.23E-03	8.00E-04	8.95E-04	2.45E-03	8.00E-04	2.22E-04	4.36E-04	2.62E-04	1.72E-04	2.43E-04	1.19E-04
832	565767.5	4221992	0.001743	2.30E-03	8.26E-04	9.24E-04	2.53E-03	8.26E-04	2.29E-04	4.50E-04	2.70E-04	1.77E-04	2.51E-04	1.23E-04
833	565771.2	4222001	0.001798	2.38E-03	8.52E-04	9.54E-04	2.61E-03	8.52E-04	2.36E-04	4.65E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
834	565774.9	4222010	0.001855	2.45E-03	8.79E-04	9.84E-04	2.69E-03	8.79E-04	2.44E-04	4.79E-04	2.88E-04	1.89E-04	2.67E-04	1.31E-04
835	565778.6	4222019	0.001913	2.53E-03	9.06E-04	1.01E-03	2.77E-03	9.06E-04	2.51E-04	4.94E-04	2.97E-04	1.94E-04	2.75E-04	1.35E-04
836	565538	4221863	0.001089	1.44E-03	5.16E-04	5.77E-04	1.58E-03	5.16E-04	1.43E-04	2.81E-04	1.69E-04	1.11E-04	1.57E-04	7.70E-05
837	565547.1	4221867	0.001108	1.47E-03	5.25E-04	5.88E-04	1.61E-03	5.25E-04	1.46E-04	2.86E-04	1.72E-04	1.13E-04	1.59E-04	7.84E-05
838	565556.2	4221870	0.001127	1.49E-03	5.34E-04	5.98E-04	1.63E-03	5.34E-04	1.48E-04	2.91E-04	1.75E-04	1.15E-04	1.62E-04	7.97E-05
839	565565.3	4221874	0.001147	1.52E-03	5.43E-04	6.08E-04	1.66E-03	5.43E-04	1.51E-04	2.96E-04	1.78E-04	1.17E-04	1.65E-04	8.11E-05
840	565574.4	4221878	0.001166	1.54E-03	5.52E-04	6.18E-04	1.69E-03	5.52E-04	1.53E-04	3.01E-04	1.81E-04	1.18E-04	1.68E-04	8.25E-05
841	565719.7	4221938	0.001453	1.92E-03	6.88E-04	7.70E-04	2.11E-03	6.88E-04	1.91E-04	3.75E-04	2.25E-04	1.48E-04	2.09E-04	1.03E-04
842	565728.8	4221941	0.001467	1.94E-03	6.95E-04	7.78E-04	2.13E-03	6.95E-04	1.93E-04	3.79E-04	2.27E-04	1.49E-04	2.11E-04	1.04E-04
843	565737.8	4221945	0.001481	1.96E-03	7.02E-04	7.85E-04	2.15E-03	7.02E-04	1.94E-04	3.83E-04	2.30E-04	1.50E-04	2.13E-04	1.05E-04
844	565746.9	4221949	0.001494	1.98E-03	7.08E-04	7.92E-04	2.17E-03	7.08E-04	1.96E-04	3.86E-04	2.32E-04	1.52E-04	2.15E-04	1.06E-04
845	565756	4221953	0.001505	1.99E-03	7.13E-04	7.98E-04	2.18E-03	7.13E-04	1.98E-04	3.89E-04	2.33E-04	1.53E-04	2.17E-04	1.06E-04
846	565765.1	4221956	0.001517	2.01E-03	7.18E-04	8.04E-04	2.20E-03	7.18E-04	1.99E-04	3.92E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
847	565781.7	4221978	0.001625	2.15E-03	7.70E-04	8.62E-04	2.36E-03	7.70E-04	2.13E-04	4.20E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
848	565785.5	4221987	0.001677	2.22E-03	7.94E-04	8.89E-04	2.43E-03	7.94E-04	2.20E-04	4.33E-04	2.60E-04	1.70E-04	2.41E-04	1.19E-04
849	565789.3	4221996	0.001729	2.29E-03	8.19E-04	9.17E-04	2.51E-03	8.19E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
850	565793.1	4222005	0.001782	2.36E-03	8.44E-04	9.45E-04	2.58E-03	8.44E-04	2.34E-04	4.60E-04	2.76E-04	1.81E-04	2.56E-04	1.26E-04
851	565537.5	4221843	0.00101	1.34E-03	4.78E-04	5.35E-04	1.46E-03	4.78E-04	1.33E-04	2.61E-04	1.57E-04	1.03E-04	1.45E-04	7.14E-05
852	565546.5	4221846	0.001027	1.36E-03	4.86E-04	5.44E-04	1.49E-03	4.86E-04	1.35E-04	2.65E-04	1.59E-04	1.04E-04	1.48E-04	7.26E-05
853	565555.4	4221850	0.001044	1.38E-03	4.94E-04	5.53E-04	1.51E-03	4.94E-04	1.37E-04	2.70E-04	1.62E-04	1.06E-04	1.50E-04	7.38E-05
854	565564.4	4221854	0.001061	1.40E-03	5.02E-04	5.62E-04	1.54E-03	5.02E-04	1.39E-04	2.74E-04	1.64E-04	1.08E-04	1.53E-04	7.50E-05
855	565573.3	4221857	0.001078	1.43E-03	5.11E-04	5.71E-04	1.56E-03	5.11E-04	1.42E-04	2.78E-04	1.67E-04	1.10E-04	1.55E-04	7.62E-05
856	565761.4	4221935	0.001401	1.85E-03	6.64E-04	7.43E-04	2.03E-03	6.64E-04	1.84E-04	3.62E-04	2.17E-04	1.42E-04	2.01E-04	9.90E-05
857	565538.1	4221823	0.000941	1.24E-03	4.46E-04	4.99E-04	1.36E-03	4.46E-04	1.24E-04	2.43E-04	1.46E-04	9.56E-05	1.35E-04	6.66E-05
858	565547.2	4221827	0.000956	1.26E-03	4.53E-04	5.07E-04	1.39E-03	4.53E-04	1.26E-04	2.47E-04	1.48E-04	9.72E-05	1.38E-04	6.76E-05
859	565556.3	4221830	0.000972	1.29E-03	4.60E-04	5.15E-04	1.41E-03	4.60E-04	1.28E-04	2.51E-04	1.51E-04	9.88E-05	1.40E-04	6.87E-05
860	565565.4	4221834	0.000988	1.31E-03	4.68E-04	5.24E-04	1.43E-03	4.68E-04	1.30E-04	2.55E-04	1.53E-04	1.00E-04	1.42E-04	6.99E-05
861	565574.5	4221838	0.001004	1.33E-03	4.75E-04	5.32E-04	1.45E-03	4.75E-04	1.32E-04	2.59E-04	1.56E-04	1.02E-04	1.44E-04	7.10E-05
862	565855.5	4222059	0.001919	2.54E-03	9.09E-04	1.02E-03	2.78E-03	9.09E-04	2.52E-04	4.96E-04	2.98E-04	1.95E-04	2.76E-04	1.36E-04
863	565859.3	4222068	0.001966	2.60E-03	9.31E-04	1.04E-03	2.85E-03	9.31E-04	2.58E-04	5.08E-04	3.05E-04	2.00E-04	2.83E-04	1.39E-04
864	565863.1	4222077	0.002015	2.66E-03	9.54E-04	1.07E-03	2.92E-03	9.54E-04	2.65E-04	5.20E-04	3.12E-04	2.05E-04	2.90E-04	1.42E-04
865	565866.9	4222086	0.002063	2.73E-03	9.77E-04	1.09E-03	2.99E-03	9.77E-04	2.71E-04	5.33E-04	3.20E-04	2.10E-04	2.97E-04	1.46E-04
866	565870.7	4222095	0.00211	2.79E-03	1.00E-03	1.12E-03	3.06E-03	1.00E-03	2.77E-04	5.45E-04	3.27E-04	2.14E-04	3.04E-04	1.49E-04
867	565874.5	4222105	0.002154	2.85E-03	1.02E-03	1.14E-03	3.12E-03	1.02E-03	2.83E-04	5.57E-04	3.34E-04	2.19E-04	3.10E-04	1.52E-04
868	565537.6	4221803	0.000878	1.16E-03	4.16E-04	4.66E-04	1.27E-03	4.16E-04	1.15E-04	2.27E-04	1.36E-04	8.93E-05	1.26E-04	6.21E-05
869	565546.6	4221806	0.000892	1.18E-03	4.23E-04	4.73E-04	1.29E-03	4.23E-04	1.17E-04	2.30E-04	1.38E-04	9.06E-05	1.28E-04	6.31E-05
870	565555.6	4221810	0.000906	1.20E-03	4.29E-04	4.80E-04	1.31E-03	4.29E-04	1.19E-04	2.34E-04	1.40E-04	9.20E-05	1.30E-04	6.41E-05
871	565564.6	4221814	0.00092	1.22E-03	4.36E-04	4.88E-04	1.33E-03	4.36E-04	1.21E-04	2.38E-04	1.43E-04	9.35E-05	1.32E-04	6.50E-05
872	565573.6	4221818	0.000934	1.24E-03	4.42E-04	4.95E-04	1.35E-03	4.42E-04	1.23E-04	2.41E-04	1.45E-04	9.49E-05	1.34E-04	6.60E-05
873	565582.6	4221821	0.000948	1.25E-03	4.49E-04	5.03E-04	1.37E-03	4.49E-04	1.25E-04	2.45E-04	1.47E-04	9.64E-05	1.36E-04	6.71E-05
874	565846.5	4221989	0.001572	2.08E-03	7.45E-04	8.33E-04	2.28E-03	7.45E-04	2.06E-04	4.06E-04	2.44E-04	1.60E-04	2.26E-04	1.11E-04
875	565850.2	4221998	0.001613	2.13E-03	7.64E-04	8.55E-04	2.34E-03	7.64E-04	2.12E-04	4.17E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
876	565853.9	4222007	0.00161	2.13E-03	7.63E-04	8.54E-04	2.33E-03	7.63E-04	2.11E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
877	565857.7	4222016	0.001652	2.19E-03	7.83E-04	8.76E-04	2.40E-03	7.83E-04	2.17E-04	4.27E-04	2.56E-04	1.68E-04	2.38E-04	1.17E-04
878	565872.7	4222052	0.001822	2.41E-03	8.63E-04	9.66E-04	2.64E-03	8.63E-04	2.39E-04	4.71E-04	2.82E-04	1.85E-04	2.62E-04	1.29E-04
879	565876.4	4222061	0.001865	2.47E-03	8.83E-04	9.89E-04	2.70E-03	8.83E-04	2.45E-04	4.82E-04	2.89E-04	1.90E-04	2.68E-04	1.32E-04
880	565880.2	4222070	0.001908	2.52E-03	9.04E-04	1.01E-03	2.77E-03	9.04E-04	2.51E-04	4.93E-04	2.96E-04	1.94E-04	2.75E-04	1.35E-04
881	565883.9	4222079	0.001952	2.58E-03	9.25E-04	1.03E-03	2.83E-03	9.25E-04	2.56E-04	5.04E-04	3.03E-04	1.98E-04	2.81E-04	1.38E-04
882	565887.6	4222088	0.001993	2.64E-03	9.44E-04	1.06E-03	2.89E-03	9.44E-04	2.62E-04	5.15E-04	3.09E-04	2.03E-04	2.87E-04	1.41E-04
883	565891.4	4222097	0.002033	2.69E-03	9.63E-04	1.08E-03	2.95E-03	9.63E-04	2.67E-04	5.25E-04	3.15E-04	2.07E-04	2.92E-04	1.44E-04
884	565895.1	4222106	0.00207	2.74E-03	9.81E-04	1.10E-03	3.00E-03	9.81E-04	2.72E-04	5.35E-04	3.21E-04	2.10E-04	2.98E-04	1.46E-04
885	565898.9	4222115	0.002107	2.79E-03	9.98E-04	1.12E-03	3.05E-03	9.98E-04	2.77E-04	5.44E-04	3.27E-04	2.14E-04	3.03E-04	1.49E-04
886	565902.6	4222124	0.002143	2.83E-03	1.02E-03	1.14E-03	3.11E-03	1.02E-03	2.81E-04	5.54E-04	3.32E-04	2.18E-04	3.08E-04	1.52E-04
887	565906.4	4222133	0.00218	2.88E-03	1.03E-03	1.16E-03	3.16E-03	1.03E-03	2.86E-04	5.63E-04	3.38E-04	2.22E-04	3.14E-04	1.54E-04
888	565538.1	4221783	0.000823	1.09E-03	3.90E-04	4.36E-04	1.19E-03	3.90E-04	1.08E-04	2.13E-04	1.28E-04	8.37E-05	1.18E-04	5.82E-05
889	565547.2	4221787	0.000836	1.11E-03	3.96E-04	4.43E-04	1.21E-03	3.96E-04	1.10E-04	2.16E-04	1.30E-04	8.49E-05	1.20E-04	5.91E-05
890	565556.4	4221790	0.000849	1.12E-03	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.11E-04	2.19E-04	1.32E-04	8.62E-05	1.22E-04	6.00E-05
891	565565.5	4221794	0.000862	1.14E-03	4.08E-04	4.57E-04	1.25E-03	4.08E-04	1.13E-04	2.23E-04	1.34E-04	8.76E-05	1.24E-04	6.09E-05
892	565574.7	4221798	0.000875	1.16E-03	4.14E-04	4.64E-04	1.27E-03	4.14E-04	1.15E-04	2.26E-04	1.36E-04	8.89E-05	1.26E-04	6.19E-05
893	565583.8	4221802	0.000888	1.17E-03	4.21E-04	4.71E-04	1.29E-03	4.21E-04	1.17E-04	2.29E-04	1.38E-04	9.02E-05	1.28E-04	6.28E-05
894	565864.8	4221985	0.001471	1.95E-03	6.97E-04	7.80E-04	2.13E-03	6.97E-04	1.93E-04	3.80E-04	2.28E-04	1.49E-04	2.12E-04	1.04E-04
895	565868.7	4221995	0.001509	2.00E-03	7.15E-04	8.00E-04	2.19E-03	7.15E-04	1.98E-04	3.90E-04	2.34E-04	1.53E-04	2.17E-04	1.07E-04
896	565872.5	4222004	0.001547	2.05E-03	7.33E-04	8.20E-04	2.24E-03	7.33E-04	2.03E-04	4.00E-04	2.40E-04	1.57E-04	2.22E-04	1.09E-04
897	565876.3	4222013	0.001586	2.10E-03	7.51E-04	8.41E-04	2.30E-03	7.51E-04	2.08E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
898	565880.1	4222022	0.001626	2.15E-03	7.70E-04	8.62E-04	2.36E-03	7.70E-04	2.13E-04	4.20E-04	2.52E-04	1.65E-04	2.34E-04	1.15E-04
899	565883.9	4222031	0.001666	2.20E-03	7.89E-04	8.83E-04	2.41E-03	7.89E-04	2.19E-04	4.30E-04	2.58E-04	1.69E-04	2.40E-04	1.18E-04
900	565887.7	4222040	0.001706	2.26E-03	8.08E-04	9.04E-04	2.47E-03	8.08E-04	2.24E-04	4.41E-04	2.64E-04	1.73E-04	2.45E-04	1.21E-04
901	565891.5	4222049	0.001746	2.31E-03	8.27E-04	9.26E-04	2.53E-03	8.27E-04	2.29E-04	4.51E-04	2.71E-04	1.77E-04	2.51E-04	1.23E-04
902	565895.3	4222058	0.001786	2.36E-03	8.46E-04	9.47E-04	2.59E-03	8.46E-04	2.35E-04	4.61E-04	2.77E-04	1.81E-04	2.57E-04	1.26E-04
903	565899.1	4222068	0.001825	2.41E-03	8.65E-04	9.68E-04	2.65E-03	8.65E-04	2.40E-04	4.71E-04	2.83E-04	1.85E-04	2.63E-04	1.29E-04
904	565902.9	4222077	0.001864	2.46E-03	8.83E-04	9.88E-04	2.70E-03	8.83E-04	2.45E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
905	565906.7	4222086	0.001902	2.51E-03	9.01E-04	1.01E-03	2.76E-03	9.01E-04	2.50E-04	4.91E-04	2.95E-04	1.93E-04	2.74E-04	1.34E-04
906	565910.5	4222095	0.001939	2.56E-03	9.19E-04	1.03E-03	2.81E-03	9.19E-04	2.55E-04	5.01E-04	3.01E-04	1.97E-04	2.79E-04	1.37E-04
907	565914.3	4222104	0.001975	2.61E-03	9.36E-04	1.05E-03	2.86E-03	9.36E-04	2.59E-04	5.10E-04	3.06E-04	2.01E-04	2.84E-04	1.40E-04

908	565918.1	4222113	0.002009	2.66E-03	9.52E-04	1.07E-03	2.91E-03	9.52E-04	2.64E-04	5.19E-04	3.11E-04	2.04E-04	2.89E-04	1.42E-04
909	565921.9	4222122	0.002043	2.70E-03	9.68E-04	1.08E-03	2.96E-03	9.68E-04	2.68E-04	5.28E-04	3.17E-04	2.08E-04	2.94E-04	1.44E-04
910	565886.1	4221988	0.001446	1.91E-03	6.85E-04	7.66E-04	2.10E-03	6.85E-04	1.90E-04	3.73E-04	2.24E-04	1.47E-04	2.08E-04	1.02E-04
911	565889.8	4221997	0.001479	1.96E-03	7.01E-04	7.84E-04	2.14E-03	7.01E-04	1.94E-04	3.82E-04	2.29E-04	1.50E-04	2.13E-04	1.05E-04
912	565893.6	4222006	0.001514	2.00E-03	7.17E-04	8.03E-04	2.20E-03	7.17E-04	1.99E-04	3.91E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
913	565897.3	4222015	0.001551	2.05E-03	7.35E-04	8.22E-04	2.25E-03	7.35E-04	2.04E-04	4.01E-04	2.40E-04	1.58E-04	2.23E-04	1.10E-04
914	565901.1	4222024	0.001586	2.10E-03	7.51E-04	8.41E-04	2.30E-03	7.51E-04	2.08E-04	4.10E-04	2.46E-04	1.61E-04	2.28E-04	1.12E-04
915	565904.9	4222033	0.001621	2.14E-03	7.68E-04	8.59E-04	2.35E-03	7.68E-04	2.13E-04	4.19E-04	2.51E-04	1.65E-04	2.33E-04	1.15E-04
916	565908.6	4222042	0.001656	2.19E-03	7.85E-04	8.78E-04	2.40E-03	7.85E-04	2.17E-04	4.28E-04	2.57E-04	1.68E-04	2.38E-04	1.17E-04
917	565912.4	4222051	0.001692	2.24E-03	8.02E-04	8.97E-04	2.45E-03	8.02E-04	2.22E-04	4.37E-04	2.62E-04	1.72E-04	2.43E-04	1.20E-04
918	565916.1	4222060	0.001728	2.29E-03	8.19E-04	9.16E-04	2.50E-03	8.19E-04	2.27E-04	4.46E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
919	565919.9	4222069	0.001763	2.33E-03	8.35E-04	9.35E-04	2.56E-03	8.35E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.54E-04	1.25E-04
920	565923.7	4222078	0.001797	2.38E-03	8.51E-04	9.53E-04	2.61E-03	8.51E-04	2.36E-04	4.64E-04	2.79E-04	1.83E-04	2.59E-04	1.27E-04
921	565927.4	4222087	0.001831	2.42E-03	8.67E-04	9.71E-04	2.65E-03	8.67E-04	2.40E-04	4.73E-04	2.84E-04	1.86E-04	2.63E-04	1.29E-04
922	565931.2	4222096	0.001863	2.46E-03	8.83E-04	9.88E-04	2.70E-03	8.83E-04	2.45E-04	4.81E-04	2.89E-04	1.89E-04	2.68E-04	1.32E-04
923	565934.9	4222106	0.001895	2.51E-03	8.98E-04	1.00E-03	2.75E-03	8.98E-04	2.49E-04	4.90E-04	2.94E-04	1.93E-04	2.73E-04	1.34E-04
924	565590.8	4221765	0.000789	1.04E-03	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.02E-05	1.13E-04	5.58E-05
925	565599.7	4221768	0.0008	1.06E-03	3.79E-04	4.24E-04	1.16E-03	3.79E-04	1.05E-04	2.07E-04	1.24E-04	8.13E-05	1.15E-04	5.66E-05
926	565608.7	4221772	0.00081	1.07E-03	3.84E-04	4.30E-04	1.17E-03	3.84E-04	1.06E-04	2.09E-04	1.26E-04	8.24E-05	1.17E-04	5.73E-05
927	565617.6	4221776	0.000821	1.09E-03	3.89E-04	4.35E-04	1.19E-03	3.89E-04	1.08E-04	2.12E-04	1.27E-04	8.34E-05	1.18E-04	5.81E-05
928	565626.5	4221779	0.000831	1.10E-03	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.45E-05	1.20E-04	5.88E-05
929	565907.2	4221991	0.001417	1.87E-03	6.71E-04	7.51E-04	2.05E-03	6.71E-04	1.86E-04	3.66E-04	2.20E-04	1.44E-04	2.04E-04	1.00E-04
930	565910.9	4222000	0.00145	1.92E-03	6.87E-04	7.69E-04	2.10E-03	6.87E-04	1.90E-04	3.75E-04	2.25E-04	1.47E-04	2.09E-04	1.03E-04
931	565914.6	4222009	0.001483	1.96E-03	7.03E-04	7.86E-04	2.15E-03	7.03E-04	1.95E-04	3.83E-04	2.30E-04	1.51E-04	2.13E-04	1.05E-04
932	565918.3	4222018	0.001514	2.00E-03	7.17E-04	8.03E-04	2.20E-03	7.17E-04	1.99E-04	3.91E-04	2.35E-04	1.54E-04	2.18E-04	1.07E-04
933	565922	4222027	0.001546	2.04E-03	7.32E-04	8.19E-04	2.24E-03	7.32E-04	2.03E-04	3.99E-04	2.40E-04	1.57E-04	2.22E-04	1.09E-04
934	565925.8	4222035	0.001578	2.09E-03	7.47E-04	8.36E-04	2.29E-03	7.47E-04	2.07E-04	4.08E-04	2.45E-04	1.60E-04	2.27E-04	1.12E-04
935	565929.5	4222044	0.00161	2.13E-03	7.63E-04	8.54E-04	2.33E-03	7.63E-04	2.11E-04	4.16E-04	2.50E-04	1.64E-04	2.32E-04	1.14E-04
936	565944.4	4222080	0.001732	2.29E-03	8.20E-04	9.18E-04	2.51E-03	8.20E-04	2.27E-04	4.47E-04	2.68E-04	1.76E-04	2.49E-04	1.22E-04
937	565948.1	4222089	0.001762	2.33E-03	8.35E-04	9.34E-04	2.55E-03	8.35E-04	2.31E-04	4.55E-04	2.73E-04	1.79E-04	2.53E-04	1.25E-04
938	565546.7	4221727	0.000694	9.18E-04	3.29E-04	3.68E-04	1.01E-03	3.29E-04	9.12E-05	1.79E-04	1.08E-04	7.06E-05	9.99E-05	4.91E-05
939	565555.8	4221730	0.000704	9.31E-04	3.33E-04	3.73E-04	1.02E-03	3.33E-04	9.24E-05	1.82E-04	1.09E-04	7.15E-05	1.01E-04	4.98E-05
940	565564.8	4221734	0.000714	9.44E-04	3.38E-04	3.78E-04	1.03E-03	3.38E-04	9.37E-05	1.84E-04	1.11E-04	7.25E-05	1.03E-04	5.05E-05
941	565573.9	4221738	0.000723	9.57E-04	3.43E-04	3.84E-04	1.05E-03	3.43E-04	9.50E-05	1.87E-04	1.12E-04	7.35E-05	1.04E-04	5.12E-05
942	565583	4221741	0.000733	9.70E-04	3.47E-04	3.89E-04	1.06E-03	3.47E-04	9.63E-05	1.89E-04	1.14E-04	7.45E-05	1.05E-04	5.19E-05
943	565592	4221745	0.000743	9.83E-04	3.52E-04	3.94E-04	1.08E-03	3.52E-04	9.76E-05	1.92E-04	1.15E-04	7.55E-05	1.07E-04	5.26E-05
944	565601.1	4221749	0.000753	9.96E-04	3.57E-04	3.99E-04	1.09E-03	3.57E-04	9.89E-05	1.95E-04	1.17E-04	7.65E-05	1.08E-04	5.33E-05
945	565610.1	4221753	0.000763	1.01E-03	3.62E-04	4.05E-04	1.11E-03	3.62E-04	1.00E-04	1.97E-04	1.18E-04	7.76E-05	1.10E-04	5.40E-05
946	565619.2	4221756	0.000773	1.02E-03	3.66E-04	4.10E-04	1.12E-03	3.66E-04	1.02E-04	2.00E-04	1.20E-04	7.86E-05	1.11E-04	5.47E-05
947	565628.3	4221760	0.000783	1.03E-03	3.71E-04	4.15E-04	1.13E-03	3.71E-04	1.03E-04	2.02E-04	1.21E-04	7.95E-05	1.13E-04	5.53E-05
948	565682.6	4221782	0.000841	1.11E-03	3.98E-04	4.46E-04	1.22E-03	3.98E-04	1.10E-04	2.17E-04	1.30E-04	8.54E-05	1.21E-04	5.95E-05
949	565691.7	4221786	0.00085	1.12E-03	4.03E-04	4.51E-04	1.23E-03	4.03E-04	1.12E-04	2.20E-04	1.32E-04	8.64E-05	1.22E-04	6.01E-05
950	565700.8	4221790	0.00086	1.14E-03	4.07E-04	4.56E-04	1.25E-03	4.07E-04	1.13E-04	2.22E-04	1.33E-04	8.74E-05	1.24E-04	6.08E-05
951	565709.8	4221794	0.000869	1.15E-03	4.12E-04	4.61E-04	1.26E-03	4.12E-04	1.14E-04	2.25E-04	1.35E-04	8.83E-05	1.25E-04	6.15E-05
952	565937	4222015	0.001458	1.93E-03	6.91E-04	7.73E-04	2.11E-03	6.91E-04	1.91E-04	3.77E-04	2.26E-04	1.48E-04	2.10E-04	1.03E-04
953	565940.8	4222024	0.001489	1.97E-03	7.05E-04	7.89E-04	2.16E-03	7.05E-04	1.96E-04	3.85E-04	2.31E-04	1.51E-04	2.14E-04	1.05E-04
954	565519.3	4221695	0.00063	8.33E-04	2.98E-04	3.34E-04	9.13E-04	2.98E-04	8.27E-05	1.63E-04	9.76E-05	6.40E-05	9.06E-05	4.45E-05
955	565528.3	4221699	0.000638	8.44E-04	3.02E-04	3.38E-04	9.25E-04	3.02E-04	8.38E-05	1.65E-04	9.89E-05	6.48E-05	9.18E-05	4.51E-05
956	565537.2	4221703	0.000647	8.55E-04	3.06E-04	3.43E-04	9.38E-04	3.06E-04	8.49E-05	1.67E-04	1.00E-04	6.57E-05	9.30E-05	4.57E-05
957	565546.2	4221706	0.000655	8.67E-04	3.10E-04	3.47E-04	9.50E-04	3.10E-04	8.61E-05	1.69E-04	1.02E-04	6.66E-05	9.43E-05	4.63E-05
958	565555.2	4221710	0.000664	8.78E-04	3.15E-04	3.52E-04	9.63E-04	3.15E-04	8.72E-05	1.72E-04	1.03E-04	6.75E-05	9.55E-05	4.70E-05
959	565564.1	4221714	0.000673	8.90E-04	3.19E-04	3.57E-04	9.76E-04	3.19E-04	8.84E-05	1.74E-04	1.04E-04	6.84E-05	9.68E-05	4.76E-05
960	565573.1	4221717	0.000682	9.02E-04	3.23E-04	3.61E-04	9.88E-04	3.23E-04	8.95E-05	1.76E-04	1.06E-04	6.93E-05	9.81E-05	4.82E-05
961	565582.1	4221721	0.000691	9.13E-04	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.07E-05	1.78E-04	1.07E-04	7.02E-05	9.93E-05	4.88E-05
962	565591.1	4221725	0.0007	9.25E-04	3.31E-04	3.71E-04	1.01E-03	3.31E-04	9.19E-05	1.81E-04	1.08E-04	7.11E-05	1.01E-04	4.95E-05
963	565600	4221729	0.000708	9.37E-04	3.36E-04	3.76E-04	1.03E-03	3.36E-04	9.30E-05	1.83E-04	1.10E-04	7.20E-05	1.02E-04	5.01E-05
964	565680.8	4221762	0.000789	1.04E-03	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.02E-05	1.13E-04	5.58E-05
965	565689.7	4221765	0.000798	1.05E-03	3.78E-04	4.23E-04	1.16E-03	3.78E-04	1.05E-04	2.06E-04	1.24E-04	8.11E-05	1.15E-04	5.64E-05
966	565698.7	4221769	0.000806	1.07E-03	3.82E-04	4.28E-04	1.17E-03	3.82E-04	1.06E-04	2.08E-04	1.25E-04	8.19E-05	1.16E-04	5.70E-05
967	565707.7	4221773	0.000815	1.08E-03	3.86E-04	4.32E-04	1.18E-03	3.86E-04	1.07E-04	2.11E-04	1.26E-04	8.28E-05	1.17E-04	5.76E-05
968	565716.6	4221776	0.000824	1.09E-03	3.90E-04	4.37E-04	1.19E-03	3.90E-04	1.08E-04	2.13E-04	1.28E-04	8.37E-05	1.18E-04	5.82E-05
969	565725.6	4221780	0.000832	1.10E-03	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.46E-05	1.20E-04	5.89E-05
970	565510.4	4221672	0.000588	7.78E-04	2.79E-04	3.12E-04	8.53E-04	2.79E-04	7.73E-05	1.52E-04	9.12E-05	5.98E-05	8.46E-05	4.16E-05
971	565519.5	4221675	0.000596	7.89E-04	2.83E-04	3.16E-04	8.65E-04	2.83E-04	7.83E-05	1.54E-04	9.25E-05	6.06E-05	8.58E-05	4.22E-05
972	565528.6	4221679	0.000605	7.99E-04	2.86E-04	3.21E-04	8.76E-04	2.86E-04	7.94E-05	1.56E-04	9.37E-05	6.14E-05	8.70E-05	4.28E-05
973	565537.7	4221683	0.000613	8.10E-04	2.90E-04	3.25E-04	8.88E-04	2.90E-04	8.04E-05	1.58E-04	9.50E-05	6.23E-05	8.81E-05	4.33E-05
974	565546.8	4221687	0.000621	8.21E-04	2.94E-04	3.29E-04	9.00E-04	2.94E-04	8.15E-05	1.60E-04	9.62E-05	6.31E-05	8.93E-05	4.39E-05
975	565555.8	4221690	0.000629	8.32E-04	2.98E-04	3.33E-04	9.12E-04	2.98E-04	8.26E-05	1.62E-04	9.75E-05	6.39E-05	9.05E-05	4.45E-05
976	565564.9	4221694	0.000637	8.43E-04	3.02E-04	3.38E-04	9.24E-04	3.02E-04	8.37E-05	1.65E-04	9.88E-05	6.48E-05	9.17E-05	4.51E-05
977	565574	4221698	0.000646	8.54E-04	3.06E-04	3.42E-04	9.36E-04	3.06E-04	8.48E-05	1.67E-04	1.00E-04	6.56E-05	9.29E-05	4.57E-05
978	565583.1	4221702	0.000654	8.65E-04	3.10E-04	3.47E-04	9.48E-04	3.10E-04	8.59E-05	1.69E-04	1.01E-04	6.64E-05	9.41E-05	4.62E-05
979	565592.2	4221705	0.000662	8.76E-04	3.14E-04	3.51E-04	9.60E-04	3.14E-04	8.70E-05	1.71E-04	1.03E-04	6.73E-05	9.52E-05	4.68E-05
980	565601.3	4221709	0.00067	8.87E-04	3.18E-04	3.55E-04	9.72E-04	3.18E-04	8.80E-05	1.73E-04	1.04E-04	6.81E-05	9.64E-05	4.74E-05
981	565501.3	4221668	0.000581	7.68E-04	2.75E-04	3.08E-04	8.42E-04	2.75E-04	7.62E-05	1.50E-04	9.00E-05	5.90E-05	8.35E-05	4.11E-05
982	565491.4	4221668	0.000578	7.65E-04	2.74E-04	3.07E-04	8.38E-04	2.74E-04	7.59E-05	1.49E-04	8.96E-05	5.88E-05	8.32E-05	4.09E-05
983	565392.4	4221668	0.000561	7.41E-04	2.66E-04	2.97E-04	8.13E-04	2.66E-04	7.36E-05	1.45E-04	8.69E-05	5.70E-05	8.06E-05	3.96E-05
984	565382.5	4221668	0.000559	7.40E-04	2.65E-04	2.97E-04	8.11E-04	2.65E-04	7.35E-05	1.45E-04	8.67E-05	5.68E-05	8.05E-05	3.96E-05
985	565372.6	4221668	0.000558	7.39E-04	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.33E-05	1.44E-04	8.66E-05	5.67E-05	8.03E-05	3.95E-05
986	565362.7	4221668	0.000558	7.37E-04	2.64E-04	2.96E-04	8.08E-04	2.64E-04	7.32E-05	1.44E-04	8.64E-05	5.67E-05	8.02E-05	3.94E-05
987	565352.7	4221668	0.000557	7.36E-04	2.64E-04	2.95E-04	8.07E-04	2.64E-04	7.31E-05	1.44E-04	8.63E-05	5.66E-05	8.01E-05	3.94E-05
988	565342.8	4221668	0.000556	7.35E-04	2.63E-04	2.95E-04	8.06E-04	2.63E-04	7.30E-05	1.44E-04	8.62E-05	5.65E-05	8.00E-05	3.93E-05
989	565332.9	4221668	0.000556	7.35E-04	2.63E-04	2.95E-04	8.05E-04	2.63E-04	7.30E-05	1.44E-04	8.61E-05	5.65E-05	7.99E-05	3.93E-05
990	565510.3	4221652	0.000558	7.39E-04	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.33E-05	1.44E-04	8.66E-05	5.68E-05	8.03E-05	3.95E-05
991	565519.3	4221655	0.000566	7.48E-04	2.68E-04	3.00E-04	8.20E-04	2.68E-04	7.43E-05	1.46E-04	8.77E-05	5.75E-05	8.14E-05	4.00E-05
992	565528.3	4221659	0.000573	7.58E-04	2.72E-04	3.04E-04	8.31E-04	2.72E-04	7.53E-05	1.48E-04	8.89E-05	5.83E-05	8.25E-05	4.05E-05
993	565537.3	4221663	0.000581	7.68E-04	2.75E-04	3.08E-04	8.42E-04	2.75E-04	7.62E-05	1.50E-04	9.00E-05	5.90E-05	8.35E-05	4.11E-05
994	565546.3	4221666	0.000588	7.78E-04	2.79E-04	3.12E-04	8.52E-04	2.79E-04	7.72E-05	1.52E-04	9.12E-05	5.98E-05	8.46E-05	4.16E-05
995	565555.3	4221670	0.000596	7.88E-04	2.82E-04	3.16E-04	8.63E-04	2.82E-04	7.82E-05	1.54E-04	9.23E-05	6.05E-05	8.57E-05	4.21E-05
996	565564.3	4221674	0.000603	7.98E-04	2.86E-04	3.20E-04	8.75E-04	2.86E-04	7.92E-05	1.56E-04	9.35E-05	6.13E-05	8.68E-05	4.27E-05
997	565573.3	4221678	0.000611	8.08E-04	2.89E-04	3.24E-04	8.86E-04	2.89E-04	8.02E-05	1.58E-04	9.47E-05	6.21E-05	8.79E-05	4.32E-05
998	565582.3	4221681	0.000619	8.18E-04	2.93E-04	3.28E-04	8.97E-04	2.93E-04	8.13E-05	1.60E-04	9.59E-05	6.29E-05	8.90E-05	4.38E-05

999	565591.3	4221685	0.000626	8.28E-04	2.97E-04	3.32E-04	9.08E-04	2.97E-04	8.23E-05	1.62E-04	9.71E-05	6.37E-05	9.01E-05	4.43E-05
1000	565600.3	4221689	0.000634	8.38E-04	3.00E-04	3.36E-04	9.19E-04	3.00E-04	8.33E-05	1.64E-04	9.83E-05	6.44E-05	9.12E-05	4.48E-05
1001	565609.3	4221692	0.000642	8.48E-04	3.04E-04	3.40E-04	9.30E-04	3.04E-04	8.43E-05	1.66E-04	9.94E-05	6.52E-05	9.23E-05	4.54E-05
1002	565501.3	4221648	0.000551	7.29E-04	2.61E-04	2.92E-04	7.99E-04	2.61E-04	7.24E-05	1.42E-04	8.55E-05	5.60E-05	7.93E-05	3.90E-05
1003	565491.4	4221648	0.000549	7.26E-04	2.60E-04	2.91E-04	7.96E-04	2.60E-04	7.21E-05	1.42E-04	8.51E-05	5.58E-05	7.90E-05	3.88E-05
1004	565481.5	4221648	0.000547	7.24E-04	2.59E-04	2.90E-04	7.93E-04	2.59E-04	7.19E-05	1.41E-04	8.48E-05	5.56E-05	7.87E-05	3.87E-05
1005	565422	4221648	0.000537	7.10E-04	2.54E-04	2.85E-04	7.78E-04	2.54E-04	7.05E-05	1.39E-04	8.32E-05	5.46E-05	7.72E-05	3.80E-05
1006	565412.1	4221648	0.000535	7.08E-04	2.54E-04	2.84E-04	7.76E-04	2.54E-04	7.03E-05	1.38E-04	8.30E-05	5.44E-05	7.70E-05	3.79E-05
1007	565402.2	4221648	0.000534	7.06E-04	2.53E-04	2.83E-04	7.74E-04	2.53E-04	7.01E-05	1.38E-04	8.27E-05	5.42E-05	7.68E-05	3.77E-05
1008	565392.3	4221648	0.000533	7.04E-04	2.52E-04	2.82E-04	7.72E-04	2.52E-04	6.99E-05	1.38E-04	8.26E-05	5.41E-05	7.66E-05	3.77E-05
1009	565382.4	4221648	0.000532	7.03E-04	2.52E-04	2.82E-04	7.71E-04	2.52E-04	6.98E-05	1.37E-04	8.24E-05	5.40E-05	7.65E-05	3.76E-05
1010	565372.5	4221648	0.000531	7.02E-04	2.51E-04	2.81E-04	7.69E-04	2.51E-04	6.97E-05	1.37E-04	8.23E-05	5.39E-05	7.63E-05	3.75E-05
1011	565362.6	4221648	0.00053	7.01E-04	2.51E-04	2.81E-04	7.68E-04	2.51E-04	6.96E-05	1.37E-04	8.21E-05	5.38E-05	7.62E-05	3.75E-05
1012	565352.7	4221648	0.000529	7.00E-04	2.51E-04	2.81E-04	7.67E-04	2.51E-04	6.95E-05	1.37E-04	8.20E-05	5.38E-05	7.61E-05	3.74E-05
1013	565342.8	4221648	0.000529	6.99E-04	2.50E-04	2.80E-04	7.66E-04	2.50E-04	6.94E-05	1.37E-04	8.19E-05	5.37E-05	7.60E-05	3.74E-05
1014	565332.9	4221648	0.000528	6.98E-04	2.50E-04	2.80E-04	7.65E-04	2.50E-04	6.93E-05	1.36E-04	8.18E-05	5.37E-05	7.59E-05	3.73E-05
1015	565323	4221648	0.000528	6.98E-04	2.50E-04	2.80E-04	7.65E-04	2.50E-04	6.93E-05	1.36E-04	8.18E-05	5.36E-05	7.59E-05	3.73E-05
1016	565313.1	4221648	0.000527	6.97E-04	2.50E-04	2.80E-04	7.64E-04	2.50E-04	6.92E-05	1.36E-04	8.17E-05	5.36E-05	7.58E-05	3.73E-05
1017	565510.3	4221632	0.000531	7.02E-04	2.52E-04	2.82E-04	7.70E-04	2.52E-04	6.97E-05	1.37E-04	8.23E-05	5.40E-05	7.64E-05	3.76E-05
1018	565519.5	4221635	0.000538	7.11E-04	2.55E-04	2.85E-04	7.80E-04	2.55E-04	7.06E-05	1.39E-04	8.34E-05	5.47E-05	7.74E-05	3.80E-05
1019	565528.6	4221639	0.000545	7.21E-04	2.58E-04	2.89E-04	7.90E-04	2.58E-04	7.16E-05	1.41E-04	8.45E-05	5.54E-05	7.84E-05	3.85E-05
1020	565537.7	4221643	0.000552	7.30E-04	2.61E-04	2.93E-04	8.00E-04	2.61E-04	7.25E-05	1.43E-04	8.55E-05	5.61E-05	7.94E-05	3.90E-05
1021	565546.8	4221647	0.000559	7.39E-04	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.34E-05	1.44E-04	8.66E-05	5.68E-05	8.04E-05	3.95E-05
1022	565555.9	4221650	0.000566	7.48E-04	2.68E-04	3.00E-04	8.20E-04	2.68E-04	7.43E-05	1.46E-04	8.77E-05	5.75E-05	8.14E-05	4.00E-05
1023	565565	4221654	0.000573	7.58E-04	2.72E-04	3.04E-04	8.31E-04	2.72E-04	7.53E-05	1.48E-04	8.88E-05	5.82E-05	8.24E-05	4.05E-05
1024	565574.1	4221658	0.00058	7.68E-04	2.75E-04	3.08E-04	8.41E-04	2.75E-04	7.62E-05	1.50E-04	9.00E-05	5.90E-05	8.35E-05	4.10E-05
1025	565583.2	4221662	0.000588	7.77E-04	2.78E-04	3.12E-04	8.52E-04	2.78E-04	7.72E-05	1.52E-04	9.11E-05	5.97E-05	8.45E-05	4.16E-05
1026	565592.3	4221665	0.000595	7.87E-04	2.82E-04	3.15E-04	8.62E-04	2.82E-04	7.81E-05	1.54E-04	9.22E-05	6.05E-05	8.56E-05	4.21E-05
1027	565601.4	4221669	0.000602	7.96E-04	2.85E-04	3.19E-04	8.73E-04	2.85E-04	7.91E-05	1.56E-04	9.33E-05	6.12E-05	8.66E-05	4.26E-05
1028	565610.5	4221673	0.000609	8.06E-04	2.89E-04	3.23E-04	8.83E-04	2.89E-04	8.00E-05	1.57E-04	9.45E-05	6.19E-05	8.76E-05	4.31E-05
1029	565501.2	4221628	0.000524	6.93E-04	2.48E-04	2.78E-04	7.60E-04	2.48E-04	6.88E-05	1.35E-04	8.13E-05	5.33E-05	7.54E-05	3.71E-05
1030	565491.3	4221628	0.000522	6.91E-04	2.47E-04	2.77E-04	7.57E-04	2.47E-04	6.86E-05	1.35E-04	8.10E-05	5.31E-05	7.51E-05	3.69E-05
1031	565481.4	4221628	0.00052	6.88E-04	2.47E-04	2.76E-04	7.55E-04	2.47E-04	6.84E-05	1.34E-04	8.07E-05	5.29E-05	7.49E-05	3.68E-05
1032	565471.5	4221628	0.000519	6.86E-04	2.46E-04	2.75E-04	7.52E-04	2.46E-04	6.81E-05	1.34E-04	8.04E-05	5.27E-05	7.46E-05	3.67E-05
1033	565461.6	4221628	0.000517	6.84E-04	2.45E-04	2.74E-04	7.50E-04	2.45E-04	6.79E-05	1.34E-04	8.01E-05	5.25E-05	7.44E-05	3.66E-05
1034	565412.1	4221628	0.00051	6.74E-04	2.41E-04	2.70E-04	7.39E-04	2.41E-04	6.69E-05	1.32E-04	7.90E-05	5.18E-05	7.33E-05	3.60E-05
1035	565402.2	4221628	0.000508	6.72E-04	2.41E-04	2.69E-04	7.37E-04	2.41E-04	6.68E-05	1.31E-04	7.88E-05	5.17E-05	7.31E-05	3.59E-05
1036	565392.3	4221628	0.000507	6.71E-04	2.40E-04	2.69E-04	7.35E-04	2.40E-04	6.66E-05	1.31E-04	7.86E-05	5.15E-05	7.29E-05	3.59E-05
1037	565382.4	4221628	0.000506	6.69E-04	2.40E-04	2.68E-04	7.34E-04	2.40E-04	6.65E-05	1.31E-04	7.84E-05	5.14E-05	7.28E-05	3.58E-05
1038	565372.5	4221628	0.000505	6.68E-04	2.39E-04	2.68E-04	7.32E-04	2.39E-04	6.63E-05	1.30E-04	7.83E-05	5.13E-05	7.26E-05	3.57E-05
1039	565362.6	4221628	0.000504	6.67E-04	2.39E-04	2.67E-04	7.31E-04	2.39E-04	6.62E-05	1.30E-04	7.82E-05	5.12E-05	7.25E-05	3.57E-05
1040	565352.7	4221628	0.000504	6.66E-04	2.39E-04	2.67E-04	7.30E-04	2.39E-04	6.61E-05	1.30E-04	7.81E-05	5.12E-05	7.24E-05	3.56E-05
1041	565342.8	4221628	0.000503	6.65E-04	2.38E-04	2.67E-04	7.29E-04	2.38E-04	6.61E-05	1.30E-04	7.80E-05	5.11E-05	7.24E-05	3.56E-05
1042	565332.8	4221628	0.000503	6.65E-04	2.38E-04	2.66E-04	7.29E-04	2.38E-04	6.60E-05	1.30E-04	7.79E-05	5.11E-05	7.23E-05	3.55E-05
1043	565322.9	4221628	0.000502	6.64E-04	2.38E-04	2.66E-04	7.28E-04	2.38E-04	6.59E-05	1.30E-04	7.78E-05	5.10E-05	7.22E-05	3.55E-05
1044	565313	4221628	0.000502	6.64E-04	2.38E-04	2.66E-04	7.28E-04	2.38E-04	6.59E-05	1.30E-04	7.78E-05	5.10E-05	7.22E-05	3.55E-05
1045	565303.1	4221628	0.000502	6.63E-04	2.38E-04	2.66E-04	7.27E-04	2.38E-04	6.59E-05	1.30E-04	7.78E-05	5.10E-05	7.22E-05	3.55E-05
1046	565293.2	4221628	0.000501	6.63E-04	2.38E-04	2.66E-04	7.27E-04	2.38E-04	6.59E-05	1.30E-04	7.77E-05	5.10E-05	7.21E-05	3.55E-05
1047	565225.7	4222171	0.007008	9.27E-03	3.32E-03	3.72E-03	1.02E-02	3.32E-03	9.20E-04	1.81E-03	1.09E-03	7.12E-04	1.01E-03	4.96E-04
1048	565208.3	4222177	0.007077	9.36E-03	3.35E-03	3.75E-03	1.03E-02	3.35E-03	9.29E-04	1.83E-03	1.10E-03	7.19E-04	1.02E-03	5.00E-04
1049	565219.1	4222165	0.006482	8.57E-03	3.07E-03	3.44E-03	9.40E-03	3.07E-03	8.51E-04	1.67E-03	1.00E-03	6.59E-04	9.32E-04	4.58E-04
1050	565200.9	4222170	0.006561	8.68E-03	3.11E-03	3.48E-03	9.51E-03	3.11E-03	8.62E-04	1.69E-03	1.02E-03	6.67E-04	9.44E-04	4.64E-04
1051	565211.6	4222158	0.00603	7.97E-03	2.86E-03	3.20E-03	8.74E-03	2.86E-03	7.92E-04	1.56E-03	9.35E-04	6.13E-04	8.67E-04	4.26E-04
1052	565191	4222172	0.006502	8.60E-03	3.08E-03	3.45E-03	9.43E-03	3.08E-03	8.54E-04	1.68E-03	1.01E-03	6.61E-04	9.35E-04	4.60E-04
1053	565181	4222174	0.006422	8.49E-03	3.04E-03	3.41E-03	9.31E-03	3.04E-03	8.43E-04	1.66E-03	9.96E-04	6.53E-04	9.24E-04	4.54E-04
1054	565186.2	4222157	0.005698	7.53E-03	2.70E-03	3.02E-03	8.26E-03	2.70E-03	7.48E-04	1.47E-03	8.83E-04	5.79E-04	8.20E-04	4.03E-04
1055	565171.1	4222175	0.006327	8.37E-03	3.00E-03	3.35E-03	9.17E-03	3.00E-03	8.31E-04	1.63E-03	9.81E-04	6.43E-04	9.10E-04	4.47E-04
1056	565176.3	4222159	0.005656	7.48E-03	2.68E-03	3.00E-03	8.20E-03	2.68E-03	7.43E-04	1.46E-03	8.77E-04	5.75E-04	8.14E-04	4.00E-04
1057	565276.1	4222040	0.002424	3.21E-03	1.15E-03	1.29E-03	3.51E-03	1.15E-03	3.18E-04	6.26E-04	3.76E-04	2.46E-04	3.49E-04	1.71E-04
1058	564991.1	4222671	0.001178	1.56E-03	5.58E-04	6.24E-04	1.71E-03	5.58E-04	1.55E-04	3.04E-04	1.83E-04	1.20E-04	1.69E-04	8.33E-05
1059	564984.1	4222659	0.001248	1.65E-03	5.91E-04	6.62E-04	1.81E-03	5.91E-04	1.64E-04	3.22E-04	1.94E-04	1.27E-04	1.80E-04	8.83E-05
1060	564992.5	4222711	0.000961	1.27E-03	4.55E-04	5.09E-04	1.39E-03	4.55E-04	1.26E-04	2.48E-04	1.49E-04	9.76E-05	1.38E-04	6.79E-05
1061	564985.6	4222699	0.00102	1.35E-03	4.83E-04	5.41E-04	1.48E-03	4.83E-04	1.34E-04	2.63E-04	1.58E-04	1.04E-04	1.47E-04	7.21E-05
1062	564978.6	4222686	0.001082	1.43E-03	5.13E-04	5.74E-04	1.57E-03	5.13E-04	1.42E-04	2.79E-04	1.68E-04	1.10E-04	1.56E-04	7.65E-05
1063	564971.6	4222674	0.001146	1.52E-03	5.43E-04	6.08E-04	1.66E-03	5.43E-04	1.50E-04	2.96E-04	1.78E-04	1.16E-04	1.65E-04	8.10E-05
1064	564964.7	4222662	0.001212	1.60E-03	5.74E-04	6.43E-04	1.76E-03	5.74E-04	1.59E-04	3.13E-04	1.88E-04	1.23E-04	1.74E-04	8.57E-05
1065	564994.1	4222751	0.000788	1.04E-03	3.73E-04	4.18E-04	1.14E-03	3.73E-04	1.03E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.57E-05
1066	564987.1	4222739	0.000836	1.11E-03	3.96E-04	4.43E-04	1.21E-03	3.96E-04	1.10E-04	2.16E-04	1.30E-04	8.50E-05	1.20E-04	5.91E-05
1067	564980.1	4222727	0.000887	1.17E-03	4.20E-04	4.70E-04	1.29E-03	4.20E-04	1.16E-04	2.29E-04	1.38E-04	9.01E-05	1.28E-04	6.27E-05
1068	564973.1	4222714	0.000941	1.24E-03	4.46E-04	4.99E-04	1.36E-03	4.46E-04	1.24E-04	2.43E-04	1.46E-04	9.56E-05	1.35E-04	6.65E-05
1069	564966.1	4222702	0.000997	1.32E-03	4.72E-04	5.28E-04	1.45E-03	4.72E-04	1.31E-04	2.58E-04	1.55E-04	1.01E-04	1.43E-04	7.05E-05
1070	564959.2	4222690	0.001055	1.40E-03	5.00E-04	5.59E-04	1.53E-03	5.00E-04	1.39E-04	2.73E-04	1.64E-04	1.07E-04	1.52E-04	7.46E-05
1071	564952.2	4222677	0.001115	1.48E-03	5.28E-04	5.91E-04	1.62E-03	5.28E-04	1.46E-04	2.88E-04	1.73E-04	1.13E-04	1.60E-04	7.89E-05
1072	564945.2	4222665	0.001177	1.56E-03	5.58E-04	6.24E-04	1.71E-03	5.58E-04	1.55E-04	3.04E-04	1.82E-04	1.20E-04	1.69E-04	8.32E-05
1073	564938.2	4222653	0.00124	1.64E-03	5.87E-04	6.57E-04	1.80E-03	5.87E-04	1.63E-04	3.20E-04	1.92E-04	1.26E-04	1.78E-04	8.77E-05
1074	564988.7	4222779	0.000691	9.14E-04	3.27E-04	3.66E-04	1.00E-03	3.27E-04	9.08E-05	1.79E-04	1.07E-04	7.02E-05	9.94E-05	4.89E-05
1075	564981.7	4222767	0.000732	9.68E-04	3.47E-04	3.88E-04	1.06E-03	3.47E-04	9.61E-05	1.89E-04	1.13E-04	7.44E-05	1.05E-04	5.18E-05
1076	564974.7	4222755	0.000775	1.03E-03	3.67E-04	4.11E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.88E-05	1.12E-04	5.48E-05
1077	564967.7	4222742	0.000822	1.09E-03	3.89E-04	4.36E-04	1.19E-03	3.89E-04	1.08E-04	2.12E-04	1.27E-04	8.35E-05	1.18E-04	5.81E-05
1078	564960.7	4222730	0.00087	1.15E-03	4.12E-04	4.61E-04	1.26E-03	4.12E-04	1.14E-04	2.25E-04	1.35E-04	8.84E-05	1.25E-04	6.15E-05
1079	564953.7	4222718	0.000921	1.22E-03	4.36E-04	4.88E-04	1.34E-03	4.36E-04	1.21E-04	2.38E-04	1.43E-04	9.36E-05	1.33E-04	6.51E-05
1080	564946.7	4222705	0.000974	1.29E-03	4.62E-04	5.17E-04	1.41E-03	4.62E-04	1.28E-04	2.52E-04	1.51E-04	9.90E-05	1.40E-04	6.89E-05
1081	564939.7	4222693	0.001029	1.36E-03	4.88E-04	5.46E-04	1.49E-03	4.88E-04	1.35E-04	2.66E-04	1.60E-04	1.05E-04	1.48E-04	7.28E-05
1082	564932.7	4222681	0.001086	1.44E-03	5.14E-04	5.76E-04	1.57E-03	5.14E-04	1.43E-04	2.80E-04	1.68E-04	1.10E-04	1.56E-04	7.68E-05
1083	564925.7	4222668	0.001143	1.51E-03	5.42E-04	6.06E-04	1.66E-03	5.42E-04	1.50E-04	2.95E-04	1.77E-04	1.16E-04	1.64E-04	8.09E-05
1084	564918.6	4222656	0.001202	1.59E-03	5.69E-04	6.37E-04	1.74E-03	5.69E-04	1.58E-04	3.10E-04	1.86E-04	1.22E-04	1.73E-04	8.50E-05
1085	564993.4	4222805	0.000616	8.15E-04	2.92E-04	3.27E-04	8.93E-04	2.92E-04	8.09E-05	1.59E-04	9.55E-05	6.26E-05	8.86E-05	4.36E-05
1086	564976.4	4222795	0.000645	8.53E-04	3.05E-04	3.42E-04	9.35E-04	3.05E-04	8.47E-05	1.67E-04	1.00E-04	6.55E-05	9.28E-05	4.56E-05
1087	564969.5	4222783	0.000681	9.01E-04	3.23E-04	3.61E-04	9.87E-04	3.23E-04	8.94E-05	1.76E-04	1.06E-04	6.92E-05	9.79E-05	4.82E-05
1088	564962.6	4222771	0.00072	9.52E-04	3.41E-04	3.81E-04	1.04E-03	3.41E-04	9.45E-05	1.86E-04	1.12E-04	7.31E-05	1.04E-04	5.09E-05
1089	564955.7	4222759	0.000761	1.01E-03	3.60E-04	4.03E-04	1.10E-03	3.60E-04	9.99E-05	1.96E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05

1090	564948.8	4222747	0.000804	1.06E-03	3.81E-04	4.26E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.17E-05	1.16E-04	5.68E-05
1091	564941.9	4222734	0.000849	1.12E-03	4.02E-04	4.50E-04	1.23E-03	4.02E-04	1.12E-04	2.19E-04	1.32E-04	8.63E-05	1.22E-04	6.01E-05
1092	564935	4222722	0.000897	1.19E-03	4.25E-04	4.75E-04	1.30E-03	4.25E-04	1.18E-04	2.32E-04	1.39E-04	9.11E-05	1.29E-04	6.34E-05
1093	564928.1	4222710	0.000946	1.25E-03	4.48E-04	5.01E-04	1.37E-03	4.48E-04	1.24E-04	2.44E-04	1.47E-04	9.61E-05	1.36E-04	6.69E-05
1094	564921.2	4222698	0.000996	1.32E-03	4.72E-04	5.28E-04	1.44E-03	4.72E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.05E-05
1095	564914.3	4222686	0.001048	1.39E-03	4.97E-04	5.56E-04	1.52E-03	4.97E-04	1.38E-04	2.71E-04	1.62E-04	1.07E-04	1.51E-04	7.41E-05
1096	564907.4	4222673	0.001101	1.46E-03	5.22E-04	5.84E-04	1.60E-03	5.22E-04	1.45E-04	2.84E-04	1.71E-04	1.12E-04	1.58E-04	7.79E-05
1097	564900.5	4222661	0.001154	1.53E-03	5.47E-04	6.12E-04	1.67E-03	5.47E-04	1.52E-04	2.98E-04	1.79E-04	1.17E-04	1.66E-04	8.16E-05
1098	564994.6	4222825	0.000567	7.50E-04	2.69E-04	3.01E-04	8.22E-04	2.69E-04	7.44E-05	1.46E-04	8.79E-05	5.76E-05	8.15E-05	4.01E-05
1099	564981.1	4222821	0.000577	7.63E-04	2.73E-04	3.06E-04	8.37E-04	2.73E-04	7.58E-05	1.49E-04	8.95E-05	5.87E-05	8.30E-05	4.08E-05
1100	564964.1	4222811	0.000603	7.98E-04	2.86E-04	3.20E-04	8.75E-04	2.86E-04	7.92E-05	1.56E-04	9.35E-05	6.13E-05	8.68E-05	4.27E-05
1101	564957.2	4222799	0.000636	8.41E-04	3.01E-04	3.37E-04	9.22E-04	3.01E-04	8.35E-05	1.64E-04	9.86E-05	6.46E-05	9.15E-05	4.50E-05
1102	564950.2	4222787	0.000671	8.88E-04	3.18E-04	3.56E-04	9.73E-04	3.18E-04	8.81E-05	1.73E-04	1.04E-04	6.82E-05	9.65E-05	4.75E-05
1103	564943.3	4222774	0.000708	9.37E-04	3.36E-04	3.76E-04	1.03E-03	3.36E-04	9.30E-05	1.83E-04	1.10E-04	7.20E-05	1.02E-04	5.01E-05
1104	564936.4	4222762	0.000748	9.89E-04	3.54E-04	3.97E-04	1.08E-03	3.54E-04	9.82E-05	1.93E-04	1.16E-04	7.60E-05	1.08E-04	5.29E-05
1105	564929.5	4222750	0.000789	1.04E-03	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.02E-05	1.14E-04	5.58E-05
1106	564922.6	4222738	0.000833	1.10E-03	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.46E-05	1.20E-04	5.89E-05
1107	564915.6	4222725	0.000878	1.16E-03	4.16E-04	4.65E-04	1.27E-03	4.16E-04	1.15E-04	2.27E-04	1.36E-04	8.92E-05	1.26E-04	6.21E-05
1108	564908.7	4222713	0.000924	1.22E-03	4.38E-04	4.90E-04	1.34E-03	4.38E-04	1.21E-04	2.39E-04	1.43E-04	9.39E-05	1.33E-04	6.54E-05
1109	564901.8	4222701	0.000972	1.29E-03	4.60E-04	5.15E-04	1.41E-03	4.60E-04	1.28E-04	2.51E-04	1.51E-04	9.88E-05	1.40E-04	6.87E-05
1110	564894.9	4222689	0.001021	1.35E-03	4.83E-04	5.41E-04	1.48E-03	4.83E-04	1.34E-04	2.64E-04	1.58E-04	1.04E-04	1.47E-04	7.22E-05
1111	564887.9	4222677	0.00107	1.41E-03	5.07E-04	5.67E-04	1.55E-03	5.07E-04	1.40E-04	2.76E-04	1.66E-04	1.09E-04	1.54E-04	7.57E-05
1112	564881	4222664	0.00112	1.48E-03	5.30E-04	5.94E-04	1.62E-03	5.30E-04	1.47E-04	2.89E-04	1.74E-04	1.14E-04	1.61E-04	7.92E-05
1113	564874.1	4222652	0.001169	1.55E-03	5.54E-04	6.20E-04	1.70E-03	5.54E-04	1.54E-04	3.02E-04	1.81E-04	1.19E-04	1.68E-04	8.27E-05
1114	564995.8	4222844	0.000523	6.91E-04	2.48E-04	2.77E-04	7.58E-04	2.48E-04	6.87E-05	1.35E-04	8.11E-05	5.31E-05	7.52E-05	3.70E-05
1115	564982.3	4222840	0.000532	7.04E-04	2.52E-04	2.82E-04	7.72E-04	2.52E-04	6.99E-05	1.38E-04	8.25E-05	5.41E-05	7.66E-05	3.76E-05
1116	564968.8	4222837	0.000542	7.17E-04	2.57E-04	2.87E-04	7.86E-04	2.57E-04	7.12E-05	1.40E-04	8.40E-05	5.51E-05	7.79E-05	3.83E-05
1117	564951.7	4222827	0.000566	7.48E-04	2.68E-04	3.00E-04	8.20E-04	2.68E-04	7.43E-05	1.46E-04	8.77E-05	5.75E-05	8.14E-05	4.00E-05
1118	564944.8	4222814	0.000596	7.88E-04	2.82E-04	3.16E-04	8.63E-04	2.82E-04	7.82E-05	1.54E-04	9.23E-05	6.05E-05	8.57E-05	4.21E-05
1119	564937.9	4222802	0.000628	8.30E-04	2.97E-04	3.33E-04	9.10E-04	2.97E-04	8.24E-05	1.62E-04	9.73E-05	6.38E-05	9.03E-05	4.44E-05
1120	564930.9	4222790	0.000662	8.75E-04	3.13E-04	3.51E-04	9.59E-04	3.13E-04	8.69E-05	1.71E-04	1.03E-04	6.72E-05	9.52E-05	4.68E-05
1121	564924	4222778	0.000698	9.23E-04	3.30E-04	3.70E-04	1.01E-03	3.30E-04	9.16E-05	1.80E-04	1.08E-04	7.09E-05	1.00E-04	4.93E-05
1122	564917	4222765	0.000735	9.73E-04	3.48E-04	3.90E-04	1.07E-03	3.48E-04	9.66E-05	1.90E-04	1.14E-04	7.47E-05	1.06E-04	5.20E-05
1123	564910.1	4222753	0.000775	1.03E-03	3.67E-04	4.11E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.88E-05	1.11E-04	5.48E-05
1124	564903.1	4222741	0.000816	1.08E-03	3.87E-04	4.33E-04	1.18E-03	3.87E-04	1.07E-04	2.11E-04	1.27E-04	8.30E-05	1.17E-04	5.77E-05
1125	564896.2	4222729	0.000859	1.14E-03	4.07E-04	4.55E-04	1.25E-03	4.07E-04	1.13E-04	2.22E-04	1.33E-04	8.73E-05	1.24E-04	6.07E-05
1126	564889.3	4222716	0.000903	1.19E-03	4.28E-04	4.79E-04	1.31E-03	4.28E-04	1.19E-04	2.33E-04	1.40E-04	9.18E-05	1.30E-04	6.39E-05
1127	564882.3	4222704	0.000948	1.25E-03	4.49E-04	5.03E-04	1.37E-03	4.49E-04	1.24E-04	2.45E-04	1.47E-04	9.63E-05	1.36E-04	6.70E-05
1128	564875.4	4222692	0.000994	1.31E-03	4.71E-04	5.27E-04	1.44E-03	4.71E-04	1.31E-04	2.57E-04	1.54E-04	1.01E-04	1.43E-04	7.03E-05
1129	564868.4	4222680	0.00104	1.38E-03	4.93E-04	5.51E-04	1.51E-03	4.93E-04	1.37E-04	2.69E-04	1.61E-04	1.06E-04	1.50E-04	7.35E-05
1130	564861.5	4222667	0.001086	1.44E-03	5.15E-04	5.76E-04	1.57E-03	5.15E-04	1.43E-04	2.81E-04	1.68E-04	1.10E-04	1.56E-04	7.68E-05
1131	564854.5	4222655	0.001132	1.50E-03	5.37E-04	6.00E-04	1.64E-03	5.37E-04	1.49E-04	2.93E-04	1.76E-04	1.15E-04	1.63E-04	8.01E-05
1132	564997.2	4222864	0.000484	6.40E-04	2.29E-04	2.57E-04	7.02E-04	2.29E-04	6.36E-05	1.25E-04	7.50E-05	4.92E-05	6.96E-05	3.42E-05
1133	564983.6	4222860	0.000492	6.51E-04	2.33E-04	2.61E-04	7.14E-04	2.33E-04	6.47E-05	1.27E-04	7.63E-05	5.00E-05	7.08E-05	3.48E-05
1134	564970	4222856	0.000501	6.63E-04	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.77E-05	5.09E-05	7.21E-05	3.54E-05
1135	564956.4	4222852	0.00051	6.74E-04	2.42E-04	2.70E-04	7.39E-04	2.42E-04	6.70E-05	1.32E-04	7.90E-05	5.18E-05	7.33E-05	3.61E-05
1136	564939.4	4222842	0.000532	7.03E-04	2.52E-04	2.82E-04	7.71E-04	2.52E-04	6.98E-05	1.37E-04	8.24E-05	5.40E-05	7.65E-05	3.76E-05
1137	564932.4	4222830	0.000559	7.39E-04	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.34E-05	1.44E-04	8.67E-05	5.68E-05	8.04E-05	3.95E-05
1138	564925.5	4222818	0.000588	7.78E-04	2.79E-04	3.12E-04	8.53E-04	2.79E-04	7.73E-05	1.52E-04	9.12E-05	5.98E-05	8.46E-05	4.16E-05
1139	564918.5	4222806	0.000619	8.19E-04	2.93E-04	3.28E-04	8.98E-04	2.93E-04	8.13E-05	1.60E-04	9.60E-05	6.29E-05	8.91E-05	4.38E-05
1140	564911.5	4222793	0.000652	8.63E-04	3.09E-04	3.46E-04	9.46E-04	3.09E-04	8.57E-05	1.69E-04	1.01E-04	6.63E-05	9.38E-05	4.61E-05
1141	564904.6	4222781	0.000687	9.08E-04	3.25E-04	3.64E-04	9.96E-04	3.25E-04	9.02E-05	1.77E-04	1.06E-04	6.98E-05	9.88E-05	4.86E-05
1142	564897.6	4222769	0.000723	9.56E-04	3.43E-04	3.83E-04	1.05E-03	3.43E-04	9.50E-05	1.87E-04	1.12E-04	7.35E-05	1.04E-04	5.11E-05
1143	564890.7	4222756	0.000761	1.01E-03	3.61E-04	4.04E-04	1.10E-03	3.61E-04	9.99E-05	1.97E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05
1144	564883.7	4222744	0.0008	1.06E-03	3.79E-04	4.24E-04	1.16E-03	3.79E-04	1.05E-04	2.07E-04	1.24E-04	8.13E-05	1.15E-04	5.66E-05
1145	564876.7	4222732	0.000841	1.11E-03	3.98E-04	4.46E-04	1.22E-03	3.98E-04	1.10E-04	2.17E-04	1.30E-04	8.55E-05	1.21E-04	5.95E-05
1146	564869.8	4222720	0.000882	1.17E-03	4.18E-04	4.68E-04	1.28E-03	4.18E-04	1.16E-04	2.28E-04	1.37E-04	8.97E-05	1.27E-04	6.24E-05
1147	564862.8	4222707	0.000925	1.22E-03	4.38E-04	4.90E-04	1.34E-03	4.38E-04	1.21E-04	2.39E-04	1.43E-04	9.40E-05	1.33E-04	6.54E-05
1148	564855.9	4222695	0.000968	1.28E-03	4.59E-04	5.13E-04	1.40E-03	4.59E-04	1.27E-04	2.50E-04	1.50E-04	9.84E-05	1.39E-04	6.84E-05
1149	564848.9	4222683	0.001011	1.34E-03	4.79E-04	5.36E-04	1.47E-03	4.79E-04	1.33E-04	2.61E-04	1.57E-04	1.03E-04	1.45E-04	7.15E-05
1150	564841.9	4222671	0.001054	1.39E-03	4.99E-04	5.59E-04	1.53E-03	4.99E-04	1.38E-04	2.72E-04	1.63E-04	1.07E-04	1.52E-04	7.46E-05
1151	564835	4222658	0.001097	1.45E-03	5.20E-04	5.82E-04	1.59E-03	5.20E-04	1.44E-04	2.83E-04	1.70E-04	1.12E-04	1.58E-04	7.76E-05
1152	564998.6	4222884	0.000449	5.94E-04	2.13E-04	2.38E-04	6.52E-04	2.13E-04	5.90E-05	1.16E-04	6.97E-05	4.57E-05	6.46E-05	3.18E-05
1153	564985	4222880	0.000457	6.04E-04	2.16E-04	2.42E-04	6.62E-04	2.16E-04	6.00E-05	1.18E-04	7.08E-05	4.64E-05	6.57E-05	3.23E-05
1154	564971.4	4222876	0.000465	6.15E-04	2.20E-04	2.46E-04	6.74E-04	2.20E-04	6.10E-05	1.20E-04	7.20E-05	4.72E-05	6.68E-05	3.29E-05
1155	564957.7	4222872	0.000473	6.25E-04	2.24E-04	2.51E-04	6.85E-04	2.24E-04	6.21E-05	1.22E-04	7.33E-05	4.80E-05	6.80E-05	3.34E-05
1156	564944.1	4222868	0.000481	6.36E-04	2.28E-04	2.55E-04	6.97E-04	2.28E-04	6.31E-05	1.24E-04	7.45E-05	4.89E-05	6.91E-05	3.40E-05
1157	564927	4222858	0.000501	6.62E-04	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.76E-05	5.09E-05	7.20E-05	3.54E-05
1158	564920.1	4222846	0.000526	6.95E-04	2.49E-04	2.79E-04	7.62E-04	2.49E-04	6.90E-05	1.36E-04	8.15E-05	5.34E-05	7.56E-05	3.72E-05
1159	564913.1	4222834	0.000553	7.31E-04	2.62E-04	2.93E-04	8.01E-04	2.62E-04	7.26E-05	1.43E-04	8.57E-05	5.62E-05	7.95E-05	3.91E-05
1160	564906.1	4222821	0.000581	7.68E-04	2.75E-04	3.08E-04	8.42E-04	2.75E-04	7.63E-05	1.50E-04	9.01E-05	5.91E-05	8.36E-05	4.11E-05
1161	564899.1	4222809	0.000611	8.08E-04	2.90E-04	3.24E-04	8.86E-04	2.90E-04	8.03E-05	1.58E-04	9.48E-05	6.21E-05	8.79E-05	4.32E-05
1162	564892.1	4222797	0.000643	8.50E-04	3.05E-04	3.41E-04	9.32E-04	3.05E-04	8.44E-05	1.66E-04	9.97E-05	6.53E-05	9.25E-05	4.55E-05
1163	564885.2	4222784	0.000676	8.94E-04	3.20E-04	3.59E-04	9.81E-04	3.20E-04	8.88E-05	1.75E-04	1.05E-04	6.87E-05	9.73E-05	4.78E-05
1164	564878.2	4222772	0.000711	9.41E-04	3.37E-04	3.77E-04	1.03E-03	3.37E-04	9.34E-05	1.84E-04	1.10E-04	7.23E-05	1.02E-04	5.03E-05
1165	564871.2	4222760	0.000747	9.88E-04	3.54E-04	3.96E-04	1.08E-03	3.54E-04	9.81E-05	1.93E-04	1.16E-04	7.59E-05	1.08E-04	5.29E-05
1166	564864.2	4222747	0.000785	1.04E-03	3.72E-04	4.16E-04	1.14E-03	3.72E-04	1.03E-04	2.03E-04	1.22E-04	7.98E-05	1.13E-04	5.55E-05
1167	564857.3	4222735	0.000823	1.09E-03	3.90E-04	4.36E-04	1.19E-03	3.90E-04	1.08E-04	2.13E-04	1.28E-04	8.37E-05	1.18E-04	5.82E-05
1168	564850.3	4222723	0.000863	1.14E-03	4.09E-04	4.57E-04	1.25E-03	4.09E-04	1.13E-04	2.23E-04	1.34E-04	8.77E-05	1.24E-04	6.10E-05
1169	564843.3	4222710	0.000902	1.19E-03	4.28E-04	4.78E-04	1.31E-03	4.28E-04	1.19E-04	2.33E-04	1.40E-04	9.17E-05	1.30E-04	6.38E-05
1170	564836.3	4222698	0.000943	1.25E-03	4.47E-04	5.00E-04	1.37E-03	4.47E-04	1.24E-04	2.44E-04	1.46E-04	9.58E-05	1.36E-04	6.67E-05
1171	564829.4	4222686	0.000983	1.30E-03	4.66E-04	5.21E-04	1.43E-03	4.66E-04	1.29E-04	2.54E-04	1.52E-04	9.99E-05	1.41E-04	6.95E-05
1172	564822.4	4222674	0.001024	1.35E-03	4.85E-04	5.43E-04	1.48E-03	4.85E-04	1.34E-04	2.64E-04	1.59E-04	1.04E-04	1.47E-04	7.24E-05
1173	564815.4	4222661	0.001064	1.41E-03	5.04E-04	5.64E-04	1.54E-03	5.04E-04	1.40E-04	2.75E-04	1.65E-04	1.08E-04	1.53E-04	7.52E-05
1174	564992.3	4222890	0.00044	5.82E-04	2.08E-04	2.33E-04	6.38E-04	2.08E-04	5.78E-05	1.14E-04	6.82E-05	4.47E-05	6.33E-05	3.11E-05
1175	564996.7	4222814	0.000592	7.83E-04	2.80E-04	3.14E-04	8.58E-04	2.80E-04	7.77E-05	1.53E-04	9.17E-05	6.01E-05	8.51E-05	4.18E-05
1176	564988	4222795	0.000644	8.51E-04	3.05E-04	3.41E-04	9.33E-04	3.05E-04	8.45E-05	1.66E-04	9.98E-05	6.54E-05	9.26E-05	4.55E-05
1177	564979.3	4222776	0.000702	9.28E-04	3.33E-04	3.72E-04	1.02E-03	3.33E-04	9.22E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.97E-05
1178	564974.5	4222810	0.000605	8.01E-04	2.87E-04	3.21E-04	8.78E-04	2.87E-04	7.95E-05	1.56E-04	9.38E-05	6.15E-05	8.71E-05	4.28E-05
1179	564988.6	4222870	0.000474	6.26E-04	2.24E-04	2.51E-04	6.87E-04	2.24E-04	6.22E-05	1.22E-04	7.34E-05	4.81E-05	6.81E-05	3.35E-05
1180	564963	4222829	0.00056	7.41E-04	2.65E-04	2.97E-04	8.12E-04	2.65E-04	7.35E-05	1.45E-04	8.68E-05	5.69E-05	8.06E-05	3.96E-05

1181	564954.3	4222809	0.000608	8.03E-04	2.88E-04	3.22E-04	8.81E-04	2.88E-04	7.98E-05	1.57E-04	9.42E-05	6.17E-05	8.74E-05	4.30E-05
1182	564884.4	4222655	0.001167	1.54E-03	5.53E-04	6.19E-04	1.69E-03	5.53E-04	1.53E-04	3.01E-04	1.81E-04	1.19E-04	1.68E-04	8.25E-05
1183	564975.3	4222885	0.000449	5.94E-04	2.13E-04	2.38E-04	6.51E-04	2.13E-04	5.90E-05	1.16E-04	6.96E-05	4.56E-05	6.46E-05	3.18E-05
1184	564958.5	4222863	0.000489	6.47E-04	2.32E-04	2.59E-04	7.09E-04	2.32E-04	6.42E-05	1.26E-04	7.58E-05	4.97E-05	7.03E-05	3.46E-05
1185	564949.8	4222844	0.000528	6.98E-04	2.50E-04	2.80E-04	7.66E-04	2.50E-04	6.94E-05	1.36E-04	8.19E-05	5.37E-05	7.60E-05	3.73E-05
1186	564944.5	4222832	0.000554	7.32E-04	2.62E-04	2.93E-04	8.02E-04	2.62E-04	7.27E-05	1.43E-04	8.58E-05	5.63E-05	7.96E-05	3.91E-05
1187	564935.8	4222813	0.0006	7.93E-04	2.84E-04	3.18E-04	8.70E-04	2.84E-04	7.88E-05	1.55E-04	9.30E-05	6.10E-05	8.63E-05	4.24E-05
1188	564871.3	4222670	0.001083	1.43E-03	5.13E-04	5.74E-04	1.57E-03	5.13E-04	1.42E-04	2.80E-04	1.68E-04	1.10E-04	1.56E-04	7.66E-05
1189	564866	4222659	0.001129	1.49E-03	5.35E-04	5.99E-04	1.64E-03	5.35E-04	1.48E-04	2.92E-04	1.75E-04	1.15E-04	1.62E-04	7.98E-05
1190	565388.8	4223035	0.000301	3.98E-04	1.43E-04	1.60E-04	4.36E-04	1.43E-04	3.95E-05	7.78E-05	4.67E-05	3.06E-05	4.33E-05	2.13E-05
1191	564990.2	4222909	0.000411	5.44E-04	1.95E-04	2.18E-04	5.96E-04	1.95E-04	5.40E-05	1.06E-04	6.38E-05	4.18E-05	5.92E-05	2.91E-05
1192	564978.1	4222905	0.000418	5.52E-04	1.98E-04	2.21E-04	6.05E-04	1.98E-04	5.48E-05	1.08E-04	6.47E-05	4.24E-05	6.01E-05	2.95E-05
1193	564966	4222901	0.000424	5.61E-04	2.01E-04	2.25E-04	6.15E-04	2.01E-04	5.57E-05	1.10E-04	6.58E-05	4.31E-05	6.10E-05	3.00E-05
1194	564952.2	4222893	0.000437	5.78E-04	2.07E-04	2.32E-04	6.34E-04	2.07E-04	5.74E-05	1.13E-04	6.77E-05	4.44E-05	6.29E-05	3.09E-05
1195	564947	4222882	0.000456	6.03E-04	2.16E-04	2.42E-04	6.62E-04	2.16E-04	5.99E-05	1.18E-04	7.07E-05	4.64E-05	6.56E-05	3.23E-05
1196	564936.5	4222859	0.000499	6.60E-04	2.36E-04	2.64E-04	7.23E-04	2.36E-04	6.55E-05	1.29E-04	7.73E-05	5.07E-05	7.18E-05	3.53E-05
1197	564931.3	4222847	0.000522	6.90E-04	2.47E-04	2.77E-04	7.57E-04	2.47E-04	6.86E-05	1.35E-04	8.09E-05	5.31E-05	7.51E-05	3.69E-05
1198	564922.6	4222828	0.000564	7.46E-04	2.67E-04	2.99E-04	8.18E-04	2.67E-04	7.41E-05	1.46E-04	8.75E-05	5.74E-05	8.12E-05	3.99E-05
1199	564858.1	4222686	0.001007	1.33E-03	4.77E-04	5.34E-04	1.46E-03	4.77E-04	1.32E-04	2.60E-04	1.56E-04	1.02E-04	1.45E-04	7.12E-05
1200	564852.9	4222674	0.00105	1.39E-03	4.97E-04	5.57E-04	1.52E-03	4.97E-04	1.38E-04	2.71E-04	1.63E-04	1.07E-04	1.51E-04	7.42E-05
1201	564847.6	4222663	0.001093	1.45E-03	5.18E-04	5.80E-04	1.58E-03	5.18E-04	1.44E-04	2.82E-04	1.69E-04	1.11E-04	1.57E-04	7.73E-05
1202	565391.1	4223055	0.000287	3.79E-04	1.36E-04	1.52E-04	4.16E-04	1.36E-04	3.77E-05	7.41E-05	4.44E-05	2.91E-05	4.12E-05	2.03E-05
1203	564993	4222929	0.000384	5.08E-04	1.82E-04	2.04E-04	5.57E-04	1.82E-04	5.05E-05	9.92E-05	5.96E-05	3.90E-05	5.53E-05	2.72E-05
1204	564980.9	4222925	0.00039	5.15E-04	1.85E-04	2.07E-04	5.65E-04	1.85E-04	5.12E-05	1.01E-04	6.04E-05	3.96E-05	5.61E-05	2.76E-05
1205	564968.8	4222921	0.000395	5.23E-04	1.87E-04	2.10E-04	5.73E-04	1.87E-04	5.19E-05	1.02E-04	6.13E-05	4.02E-05	5.69E-05	2.80E-05
1206	564956.8	4222917	0.000401	5.31E-04	1.90E-04	2.13E-04	5.82E-04	1.90E-04	5.27E-05	1.04E-04	6.22E-05	4.08E-05	5.77E-05	2.84E-05
1207	564944.7	4222913	0.000408	5.39E-04	1.93E-04	2.16E-04	5.91E-04	1.93E-04	5.35E-05	1.05E-04	6.32E-05	4.14E-05	5.86E-05	2.88E-05
1208	564937.2	4222905	0.000421	5.57E-04	1.99E-04	2.23E-04	6.10E-04	1.99E-04	5.53E-05	1.09E-04	6.53E-05	4.28E-05	6.06E-05	2.98E-05
1209	564932	4222893	0.000439	5.81E-04	2.08E-04	2.33E-04	6.37E-04	2.08E-04	5.77E-05	1.13E-04	6.81E-05	4.46E-05	6.32E-05	3.11E-05
1210	564926.8	4222881	0.000459	6.06E-04	2.17E-04	2.43E-04	6.65E-04	2.17E-04	6.02E-05	1.18E-04	7.11E-05	4.66E-05	6.60E-05	3.24E-05
1211	564921.5	4222870	0.000479	6.34E-04	2.27E-04	2.54E-04	6.95E-04	2.27E-04	6.29E-05	1.24E-04	7.43E-05	4.87E-05	6.89E-05	3.39E-05
1212	564916.3	4222858	0.000501	6.62E-04	2.37E-04	2.66E-04	7.26E-04	2.37E-04	6.58E-05	1.29E-04	7.77E-05	5.09E-05	7.21E-05	3.54E-05
1213	564911.1	4222847	0.000524	6.93E-04	2.48E-04	2.78E-04	7.60E-04	2.48E-04	6.88E-05	1.35E-04	8.12E-05	5.33E-05	7.54E-05	3.71E-05
1214	564904.1	4222832	0.000557	7.37E-04	2.64E-04	2.96E-04	8.08E-04	2.64E-04	7.32E-05	1.44E-04	8.64E-05	5.66E-05	8.02E-05	3.94E-05
1215	564845	4222701	0.000938	1.24E-03	4.45E-04	4.97E-04	1.36E-03	4.45E-04	1.23E-04	2.42E-04	1.45E-04	9.54E-05	1.35E-04	6.64E-05
1216	564839.7	4222689	0.000978	1.29E-03	4.63E-04	5.19E-04	1.42E-03	4.63E-04	1.28E-04	2.53E-04	1.52E-04	9.94E-05	1.41E-04	6.92E-05
1217	564834.5	4222678	0.001018	1.35E-03	4.82E-04	5.40E-04	1.48E-03	4.82E-04	1.34E-04	2.63E-04	1.58E-04	1.03E-04	1.46E-04	7.20E-05
1218	564829.3	4222666	0.001059	1.40E-03	5.01E-04	5.61E-04	1.53E-03	5.01E-04	1.39E-04	2.73E-04	1.64E-04	1.08E-04	1.52E-04	7.49E-05
1219	564824.1	4222655	0.001099	1.45E-03	5.21E-04	5.83E-04	1.59E-03	5.21E-04	1.44E-04	2.84E-04	1.70E-04	1.12E-04	1.58E-04	7.77E-05
1220	565393.3	4223075	0.000273	3.62E-04	1.30E-04	1.45E-04	3.96E-04	1.30E-04	3.59E-05	7.06E-05	4.24E-05	2.78E-05	3.93E-05	1.93E-05
1221	564995.7	4222949	0.00036	4.76E-04	1.71E-04	1.91E-04	5.22E-04	1.71E-04	4.73E-05	9.30E-05	5.58E-05	3.66E-05	5.18E-05	2.55E-05
1222	564915.2	4222900	0.000429	5.67E-04	2.03E-04	2.27E-04	6.22E-04	2.03E-04	5.63E-05	1.11E-04	6.65E-05	4.36E-05	6.17E-05	3.03E-05
1223	564910	4222889	0.000448	5.92E-04	2.12E-04	2.37E-04	6.49E-04	2.12E-04	5.88E-05	1.16E-04	6.94E-05	4.55E-05	6.44E-05	3.16E-05
1224	564904.8	4222877	0.000467	6.18E-04	2.21E-04	2.48E-04	6.77E-04	2.21E-04	6.14E-05	1.21E-04	7.24E-05	4.75E-05	6.72E-05	3.30E-05
1225	564899.6	4222866	0.000488	6.46E-04	2.31E-04	2.59E-04	7.08E-04	2.31E-04	6.41E-05	1.26E-04	7.57E-05	4.96E-05	7.02E-05	3.45E-05
1226	564894.4	4222854	0.00051	6.75E-04	2.42E-04	2.71E-04	7.40E-04	2.42E-04	6.70E-05	1.32E-04	7.91E-05	5.19E-05	7.34E-05	3.61E-05
1227	564889.2	4222843	0.000534	7.06E-04	2.53E-04	2.83E-04	7.74E-04	2.53E-04	7.01E-05	1.38E-04	8.28E-05	5.43E-05	7.68E-05	3.78E-05
1228	564883.9	4222831	0.000559	7.39E-04	2.65E-04	2.96E-04	8.10E-04	2.65E-04	7.34E-05	1.44E-04	8.66E-05	5.68E-05	8.04E-05	3.95E-05
1229	564878.7	4222820	0.000585	7.74E-04	2.77E-04	3.10E-04	8.48E-04	2.77E-04	7.69E-05	1.51E-04	9.07E-05	5.95E-05	8.42E-05	4.14E-05
1230	564873.5	4222808	0.000613	8.10E-04	2.90E-04	3.25E-04	8.88E-04	2.90E-04	8.05E-05	1.58E-04	9.50E-05	6.23E-05	8.81E-05	4.33E-05
1231	564868.3	4222797	0.000642	8.49E-04	3.04E-04	3.40E-04	9.30E-04	3.04E-04	8.43E-05	1.66E-04	9.95E-05	6.52E-05	9.23E-05	4.54E-05
1232	564863.1	4222785	0.000672	8.89E-04	3.18E-04	3.56E-04	9.74E-04	3.18E-04	8.82E-05	1.74E-04	1.04E-04	6.83E-05	9.67E-05	4.75E-05
1233	564857.9	4222774	0.000703	9.30E-04	3.33E-04	3.73E-04	1.02E-03	3.33E-04	9.24E-05	1.82E-04	1.09E-04	7.15E-05	1.01E-04	4.97E-05
1234	564852.7	4222762	0.000736	9.73E-04	3.49E-04	3.90E-04	1.07E-03	3.49E-04	9.67E-05	1.90E-04	1.14E-04	7.48E-05	1.06E-04	5.21E-05
1235	564847.4	4222751	0.00077	1.02E-03	3.65E-04	4.08E-04	1.12E-03	3.65E-04	1.01E-04	1.99E-04	1.19E-04	7.82E-05	1.11E-04	5.44E-05
1236	564842.2	4222739	0.000804	1.06E-03	3.81E-04	4.26E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.17E-05	1.16E-04	5.69E-05
1237	564837	4222728	0.00084	1.11E-03	3.98E-04	4.45E-04	1.22E-03	3.98E-04	1.10E-04	2.17E-04	1.30E-04	8.54E-05	1.21E-04	5.94E-05
1238	564831.8	4222716	0.000876	1.16E-03	4.15E-04	4.65E-04	1.27E-03	4.15E-04	1.15E-04	2.26E-04	1.36E-04	8.90E-05	1.26E-04	6.20E-05
1239	564826.6	4222705	0.000913	1.21E-03	4.33E-04	4.84E-04	1.32E-03	4.33E-04	1.20E-04	2.36E-04	1.42E-04	9.28E-05	1.31E-04	6.46E-05
1240	564821.4	4222693	0.00095	1.26E-03	4.50E-04	5.04E-04	1.38E-03	4.50E-04	1.25E-04	2.46E-04	1.47E-04	9.66E-05	1.37E-04	6.72E-05
1241	564816.1	4222682	0.000988	1.31E-03	4.68E-04	5.24E-04	1.43E-03	4.68E-04	1.30E-04	2.55E-04	1.53E-04	1.00E-04	1.42E-04	6.99E-05
1242	564996.7	4222701	0.001014	1.34E-03	4.80E-04	5.38E-04	1.47E-03	4.80E-04	1.33E-04	2.62E-04	1.57E-04	1.03E-04	1.46E-04	7.17E-05
1243	564988.7	4222730	0.000875	1.16E-03	4.14E-04	4.64E-04	1.27E-03	4.14E-04	1.15E-04	2.26E-04	1.36E-04	8.89E-05	1.26E-04	6.19E-05
1244	564978.2	4222704	0.000989	1.31E-03	4.69E-04	5.25E-04	1.43E-03	4.69E-04	1.30E-04	2.56E-04	1.53E-04	1.01E-04	1.42E-04	7.00E-05
1245	564974.7	4222696	0.001031	1.36E-03	4.88E-04	5.46E-04	1.49E-03	4.88E-04	1.35E-04	2.66E-04	1.60E-04	1.05E-04	1.48E-04	7.29E-05
1246	564964.4	4222719	0.000916	1.21E-03	4.34E-04	4.86E-04	1.33E-03	4.34E-04	1.20E-04	2.37E-04	1.42E-04	9.31E-05	1.32E-04	6.48E-05
1247	564961	4222711	0.000953	1.26E-03	4.51E-04	5.05E-04	1.38E-03	4.51E-04	1.25E-04	2.46E-04	1.48E-04	9.68E-05	1.37E-04	6.74E-05
1248	564991.9	4222834	0.000545	7.20E-04	2.58E-04	2.89E-04	7.90E-04	2.58E-04	7.15E-05	1.41E-04	8.44E-05	5.53E-05	7.83E-05	3.85E-05
1249	564947.2	4222726	0.000884	1.17E-03	4.19E-04	4.68E-04	1.28E-03	4.19E-04	1.16E-04	2.28E-04	1.37E-04	8.98E-05	1.27E-04	6.25E-05
1250	564943.7	4222718	0.000918	1.21E-03	4.35E-04	4.87E-04	1.33E-03	4.35E-04	1.21E-04	2.37E-04	1.42E-04	9.33E-05	1.32E-04	6.49E-05
1251	564977.6	4222848	0.000516	6.82E-04	2.44E-04	2.74E-04	7.48E-04	2.44E-04	6.78E-05	1.33E-04	8.00E-05	5.24E-05	7.42E-05	3.65E-05
1252	564932.2	4222738	0.000832	1.10E-03	3.94E-04	4.41E-04	1.21E-03	3.94E-04	1.09E-04	2.15E-04	1.29E-04	8.46E-05	1.20E-04	5.89E-05
1253	564925.2	4222721	0.000897	1.19E-03	4.25E-04	4.76E-04	1.30E-03	4.25E-04	1.18E-04	2.32E-04	1.39E-04	9.12E-05	1.29E-04	6.35E-05
1254	564914.9	4222745	0.000805	1.06E-03	3.81E-04	4.27E-04	1.17E-03	3.81E-04	1.06E-04	2.08E-04	1.25E-04	8.18E-05	1.16E-04	5.69E-05
1255	564911.4	4222736	0.000835	1.10E-03	3.95E-04	4.43E-04	1.21E-03	3.95E-04	1.10E-04	2.16E-04	1.29E-04	8.48E-05	1.20E-04	5.90E-05
1256	564986.8	4222899	0.000425	5.62E-04	2.01E-04	2.25E-04	6.17E-04	2.01E-04	5.58E-05	1.10E-04	6.59E-05	4.32E-05	6.12E-05	3.01E-05
1257	564978.3	4222896	0.000431	5.70E-04	2.04E-04	2.29E-04	6.25E-04	2.04E-04	5.66E-05	1.11E-04	6.69E-05	4.38E-05	6.20E-05	3.05E-05
1258	564961.2	4222889	0.000444	5.87E-04	2.10E-04	2.35E-04	6.44E-04	2.10E-04	5.83E-05	1.15E-04	6.88E-05	4.51E-05	6.39E-05	3.14E-05
1259	564899.9	4222757	0.000761	1.01E-03	3.60E-04	4.03E-04	1.10E-03	3.60E-04	9.99E-05	1.97E-04	1.18E-04	7.73E-05	1.09E-04	5.38E-05
1260	564896.4	4222749	0.000789	1.04E-03	3.74E-04	4.18E-04	1.14E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.01E-05	1.13E-04	5.58E-05
1261	564892.9	4222740	0.000817	1.08E-03	3.87E-04	4.33E-04	1.18E-03	3.87E-04	1.07E-04	2.11E-04	1.27E-04	8.31E-05	1.18E-04	5.78E-05
1262	565400.4	4223046	0.000295	3.90E-04	1.40E-04	1.56E-04	4.28E-04	1.40E-04	3.87E-05	7.62E-05	4.57E-05	3.00E-05	4.24E-05	2.09E-05
1263	564963.9	4222910	0.000411	5.44E-04	1.95E-04	2.18E-04	5.96E-04	1.95E-04	5.40E-05	1.06E-04	6.38E-05	4.18E-05	5.92E-05	2.91E-05
1264	564955.4	4222906	0.000417	5.52E-04	1.98E-04	2.21E-04	6.05E-04	1.98E-04	5.48E-05	1.08E-04	6.47E-05	4.24E-05	6.00E-05	2.95E-05
1265	564947	4222903	0.000423	5.59E-04	2.00E-04	2.24E-04	6.13E-04	2.00E-04	5.56E-05	1.09E-04	6.56E-05	4.30E-05	6.09E-05	2.99E-05
1266	564882.7	4222764	0.000737	9.75E-04	3.49E-04	3.91E-04	1.07E-03	3.49E-04	9.68E-05	1.90E-04	1.14E-04	7.49E-05	1.06E-04	5.21E-05
1267	564879.2	4222755	0.000763	1.01E-03	3.62E-04	4.05E-04	1.11E-03	3.62E-04	1.00E-04	1.97E-04	1.18E-04	7.76E-05	1.10E-04	5.40E-05
1268	564966.3	4222931	0.000383	5.06E-04	1.81E-04	2.03E-04	5.55E-04	1.81E-04	5.03E-05	9.89E-05	5.93E-05	3.89E-05	5.51E-05	2.71E-05
1269	564957.9	4222927	0.000388	5.13E-04	1.84E-04	2.06E-04	5.62E-04	1.84E-04	5.09E-05	1.00E-04	6.01E-05	3.94E-05	5.58E-05	2.74E-05
1270	564949.5	4222924	0.000393	5.20E-04	1.86E-04	2.08E-04	5.70E-04	1.86E-04	5.16E-05	1.02E-04	6.09E-05	3.99E-05	5.65E-05	2.78E-05
1271	564932.7	4222917	0.000404	5.34E-04	1.91E-04	2.14E-04	5.85E-04	1.91E-04	5.30E-05	1.04E-04	6.26E-05	4.10E-05	5.81E-05	2.85E-05

1272	564872.3	4222787	0.000668	8.83E-04	3.16E-04	3.54E-04	9.68E-04	3.16E-04	8.77E-05	1.72E-04	1.04E-04	6.79E-05	9.60E-05	4.72E-05
1273	564861.9	4222762	0.000739	9.77E-04	3.50E-04	3.92E-04	1.07E-03	3.50E-04	9.71E-05	1.91E-04	1.15E-04	7.51E-05	1.06E-04	5.23E-05
1274	564855	4222745	0.00079	1.04E-03	3.74E-04	4.19E-04	1.15E-03	3.74E-04	1.04E-04	2.04E-04	1.22E-04	8.03E-05	1.14E-04	5.59E-05
1275	565390.9	4223086	0.000265	3.51E-04	1.26E-04	1.41E-04	3.85E-04	1.26E-04	3.48E-05	6.85E-05	4.11E-05	2.70E-05	3.82E-05	1.88E-05
1276	564896.1	4222893	0.000441	5.83E-04	2.09E-04	2.34E-04	6.40E-04	2.09E-04	5.79E-05	1.14E-04	6.84E-05	4.48E-05	6.35E-05	3.12E-05
1277	564892.6	4222885	0.000455	6.02E-04	2.16E-04	2.41E-04	6.60E-04	2.16E-04	5.98E-05	1.18E-04	7.06E-05	4.63E-05	6.55E-05	3.22E-05
1278	564889.1	4222876	0.00047	6.22E-04	2.23E-04	2.49E-04	6.82E-04	2.23E-04	6.17E-05	1.21E-04	7.29E-05	4.78E-05	6.76E-05	3.32E-05
1279	564885.5	4222868	0.000486	6.42E-04	2.30E-04	2.57E-04	7.04E-04	2.30E-04	6.38E-05	1.25E-04	7.53E-05	4.93E-05	6.98E-05	3.43E-05
1280	564882	4222859	0.000502	6.63E-04	2.38E-04	2.66E-04	7.27E-04	2.38E-04	6.59E-05	1.30E-04	7.78E-05	5.10E-05	7.22E-05	3.55E-05
1281	564878.5	4222851	0.000518	6.86E-04	2.46E-04	2.75E-04	7.52E-04	2.46E-04	6.81E-05	1.34E-04	8.04E-05	5.27E-05	7.46E-05	3.67E-05
1282	564875	4222842	0.000536	7.09E-04	2.54E-04	2.84E-04	7.77E-04	2.54E-04	7.04E-05	1.38E-04	8.31E-05	5.45E-05	7.71E-05	3.79E-05
1283	564871.5	4222834	0.000554	7.33E-04	2.63E-04	2.94E-04	8.03E-04	2.63E-04	7.28E-05	1.43E-04	8.59E-05	5.63E-05	7.97E-05	3.92E-05
1284	564868	4222825	0.000573	7.58E-04	2.72E-04	3.04E-04	8.31E-04	2.72E-04	7.53E-05	1.48E-04	8.88E-05	5.82E-05	8.24E-05	4.05E-05
1285	564864.5	4222816	0.000593	7.84E-04	2.81E-04	3.14E-04	8.59E-04	2.81E-04	7.78E-05	1.53E-04	9.19E-05	6.02E-05	8.53E-05	4.19E-05
1286	564860.9	4222808	0.000613	8.11E-04	2.90E-04	3.25E-04	8.89E-04	2.90E-04	8.05E-05	1.58E-04	9.50E-05	6.23E-05	8.82E-05	4.34E-05
1287	564857.4	4222799	0.000634	8.39E-04	3.00E-04	3.36E-04	9.19E-04	3.00E-04	8.33E-05	1.64E-04	9.83E-05	6.44E-05	9.12E-05	4.48E-05
1288	564853.9	4222791	0.000656	8.67E-04	3.11E-04	3.48E-04	9.51E-04	3.11E-04	8.61E-05	1.69E-04	1.02E-04	6.66E-05	9.43E-05	4.64E-05
1289	564850.4	4222782	0.000678	8.97E-04	3.21E-04	3.60E-04	9.83E-04	3.21E-04	8.91E-05	1.75E-04	1.05E-04	6.89E-05	9.75E-05	4.80E-05
1290	564846.9	4222774	0.000701	9.27E-04	3.32E-04	3.72E-04	1.02E-03	3.32E-04	9.21E-05	1.81E-04	1.09E-04	7.13E-05	1.01E-04	4.96E-05
1291	564843.4	4222765	0.000725	9.59E-04	3.43E-04	3.84E-04	1.05E-03	3.43E-04	9.52E-05	1.87E-04	1.12E-04	7.37E-05	1.04E-04	5.13E-05
1292	564839.8	4222757	0.000749	9.91E-04	3.55E-04	3.97E-04	1.09E-03	3.55E-04	9.84E-05	1.93E-04	1.16E-04	7.61E-05	1.08E-04	5.30E-05
1293	564836.3	4222748	0.000774	1.02E-03	3.67E-04	4.10E-04	1.12E-03	3.67E-04	1.02E-04	2.00E-04	1.20E-04	7.86E-05	1.11E-04	5.47E-05
1294	564832.8	4222740	0.000799	1.06E-03	3.79E-04	4.24E-04	1.16E-03	3.79E-04	1.05E-04	2.06E-04	1.24E-04	8.12E-05	1.15E-04	5.65E-05
1295	564822.3	4222714	0.000878	1.16E-03	4.16E-04	4.65E-04	1.27E-03	4.16E-04	1.15E-04	2.27E-04	1.36E-04	8.92E-05	1.26E-04	6.21E-05
1296	565390.8	4223106	0.000253	3.35E-04	1.20E-04	1.34E-04	3.67E-04	1.20E-04	3.32E-05	6.54E-05	3.92E-05	2.57E-05	3.64E-05	1.79E-05

			UnMitigated	T2	T2L3	T4
			2.62E-01	1.39E-01	3.44E-02	2.66E-02
			Yr 1	Yr 1	Yr 1	Yr 1
1	565427.7	4222516	7.43E-02	3.94E-02	9.76E-03	7.55E-03
2	565422.4	4222529	5.32E-02	2.82E-02	6.99E-03	5.41E-03
3	565432.3	4222525	6.16E-02	3.27E-02	8.09E-03	6.26E-03
4	565427	4222537	4.54E-02	2.41E-02	5.96E-03	4.62E-03
5	565436.9	4222533	5.22E-02	2.77E-02	6.86E-03	5.31E-03
6	565431.6	4222546	3.95E-02	2.09E-02	5.18E-03	4.01E-03
7	565422.3	4222548	3.57E-02	1.89E-02	4.68E-03	3.62E-03
8	565441.5	4222542	4.51E-02	2.39E-02	5.92E-03	4.58E-03
9	565435.3	4222555	3.44E-02	1.83E-02	4.52E-03	3.50E-03
10	565424.1	4222558	3.07E-02	1.63E-02	4.03E-03	3.12E-03
11	565446.1	4222551	3.95E-02	2.10E-02	5.19E-03	4.02E-03
12	565440.1	4222564	3.07E-02	1.63E-02	4.03E-03	3.12E-03
13	565429.2	4222566	2.76E-02	1.46E-02	3.62E-03	2.80E-03
14	565450.7	4222560	3.50E-02	1.85E-02	4.59E-03	3.55E-03
15	565444.8	4222572	2.76E-02	1.46E-02	3.63E-03	2.81E-03
16	565434.1	4222575	2.49E-02	1.32E-02	3.27E-03	2.53E-03
17	565423.4	4222578	2.26E-02	1.20E-02	2.97E-03	2.30E-03
18	565455.4	4222568	3.13E-02	1.66E-02	4.11E-03	3.18E-03
19	565449.5	4222581	2.51E-02	1.33E-02	3.29E-03	2.55E-03
20	565439	4222584	2.28E-02	1.21E-02	2.99E-03	2.31E-03
21	565428.5	4222586	2.08E-02	1.10E-02	2.73E-03	2.11E-03
22	565460	4222577	2.82E-02	1.50E-02	3.71E-03	2.87E-03
23	565454.2	4222590	2.29E-02	1.22E-02	3.01E-03	2.33E-03
24	565443.8	4222592	2.09E-02	1.11E-02	2.75E-03	2.13E-03
25	565433.4	4222595	1.91E-02	1.02E-02	2.51E-03	1.95E-03
26	565423	4222597	1.77E-02	9.37E-03	2.32E-03	1.80E-03
27	565464.6	4222586	2.57E-02	1.36E-02	3.38E-03	2.61E-03
28	565458.3	4222598	2.10E-02	1.11E-02	2.76E-03	2.14E-03
29	565469.2	4222594	2.35E-02	1.25E-02	3.09E-03	2.39E-03
30	565438.1	4223019	2.17E-03	1.15E-03	2.84E-04	2.20E-04
31	565426.8	4223022	2.13E-03	1.13E-03	2.79E-04	2.16E-04
32	565415.4	4223025	2.09E-03	1.11E-03	2.74E-04	2.12E-04
33	565449.1	4223037	2.09E-03	1.11E-03	2.74E-04	2.12E-04
34	565437.8	4223040	2.05E-03	1.09E-03	2.69E-04	2.08E-04
35	565426.5	4223042	2.02E-03	1.07E-03	2.65E-04	2.05E-04
36	565415.3	4223045	1.98E-03	1.05E-03	2.60E-04	2.01E-04
37	565443.8	4223058	1.97E-03	1.04E-03	2.58E-04	2.00E-04
38	565432.4	4223061	1.93E-03	1.02E-03	2.54E-04	1.96E-04
39	565420.9	4223064	1.90E-03	1.01E-03	2.49E-04	1.93E-04
40	565443.4	4223078	1.87E-03	9.90E-04	2.45E-04	1.90E-04
41	565432.1	4223081	1.84E-03	9.74E-04	2.41E-04	1.87E-04
42	565420.7	4223084	1.81E-03	9.58E-04	2.37E-04	1.84E-04
43	565443.1	4223098	1.78E-03	9.43E-04	2.33E-04	1.81E-04
44	565431.8	4223101	1.75E-03	9.28E-04	2.30E-04	1.78E-04

45	565420.5	4223104	1.72E-03	9.13E-04	2.26E-04	1.75E-04
46	565433.5	4222508	9.38E-02	4.97E-02	1.23E-02	9.53E-03
47	565406.8	4223063	1.88E-03	9.97E-04	2.47E-04	1.91E-04
48	565406.4	4223083	1.79E-03	9.49E-04	2.35E-04	1.82E-04
49	565405.9	4223103	1.71E-03	9.04E-04	2.24E-04	1.73E-04
50	565443.5	4222508	9.70E-02	5.14E-02	1.27E-02	9.86E-03
51	565453.4	4222509	9.96E-02	5.28E-02	1.31E-02	1.01E-02
52	565463.3	4222509	1.02E-01	5.39E-02	1.34E-02	1.03E-02
53	565473.1	4222509	1.04E-01	5.50E-02	1.36E-02	1.05E-02
54	565483	4222509	1.05E-01	5.58E-02	1.38E-02	1.07E-02
55	565443.4	4222518	7.57E-02	4.01E-02	9.94E-03	7.69E-03
56	565453.3	4222518	7.85E-02	4.16E-02	1.03E-02	7.98E-03
57	565463.2	4222518	8.10E-02	4.29E-02	1.06E-02	8.23E-03
58	565473.1	4222519	8.35E-02	4.43E-02	1.10E-02	8.48E-03
59	565482.9	4222519	8.55E-02	4.53E-02	1.12E-02	8.68E-03
60	565453.2	4222528	6.33E-02	3.36E-02	8.31E-03	6.43E-03
61	565463.1	4222528	6.58E-02	3.49E-02	8.64E-03	6.69E-03
62	565473	4222528	6.83E-02	3.62E-02	8.97E-03	6.94E-03
63	565482.8	4222529	7.05E-02	3.74E-02	9.26E-03	7.17E-03
64	565453.1	4222538	5.19E-02	2.75E-02	6.82E-03	5.28E-03
65	565463	4222538	5.43E-02	2.88E-02	7.13E-03	5.52E-03
66	565472.9	4222538	5.67E-02	3.01E-02	7.45E-03	5.77E-03
67	565482.8	4222538	5.89E-02	3.12E-02	7.74E-03	5.99E-03
68	565462.9	4222548	4.54E-02	2.41E-02	5.96E-03	4.62E-03
69	565472.8	4222548	4.77E-02	2.53E-02	6.26E-03	4.84E-03
70	565482.7	4222548	4.97E-02	2.64E-02	6.53E-03	5.06E-03
71	565462.8	4222558	3.84E-02	2.04E-02	5.05E-03	3.91E-03
72	565472.7	4222558	4.05E-02	2.15E-02	5.31E-03	4.11E-03
73	565482.6	4222558	4.24E-02	2.25E-02	5.57E-03	4.31E-03
74	565472.6	4222568	3.47E-02	1.84E-02	4.56E-03	3.53E-03
75	565482.5	4222568	3.64E-02	1.93E-02	4.79E-03	3.70E-03
76	565472.5	4222578	3.00E-02	1.59E-02	3.94E-03	3.05E-03
77	565482.4	4222578	3.16E-02	1.67E-02	4.15E-03	3.21E-03
78	565482.3	4222588	2.76E-02	1.46E-02	3.62E-03	2.80E-03
79	565482.2	4222597	2.43E-02	1.29E-02	3.19E-03	2.47E-03
80	565532.8	4222462	1.49E-01	7.87E-02	1.95E-02	1.51E-02
81	565532.6	4222452	1.60E-01	8.46E-02	2.10E-02	1.62E-02
82	565532.1	4222442	1.72E-01	9.14E-02	2.26E-02	1.75E-02
83	565531.7	4222432	1.86E-01	9.85E-02	2.44E-02	1.89E-02
84	565531.2	4222423	2.01E-01	1.07E-01	2.64E-02	2.05E-02
85	565530.9	4222409	2.24E-01	1.19E-01	2.94E-02	2.27E-02
86	565530.9	4222400	2.37E-01	1.26E-01	3.11E-02	2.41E-02
87	565532.1	4222389	2.45E-01	1.30E-01	3.22E-02	2.49E-02
88	565532.5	4222379	2.52E-01	1.34E-01	3.31E-02	2.56E-02
89	565532.5	4222368	2.58E-01	1.37E-01	3.39E-02	2.62E-02
90	565532.5	4222358	2.61E-01	1.38E-01	3.43E-02	2.65E-02
91	565532.4	4222348	2.62E-01	1.39E-01	3.44E-02	2.66E-02

92	565532.4	4222338	2.61E-01	1.38E-01	3.43E-02	2.65E-02
93	565532.4	4222328	2.58E-01	1.37E-01	3.39E-02	2.62E-02
94	565532.3	4222318	2.53E-01	1.34E-01	3.32E-02	2.57E-02
95	565532.3	4222309	2.46E-01	1.30E-01	3.23E-02	2.50E-02
96	565532.2	4222299	2.37E-01	1.26E-01	3.11E-02	2.41E-02
97	565542.4	4222368	2.23E-01	1.18E-01	2.93E-02	2.26E-02
98	565542.3	4222358	2.25E-01	1.19E-01	2.96E-02	2.29E-02
99	565542.3	4222348	2.25E-01	1.20E-01	2.96E-02	2.29E-02
100	565542.2	4222338	2.24E-01	1.19E-01	2.94E-02	2.28E-02
101	565542.2	4222328	2.21E-01	1.17E-01	2.90E-02	2.25E-02
102	565542.2	4222318	2.16E-01	1.15E-01	2.84E-02	2.20E-02
103	565542.1	4222309	2.10E-01	1.11E-01	2.76E-02	2.13E-02
104	565542.1	4222299	2.02E-01	1.07E-01	2.65E-02	2.05E-02
105	565532.2	4222289	2.26E-01	1.20E-01	2.97E-02	2.30E-02
106	565532.2	4222280	2.13E-01	1.13E-01	2.80E-02	2.17E-02
107	565532.2	4222270	1.97E-01	1.05E-01	2.59E-02	2.01E-02
108	565532.1	4222261	1.79E-01	9.50E-02	2.35E-02	1.82E-02
109	565532.1	4222252	1.59E-01	8.42E-02	2.09E-02	1.61E-02
110	565532.1	4222242	1.38E-01	7.33E-02	1.82E-02	1.41E-02
111	565532.1	4222233	1.19E-01	6.32E-02	1.56E-02	1.21E-02
112	565542.1	4222289	1.92E-01	1.02E-01	2.52E-02	1.95E-02
113	565542	4222280	1.81E-01	9.58E-02	2.37E-02	1.84E-02
114	565542	4222270	1.68E-01	8.89E-02	2.20E-02	1.70E-02
115	565542	4222261	1.53E-01	8.12E-02	2.01E-02	1.56E-02
116	565542	4222252	1.38E-01	7.30E-02	1.81E-02	1.40E-02
117	565541.9	4222242	0.1222574	6.48E-02	1.61E-02	1.24E-02
118	565541.9	4222233	0.1078436	5.72E-02	1.42E-02	1.10E-02
119	565551.8	4222252	0.1217655	6.46E-02	1.60E-02	1.24E-02
120	565551.8	4222242	0.1097786	5.82E-02	1.44E-02	1.12E-02
121	565551.8	4222233	0.0984232	5.22E-02	1.29E-02	1.00E-02
122	565502.5	4222223	0.12671	6.72E-02	1.66E-02	1.29E-02
123	565492.6	4222223	0.1337542	7.09E-02	1.76E-02	1.36E-02
124	565482.7	4222223	0.1403713	7.44E-02	1.84E-02	1.43E-02
125	565472.8	4222223	0.1455853	7.72E-02	1.91E-02	1.48E-02
126	565462.9	4222223	0.149149	7.91E-02	1.96E-02	1.52E-02
127	565453	4222223	0.1512816	8.02E-02	1.99E-02	1.54E-02
128	565443.1	4222223	0.1524116	8.08E-02	2.00E-02	1.55E-02
129	565433.2	4222223	0.1529813	8.11E-02	2.01E-02	1.55E-02
130	565423.3	4222223	0.1532808	8.13E-02	2.01E-02	1.56E-02
131	565413.4	4222223	0.1532631	8.13E-02	2.01E-02	1.56E-02
132	565403.5	4222223	0.1528626	8.10E-02	2.01E-02	1.55E-02
133	565393.6	4222223	0.1513985	8.03E-02	1.99E-02	1.54E-02
134	565492.6	4222213	0.1060077	5.62E-02	1.39E-02	1.08E-02
135	565482.7	4222213	0.1096448	5.81E-02	1.44E-02	1.11E-02
136	565472.8	4222213	0.112918	5.99E-02	1.48E-02	1.15E-02
137	565462.9	4222213	0.1157509	6.14E-02	1.52E-02	1.18E-02
138	565453	4222213	0.1179899	6.26E-02	1.55E-02	1.20E-02

139	565443.1	4222213	0.119572	6.34E-02	1.57E-02	1.22E-02
140	565433.2	4222213	0.1206065	6.39E-02	1.58E-02	1.23E-02
141	565423.3	4222213	0.1211506	6.42E-02	1.59E-02	1.23E-02
142	565413.4	4222213	0.1213045	6.43E-02	1.59E-02	1.23E-02
143	565403.5	4222213	0.1210747	6.42E-02	1.59E-02	1.23E-02
144	565393.6	4222213	0.1201129	6.37E-02	1.58E-02	1.22E-02
145	565492.6	4222203	0.0877665	4.65E-02	1.15E-02	8.92E-03
146	565482.7	4222203	0.0898909	4.77E-02	1.18E-02	9.14E-03
147	565472.8	4222203	0.0919192	4.87E-02	1.21E-02	9.34E-03
148	565462.9	4222203	0.0938316	4.97E-02	1.23E-02	9.54E-03
149	565453	4222203	0.0955022	5.06E-02	1.25E-02	9.71E-03
150	565443.1	4222204	0.0968283	5.13E-02	1.27E-02	9.84E-03
151	565433.2	4222204	0.0977865	5.18E-02	1.28E-02	9.94E-03
152	565423.3	4222204	0.0983521	5.21E-02	1.29E-02	1.00E-02
153	565413.4	4222204	0.0985727	5.23E-02	1.29E-02	1.00E-02
154	565403.4	4222204	0.0984657	5.22E-02	1.29E-02	1.00E-02
155	565393.5	4222204	0.0978324	5.19E-02	1.28E-02	9.94E-03
156	565533.2	4222212	0.085841	4.55E-02	1.13E-02	8.72E-03
157	565492.6	4222194	0.0744611	3.95E-02	9.78E-03	7.57E-03
158	565482.7	4222194	0.0758122	4.02E-02	9.96E-03	7.70E-03
159	565472.8	4222194	0.0771038	4.09E-02	1.01E-02	7.84E-03
160	565462.9	4222194	0.07834	4.15E-02	1.03E-02	7.96E-03
161	565453	4222194	0.079464	4.21E-02	1.04E-02	8.08E-03
162	565443	4222194	0.0804228	4.26E-02	1.06E-02	8.17E-03
163	565433.1	4222194	0.0811352	4.30E-02	1.07E-02	8.25E-03
164	565423.2	4222194	0.0815939	4.33E-02	1.07E-02	8.29E-03
165	565413.3	4222194	0.0817976	4.34E-02	1.07E-02	8.31E-03
166	565403.4	4222194	0.0817518	4.33E-02	1.07E-02	8.31E-03
167	565393.5	4222194	0.0813411	4.31E-02	1.07E-02	8.27E-03
168	565540.9	4222207	0.0765877	4.06E-02	1.01E-02	7.78E-03
169	565544.5	4222215	0.0838975	4.45E-02	1.10E-02	8.53E-03
170	565548.1	4222224	0.091273	4.84E-02	1.20E-02	9.28E-03
171	565502.5	4222184	0.0632924	3.36E-02	8.31E-03	6.43E-03
172	565492.6	4222184	0.0642869	3.41E-02	8.44E-03	6.53E-03
173	565482.6	4222184	0.0651785	3.46E-02	8.56E-03	6.62E-03
174	565472.7	4222184	0.0660096	3.50E-02	8.67E-03	6.71E-03
175	565462.8	4222184	0.0667931	3.54E-02	8.77E-03	6.79E-03
176	565452.9	4222184	0.06752	3.58E-02	8.87E-03	6.86E-03
177	565443	4222184	0.0681363	3.61E-02	8.95E-03	6.92E-03
178	565433.1	4222184	0.0686158	3.64E-02	9.01E-03	6.97E-03
179	565423.2	4222184	0.0689349	3.65E-02	9.05E-03	7.01E-03
180	565413.3	4222184	0.0690817	3.66E-02	9.07E-03	7.02E-03
181	565403.4	4222184	0.0690536	3.66E-02	9.07E-03	7.02E-03
182	565393.5	4222184	0.0687678	3.65E-02	9.03E-03	6.99E-03
183	565535.9	4222188	0.0614272	3.26E-02	8.07E-03	6.24E-03
184	565547.7	4222199	0.0676559	3.59E-02	8.89E-03	6.88E-03
185	565554.6	4222216	0.079188	4.20E-02	1.04E-02	8.05E-03

186	565502.4	4222174	0.0555646	2.95E-02	7.30E-03	5.65E-03
187	565492.5	4222174	0.0562408	2.98E-02	7.39E-03	5.72E-03
188	565482.6	4222174	0.0568318	3.01E-02	7.46E-03	5.78E-03
189	565472.7	4222174	0.0573641	3.04E-02	7.53E-03	5.83E-03
190	565462.8	4222174	0.057857	3.07E-02	7.60E-03	5.88E-03
191	565452.9	4222174	0.0582929	3.09E-02	7.66E-03	5.92E-03
192	565443	4222174	0.0586653	3.11E-02	7.70E-03	5.96E-03
193	565433.1	4222174	0.0589559	3.13E-02	7.74E-03	5.99E-03
194	565423.2	4222174	0.0591472	3.14E-02	7.77E-03	6.01E-03
195	565413.3	4222174	0.0592289	3.14E-02	7.78E-03	6.02E-03
196	565403.4	4222174	0.059204	3.14E-02	7.78E-03	6.02E-03
197	565393.5	4222174	0.0589833	3.13E-02	7.75E-03	5.99E-03
198	565543	4222181	0.0554831	2.94E-02	7.29E-03	5.64E-03
199	565554.5	4222192	0.0605167	3.21E-02	7.95E-03	6.15E-03
200	565492.5	4222164	0.0497148	2.64E-02	6.53E-03	5.05E-03
201	565482.6	4222164	0.050102	2.66E-02	6.58E-03	5.09E-03
202	565472.7	4222164	0.0504348	2.67E-02	6.62E-03	5.13E-03
203	565462.8	4222164	0.0507292	2.69E-02	6.66E-03	5.16E-03
204	565452.9	4222164	0.0509769	2.70E-02	6.69E-03	5.18E-03
205	565443	4222164	0.0511802	2.71E-02	6.72E-03	5.20E-03
206	565433.1	4222164	0.0513322	2.72E-02	6.74E-03	5.22E-03
207	565423.2	4222164	0.0514237	2.73E-02	6.75E-03	5.23E-03
208	565413.3	4222164	0.0514547	2.73E-02	6.76E-03	5.23E-03
209	565403.4	4222164	0.0514066	2.73E-02	6.75E-03	5.22E-03
210	565393.5	4222164	0.0512309	2.72E-02	6.73E-03	5.21E-03
211	565542.2	4222171	0.0497544	2.64E-02	6.53E-03	5.06E-03
212	565492.5	4222154	0.0443216	2.35E-02	5.82E-03	4.50E-03
213	565482.6	4222154	0.0445679	2.36E-02	5.85E-03	4.53E-03
214	565472.7	4222154	0.0447709	2.37E-02	5.88E-03	4.55E-03
215	565462.8	4222154	0.0449284	2.38E-02	5.90E-03	4.57E-03
216	565452.9	4222154	0.0450515	2.39E-02	5.92E-03	4.58E-03
217	565443	4222154	0.0451418	2.39E-02	5.93E-03	4.59E-03
218	565433.1	4222154	0.0451982	2.40E-02	5.94E-03	4.59E-03
219	565423.2	4222154	0.0452233	2.40E-02	5.94E-03	4.60E-03
220	565413.2	4222154	0.0452028	2.40E-02	5.94E-03	4.59E-03
221	565403.3	4222154	0.0451396	2.39E-02	5.93E-03	4.59E-03
222	565393.4	4222154	0.0449906	2.39E-02	5.91E-03	4.57E-03
223	565538.2	4222159	0.0444321	2.36E-02	5.84E-03	4.52E-03
224	565556.1	4222166	0.0461032	2.44E-02	6.05E-03	4.69E-03
225	565502.4	4222144	0.0396006	2.10E-02	5.20E-03	4.02E-03
226	565492.5	4222144	0.0397994	2.11E-02	5.23E-03	4.04E-03
227	565482.6	4222144	0.0399518	2.12E-02	5.25E-03	4.06E-03
228	565472.7	4222144	0.0400575	2.12E-02	5.26E-03	4.07E-03
229	565462.7	4222144	0.0401282	2.13E-02	5.27E-03	4.08E-03
230	565452.8	4222144	0.0401698	2.13E-02	5.28E-03	4.08E-03
231	565442.9	4222144	0.0401863	2.13E-02	5.28E-03	4.08E-03
232	565433	4222144	0.0401796	2.13E-02	5.28E-03	4.08E-03

233	565423.1	4222145	0.040155	2.13E-02	5.27E-03	4.08E-03
234	565413.2	4222145	0.0401031	2.13E-02	5.27E-03	4.08E-03
235	565403.3	4222145	0.0400277	2.12E-02	5.26E-03	4.07E-03
236	565393.4	4222145	0.0398954	2.12E-02	5.24E-03	4.05E-03
237	565537.2	4222149	0.0401248	2.13E-02	5.27E-03	4.08E-03
238	565545.9	4222152	0.0410121	2.17E-02	5.39E-03	4.17E-03
239	565554.6	4222156	0.0417787	2.22E-02	5.49E-03	4.25E-03
240	565502.3	4222135	0.0358412	1.90E-02	4.71E-03	3.64E-03
241	565492.4	4222135	0.035963	1.91E-02	4.72E-03	3.65E-03
242	565482.5	4222135	0.0360457	1.91E-02	4.73E-03	3.66E-03
243	565472.6	4222135	0.0360887	1.91E-02	4.74E-03	3.67E-03
244	565462.7	4222135	0.0361018	1.91E-02	4.74E-03	3.67E-03
245	565452.8	4222135	0.0360909	1.91E-02	4.74E-03	3.67E-03
246	565442.9	4222135	0.0360603	1.91E-02	4.74E-03	3.66E-03
247	565433	4222135	0.0360176	1.91E-02	4.73E-03	3.66E-03
248	565423.1	4222135	0.0359573	1.91E-02	4.72E-03	3.65E-03
249	565413.2	4222135	0.0358853	1.90E-02	4.71E-03	3.65E-03
250	565403.3	4222135	0.0358018	1.90E-02	4.70E-03	3.64E-03
251	565393.4	4222135	0.0356808	1.89E-02	4.69E-03	3.63E-03
252	565536.4	4222139	0.0364192	1.93E-02	4.78E-03	3.70E-03
253	565544.9	4222142	0.0372526	1.98E-02	4.89E-03	3.79E-03
254	565553.4	4222146	0.0379995	2.01E-02	4.99E-03	3.86E-03
255	565502.3	4222125	0.0326099	1.73E-02	4.28E-03	3.31E-03
256	565492.4	4222125	0.0326798	1.73E-02	4.29E-03	3.32E-03
257	565482.5	4222125	0.0327105	1.73E-02	4.30E-03	3.32E-03
258	565472.6	4222125	0.032711	1.73E-02	4.30E-03	3.32E-03
259	565462.7	4222125	0.0326865	1.73E-02	4.29E-03	3.32E-03
260	565452.8	4222125	0.0326423	1.73E-02	4.29E-03	3.32E-03
261	565442.9	4222125	0.0325861	1.73E-02	4.28E-03	3.31E-03
262	565433	4222125	0.0325155	1.72E-02	4.27E-03	3.30E-03
263	565423.1	4222125	0.0324354	1.72E-02	4.26E-03	3.30E-03
264	565413.2	4222125	0.032351	1.72E-02	4.25E-03	3.29E-03
265	565403.3	4222125	0.0322619	1.71E-02	4.24E-03	3.28E-03
266	565393.4	4222125	0.0321506	1.70E-02	4.22E-03	3.27E-03
267	565535.7	4222129	0.0332114	1.76E-02	4.36E-03	3.38E-03
268	565544.1	4222132	0.0339792	1.80E-02	4.46E-03	3.45E-03
269	565552.4	4222135	0.0346897	1.84E-02	4.56E-03	3.53E-03
270	565560.8	4222139	0.035329	1.87E-02	4.64E-03	3.59E-03
271	565502.3	4222115	0.029813	1.58E-02	3.92E-03	3.03E-03
272	565492.4	4222115	0.0298406	1.58E-02	3.92E-03	3.03E-03
273	565482.5	4222115	0.0298378	1.58E-02	3.92E-03	3.03E-03
274	565472.6	4222115	0.0298099	1.58E-02	3.91E-03	3.03E-03
275	565462.7	4222115	0.0297613	1.58E-02	3.91E-03	3.02E-03
276	565452.8	4222115	0.0296967	1.57E-02	3.90E-03	3.02E-03
277	565442.9	4222115	0.0296232	1.57E-02	3.89E-03	3.01E-03
278	565433	4222115	0.0295386	1.57E-02	3.88E-03	3.00E-03
279	565423.1	4222115	0.0294433	1.56E-02	3.87E-03	2.99E-03

280	565413.2	4222115	0.0293456	1.56E-02	3.85E-03	2.98E-03
281	565403.3	4222115	0.0292495	1.55E-02	3.84E-03	2.97E-03
282	565393.3	4222115	0.0291526	1.55E-02	3.83E-03	2.96E-03
283	565547.5	4222124	0.0314561	1.67E-02	4.13E-03	3.20E-03
284	565556.6	4222127	0.0321583	1.71E-02	4.22E-03	3.27E-03
285	565502.3	4222105	0.0273707	1.45E-02	3.59E-03	2.78E-03
286	565492.4	4222105	0.0273703	1.45E-02	3.59E-03	2.78E-03
287	565482.5	4222105	0.0273447	1.45E-02	3.59E-03	2.78E-03
288	565472.6	4222105	0.0272981	1.45E-02	3.59E-03	2.77E-03
289	565462.7	4222105	0.0272347	1.44E-02	3.58E-03	2.77E-03
290	565452.8	4222105	0.0271608	1.44E-02	3.57E-03	2.76E-03
291	565442.9	4222105	0.0270756	1.44E-02	3.56E-03	2.75E-03
292	565432.9	4222105	0.0269842	1.43E-02	3.54E-03	2.74E-03
293	565423	4222105	0.0268802	1.43E-02	3.53E-03	2.73E-03
294	565413.1	4222105	0.026776	1.42E-02	3.52E-03	2.72E-03
295	565403.2	4222105	0.0266767	1.41E-02	3.50E-03	2.71E-03
296	565393.3	4222105	0.0265894	1.41E-02	3.49E-03	2.70E-03
297	565383.4	4222105	0.0265087	1.41E-02	3.48E-03	2.69E-03
298	565373.5	4222105	0.0264362	1.40E-02	3.47E-03	2.69E-03
299	565363.6	4222105	0.0263796	1.40E-02	3.46E-03	2.68E-03
300	565353.7	4222105	0.0263319	1.40E-02	3.46E-03	2.68E-03
301	565343.8	4222105	0.0262953	1.39E-02	3.45E-03	2.67E-03
302	565333.9	4222105	0.0262415	1.39E-02	3.45E-03	2.67E-03
303	565324	4222105	0.0261936	1.39E-02	3.44E-03	2.66E-03
304	565314.1	4222105	0.0261501	1.39E-02	3.43E-03	2.66E-03
305	565304.2	4222105	0.0261368	1.39E-02	3.43E-03	2.66E-03
306	565294.3	4222105	0.0261274	1.39E-02	3.43E-03	2.66E-03
307	565284.4	4222105	0.0261136	1.38E-02	3.43E-03	2.65E-03
308	565537.7	4222110	0.0281992	1.50E-02	3.70E-03	2.87E-03
309	565546.6	4222113	0.0288898	1.53E-02	3.79E-03	2.94E-03
310	565555.4	4222117	0.0295438	1.57E-02	3.88E-03	3.00E-03
311	565502.3	4222095	0.025227	1.34E-02	3.31E-03	2.56E-03
312	565492.4	4222095	0.0252071	1.34E-02	3.31E-03	2.56E-03
313	565482.5	4222095	0.0251662	1.33E-02	3.31E-03	2.56E-03
314	565472.5	4222095	0.0251079	1.33E-02	3.30E-03	2.55E-03
315	565462.6	4222095	0.025038	1.33E-02	3.29E-03	2.54E-03
316	565452.7	4222095	0.0249557	1.32E-02	3.28E-03	2.54E-03
317	565442.8	4222095	0.0248669	1.32E-02	3.27E-03	2.53E-03
318	565432.9	4222095	0.0247734	1.31E-02	3.25E-03	2.52E-03
319	565423	4222095	0.0246661	1.31E-02	3.24E-03	2.51E-03
320	565413.1	4222095	0.0245589	1.30E-02	3.23E-03	2.50E-03
321	565403.2	4222095	0.0244577	1.30E-02	3.21E-03	2.49E-03
322	565393.3	4222095	0.0243804	1.29E-02	3.20E-03	2.48E-03
323	565383.4	4222095	0.0243116	1.29E-02	3.19E-03	2.47E-03
324	565373.5	4222095	0.0242518	1.29E-02	3.18E-03	2.46E-03
325	565363.6	4222095	0.0242011	1.28E-02	3.18E-03	2.46E-03
326	565353.7	4222095	0.0241623	1.28E-02	3.17E-03	2.46E-03

327	565343.8	4222096	0.024131	1.28E-02	3.17E-03	2.45E-03
328	565333.9	4222096	0.0240908	1.28E-02	3.16E-03	2.45E-03
329	565324	4222096	0.0240561	1.28E-02	3.16E-03	2.44E-03
330	565314.1	4222096	0.0240279	1.27E-02	3.16E-03	2.44E-03
331	565304.2	4222096	0.0240265	1.27E-02	3.16E-03	2.44E-03
332	565294.3	4222096	0.0240303	1.27E-02	3.16E-03	2.44E-03
333	565284.4	4222096	0.0240318	1.27E-02	3.16E-03	2.44E-03
334	565537.1	4222100	0.0259972	1.38E-02	3.41E-03	2.64E-03
335	565545.8	4222103	0.0266287	1.41E-02	3.50E-03	2.71E-03
336	565554.5	4222107	0.027233	1.44E-02	3.58E-03	2.77E-03
337	565563.2	4222110	0.0278021	1.47E-02	3.65E-03	2.83E-03
338	565502.2	4222085	0.023335	1.24E-02	3.06E-03	2.37E-03
339	565492.3	4222085	0.0233017	1.24E-02	3.06E-03	2.37E-03
340	565482.4	4222085	0.0232508	1.23E-02	3.05E-03	2.36E-03
341	565472.5	4222085	0.0231875	1.23E-02	3.05E-03	2.36E-03
342	565462.6	4222085	0.0231111	1.23E-02	3.04E-03	2.35E-03
343	565452.7	4222085	0.0230268	1.22E-02	3.02E-03	2.34E-03
344	565442.8	4222085	0.0229376	1.22E-02	3.01E-03	2.33E-03
345	565432.9	4222085	0.0228454	1.21E-02	3.00E-03	2.32E-03
346	565423	4222085	0.0227423	1.21E-02	2.99E-03	2.31E-03
347	565413.1	4222086	0.0226423	1.20E-02	2.97E-03	2.30E-03
348	565403.2	4222086	0.0225451	1.20E-02	2.96E-03	2.29E-03
349	565393.3	4222086	0.0224716	1.19E-02	2.95E-03	2.28E-03
350	565383.4	4222086	0.0224067	1.19E-02	2.94E-03	2.28E-03
351	565373.5	4222086	0.0223512	1.19E-02	2.94E-03	2.27E-03
352	565363.6	4222086	0.0223011	1.18E-02	2.93E-03	2.27E-03
353	565353.7	4222086	0.0222593	1.18E-02	2.92E-03	2.26E-03
354	565343.8	4222086	0.0222278	1.18E-02	2.92E-03	2.26E-03
355	565333.9	4222086	0.0221993	1.18E-02	2.92E-03	2.26E-03
356	565323.9	4222086	0.0221797	1.18E-02	2.91E-03	2.25E-03
357	565314	4222086	0.0221673	1.18E-02	2.91E-03	2.25E-03
358	565304.1	4222086	0.0221749	1.18E-02	2.91E-03	2.25E-03
359	565294.2	4222086	0.0221848	1.18E-02	2.91E-03	2.25E-03
360	565284.3	4222086	0.0221959	1.18E-02	2.91E-03	2.26E-03
361	565536.5	4222090	0.0240497	1.28E-02	3.16E-03	2.44E-03
362	565545.1	4222093	0.0246266	1.31E-02	3.23E-03	2.50E-03
363	565553.6	4222097	0.0251823	1.34E-02	3.31E-03	2.56E-03
364	565562.2	4222100	0.0257148	1.36E-02	3.38E-03	2.61E-03
365	565502.2	4222075	0.0216568	1.15E-02	2.84E-03	2.20E-03
366	565492.3	4222075	0.0216145	1.15E-02	2.84E-03	2.20E-03
367	565482.4	4222076	0.0215575	1.14E-02	2.83E-03	2.19E-03
368	565472.5	4222076	0.0214904	1.14E-02	2.82E-03	2.18E-03
369	565462.6	4222076	0.0214126	1.14E-02	2.81E-03	2.18E-03
370	565452.7	4222076	0.0213287	1.13E-02	2.80E-03	2.17E-03
371	565442.8	4222076	0.0212412	1.13E-02	2.79E-03	2.16E-03
372	565432.9	4222076	0.0211519	1.12E-02	2.78E-03	2.15E-03
373	565423	4222076	0.0210556	1.12E-02	2.77E-03	2.14E-03

374	565413.1	4222076	0.0209597	1.11E-02	2.75E-03	2.13E-03
375	565403.2	4222076	0.0208686	1.11E-02	2.74E-03	2.12E-03
376	565393.3	4222076	0.0207989	1.10E-02	2.73E-03	2.11E-03
377	565383.4	4222076	0.0207377	1.10E-02	2.72E-03	2.11E-03
378	565373.5	4222076	0.0206852	1.10E-02	2.72E-03	2.10E-03
379	565363.5	4222076	0.0206342	1.09E-02	2.71E-03	2.10E-03
380	565353.6	4222076	0.0205906	1.09E-02	2.70E-03	2.09E-03
381	565343.7	4222076	0.0205569	1.09E-02	2.70E-03	2.09E-03
382	565333.8	4222076	0.0205384	1.09E-02	2.70E-03	2.09E-03
383	565323.9	4222076	0.0205291	1.09E-02	2.70E-03	2.09E-03
384	565314	4222076	0.0205286	1.09E-02	2.70E-03	2.09E-03
385	565304.1	4222076	0.0205386	1.09E-02	2.70E-03	2.09E-03
386	565294.2	4222076	0.0205531	1.09E-02	2.70E-03	2.09E-03
387	565284.3	4222076	0.0205699	1.09E-02	2.70E-03	2.09E-03
388	565538.6	4222081	0.0224815	1.19E-02	2.95E-03	2.28E-03
389	565556.8	4222088	0.0235879	1.25E-02	3.10E-03	2.40E-03
390	565502.2	4222066	0.0201611	1.07E-02	2.65E-03	2.05E-03
391	565492.3	4222066	0.020113	1.07E-02	2.64E-03	2.04E-03
392	565482.4	4222066	0.0200541	1.06E-02	2.63E-03	2.04E-03
393	565472.5	4222066	0.0199842	1.06E-02	2.62E-03	2.03E-03
394	565462.6	4222066	0.0199069	1.06E-02	2.61E-03	2.02E-03
395	565452.7	4222066	0.0198247	1.05E-02	2.60E-03	2.01E-03
396	565442.8	4222066	0.0197402	1.05E-02	2.59E-03	2.01E-03
397	565432.9	4222066	0.0196562	1.04E-02	2.58E-03	2.00E-03
398	565423	4222066	0.0195639	1.04E-02	2.57E-03	1.99E-03
399	565413.1	4222066	0.0194742	1.03E-02	2.56E-03	1.98E-03
400	565403.1	4222066	0.0193891	1.03E-02	2.55E-03	1.97E-03
401	565393.2	4222066	0.0193233	1.02E-02	2.54E-03	1.96E-03
402	565383.3	4222066	0.0192655	1.02E-02	2.53E-03	1.96E-03
403	565373.4	4222066	0.0192174	1.02E-02	2.52E-03	1.95E-03
404	565363.5	4222066	0.0191643	1.02E-02	2.52E-03	1.95E-03
405	565353.6	4222066	0.0191193	1.01E-02	2.51E-03	1.94E-03
406	565343.7	4222066	0.0190827	1.01E-02	2.51E-03	1.94E-03
407	565333.8	4222066	0.0190718	1.01E-02	2.50E-03	1.94E-03
408	565323.9	4222066	0.0190704	1.01E-02	2.50E-03	1.94E-03
409	565314	4222066	0.0190758	1.01E-02	2.51E-03	1.94E-03
410	565304.1	4222066	0.0190876	1.01E-02	2.51E-03	1.94E-03
411	565294.2	4222066	0.0191042	1.01E-02	2.51E-03	1.94E-03
412	565284.3	4222066	0.0191238	1.01E-02	2.51E-03	1.94E-03
413	565538	4222071	0.0209118	1.11E-02	2.75E-03	2.13E-03
414	565546.9	4222074	0.0214243	1.14E-02	2.81E-03	2.18E-03
415	565555.9	4222078	0.0219226	1.16E-02	2.88E-03	2.23E-03
416	565564.8	4222082	0.0224039	1.19E-02	2.94E-03	2.28E-03
417	565502.2	4222056	0.0188223	9.98E-03	2.47E-03	1.91E-03
418	565492.3	4222056	0.0187721	9.95E-03	2.47E-03	1.91E-03
419	565482.4	4222056	0.0187103	9.92E-03	2.46E-03	1.90E-03
420	565472.5	4222056	0.0186407	9.88E-03	2.45E-03	1.89E-03

421	565462.6	4222056	0.018565	9.84E-03	2.44E-03	1.89E-03
422	565452.6	4222056	0.0184829	9.80E-03	2.43E-03	1.88E-03
423	565442.7	4222056	0.0183995	9.76E-03	2.42E-03	1.87E-03
424	565432.8	4222056	0.0183171	9.71E-03	2.41E-03	1.86E-03
425	565422.9	4222056	0.0182325	9.67E-03	2.39E-03	1.85E-03
426	565413	4222056	0.0181512	9.62E-03	2.38E-03	1.84E-03
427	565403.1	4222056	0.0180756	9.58E-03	2.37E-03	1.84E-03
428	565393.2	4222056	0.0180134	9.55E-03	2.37E-03	1.83E-03
429	565383.3	4222056	0.0179601	9.52E-03	2.36E-03	1.83E-03
430	565373.4	4222056	0.0179134	9.50E-03	2.35E-03	1.82E-03
431	565363.5	4222056	0.0178682	9.47E-03	2.35E-03	1.82E-03
432	565353.6	4222056	0.0178312	9.45E-03	2.34E-03	1.81E-03
433	565343.7	4222056	0.017803	9.44E-03	2.34E-03	1.81E-03
434	565333.8	4222056	0.0177879	9.43E-03	2.34E-03	1.81E-03
435	565323.9	4222056	0.017782	9.43E-03	2.34E-03	1.81E-03
436	565314	4222056	0.0177828	9.43E-03	2.34E-03	1.81E-03
437	565304.1	4222056	0.0177948	9.43E-03	2.34E-03	1.81E-03
438	565294.2	4222056	0.0178119	9.44E-03	2.34E-03	1.81E-03
439	565284.3	4222056	0.0178325	9.45E-03	2.34E-03	1.81E-03
440	565537.4	4222060	0.0195067	1.03E-02	2.56E-03	1.98E-03
441	565546.2	4222064	0.0199731	1.06E-02	2.62E-03	2.03E-03
442	565555.1	4222068	0.0204308	1.08E-02	2.68E-03	2.08E-03
443	565563.9	4222071	0.0208763	1.11E-02	2.74E-03	2.12E-03
444	565502.2	4222046	0.0176192	9.34E-03	2.31E-03	1.79E-03
445	565492.2	4222046	0.0175671	9.31E-03	2.31E-03	1.79E-03
446	565482.3	4222046	0.0175052	9.28E-03	2.30E-03	1.78E-03
447	565472.4	4222046	0.0174369	9.25E-03	2.29E-03	1.77E-03
448	565462.5	4222046	0.0173633	9.21E-03	2.28E-03	1.76E-03
449	565452.6	4222046	0.0172828	9.16E-03	2.27E-03	1.76E-03
450	565442.7	4222046	0.0172018	9.12E-03	2.26E-03	1.75E-03
451	565432.8	4222046	0.0171202	9.08E-03	2.25E-03	1.74E-03
452	565422.9	4222046	0.0170435	9.04E-03	2.24E-03	1.73E-03
453	565413	4222046	0.0169705	9.00E-03	2.23E-03	1.72E-03
454	565403.1	4222046	0.0169028	8.96E-03	2.22E-03	1.72E-03
455	565393.2	4222046	0.0168443	8.93E-03	2.21E-03	1.71E-03
456	565383.3	4222046	0.016794	8.90E-03	2.21E-03	1.71E-03
457	565373.4	4222046	0.01675	8.88E-03	2.20E-03	1.70E-03
458	565363.5	4222046	0.0167108	8.86E-03	2.19E-03	1.70E-03
459	565353.6	4222046	0.0166799	8.84E-03	2.19E-03	1.70E-03
460	565343.7	4222046	0.0166574	8.83E-03	2.19E-03	1.69E-03
461	565333.8	4222046	0.0166406	8.82E-03	2.19E-03	1.69E-03
462	565323.9	4222046	0.0166303	8.82E-03	2.18E-03	1.69E-03
463	565314	4222046	0.0166271	8.82E-03	2.18E-03	1.69E-03
464	565304.1	4222046	0.0166381	8.82E-03	2.19E-03	1.69E-03
465	565294.1	4222046	0.0166547	8.83E-03	2.19E-03	1.69E-03
466	565284.2	4222046	0.016675	8.84E-03	2.19E-03	1.69E-03
467	565536.9	4222050	0.0182447	9.67E-03	2.40E-03	1.85E-03

468	565545.6	4222054	0.0186715	9.90E-03	2.45E-03	1.90E-03
469	565554.4	4222058	0.019091	1.01E-02	2.51E-03	1.94E-03
470	565563.1	4222061	0.0195019	1.03E-02	2.56E-03	1.98E-03
471	565502.1	4222036	0.0165347	8.77E-03	2.17E-03	1.68E-03
472	565492.2	4222036	0.016481	8.74E-03	2.16E-03	1.67E-03
473	565482.3	4222036	0.01642	8.71E-03	2.16E-03	1.67E-03
474	565472.4	4222036	0.0163537	8.67E-03	2.15E-03	1.66E-03
475	565462.5	4222036	0.016283	8.63E-03	2.14E-03	1.65E-03
476	565452.6	4222036	0.0162053	8.59E-03	2.13E-03	1.65E-03
477	565442.7	4222036	0.0161249	8.55E-03	2.12E-03	1.64E-03
478	565432.8	4222036	0.0160452	8.51E-03	2.11E-03	1.63E-03
479	565422.9	4222036	0.0159764	8.47E-03	2.10E-03	1.62E-03
480	565413	4222036	0.015911	8.44E-03	2.09E-03	1.62E-03
481	565403.1	4222036	0.0158505	8.40E-03	2.08E-03	1.61E-03
482	565393.2	4222036	0.0157965	8.38E-03	2.07E-03	1.61E-03
483	565383.3	4222036	0.0157479	8.35E-03	2.07E-03	1.60E-03
484	565373.4	4222036	0.0157063	8.33E-03	2.06E-03	1.60E-03
485	565363.5	4222036	0.0156722	8.31E-03	2.06E-03	1.59E-03
486	565353.6	4222036	0.0156458	8.30E-03	2.05E-03	1.59E-03
487	565343.7	4222036	0.015628	8.29E-03	2.05E-03	1.59E-03
488	565333.7	4222036	0.0156083	8.28E-03	2.05E-03	1.59E-03
489	565323.8	4222037	0.0155956	8.27E-03	2.05E-03	1.58E-03
490	565313.9	4222037	0.0155889	8.27E-03	2.05E-03	1.58E-03
491	565304	4222037	0.0155988	8.27E-03	2.05E-03	1.59E-03
492	565294.1	4222037	0.0156143	8.28E-03	2.05E-03	1.59E-03
493	565284.2	4222037	0.0156347	8.29E-03	2.05E-03	1.59E-03
494	565538.7	4222041	0.0172045	9.12E-03	2.26E-03	1.75E-03
495	565547.8	4222045	0.0176171	9.34E-03	2.31E-03	1.79E-03
496	565566.1	4222053	0.0184252	9.77E-03	2.42E-03	1.87E-03
497	565502.1	4222026	0.0155518	8.25E-03	2.04E-03	1.58E-03
498	565492.2	4222026	0.0154981	8.22E-03	2.04E-03	1.58E-03
499	565482.3	4222026	0.0154367	8.18E-03	2.03E-03	1.57E-03
500	565472.4	4222026	0.015371	8.15E-03	2.02E-03	1.56E-03
501	565462.5	4222026	0.0153018	8.11E-03	2.01E-03	1.56E-03
502	565452.6	4222026	0.01523	8.07E-03	2.00E-03	1.55E-03
503	565442.7	4222026	0.0151566	8.04E-03	1.99E-03	1.54E-03
504	565432.8	4222026	0.0150846	8.00E-03	1.98E-03	1.53E-03
505	565422.9	4222026	0.0150199	7.96E-03	1.97E-03	1.53E-03
506	565413	4222026	0.0149587	7.93E-03	1.96E-03	1.52E-03
507	565403.1	4222027	0.0149027	7.90E-03	1.96E-03	1.51E-03
508	565393.2	4222027	0.0148511	7.87E-03	1.95E-03	1.51E-03
509	565383.2	4222027	0.0148052	7.85E-03	1.94E-03	1.50E-03
510	565373.3	4222027	0.0147658	7.83E-03	1.94E-03	1.50E-03
511	565363.4	4222027	0.0147306	7.81E-03	1.93E-03	1.50E-03
512	565353.5	4222027	0.0147025	7.80E-03	1.93E-03	1.49E-03
513	565343.6	4222027	0.0146828	7.78E-03	1.93E-03	1.49E-03
514	565333.7	4222027	0.014666	7.78E-03	1.93E-03	1.49E-03

515	565323.8	4222027	0.0146562	7.77E-03	1.92E-03	1.49E-03
516	565313.9	4222027	0.0146527	7.77E-03	1.92E-03	1.49E-03
517	565304	4222027	0.0146614	7.77E-03	1.93E-03	1.49E-03
518	565294.1	4222027	0.0146763	7.78E-03	1.93E-03	1.49E-03
519	565284.2	4222027	0.0146944	7.79E-03	1.93E-03	1.49E-03
520	565538.1	4222031	0.0161609	8.57E-03	2.12E-03	1.64E-03
521	565547.1	4222035	0.0165384	8.77E-03	2.17E-03	1.68E-03
522	565556.2	4222039	0.0169124	8.97E-03	2.22E-03	1.72E-03
523	565565.2	4222042	0.0172808	9.16E-03	2.27E-03	1.76E-03
524	565502.1	4222016	0.014659	7.77E-03	1.93E-03	1.49E-03
525	565492.2	4222016	0.0146061	7.74E-03	1.92E-03	1.48E-03
526	565482.3	4222016	0.014545	7.71E-03	1.91E-03	1.48E-03
527	565472.4	4222017	0.0144799	7.68E-03	1.90E-03	1.47E-03
528	565462.5	4222017	0.0144133	7.64E-03	1.89E-03	1.46E-03
529	565452.6	4222017	0.0143465	7.61E-03	1.88E-03	1.46E-03
530	565442.7	4222017	0.0142796	7.57E-03	1.88E-03	1.45E-03
531	565432.8	4222017	0.0142144	7.54E-03	1.87E-03	1.44E-03
532	565422.8	4222017	0.0141538	7.50E-03	1.86E-03	1.44E-03
533	565412.9	4222017	0.0140972	7.47E-03	1.85E-03	1.43E-03
534	565403	4222017	0.0140439	7.45E-03	1.84E-03	1.43E-03
535	565393.1	4222017	0.0139953	7.42E-03	1.84E-03	1.42E-03
536	565383.2	4222017	0.0139521	7.40E-03	1.83E-03	1.42E-03
537	565373.3	4222017	0.0139146	7.38E-03	1.83E-03	1.41E-03
538	565363.4	4222017	0.0138789	7.36E-03	1.82E-03	1.41E-03
539	565353.5	4222017	0.0138501	7.34E-03	1.82E-03	1.41E-03
540	565343.6	4222017	0.0138273	7.33E-03	1.82E-03	1.41E-03
541	565333.7	4222017	0.0138134	7.32E-03	1.81E-03	1.40E-03
542	565323.8	4222017	0.0138063	7.32E-03	1.81E-03	1.40E-03
543	565313.9	4222017	0.0138051	7.32E-03	1.81E-03	1.40E-03
544	565304	4222017	0.0138135	7.32E-03	1.81E-03	1.40E-03
545	565294.1	4222017	0.0138259	7.33E-03	1.82E-03	1.41E-03
546	565284.2	4222017	0.0138424	7.34E-03	1.82E-03	1.41E-03
547	565537.7	4222021	0.0152152	8.07E-03	2.00E-03	1.55E-03
548	565546.5	4222025	0.0155606	8.25E-03	2.04E-03	1.58E-03
549	565555.4	4222029	0.0159038	8.43E-03	2.09E-03	1.62E-03
550	565564.3	4222032	0.0162432	8.61E-03	2.13E-03	1.65E-03
551	565502.1	4222007	0.0138454	7.34E-03	1.82E-03	1.41E-03
552	565492.2	4222007	0.0137936	7.31E-03	1.81E-03	1.40E-03
553	565482.3	4222007	0.0137331	7.28E-03	1.80E-03	1.40E-03
554	565472.4	4222007	0.0136699	7.25E-03	1.80E-03	1.39E-03
555	565462.4	4222007	0.0136038	7.21E-03	1.79E-03	1.38E-03
556	565452.5	4222007	0.013543	7.18E-03	1.78E-03	1.38E-03
557	565442.6	4222007	0.0134824	7.15E-03	1.77E-03	1.37E-03
558	565432.7	4222007	0.0134234	7.12E-03	1.76E-03	1.36E-03
559	565422.8	4222007	0.0133665	7.09E-03	1.76E-03	1.36E-03
560	565412.9	4222007	0.0133134	7.06E-03	1.75E-03	1.35E-03
561	565403	4222007	0.0132633	7.03E-03	1.74E-03	1.35E-03

562	565393.1	4222007	0.0132177	7.01E-03	1.74E-03	1.34E-03
563	565383.2	4222007	0.013177	6.99E-03	1.73E-03	1.34E-03
564	565373.3	4222007	0.0131415	6.97E-03	1.73E-03	1.34E-03
565	565363.4	4222007	0.0131059	6.95E-03	1.72E-03	1.33E-03
566	565353.5	4222007	0.0130752	6.93E-03	1.72E-03	1.33E-03
567	565343.6	4222007	0.0130502	6.92E-03	1.71E-03	1.33E-03
568	565333.7	4222007	0.0130396	6.91E-03	1.71E-03	1.33E-03
569	565323.8	4222007	0.0130346	6.91E-03	1.71E-03	1.32E-03
570	565313.9	4222007	0.0130354	6.91E-03	1.71E-03	1.32E-03
571	565304	4222007	0.0130424	6.92E-03	1.71E-03	1.33E-03
572	565294.1	4222007	0.0130532	6.92E-03	1.71E-03	1.33E-03
573	565284.2	4222007	0.0130679	6.93E-03	1.72E-03	1.33E-03
574	565537.2	4222011	0.0143538	7.61E-03	1.89E-03	1.46E-03
575	565546	4222015	0.0146709	7.78E-03	1.93E-03	1.49E-03
576	565554.8	4222018	0.0149869	7.95E-03	1.97E-03	1.52E-03
577	565563.6	4222022	0.0153002	8.11E-03	2.01E-03	1.55E-03
578	565502	4221997	0.0131017	6.95E-03	1.72E-03	1.33E-03
579	565492.1	4221997	0.0130515	6.92E-03	1.71E-03	1.33E-03
580	565482.2	4221997	0.0129945	6.89E-03	1.71E-03	1.32E-03
581	565472.3	4221997	0.0129336	6.86E-03	1.70E-03	1.31E-03
582	565462.4	4221997	0.0128713	6.82E-03	1.69E-03	1.31E-03
583	565452.5	4221997	0.0128139	6.79E-03	1.68E-03	1.30E-03
584	565442.6	4221997	0.0127571	6.76E-03	1.68E-03	1.30E-03
585	565432.7	4221997	0.0127016	6.73E-03	1.67E-03	1.29E-03
586	565422.8	4221997	0.012649	6.71E-03	1.66E-03	1.29E-03
587	565412.9	4221997	0.0125985	6.68E-03	1.65E-03	1.28E-03
588	565403	4221997	0.0125513	6.65E-03	1.65E-03	1.28E-03
589	565393.1	4221997	0.0125064	6.63E-03	1.64E-03	1.27E-03
590	565383.2	4221997	0.0124662	6.61E-03	1.64E-03	1.27E-03
591	565373.3	4221997	0.0124313	6.59E-03	1.63E-03	1.26E-03
592	565363.4	4221997	0.0123987	6.57E-03	1.63E-03	1.26E-03
593	565353.5	4221997	0.0123715	6.56E-03	1.62E-03	1.26E-03
594	565343.6	4221997	0.0123497	6.55E-03	1.62E-03	1.26E-03
595	565333.7	4221997	0.0123389	6.54E-03	1.62E-03	1.25E-03
596	565323.8	4221997	0.0123337	6.54E-03	1.62E-03	1.25E-03
597	565313.8	4221997	0.0123345	6.54E-03	1.62E-03	1.25E-03
598	565303.9	4221997	0.0123394	6.54E-03	1.62E-03	1.25E-03
599	565294	4221997	0.0123487	6.55E-03	1.62E-03	1.25E-03
600	565284.1	4221997	0.0123617	6.55E-03	1.62E-03	1.26E-03
601	565536.8	4222001	0.0135679	7.19E-03	1.78E-03	1.38E-03
602	565545.5	4222005	0.0138594	7.35E-03	1.82E-03	1.41E-03
603	565554.2	4222008	0.0141504	7.50E-03	1.86E-03	1.44E-03
604	565562.9	4222012	0.0144404	7.66E-03	1.90E-03	1.47E-03
605	565502	4221987	0.01242	6.59E-03	1.63E-03	1.26E-03
606	565492.1	4221987	0.0123716	6.56E-03	1.62E-03	1.26E-03
607	565482.2	4221987	0.0123173	6.53E-03	1.62E-03	1.25E-03
608	565472.3	4221987	0.0122596	6.50E-03	1.61E-03	1.25E-03

609	565462.4	4221987	0.0122008	6.47E-03	1.60E-03	1.24E-03
610	565452.5	4221987	0.0121467	6.44E-03	1.60E-03	1.23E-03
611	565442.6	4221987	0.0120932	6.41E-03	1.59E-03	1.23E-03
612	565432.7	4221987	0.0120417	6.38E-03	1.58E-03	1.22E-03
613	565422.8	4221987	0.0119916	6.36E-03	1.57E-03	1.22E-03
614	565412.9	4221987	0.0119442	6.33E-03	1.57E-03	1.21E-03
615	565403	4221987	0.0118997	6.31E-03	1.56E-03	1.21E-03
616	565393.1	4221987	0.0118556	6.29E-03	1.56E-03	1.20E-03
617	565383.2	4221987	0.0118156	6.26E-03	1.55E-03	1.20E-03
618	565373.3	4221987	0.0117808	6.25E-03	1.55E-03	1.20E-03
619	565363.4	4221987	0.0117519	6.23E-03	1.54E-03	1.19E-03
620	565353.4	4221987	0.011728	6.22E-03	1.54E-03	1.19E-03
621	565343.5	4221987	0.0117094	6.21E-03	1.54E-03	1.19E-03
622	565333.6	4221987	0.0116986	6.20E-03	1.54E-03	1.19E-03
623	565323.7	4221987	0.0116936	6.20E-03	1.54E-03	1.19E-03
624	565313.8	4221987	0.0116928	6.20E-03	1.54E-03	1.19E-03
625	565303.9	4221987	0.0116966	6.20E-03	1.54E-03	1.19E-03
626	565294	4221987	0.0117044	6.21E-03	1.54E-03	1.19E-03
627	565284.1	4221987	0.0117158	6.21E-03	1.54E-03	1.19E-03
628	565538.2	4221992	0.0129027	6.84E-03	1.69E-03	1.31E-03
629	565547.3	4221996	0.0131846	6.99E-03	1.73E-03	1.34E-03
630	565556.3	4221999	0.013467	7.14E-03	1.77E-03	1.37E-03
631	565565.4	4222003	0.0137471	7.29E-03	1.81E-03	1.40E-03
632	565601.6	4222018	0.0148313	7.86E-03	1.95E-03	1.51E-03
633	565502	4221977	0.0117935	6.25E-03	1.55E-03	1.20E-03
634	565492.1	4221977	0.0117475	6.23E-03	1.54E-03	1.19E-03
635	565482.2	4221977	0.0116952	6.20E-03	1.54E-03	1.19E-03
636	565472.3	4221977	0.0116406	6.17E-03	1.53E-03	1.18E-03
637	565462.4	4221977	0.0115851	6.14E-03	1.52E-03	1.18E-03
638	565452.5	4221977	0.011534	6.12E-03	1.51E-03	1.17E-03
639	565442.6	4221977	0.0114843	6.09E-03	1.51E-03	1.17E-03
640	565432.7	4221977	0.0114353	6.06E-03	1.50E-03	1.16E-03
641	565422.8	4221977	0.0113882	6.04E-03	1.50E-03	1.16E-03
642	565412.9	4221977	0.0113436	6.01E-03	1.49E-03	1.15E-03
643	565403	4221977	0.0113017	5.99E-03	1.48E-03	1.15E-03
644	565393	4221977	0.0112585	5.97E-03	1.48E-03	1.14E-03
645	565383.1	4221977	0.0112194	5.95E-03	1.47E-03	1.14E-03
646	565373.2	4221977	0.0111838	5.93E-03	1.47E-03	1.14E-03
647	565363.3	4221977	0.0111583	5.92E-03	1.47E-03	1.13E-03
648	565353.4	4221977	0.0111377	5.91E-03	1.46E-03	1.13E-03
649	565343.5	4221977	0.0111219	5.90E-03	1.46E-03	1.13E-03
650	565333.6	4221977	0.0111117	5.89E-03	1.46E-03	1.13E-03
651	565323.7	4221977	0.0111057	5.89E-03	1.46E-03	1.13E-03
652	565313.8	4221978	0.0111043	5.89E-03	1.46E-03	1.13E-03
653	565303.9	4221978	0.011107	5.89E-03	1.46E-03	1.13E-03
654	565294	4221978	0.0111135	5.89E-03	1.46E-03	1.13E-03
655	565284.1	4221978	0.0111234	5.90E-03	1.46E-03	1.13E-03

656	565537.8	4221982	0.0122355	6.49E-03	1.61E-03	1.24E-03
657	565546.7	4221986	0.0124961	6.63E-03	1.64E-03	1.27E-03
658	565555.7	4221989	0.0127561	6.76E-03	1.68E-03	1.30E-03
659	565564.6	4221993	0.0130159	6.90E-03	1.71E-03	1.32E-03
660	565591.5	4222004	0.0137795	7.31E-03	1.81E-03	1.40E-03
661	565600.5	4222008	0.0140256	7.44E-03	1.84E-03	1.43E-03
662	565609.4	4222011	0.0142667	7.56E-03	1.87E-03	1.45E-03
663	565618.4	4222015	0.0144998	7.69E-03	1.90E-03	1.47E-03
664	565627.3	4222019	0.0147167	7.80E-03	1.93E-03	1.50E-03
665	565502	4221967	0.0112138	5.95E-03	1.47E-03	1.14E-03
666	565492.1	4221967	0.0111691	5.92E-03	1.47E-03	1.14E-03
667	565482.2	4221967	0.01112	5.90E-03	1.46E-03	1.13E-03
668	565472.3	4221967	0.0110694	5.87E-03	1.45E-03	1.12E-03
669	565462.4	4221967	0.0110182	5.84E-03	1.45E-03	1.12E-03
670	565452.5	4221967	0.0109701	5.82E-03	1.44E-03	1.11E-03
671	565442.5	4221967	0.0109231	5.79E-03	1.43E-03	1.11E-03
672	565432.6	4221967	0.0108769	5.77E-03	1.43E-03	1.11E-03
673	565422.7	4221967	0.0108311	5.74E-03	1.42E-03	1.10E-03
674	565412.8	4221967	0.0107877	5.72E-03	1.42E-03	1.10E-03
675	565402.9	4221967	0.010747	5.70E-03	1.41E-03	1.09E-03
676	565393	4221967	0.0107081	5.68E-03	1.41E-03	1.09E-03
677	565383.1	4221968	0.0106718	5.66E-03	1.40E-03	1.08E-03
678	565373.2	4221968	0.0106397	5.64E-03	1.40E-03	1.08E-03
679	565363.3	4221968	0.0106159	5.63E-03	1.39E-03	1.08E-03
680	565353.4	4221968	0.0105964	5.62E-03	1.39E-03	1.08E-03
681	565343.5	4221968	0.0105813	5.61E-03	1.39E-03	1.08E-03
682	565333.6	4221968	0.0105712	5.60E-03	1.39E-03	1.07E-03
683	565323.7	4221968	0.010565	5.60E-03	1.39E-03	1.07E-03
684	565313.8	4221968	0.0105629	5.60E-03	1.39E-03	1.07E-03
685	565303.9	4221968	0.0105647	5.60E-03	1.39E-03	1.07E-03
686	565294	4221968	0.01057	5.60E-03	1.39E-03	1.07E-03
687	565284.1	4221968	0.0105791	5.61E-03	1.39E-03	1.08E-03
688	565537.4	4221972	0.0116223	6.16E-03	1.53E-03	1.18E-03
689	565546.3	4221976	0.0118628	6.29E-03	1.56E-03	1.21E-03
690	565555.1	4221979	0.0121038	6.42E-03	1.59E-03	1.23E-03
691	565564	4221983	0.0123444	6.54E-03	1.62E-03	1.25E-03
692	565572.8	4221987	0.012583	6.67E-03	1.65E-03	1.28E-03
693	565599.4	4221998	0.0132853	7.04E-03	1.74E-03	1.35E-03
694	565608.3	4222001	0.0135117	7.16E-03	1.77E-03	1.37E-03
695	565617.2	4222005	0.0137327	7.28E-03	1.80E-03	1.40E-03
696	565626	4222008	0.0139393	7.39E-03	1.83E-03	1.42E-03
697	565634.9	4222012	0.0141451	7.50E-03	1.86E-03	1.44E-03
698	565643.7	4222016	0.0143427	7.60E-03	1.88E-03	1.46E-03
699	565652.6	4222019	0.0145284	7.70E-03	1.91E-03	1.48E-03
700	565502	4221957	0.0106773	5.66E-03	1.40E-03	1.09E-03
701	565492.1	4221957	0.0106347	5.64E-03	1.40E-03	1.08E-03
702	565482.1	4221957	0.010589	5.61E-03	1.39E-03	1.08E-03

703	565472.2	4221957	0.0105422	5.59E-03	1.38E-03	1.07E-03
704	565462.3	4221957	0.0104949	5.56E-03	1.38E-03	1.07E-03
705	565452.4	4221958	0.0104499	5.54E-03	1.37E-03	1.06E-03
706	565442.5	4221958	0.0104051	5.52E-03	1.37E-03	1.06E-03
707	565432.6	4221958	0.0103614	5.49E-03	1.36E-03	1.05E-03
708	565422.7	4221958	0.0103168	5.47E-03	1.35E-03	1.05E-03
709	565412.8	4221958	0.0102745	5.45E-03	1.35E-03	1.04E-03
710	565402.9	4221958	0.0102345	5.43E-03	1.34E-03	1.04E-03
711	565393	4221958	0.0101992	5.41E-03	1.34E-03	1.04E-03
712	565383.1	4221958	0.0101669	5.39E-03	1.34E-03	1.03E-03
713	565373.2	4221958	0.0101384	5.38E-03	1.33E-03	1.03E-03
714	565363.3	4221958	0.0101157	5.36E-03	1.33E-03	1.03E-03
715	565353.4	4221958	0.010097	5.35E-03	1.33E-03	1.03E-03
716	565343.5	4221958	0.0100829	5.35E-03	1.32E-03	1.02E-03
717	565333.6	4221958	0.0100725	5.34E-03	1.32E-03	1.02E-03
718	565323.7	4221958	0.0100661	5.34E-03	1.32E-03	1.02E-03
719	565313.8	4221958	0.0100635	5.34E-03	1.32E-03	1.02E-03
720	565303.9	4221958	0.0100645	5.34E-03	1.32E-03	1.02E-03
721	565294	4221958	0.0100688	5.34E-03	1.32E-03	1.02E-03
722	565284	4221958	0.0100766	5.34E-03	1.32E-03	1.02E-03
723	565537.1	4221962	0.0110554	5.86E-03	1.45E-03	1.12E-03
724	565545.8	4221966	0.0112791	5.98E-03	1.48E-03	1.15E-03
725	565554.6	4221969	0.0115034	6.10E-03	1.51E-03	1.17E-03
726	565563.4	4221973	0.0117261	6.22E-03	1.54E-03	1.19E-03
727	565572.2	4221976	0.0119482	6.33E-03	1.57E-03	1.21E-03
728	565598.5	4221987	0.0126038	6.68E-03	1.66E-03	1.28E-03
729	565607.3	4221991	0.0128169	6.80E-03	1.68E-03	1.30E-03
730	565616.1	4221995	0.0130249	6.91E-03	1.71E-03	1.32E-03
731	565624.8	4221998	0.0132279	7.01E-03	1.74E-03	1.34E-03
732	565633.6	4222002	0.0134196	7.12E-03	1.76E-03	1.36E-03
733	565642.4	4222005	0.0136083	7.22E-03	1.79E-03	1.38E-03
734	565651.2	4222009	0.0137891	7.31E-03	1.81E-03	1.40E-03
735	565660	4222013	0.0139603	7.40E-03	1.83E-03	1.42E-03
736	565668.7	4222016	0.0141209	7.49E-03	1.85E-03	1.44E-03
737	565677.5	4222020	0.0142686	7.57E-03	1.87E-03	1.45E-03
738	565529.2	4221949	0.0103503	5.49E-03	1.36E-03	1.05E-03
739	565538.2	4221953	0.0105679	5.60E-03	1.39E-03	1.07E-03
740	565547.3	4221956	0.0107858	5.72E-03	1.42E-03	1.10E-03
741	565556.4	4221960	0.0110032	5.83E-03	1.45E-03	1.12E-03
742	565565.5	4221964	0.0112189	5.95E-03	1.47E-03	1.14E-03
743	565574.6	4221968	0.0114346	6.06E-03	1.50E-03	1.16E-03
744	565601.8	4221979	0.0120709	6.40E-03	1.59E-03	1.23E-03
745	565610.9	4221983	0.0122776	6.51E-03	1.61E-03	1.25E-03
746	565629.1	4221990	0.0126779	6.72E-03	1.66E-03	1.29E-03
747	565638.1	4221994	0.012869	6.82E-03	1.69E-03	1.31E-03
748	565647.2	4221998	0.0130516	6.92E-03	1.71E-03	1.33E-03
749	565656.3	4222001	0.0132271	7.01E-03	1.74E-03	1.34E-03

750	565665.4	4222005	0.0133948	7.10E-03	1.76E-03	1.36E-03
751	565674.5	4222009	0.0135523	7.19E-03	1.78E-03	1.38E-03
752	565683.5	4222012	0.013695	7.26E-03	1.80E-03	1.39E-03
753	565692.6	4222016	0.013828	7.33E-03	1.82E-03	1.41E-03
754	565701.7	4222020	0.0139497	7.40E-03	1.83E-03	1.42E-03
755	565528.9	4221939	0.0098777	5.24E-03	1.30E-03	1.00E-03
756	565537.9	4221943	0.0100792	5.34E-03	1.32E-03	1.02E-03
757	565546.9	4221946	0.0102821	5.45E-03	1.35E-03	1.04E-03
758	565555.9	4221950	0.0104845	5.56E-03	1.38E-03	1.07E-03
759	565564.8	4221954	0.0106854	5.67E-03	1.40E-03	1.09E-03
760	565573.8	4221958	0.0108859	5.77E-03	1.43E-03	1.11E-03
761	565600.8	4221969	0.0114807	6.09E-03	1.51E-03	1.17E-03
762	565609.8	4221972	0.0116745	6.19E-03	1.53E-03	1.19E-03
763	565618.8	4221976	0.0118653	6.29E-03	1.56E-03	1.21E-03
764	565627.8	4221980	0.0120522	6.39E-03	1.58E-03	1.22E-03
765	565636.8	4221983	0.0122345	6.49E-03	1.61E-03	1.24E-03
766	565645.8	4221987	0.0124116	6.58E-03	1.63E-03	1.26E-03
767	565654.8	4221991	0.0125803	6.67E-03	1.65E-03	1.28E-03
768	565663.8	4221995	0.0127422	6.76E-03	1.67E-03	1.29E-03
769	565672.8	4221998	0.0128965	6.84E-03	1.69E-03	1.31E-03
770	565681.8	4222002	0.0130399	6.91E-03	1.71E-03	1.33E-03
771	565690.8	4222006	0.0131732	6.98E-03	1.73E-03	1.34E-03
772	565699.7	4222009	0.013296	7.05E-03	1.75E-03	1.35E-03
773	565708.7	4222013	0.0134082	7.11E-03	1.76E-03	1.36E-03
774	565537.2	4221922	0.0091919	4.87E-03	1.21E-03	9.34E-04
775	565546.1	4221926	0.0093659	4.97E-03	1.23E-03	9.52E-04
776	565554.9	4221930	0.0095415	5.06E-03	1.25E-03	9.70E-04
777	565563.8	4221933	0.0097181	5.15E-03	1.28E-03	9.88E-04
778	565572.6	4221937	0.0098937	5.25E-03	1.30E-03	1.01E-03
779	565599.2	4221948	0.0104139	5.52E-03	1.37E-03	1.06E-03
780	565608	4221952	0.0105846	5.61E-03	1.39E-03	1.08E-03
781	565616.8	4221955	0.0107534	5.70E-03	1.41E-03	1.09E-03
782	565625.7	4221959	0.0109199	5.79E-03	1.43E-03	1.11E-03
783	565634.5	4221963	0.0110836	5.88E-03	1.46E-03	1.13E-03
784	565643.4	4221966	0.011244	5.96E-03	1.48E-03	1.14E-03
785	565652.2	4221970	0.0114004	6.04E-03	1.50E-03	1.16E-03
786	565661.1	4221973	0.0115512	6.12E-03	1.52E-03	1.17E-03
787	565669.9	4221977	0.0116946	6.20E-03	1.54E-03	1.19E-03
788	565678.8	4221981	0.0118321	6.27E-03	1.55E-03	1.20E-03
789	565687.6	4221984	0.0119632	6.34E-03	1.57E-03	1.22E-03
790	565696.5	4221988	0.0120863	6.41E-03	1.59E-03	1.23E-03
791	565705.3	4221992	0.0122018	6.47E-03	1.60E-03	1.24E-03
792	565714.2	4221995	0.0123097	6.53E-03	1.62E-03	1.25E-03
793	565723	4221999	0.0124079	6.58E-03	1.63E-03	1.26E-03
794	565735.5	4222011	0.0129335	6.86E-03	1.70E-03	1.31E-03
795	565739.2	4222020	0.0133846	7.10E-03	1.76E-03	1.36E-03
796	565538	4221903	0.0084487	4.48E-03	1.11E-03	8.59E-04

797	565547	4221907	0.0086046	4.56E-03	1.13E-03	8.74E-04
798	565556.1	4221910	0.0087624	4.65E-03	1.15E-03	8.90E-04
799	565565.1	4221914	0.0089226	4.73E-03	1.17E-03	9.07E-04
800	565574.1	4221918	0.009083	4.82E-03	1.19E-03	9.23E-04
801	565637.4	4221944	0.0101704	5.39E-03	1.34E-03	1.03E-03
802	565646.5	4221947	0.0103189	5.47E-03	1.36E-03	1.05E-03
803	565655.5	4221951	0.0104638	5.55E-03	1.37E-03	1.06E-03
804	565664.6	4221955	0.0106036	5.62E-03	1.39E-03	1.08E-03
805	565673.6	4221959	0.0107383	5.69E-03	1.41E-03	1.09E-03
806	565682.7	4221962	0.0108696	5.76E-03	1.43E-03	1.10E-03
807	565691.7	4221966	0.0109947	5.83E-03	1.44E-03	1.12E-03
808	565700.7	4221970	0.0111137	5.89E-03	1.46E-03	1.13E-03
809	565709.8	4221973	0.0112264	5.95E-03	1.47E-03	1.14E-03
810	565718.8	4221977	0.0113338	6.01E-03	1.49E-03	1.15E-03
811	565727.9	4221981	0.0114336	6.06E-03	1.50E-03	1.16E-03
812	565736.9	4221985	0.0115241	6.11E-03	1.51E-03	1.17E-03
813	565749.7	4221997	0.0120045	6.36E-03	1.58E-03	1.22E-03
814	565753.5	4222006	0.0124143	6.58E-03	1.63E-03	1.26E-03
815	565757.2	4222015	0.0128327	6.80E-03	1.69E-03	1.30E-03
816	565537.4	4221883	0.0077768	4.12E-03	1.02E-03	7.90E-04
817	565546.3	4221886	0.007914	4.20E-03	1.04E-03	8.04E-04
818	565555.2	4221890	0.008052	4.27E-03	1.06E-03	8.18E-04
819	565564.1	4221894	0.0081922	4.34E-03	1.08E-03	8.33E-04
820	565573	4221897	0.008333	4.42E-03	1.09E-03	8.47E-04
821	565671	4221938	0.0098126	5.20E-03	1.29E-03	9.97E-04
822	565679.9	4221941	0.0099342	5.27E-03	1.30E-03	1.01E-03
823	565688.8	4221945	0.0100525	5.33E-03	1.32E-03	1.02E-03
824	565697.7	4221949	0.0101675	5.39E-03	1.34E-03	1.03E-03
825	565706.6	4221952	0.0102764	5.45E-03	1.35E-03	1.04E-03
826	565715.5	4221956	0.0103798	5.50E-03	1.36E-03	1.05E-03
827	565724.4	4221960	0.0104784	5.56E-03	1.38E-03	1.06E-03
828	565733.3	4221963	0.0105713	5.60E-03	1.39E-03	1.07E-03
829	565742.2	4221967	0.0106575	5.65E-03	1.40E-03	1.08E-03
830	565751.2	4221971	0.0107366	5.69E-03	1.41E-03	1.09E-03
831	565763.8	4221983	0.0111614	5.92E-03	1.47E-03	1.13E-03
832	565767.5	4221992	0.0115224	6.11E-03	1.51E-03	1.17E-03
833	565771.2	4222001	0.011892	6.31E-03	1.56E-03	1.21E-03
834	565774.9	4222010	0.0122682	6.50E-03	1.61E-03	1.25E-03
835	565778.6	4222019	0.0126503	6.71E-03	1.66E-03	1.29E-03
836	565538	4221863	0.0072015	3.82E-03	9.46E-04	7.32E-04
837	565547.1	4221867	0.0073279	3.89E-03	9.62E-04	7.45E-04
838	565556.2	4221870	0.0074545	3.95E-03	9.79E-04	7.58E-04
839	565565.3	4221874	0.0075819	4.02E-03	9.96E-04	7.71E-04
840	565574.4	4221878	0.0077098	4.09E-03	1.01E-03	7.84E-04
841	565719.7	4221938	0.0096086	5.09E-03	1.26E-03	9.76E-04
842	565728.8	4221941	0.0097031	5.14E-03	1.27E-03	9.86E-04
843	565737.8	4221945	0.0097916	5.19E-03	1.29E-03	9.95E-04

844	565746.9	4221949	0.0098757	5.24E-03	1.30E-03	1.00E-03
845	565756	4221953	0.0099546	5.28E-03	1.31E-03	1.01E-03
846	565765.1	4221956	0.0100276	5.32E-03	1.32E-03	1.02E-03
847	565781.7	4221978	0.0107475	5.70E-03	1.41E-03	1.09E-03
848	565785.5	4221987	0.0110861	5.88E-03	1.46E-03	1.13E-03
849	565789.3	4221996	0.0114315	6.06E-03	1.50E-03	1.16E-03
850	565793.1	4222005	0.0117837	6.25E-03	1.55E-03	1.20E-03
851	565537.5	4221843	0.0066767	3.54E-03	8.77E-04	6.79E-04
852	565546.5	4221846	0.0067883	3.60E-03	8.92E-04	6.90E-04
853	565555.4	4221850	0.0069012	3.66E-03	9.06E-04	7.01E-04
854	565564.4	4221854	0.0070135	3.72E-03	9.21E-04	7.13E-04
855	565573.3	4221857	0.0071261	3.78E-03	9.36E-04	7.24E-04
856	565761.4	4221935	0.0092609	4.91E-03	1.22E-03	9.41E-04
857	565538.1	4221823	0.0062232	3.30E-03	8.17E-04	6.32E-04
858	565547.2	4221827	0.0063241	3.35E-03	8.31E-04	6.43E-04
859	565556.3	4221830	0.0064271	3.41E-03	8.44E-04	6.53E-04
860	565565.4	4221834	0.0065316	3.46E-03	8.58E-04	6.64E-04
861	565574.5	4221838	0.006636	3.52E-03	8.71E-04	6.74E-04
862	565855.5	4222059	0.0126906	6.73E-03	1.67E-03	1.29E-03
863	565859.3	4222068	0.0129964	6.89E-03	1.71E-03	1.32E-03
864	565863.1	4222077	0.0133205	7.06E-03	1.75E-03	1.35E-03
865	565866.9	4222086	0.0136395	7.23E-03	1.79E-03	1.39E-03
866	565870.7	4222095	0.0139534	7.40E-03	1.83E-03	1.42E-03
867	565874.5	4222105	0.0142446	7.55E-03	1.87E-03	1.45E-03
868	565537.6	4221803	0.0058076	3.08E-03	7.63E-04	5.90E-04
869	565546.6	4221806	0.0058977	3.13E-03	7.75E-04	5.99E-04
870	565555.6	4221810	0.0059888	3.18E-03	7.87E-04	6.09E-04
871	565564.6	4221814	0.0060819	3.22E-03	7.99E-04	6.18E-04
872	565573.6	4221818	0.0061756	3.27E-03	8.11E-04	6.28E-04
873	565582.6	4221821	0.0062693	3.32E-03	8.23E-04	6.37E-04
874	565846.5	4221989	0.010395	5.51E-03	1.37E-03	1.06E-03
875	565850.2	4221998	0.0106666	5.66E-03	1.40E-03	1.08E-03
876	565853.9	4222007	0.0106455	5.64E-03	1.40E-03	1.08E-03
877	565857.7	4222016	0.0109259	5.79E-03	1.43E-03	1.11E-03
878	565872.7	4222052	0.0120478	6.39E-03	1.58E-03	1.22E-03
879	565876.4	4222061	0.0123311	6.54E-03	1.62E-03	1.25E-03
880	565880.2	4222070	0.0126194	6.69E-03	1.66E-03	1.28E-03
881	565883.9	4222079	0.0129063	6.84E-03	1.69E-03	1.31E-03
882	565887.6	4222088	0.0131796	6.99E-03	1.73E-03	1.34E-03
883	565891.4	4222097	0.0134444	7.13E-03	1.77E-03	1.37E-03
884	565895.1	4222106	0.0136906	7.26E-03	1.80E-03	1.39E-03
885	565898.9	4222115	0.0139326	7.39E-03	1.83E-03	1.42E-03
886	565902.6	4222124	0.0141728	7.51E-03	1.86E-03	1.44E-03
887	565906.4	4222133	0.0144123	7.64E-03	1.89E-03	1.46E-03
888	565538.1	4221783	0.0054428	2.89E-03	7.15E-04	5.53E-04
889	565547.2	4221787	0.0055268	2.93E-03	7.26E-04	5.62E-04
890	565556.4	4221790	0.0056113	2.98E-03	7.37E-04	5.70E-04

891	565565.5	4221794	0.0056975	3.02E-03	7.48E-04	5.79E-04
892	565574.7	4221798	0.0057839	3.07E-03	7.60E-04	5.88E-04
893	565583.8	4221802	0.0058704	3.11E-03	7.71E-04	5.97E-04
894	565864.8	4221985	0.0097255	5.16E-03	1.28E-03	9.88E-04
895	565868.7	4221995	0.0099774	5.29E-03	1.31E-03	1.01E-03
896	565872.5	4222004	0.0102263	5.42E-03	1.34E-03	1.04E-03
897	565876.3	4222013	0.0104848	5.56E-03	1.38E-03	1.07E-03
898	565880.1	4222022	0.0107493	5.70E-03	1.41E-03	1.09E-03
899	565883.9	4222031	0.0110145	5.84E-03	1.45E-03	1.12E-03
900	565887.7	4222040	0.0112804	5.98E-03	1.48E-03	1.15E-03
901	565891.5	4222049	0.0115453	6.12E-03	1.52E-03	1.17E-03
902	565895.3	4222058	0.0118076	6.26E-03	1.55E-03	1.20E-03
903	565899.1	4222068	0.0120681	6.40E-03	1.58E-03	1.23E-03
904	565902.9	4222077	0.0123242	6.53E-03	1.62E-03	1.25E-03
905	565906.7	4222086	0.0125745	6.67E-03	1.65E-03	1.28E-03
906	565910.5	4222095	0.0128198	6.80E-03	1.68E-03	1.30E-03
907	565914.3	4222104	0.0130572	6.92E-03	1.71E-03	1.33E-03
908	565918.1	4222113	0.0132863	7.04E-03	1.74E-03	1.35E-03
909	565921.9	4222122	0.0135067	7.16E-03	1.77E-03	1.37E-03
910	565886.1	4221988	0.0095583	5.07E-03	1.26E-03	9.71E-04
911	565889.8	4221997	0.0097823	5.19E-03	1.28E-03	9.94E-04
912	565893.6	4222006	0.0100128	5.31E-03	1.31E-03	1.02E-03
913	565897.3	4222015	0.0102523	5.44E-03	1.35E-03	1.04E-03
914	565901.1	4222024	0.0104868	5.56E-03	1.38E-03	1.07E-03
915	565904.9	4222033	0.0107154	5.68E-03	1.41E-03	1.09E-03
916	565908.6	4222042	0.0109502	5.81E-03	1.44E-03	1.11E-03
917	565912.4	4222051	0.0111883	5.93E-03	1.47E-03	1.14E-03
918	565916.1	4222060	0.0114248	6.06E-03	1.50E-03	1.16E-03
919	565919.9	4222069	0.0116559	6.18E-03	1.53E-03	1.18E-03
920	565923.7	4222078	0.0118836	6.30E-03	1.56E-03	1.21E-03
921	565927.4	4222087	0.0121053	6.42E-03	1.59E-03	1.23E-03
922	565931.2	4222096	0.0123212	6.53E-03	1.62E-03	1.25E-03
923	565934.9	4222106	0.0125295	6.64E-03	1.65E-03	1.27E-03
924	565590.8	4221765	0.0052163	2.77E-03	6.85E-04	5.30E-04
925	565599.7	4221768	0.0052878	2.80E-03	6.94E-04	5.37E-04
926	565608.7	4221772	0.0053586	2.84E-03	7.04E-04	5.45E-04
927	565617.6	4221776	0.0054286	2.88E-03	7.13E-04	5.52E-04
928	565626.5	4221779	0.0054981	2.92E-03	7.22E-04	5.59E-04
929	565907.2	4221991	0.0093696	4.97E-03	1.23E-03	9.52E-04
930	565910.9	4222000	0.0095903	5.08E-03	1.26E-03	9.75E-04
931	565914.6	4222009	0.0098089	5.20E-03	1.29E-03	9.97E-04
932	565918.3	4222018	0.0100116	5.31E-03	1.31E-03	1.02E-03
933	565922	4222027	0.0102194	5.42E-03	1.34E-03	1.04E-03
934	565925.8	4222035	0.0104316	5.53E-03	1.37E-03	1.06E-03
935	565929.5	4222044	0.0106454	5.64E-03	1.40E-03	1.08E-03
936	565944.4	4222080	0.0114502	6.07E-03	1.50E-03	1.16E-03
937	565948.1	4222089	0.0116488	6.18E-03	1.53E-03	1.18E-03

938	565546.7	4221727	0.004591	2.43E-03	6.03E-04	4.67E-04
939	565555.8	4221730	0.0046546	2.47E-03	6.11E-04	4.73E-04
940	565564.8	4221734	0.0047185	2.50E-03	6.20E-04	4.80E-04
941	565573.9	4221738	0.004783	2.54E-03	6.28E-04	4.86E-04
942	565583	4221741	0.0048482	2.57E-03	6.37E-04	4.93E-04
943	565592	4221745	0.0049139	2.61E-03	6.45E-04	4.99E-04
944	565601.1	4221749	0.0049802	2.64E-03	6.54E-04	5.06E-04
945	565610.1	4221753	0.0050467	2.68E-03	6.63E-04	5.13E-04
946	565619.2	4221756	0.0051127	2.71E-03	6.71E-04	5.20E-04
947	565628.3	4221760	0.0051747	2.74E-03	6.80E-04	5.26E-04
948	565682.6	4221782	0.0055596	2.95E-03	7.30E-04	5.65E-04
949	565691.7	4221786	0.0056227	2.98E-03	7.38E-04	5.71E-04
950	565700.8	4221790	0.0056857	3.01E-03	7.47E-04	5.78E-04
951	565709.8	4221794	0.0057483	3.05E-03	7.55E-04	5.84E-04
952	565937	4222015	0.00964	5.11E-03	1.27E-03	9.80E-04
953	565940.8	4222024	0.0098454	5.22E-03	1.29E-03	1.00E-03
954	565519.3	4221695	0.0041627	2.21E-03	5.47E-04	4.23E-04
955	565528.3	4221699	0.0042192	2.24E-03	5.54E-04	4.29E-04
956	565537.2	4221703	0.0042761	2.27E-03	5.62E-04	4.35E-04
957	565546.2	4221706	0.0043335	2.30E-03	5.69E-04	4.40E-04
958	565555.2	4221710	0.0043913	2.33E-03	5.77E-04	4.46E-04
959	565564.1	4221714	0.0044495	2.36E-03	5.84E-04	4.52E-04
960	565573.1	4221717	0.004508	2.39E-03	5.92E-04	4.58E-04
961	565582.1	4221721	0.0045668	2.42E-03	6.00E-04	4.64E-04
962	565591.1	4221725	0.0046257	2.45E-03	6.07E-04	4.70E-04
963	565600	4221729	0.0046847	2.48E-03	6.15E-04	4.76E-04
964	565680.8	4221762	0.0052158	2.77E-03	6.85E-04	5.30E-04
965	565689.7	4221765	0.0052741	2.80E-03	6.93E-04	5.36E-04
966	565698.7	4221769	0.0053318	2.83E-03	7.00E-04	5.42E-04
967	565707.7	4221773	0.0053892	2.86E-03	7.08E-04	5.48E-04
968	565716.6	4221776	0.0054463	2.89E-03	7.15E-04	5.53E-04
969	565725.6	4221780	0.0055031	2.92E-03	7.23E-04	5.59E-04
970	565510.4	4221672	0.0038911	2.06E-03	5.11E-04	3.95E-04
971	565519.5	4221675	0.0039442	2.09E-03	5.18E-04	4.01E-04
972	565528.6	4221679	0.0039973	2.12E-03	5.25E-04	4.06E-04
973	565537.7	4221683	0.0040505	2.15E-03	5.32E-04	4.12E-04
974	565546.8	4221687	0.0041042	2.18E-03	5.39E-04	4.17E-04
975	565555.8	4221690	0.0041586	2.20E-03	5.46E-04	4.23E-04
976	565564.9	4221694	0.0042136	2.23E-03	5.53E-04	4.28E-04
977	565574	4221698	0.0042686	2.26E-03	5.61E-04	4.34E-04
978	565583.1	4221702	0.0043234	2.29E-03	5.68E-04	4.39E-04
979	565592.2	4221705	0.0043779	2.32E-03	5.75E-04	4.45E-04
980	565601.3	4221709	0.004433	2.35E-03	5.82E-04	4.51E-04
981	565501.3	4221668	0.0038388	2.04E-03	5.04E-04	3.90E-04
982	565491.4	4221668	0.0038239	2.03E-03	5.02E-04	3.89E-04
983	565392.4	4221668	0.0037065	1.97E-03	4.87E-04	3.77E-04
984	565382.5	4221668	0.003699	1.96E-03	4.86E-04	3.76E-04

985	565372.6	4221668	0.0036925	1.96E-03	4.85E-04	3.75E-04
986	565362.7	4221668	0.0036866	1.95E-03	4.84E-04	3.75E-04
987	565352.7	4221668	0.0036815	1.95E-03	4.83E-04	3.74E-04
988	565342.8	4221668	0.0036772	1.95E-03	4.83E-04	3.74E-04
989	565332.9	4221668	0.0036735	1.95E-03	4.82E-04	3.73E-04
990	565510.3	4221652	0.0036929	1.96E-03	4.85E-04	3.75E-04
991	565519.3	4221655	0.0037415	1.98E-03	4.91E-04	3.80E-04
992	565528.3	4221659	0.0037901	2.01E-03	4.98E-04	3.85E-04
993	565537.3	4221663	0.003839	2.04E-03	5.04E-04	3.90E-04
994	565546.3	4221666	0.0038882	2.06E-03	5.11E-04	3.95E-04
995	565555.3	4221670	0.0039381	2.09E-03	5.17E-04	4.00E-04
996	565564.3	4221674	0.0039892	2.12E-03	5.24E-04	4.05E-04
997	565573.3	4221678	0.0040404	2.14E-03	5.31E-04	4.11E-04
998	565582.3	4221681	0.0040915	2.17E-03	5.37E-04	4.16E-04
999	565591.3	4221685	0.0041417	2.20E-03	5.44E-04	4.21E-04
1000	565600.3	4221689	0.004192	2.22E-03	5.51E-04	4.26E-04
1001	565609.3	4221692	0.0042421	2.25E-03	5.57E-04	4.31E-04
1002	565501.3	4221648	0.0036449	1.93E-03	4.79E-04	3.70E-04
1003	565491.4	4221648	0.003631	1.93E-03	4.77E-04	3.69E-04
1004	565481.5	4221648	0.0036184	1.92E-03	4.75E-04	3.68E-04
1005	565422	4221648	0.0035496	1.88E-03	4.66E-04	3.61E-04
1006	565412.1	4221648	0.0035391	1.88E-03	4.65E-04	3.60E-04
1007	565402.2	4221648	0.0035294	1.87E-03	4.64E-04	3.59E-04
1008	565392.3	4221648	0.0035218	1.87E-03	4.63E-04	3.58E-04
1009	565382.4	4221648	0.0035149	1.86E-03	4.62E-04	3.57E-04
1010	565372.5	4221648	0.0035089	1.86E-03	4.61E-04	3.57E-04
1011	565362.6	4221648	0.0035035	1.86E-03	4.60E-04	3.56E-04
1012	565352.7	4221648	0.0034987	1.86E-03	4.59E-04	3.56E-04
1013	565342.8	4221648	0.0034947	1.85E-03	4.59E-04	3.55E-04
1014	565332.9	4221648	0.0034913	1.85E-03	4.59E-04	3.55E-04
1015	565323	4221648	0.0034885	1.85E-03	4.58E-04	3.55E-04
1016	565313.1	4221648	0.0034864	1.85E-03	4.58E-04	3.54E-04
1017	565510.3	4221632	0.0035112	1.86E-03	4.61E-04	3.57E-04
1018	565519.5	4221635	0.0035569	1.89E-03	4.67E-04	3.61E-04
1019	565528.6	4221639	0.0036026	1.91E-03	4.73E-04	3.66E-04
1020	565537.7	4221643	0.0036484	1.93E-03	4.79E-04	3.71E-04
1021	565546.8	4221647	0.0036946	1.96E-03	4.85E-04	3.75E-04
1022	565555.9	4221650	0.0037416	1.98E-03	4.91E-04	3.80E-04
1023	565565	4221654	0.0037897	2.01E-03	4.98E-04	3.85E-04
1024	565574.1	4221658	0.0038378	2.03E-03	5.04E-04	3.90E-04
1025	565583.2	4221662	0.0038861	2.06E-03	5.10E-04	3.95E-04
1026	565592.3	4221665	0.0039337	2.09E-03	5.17E-04	4.00E-04
1027	565601.4	4221669	0.0039814	2.11E-03	5.23E-04	4.05E-04
1028	565610.5	4221673	0.004029	2.14E-03	5.29E-04	4.09E-04
1029	565501.2	4221628	0.0034662	1.84E-03	4.55E-04	3.52E-04
1030	565491.3	4221628	0.0034532	1.83E-03	4.54E-04	3.51E-04
1031	565481.4	4221628	0.0034414	1.82E-03	4.52E-04	3.50E-04

1032	565471.5	4221628	0.0034298	1.82E-03	4.50E-04	3.49E-04
1033	565461.6	4221628	0.0034186	1.81E-03	4.49E-04	3.47E-04
1034	565412.1	4221628	0.0033693	1.79E-03	4.42E-04	3.42E-04
1035	565402.2	4221628	0.0033609	1.78E-03	4.41E-04	3.42E-04
1036	565392.3	4221628	0.0033531	1.78E-03	4.40E-04	3.41E-04
1037	565382.4	4221628	0.0033459	1.77E-03	4.39E-04	3.40E-04
1038	565372.5	4221628	0.0033395	1.77E-03	4.39E-04	3.39E-04
1039	565362.6	4221628	0.0033345	1.77E-03	4.38E-04	3.39E-04
1040	565352.7	4221628	0.0033301	1.77E-03	4.37E-04	3.38E-04
1041	565342.8	4221628	0.0033263	1.76E-03	4.37E-04	3.38E-04
1042	565332.8	4221628	0.0033232	1.76E-03	4.36E-04	3.38E-04
1043	565322.9	4221628	0.0033206	1.76E-03	4.36E-04	3.37E-04
1044	565313	4221628	0.0033186	1.76E-03	4.36E-04	3.37E-04
1045	565303.1	4221628	0.003317	1.76E-03	4.36E-04	3.37E-04
1046	565293.2	4221628	0.003316	1.76E-03	4.35E-04	3.37E-04
1047	565225.7	4222171	0.0463389	2.46E-02	6.09E-03	4.71E-03
1048	565208.3	4222177	0.0467965	2.48E-02	6.15E-03	4.76E-03
1049	565219.1	4222165	0.0428615	2.27E-02	5.63E-03	4.36E-03
1050	565200.9	4222170	0.0433815	2.30E-02	5.70E-03	4.41E-03
1051	565211.6	4222158	0.0398707	2.11E-02	5.24E-03	4.05E-03
1052	565191	4222172	0.0429912	2.28E-02	5.65E-03	4.37E-03
1053	565181	4222174	0.0424662	2.25E-02	5.58E-03	4.32E-03
1054	565186.2	4222157	0.0376741	2.00E-02	4.95E-03	3.83E-03
1055	565171.1	4222175	0.0418373	2.22E-02	5.49E-03	4.25E-03
1056	565176.3	4222159	0.037402	1.98E-02	4.91E-03	3.80E-03
1057	565276.1	4222040	0.0160295	8.50E-03	2.11E-03	1.63E-03
1058	564991.1	4222671	0.0077875	4.13E-03	1.02E-03	7.91E-04
1059	564984.1	4222659	0.0082547	4.38E-03	1.08E-03	8.39E-04
1060	564992.5	4222711	0.0063519	3.37E-03	8.34E-04	6.46E-04
1061	564985.6	4222699	0.0067437	3.58E-03	8.86E-04	6.85E-04
1062	564978.6	4222686	0.0071533	3.79E-03	9.39E-04	7.27E-04
1063	564971.6	4222674	0.0075775	4.02E-03	9.95E-04	7.70E-04
1064	564964.7	4222662	0.0080139	4.25E-03	1.05E-03	8.14E-04
1065	564994.1	4222751	0.005211	2.76E-03	6.84E-04	5.30E-04
1066	564987.1	4222739	0.0055288	2.93E-03	7.26E-04	5.62E-04
1067	564980.1	4222727	0.0058655	3.11E-03	7.70E-04	5.96E-04
1068	564973.1	4222714	0.0062201	3.30E-03	8.17E-04	6.32E-04
1069	564966.1	4222702	0.0065912	3.49E-03	8.66E-04	6.70E-04
1070	564959.2	4222690	0.006977	3.70E-03	9.16E-04	7.09E-04
1071	564952.2	4222677	0.007375	3.91E-03	9.69E-04	7.50E-04
1072	564945.2	4222665	0.0077828	4.13E-03	1.02E-03	7.91E-04
1073	564938.2	4222653	0.0081972	4.35E-03	1.08E-03	8.33E-04
1074	564988.7	4222779	0.0045708	2.42E-03	6.00E-04	4.65E-04
1075	564981.7	4222767	0.0048405	2.57E-03	6.36E-04	4.92E-04
1076	564974.7	4222755	0.0051278	2.72E-03	6.73E-04	5.21E-04
1077	564967.7	4222742	0.0054328	2.88E-03	7.13E-04	5.52E-04
1078	564960.7	4222730	0.0057542	3.05E-03	7.56E-04	5.85E-04

1079	564953.7	4222718	0.0060912	3.23E-03	8.00E-04	6.19E-04
1080	564946.7	4222705	0.0064426	3.42E-03	8.46E-04	6.55E-04
1081	564939.7	4222693	0.0068059	3.61E-03	8.94E-04	6.92E-04
1082	564932.7	4222681	0.0071791	3.81E-03	9.43E-04	7.30E-04
1083	564925.7	4222668	0.0075602	4.01E-03	9.93E-04	7.68E-04
1084	564918.6	4222656	0.0079458	4.21E-03	1.04E-03	8.08E-04
1085	564993.4	4222805	0.0040748	2.16E-03	5.35E-04	4.14E-04
1086	564976.4	4222795	0.0042636	2.26E-03	5.60E-04	4.33E-04
1087	564969.5	4222783	0.0045026	2.39E-03	5.91E-04	4.58E-04
1088	564962.6	4222771	0.0047579	2.52E-03	6.25E-04	4.84E-04
1089	564955.7	4222759	0.0050289	2.67E-03	6.60E-04	5.11E-04
1090	564948.8	4222747	0.0053147	2.82E-03	6.98E-04	5.40E-04
1091	564941.9	4222734	0.0056149	2.98E-03	7.37E-04	5.71E-04
1092	564935	4222722	0.0059282	3.14E-03	7.79E-04	6.02E-04
1093	564928.1	4222710	0.006253	3.32E-03	8.21E-04	6.35E-04
1094	564921.2	4222698	0.0065881	3.49E-03	8.65E-04	6.70E-04
1095	564914.3	4222686	0.0069312	3.67E-03	9.10E-04	7.04E-04
1096	564907.4	4222673	0.0072798	3.86E-03	9.56E-04	7.40E-04
1097	564900.5	4222661	0.0076322	4.05E-03	1.00E-03	7.76E-04
1098	564994.6	4222825	0.003748	1.99E-03	4.92E-04	3.81E-04
1099	564981.1	4222821	0.0038171	2.02E-03	5.01E-04	3.88E-04
1100	564964.1	4222811	0.0039887	2.11E-03	5.24E-04	4.05E-04
1101	564957.2	4222799	0.0042059	2.23E-03	5.52E-04	4.27E-04
1102	564950.2	4222787	0.0044382	2.35E-03	5.83E-04	4.51E-04
1103	564943.3	4222774	0.0046847	2.48E-03	6.15E-04	4.76E-04
1104	564936.4	4222762	0.0049452	2.62E-03	6.49E-04	5.03E-04
1105	564929.5	4222750	0.0052189	2.77E-03	6.85E-04	5.30E-04
1106	564922.6	4222738	0.0055051	2.92E-03	7.23E-04	5.59E-04
1107	564915.6	4222725	0.0058026	3.08E-03	7.62E-04	5.90E-04
1108	564908.7	4222713	0.0061102	3.24E-03	8.02E-04	6.21E-04
1109	564901.8	4222701	0.0064258	3.41E-03	8.44E-04	6.53E-04
1110	564894.9	4222689	0.0067478	3.58E-03	8.86E-04	6.86E-04
1111	564887.9	4222677	0.0070741	3.75E-03	9.29E-04	7.19E-04
1112	564881	4222664	0.0074026	3.92E-03	9.72E-04	7.52E-04
1113	564874.1	4222652	0.0077311	4.10E-03	1.02E-03	7.86E-04
1114	564995.8	4222844	0.0034574	1.83E-03	4.54E-04	3.51E-04
1115	564982.3	4222840	0.0035199	1.87E-03	4.62E-04	3.58E-04
1116	564968.8	4222837	0.003583	1.90E-03	4.71E-04	3.64E-04
1117	564951.7	4222827	0.0037404	1.98E-03	4.91E-04	3.80E-04
1118	564944.8	4222814	0.0039382	2.09E-03	5.17E-04	4.00E-04
1119	564937.9	4222802	0.00415	2.20E-03	5.45E-04	4.22E-04
1120	564930.9	4222790	0.004375	2.32E-03	5.75E-04	4.45E-04
1121	564924	4222778	0.0046127	2.45E-03	6.06E-04	4.69E-04
1122	564917	4222765	0.004863	2.58E-03	6.39E-04	4.94E-04
1123	564910.1	4222753	0.0051249	2.72E-03	6.73E-04	5.21E-04
1124	564903.1	4222741	0.0053978	2.86E-03	7.09E-04	5.49E-04
1125	564896.2	4222729	0.0056801	3.01E-03	7.46E-04	5.77E-04

1126	564889.3	4222716	0.005971	3.17E-03	7.84E-04	6.07E-04
1127	564882.3	4222704	0.0062683	3.32E-03	8.23E-04	6.37E-04
1128	564875.4	4222692	0.0065709	3.48E-03	8.63E-04	6.68E-04
1129	564868.4	4222680	0.0068761	3.65E-03	9.03E-04	6.99E-04
1130	564861.5	4222667	0.0071828	3.81E-03	9.43E-04	7.30E-04
1131	564854.5	4222655	0.0074882	3.97E-03	9.83E-04	7.61E-04
1132	564997.2	4222864	0.0032001	1.70E-03	4.20E-04	3.25E-04
1133	564983.6	4222860	0.003256	1.73E-03	4.28E-04	3.31E-04
1134	564970	4222856	0.0033133	1.76E-03	4.35E-04	3.37E-04
1135	564956.4	4222852	0.0033716	1.79E-03	4.43E-04	3.43E-04
1136	564939.4	4222842	0.0035157	1.86E-03	4.62E-04	3.57E-04
1137	564932.4	4222830	0.0036966	1.96E-03	4.85E-04	3.76E-04
1138	564925.5	4222818	0.0038899	2.06E-03	5.11E-04	3.95E-04
1139	564918.5	4222806	0.0040954	2.17E-03	5.38E-04	4.16E-04
1140	564911.5	4222793	0.0043129	2.29E-03	5.66E-04	4.38E-04
1141	564904.6	4222781	0.0045419	2.41E-03	5.96E-04	4.62E-04
1142	564897.6	4222769	0.0047821	2.54E-03	6.28E-04	4.86E-04
1143	564890.7	4222756	0.0050325	2.67E-03	6.61E-04	5.11E-04
1144	564883.7	4222744	0.0052924	2.81E-03	6.95E-04	5.38E-04
1145	564876.7	4222732	0.0055606	2.95E-03	7.30E-04	5.65E-04
1146	564869.8	4222720	0.0058353	3.09E-03	7.66E-04	5.93E-04
1147	564862.8	4222707	0.0061157	3.24E-03	8.03E-04	6.22E-04
1148	564855.9	4222695	0.0063996	3.39E-03	8.40E-04	6.50E-04
1149	564848.9	4222683	0.0066856	3.54E-03	8.78E-04	6.79E-04
1150	564841.9	4222671	0.0069715	3.70E-03	9.16E-04	7.08E-04
1151	564835	4222658	0.007256	3.85E-03	9.53E-04	7.37E-04
1152	564998.6	4222884	0.0029718	1.58E-03	3.90E-04	3.02E-04
1153	564985	4222880	0.0030216	1.60E-03	3.97E-04	3.07E-04
1154	564971.4	4222876	0.0030728	1.63E-03	4.04E-04	3.12E-04
1155	564957.7	4222872	0.0031252	1.66E-03	4.10E-04	3.18E-04
1156	564944.1	4222868	0.0031786	1.69E-03	4.17E-04	3.23E-04
1157	564927	4222858	0.0033113	1.76E-03	4.35E-04	3.37E-04
1158	564920.1	4222846	0.0034765	1.84E-03	4.57E-04	3.53E-04
1159	564913.1	4222834	0.0036538	1.94E-03	4.80E-04	3.71E-04
1160	564906.1	4222821	0.0038423	2.04E-03	5.05E-04	3.90E-04
1161	564899.1	4222809	0.0040415	2.14E-03	5.31E-04	4.11E-04
1162	564892.1	4222797	0.0042517	2.25E-03	5.58E-04	4.32E-04
1163	564885.2	4222784	0.0044722	2.37E-03	5.87E-04	4.54E-04
1164	564878.2	4222772	0.0047025	2.49E-03	6.18E-04	4.78E-04
1165	564871.2	4222760	0.0049417	2.62E-03	6.49E-04	5.02E-04
1166	564864.2	4222747	0.0051892	2.75E-03	6.81E-04	5.27E-04
1167	564857.3	4222735	0.0054433	2.89E-03	7.15E-04	5.53E-04
1168	564850.3	4222723	0.0057034	3.02E-03	7.49E-04	5.80E-04
1169	564843.3	4222710	0.0059673	3.16E-03	7.84E-04	6.06E-04
1170	564836.3	4222698	0.0062342	3.31E-03	8.19E-04	6.34E-04
1171	564829.4	4222686	0.0065018	3.45E-03	8.54E-04	6.61E-04
1172	564822.4	4222674	0.0067691	3.59E-03	8.89E-04	6.88E-04

1173	564815.4	4222661	0.0070338	3.73E-03	9.24E-04	7.15E-04
1174	564992.3	4222890	0.0029079	1.54E-03	3.82E-04	2.96E-04
1175	564996.7	4222814	0.0039129	2.07E-03	5.14E-04	3.98E-04
1176	564988	4222795	0.0042568	2.26E-03	5.59E-04	4.33E-04
1177	564979.3	4222776	0.0046424	2.46E-03	6.10E-04	4.72E-04
1178	564974.5	4222810	0.0040026	2.12E-03	5.26E-04	4.07E-04
1179	564988.6	4222870	0.0031325	1.66E-03	4.11E-04	3.18E-04
1180	564963	4222829	0.0037031	1.96E-03	4.86E-04	3.76E-04
1181	564954.3	4222809	0.0040174	2.13E-03	5.28E-04	4.08E-04
1182	564884.4	4222655	0.0077156	4.09E-03	1.01E-03	7.84E-04
1183	564975.3	4222885	0.0029692	1.57E-03	3.90E-04	3.02E-04
1184	564958.5	4222863	0.0032332	1.71E-03	4.25E-04	3.29E-04
1185	564949.8	4222844	0.0034918	1.85E-03	4.59E-04	3.55E-04
1186	564944.5	4222832	0.00366	1.94E-03	4.81E-04	3.72E-04
1187	564935.8	4222813	0.0039659	2.10E-03	5.21E-04	4.03E-04
1188	564871.3	4222670	0.0071592	3.80E-03	9.40E-04	7.28E-04
1189	564866	4222659	0.0074657	3.96E-03	9.80E-04	7.59E-04
1190	565388.8	4223035	0.0019907	1.06E-03	2.61E-04	2.02E-04
1191	564990.2	4222909	0.0027197	1.44E-03	3.57E-04	2.76E-04
1192	564978.1	4222905	0.0027615	1.46E-03	3.63E-04	2.81E-04
1193	564966	4222901	0.0028045	1.49E-03	3.68E-04	2.85E-04
1194	564952.2	4222893	0.0028896	1.53E-03	3.79E-04	2.94E-04
1195	564947	4222882	0.0030172	1.60E-03	3.96E-04	3.07E-04
1196	564936.5	4222859	0.0032983	1.75E-03	4.33E-04	3.35E-04
1197	564931.3	4222847	0.0034522	1.83E-03	4.53E-04	3.51E-04
1198	564922.6	4222828	0.003732	1.98E-03	4.90E-04	3.79E-04
1199	564858.1	4222686	0.0066575	3.53E-03	8.74E-04	6.77E-04
1200	564852.9	4222674	0.0069413	3.68E-03	9.12E-04	7.05E-04
1201	564847.6	4222663	0.0072271	3.83E-03	9.49E-04	7.34E-04
1202	565391.1	4223055	0.0018957	1.01E-03	2.49E-04	1.93E-04
1203	564993	4222929	0.0025403	1.35E-03	3.34E-04	2.58E-04
1204	564980.9	4222925	0.0025769	1.37E-03	3.38E-04	2.62E-04
1205	564968.8	4222921	0.0026148	1.39E-03	3.43E-04	2.66E-04
1206	564956.8	4222917	0.0026541	1.41E-03	3.49E-04	2.70E-04
1207	564944.7	4222913	0.0026946	1.43E-03	3.54E-04	2.74E-04
1208	564937.2	4222905	0.0027842	1.48E-03	3.66E-04	2.83E-04
1209	564932	4222893	0.0029041	1.54E-03	3.81E-04	2.95E-04
1210	564926.8	4222881	0.0030322	1.61E-03	3.98E-04	3.08E-04
1211	564921.5	4222870	0.003168	1.68E-03	4.16E-04	3.22E-04
1212	564916.3	4222858	0.0033122	1.76E-03	4.35E-04	3.37E-04
1213	564911.1	4222847	0.0034656	1.84E-03	4.55E-04	3.52E-04
1214	564904.1	4222832	0.0036859	1.95E-03	4.84E-04	3.75E-04
1215	564845	4222701	0.0062044	3.29E-03	8.15E-04	6.31E-04
1216	564839.7	4222689	0.0064672	3.43E-03	8.49E-04	6.57E-04
1217	564834.5	4222678	0.0067327	3.57E-03	8.84E-04	6.84E-04
1218	564829.3	4222666	0.0069991	3.71E-03	9.19E-04	7.11E-04
1219	564824.1	4222655	0.0072658	3.85E-03	9.54E-04	7.38E-04

1220	565393.3	4223075	0.001808	9.59E-04	2.37E-04	1.84E-04
1221	564995.7	4222949	0.0023804	1.26E-03	3.13E-04	2.42E-04
1222	564915.2	4222900	0.0028364	1.50E-03	3.73E-04	2.88E-04
1223	564910	4222889	0.0029591	1.57E-03	3.89E-04	3.01E-04
1224	564904.8	4222877	0.0030895	1.64E-03	4.06E-04	3.14E-04
1225	564899.6	4222866	0.0032278	1.71E-03	4.24E-04	3.28E-04
1226	564894.4	4222854	0.0033748	1.79E-03	4.43E-04	3.43E-04
1227	564889.2	4222843	0.0035308	1.87E-03	4.64E-04	3.59E-04
1228	564883.9	4222831	0.0036956	1.96E-03	4.85E-04	3.76E-04
1229	564878.7	4222820	0.0038694	2.05E-03	5.08E-04	3.93E-04
1230	564873.5	4222808	0.004052	2.15E-03	5.32E-04	4.12E-04
1231	564868.3	4222797	0.0042433	2.25E-03	5.57E-04	4.31E-04
1232	564863.1	4222785	0.0044431	2.36E-03	5.84E-04	4.52E-04
1233	564857.9	4222774	0.0046511	2.47E-03	6.11E-04	4.73E-04
1234	564852.7	4222762	0.004867	2.58E-03	6.39E-04	4.95E-04
1235	564847.4	4222751	0.0050898	2.70E-03	6.68E-04	5.17E-04
1236	564842.2	4222739	0.0053191	2.82E-03	6.99E-04	5.41E-04
1237	564837	4222728	0.0055541	2.94E-03	7.29E-04	5.64E-04
1238	564831.8	4222716	0.0057939	3.07E-03	7.61E-04	5.89E-04
1239	564826.6	4222705	0.0060376	3.20E-03	7.93E-04	6.14E-04
1240	564821.4	4222693	0.0062844	3.33E-03	8.25E-04	6.39E-04
1241	564816.1	4222682	0.0065326	3.46E-03	8.58E-04	6.64E-04
1242	564996.7	4222701	0.0067036	3.55E-03	8.80E-04	6.81E-04
1243	564988.7	4222730	0.0057831	3.07E-03	7.59E-04	5.88E-04
1244	564978.2	4222704	0.006542	3.47E-03	8.59E-04	6.65E-04
1245	564974.7	4222696	0.0068142	3.61E-03	8.95E-04	6.93E-04
1246	564964.4	4222719	0.0060554	3.21E-03	7.95E-04	6.15E-04
1247	564961	4222711	0.0062988	3.34E-03	8.27E-04	6.40E-04
1248	564991.9	4222834	0.0036011	1.91E-03	4.73E-04	3.66E-04
1249	564947.2	4222726	0.0058426	3.10E-03	7.67E-04	5.94E-04
1250	564943.7	4222718	0.0060685	3.22E-03	7.97E-04	6.17E-04
1251	564977.6	4222848	0.0034122	1.81E-03	4.48E-04	3.47E-04
1252	564932.2	4222738	0.0055038	2.92E-03	7.23E-04	5.59E-04
1253	564925.2	4222721	0.0059327	3.15E-03	7.79E-04	6.03E-04
1254	564914.9	4222745	0.0053226	2.82E-03	6.99E-04	5.41E-04
1255	564911.4	4222736	0.0055194	2.93E-03	7.25E-04	5.61E-04
1256	564986.8	4222899	0.002812	1.49E-03	3.69E-04	2.86E-04
1257	564978.3	4222896	0.002852	1.51E-03	3.75E-04	2.90E-04
1258	564961.2	4222889	0.0029354	1.56E-03	3.86E-04	2.98E-04
1259	564899.9	4222757	0.0050302	2.67E-03	6.61E-04	5.11E-04
1260	564896.4	4222749	0.0052144	2.76E-03	6.85E-04	5.30E-04
1261	564892.9	4222740	0.0054044	2.87E-03	7.10E-04	5.49E-04
1262	565400.4	4223046	0.0019501	1.03E-03	2.56E-04	1.98E-04
1263	564963.9	4222910	0.0027206	1.44E-03	3.57E-04	2.76E-04
1264	564955.4	4222906	0.0027585	1.46E-03	3.62E-04	2.80E-04
1265	564947	4222903	0.0027973	1.48E-03	3.67E-04	2.84E-04
1266	564882.7	4222764	0.0048742	2.58E-03	6.40E-04	4.95E-04

1267	564879.2	4222755	0.0050467	2.68E-03	6.63E-04	5.13E-04
1268	564966.3	4222931	0.0025314	1.34E-03	3.32E-04	2.57E-04
1269	564957.9	4222927	0.0025646	1.36E-03	3.37E-04	2.61E-04
1270	564949.5	4222924	0.0025986	1.38E-03	3.41E-04	2.64E-04
1271	564932.7	4222917	0.0026694	1.42E-03	3.51E-04	2.71E-04
1272	564872.3	4222787	0.0044152	2.34E-03	5.80E-04	4.49E-04
1273	564861.9	4222762	0.0048866	2.59E-03	6.42E-04	4.97E-04
1274	564855	4222745	0.0052228	2.77E-03	6.86E-04	5.31E-04
1275	565390.9	4223086	0.001754	9.30E-04	2.30E-04	1.78E-04
1276	564896.1	4222893	0.0029174	1.55E-03	3.83E-04	2.96E-04
1277	564892.6	4222885	0.0030108	1.60E-03	3.95E-04	3.06E-04
1278	564889.1	4222876	0.0031086	1.65E-03	4.08E-04	3.16E-04
1279	564885.5	4222868	0.0032106	1.70E-03	4.22E-04	3.26E-04
1280	564882	4222859	0.0033172	1.76E-03	4.36E-04	3.37E-04
1281	564878.5	4222851	0.0034284	1.82E-03	4.50E-04	3.48E-04
1282	564875	4222842	0.0035442	1.88E-03	4.65E-04	3.60E-04
1283	564871.5	4222834	0.0036645	1.94E-03	4.81E-04	3.72E-04
1284	564868	4222825	0.0037895	2.01E-03	4.98E-04	3.85E-04
1285	564864.5	4222816	0.0039193	2.08E-03	5.15E-04	3.98E-04
1286	564860.9	4222808	0.0040537	2.15E-03	5.32E-04	4.12E-04
1287	564857.4	4222799	0.0041926	2.22E-03	5.51E-04	4.26E-04
1288	564853.9	4222791	0.0043361	2.30E-03	5.69E-04	4.41E-04
1289	564850.4	4222782	0.0044841	2.38E-03	5.89E-04	4.56E-04
1290	564846.9	4222774	0.0046363	2.46E-03	6.09E-04	4.71E-04
1291	564843.4	4222765	0.0047926	2.54E-03	6.29E-04	4.87E-04
1292	564839.8	4222757	0.0049527	2.63E-03	6.50E-04	5.03E-04
1293	564836.3	4222748	0.0051166	2.71E-03	6.72E-04	5.20E-04
1294	564832.8	4222740	0.0052839	2.80E-03	6.94E-04	5.37E-04
1295	564822.3	4222714	0.0058032	3.08E-03	7.62E-04	5.90E-04
1296	565390.8	4223106	0.0016732	8.87E-04	2.20E-04	1.70E-04

APPENDIX C

NOISE LEVEL ANALYSIS

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TABLE Existing -01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard North of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23530 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.85

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL	70 CNEL	65 CNEL	60 CNEL	55 CNEL
	88.1	164.0	340.2	726.6

TABLE Existing -02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard South of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31090 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.06

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
100.6	194.6	408.3	874.2

TABLE Existing Plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard North of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Existing Plus Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23850 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.91

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
88.6	165.4	343.2	733.1

TABLE Existing Plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard South of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Existing Plus Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32080 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.19

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
102.2	198.5	416.8	892.6

TABLE Cumulative-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard North of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Cumulative

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 28930 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.74

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL	70 CNEL	65 CNEL	60 CNEL	55 CNEL
	97.1	186.1	389.4	833.4

TABLE Cumulative-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard South of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Cumulative

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 38230 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.95

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
112.0	221.6	467.8	1003.0

TABLE Cumulative Plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard North of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Cumulative Plus Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 29250 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.79

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
97.6	187.4	392.3	839.5

TABLE Cumulative Plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/20/2023
ROADWAY SEGMENT: Sonoma Boulevard South of Meadows Drive
NOTES: 5180 Sonoma Blvd Project - Cumulative Plus Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 39220 SPEED (MPH): 50 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 50 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.07

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
113.6	225.2	475.7	1020.2

MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) is formulated based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND). The MMRP, which is found in Table A, lists mitigation measures recommended in the IS/MND prepared for the 5180 Sonoma Boulevard Residential Development Project (project) and identifies mitigation monitoring requirements.

This MMRP has been prepared to comply with the requirements of State law (Public Resources Code Section 21081.6). State law requires the Lead Agency to adopt an MMRP when mitigation measures are required to avoid significant impacts. The MMRP is intended to ensure compliance with the mitigation measures identified in the IS/MND during implementation of the project.

The MMRP is organized in a matrix format. The first column identifies the recommended mitigation measures. The second column, entitled *Implementation Actions*, refers to the actions taken by the party responsible for oversight to ensure compliance. The third column, entitled *Timing Requirements,* refers to when the monitoring will occur to ensure that the mitigating action is completed. The fourth column, entitled *Monitoring/Reporting Responsibility* refers to the party responsible for oversight or ensuring that the mitigation measure is implemented. The fifth column, entitled *Verified By and Date*, refers to the party and date the action was verified as complete.

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Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
AIR QUALITY				
AIR-1: In order to meet the Bay Area Air Quality Management District's (BAAQMD) fugitive dust threshold, the following BAAQMD Basic Construction Mitigation Measures shall be implemented: • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. • All haul trucks transporting soil, sand, or other loose material off-site shall be covered. • All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. • All vehicle speeds on unpaved roads shall be limited to 15 miles per hour. • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. • Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of the California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. • All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. • A publicly visible sign shall be posted with the telephone number and person to contact at the City of Vallejo regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	Throughout the construction period.	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. The Construction Contractor is responsible for implementing this measure.	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
AIR-2: During construction of the proposed project, the project contractor shall ensure that all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 2 emissions standards equipped with Level 3 diesel particulate filters or the equivalent.	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	During construction activities.	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. The Construction Contractor is responsible for implementing this measure.	
BIOLOGICAL RESOURCES				
BIO-1: Prior to construction activities occurring during the nesting bird season (February 1 through August 31), preconstruction activity surveys for nesting birds shall be conducted by a qualified biologist to ensure that no nests are disturbed during project implementation. Surveys shall be conducted no more than seven days prior to the initiation of construction activities. During this survey, the biologist shall inspect all trees and other potential nesting habitats (e.g., shrubs, ground and structures) in the impact area plus a surrounding 300-foot buffer for nests. If removal of potential nesting substrate or project grading would occur during more than one nesting season, or in different parts of the site in phases over the course of a single season, then additional pre-activity surveys must be performed within seven days prior to initiation of work in any particular area. If the preconstruction activity survey does not identify the presence of any active nests on or within 300 feet of the site, construction activities may proceed. If nests known to have eggs or young, or that cannot be confirmed to be inactive or to lack eggs or young, are found, or adults are demonstrating nesting behavior, a qualified biologist shall establish an appropriate construction-free buffer around each	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	If nesting season avoidance is not feasible, the survey shall be conducted no more than 7 days prior to scheduled vegetation and building removal. Buffers, if necessary, shall be maintained throughout the construction period.	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. A qualified biologist is responsible for conducting a pre-construction survey of the project site, determining an appropriate buffer zone, and monitoring the buffers during construction (if necessary).	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
nest. Generally, a buffer of 300 feet for raptors and 100 feet for songbirds are adequate to avoid causing nest abandonment. The buffer shall remain in place until the qualified biologist has confirmed that the nest is no longer active. If less than a 100-foot nest buffer is necessary and determined to be appropriate for a particular nest or nests, a qualified biologist shall monitor the nest(s) before construction to document baseline nesting behavior and monitor the nest during construction to ensure nesting birds are not exhibiting signs of stress and territorial behavior. If signs of stress are observed during the monitoring, construction activities shall cease or the buffer shall increase, as determined by a qualified biologist, to a sufficient distance where the nesting birds are longer exhibiting signs of stress. To prevent encroachment, the buffer shall be clearly marked for avoidance. The established buffer shall remain in effect until the young have fledged or the nest is no longer active as confirmed by the biologist.			The Construction Contractor is responsible for keeping work out of the buffers (if necessary).	
BIO 2: Prior to any tree removal during the maternity roosting period (April 15 to August 31) or hibernation period (October 15 to February 28), a focused tree habitat assessment shall be conducted by a qualified bat biologist of all trees that would be removed or impacted by construction activities. Trees containing suitable potential bat roosting habitat features would then be clearly marked. The habitat assessments should be conducted enough in advance to allow preparation of a report with specific recommendations, and to ensure tree removal can be scheduled during seasonal periods of bat activity if required. If it is determined that day roosting bats are unlikely to occur, the tree may be removed as described below. If the absence of roosting bats cannot be confirmed, then the removal of trees providing suitable maternity or hibernation roosting habitat should only be conducted during seasonal periods of bat activity, including:	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	If tree removal must occur during the maternity roosting period (April 15 to August 31) or hibernation period (October 15 to February 28), the habitat assessment will be conducted prior to tree removal. Tree removal shall be timed as outlined in the measure.	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. A qualified biologist is responsible for conducting the focused tree habitat assessment and monitor tree removal, if needed.	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
1. Between March 1 (or after evening temperatures rise above 45 degrees Fahrenheit (F) and/or no more than 1/2 inch of rainfall within 24 hours occurs) and April 15; or 2. Between September 1 and about October 15 (or before evening temperatures fall below 45 degrees F and/or more than 1/2 inch of rainfall within 24 hours occurs). Appropriate methods shall be used to minimize the potential of harm to bats during tree removal. Such methods may include but are not limited to using a two-step tree removal process. This method is conducted over two consecutive days and works by creating noise and vibration by cutting non-habitat branches and limbs from habitat trees using chainsaws only (no excavators or other heavy machinery) on Day 1. The noise and vibration disturbance, together with the visible alteration of the tree, is very effective in causing bats that emerge nightly to feed, to not return to the roost that night. The remainder of the tree is removed on Day 2. A bat biologist qualified in two-step tree removal is required on Day 1 to supervise and instruct the tree-cutters who will be on the site conducting the work, but only for a sufficient length of time to train all tree cutters who will conduct two-step removal of habitat trees. The bat biologist is generally not required on Day 2, unless a very large cavity is present and a large colony is suspected.			The Construction Contractor is responsible for conducting tree removal appropriately under the direction of the biologist.	
CULTURAL RESOURCES				
CULT-1: Should an archaeological deposit be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology contacted to assess the situation, determine if the deposit qualifies as a historical resource, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. If the deposit is found to be significant (i.e., eligible for listing in the California Register of Historical Resources), the project applicant	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	During construction activities	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. A qualified archaeologist is	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
shall be responsible for funding and implementing appropriate mitigation measures. Mitigation measures may include recording the archaeological deposit, data recovery and analysis, and public outreach regarding the scientific and cultural importance of the discovery. Upon completion of the selected mitigations, a report documenting methods, findings, and recommendations shall be prepared by the qualified archaeologist and submitted to the City for review, and the final report shall be submitted to the Northwest Information Center at Sonoma State University. Significant archaeological materials shall be submitted to an appropriate local curation facility and used for future research and public interpretive displays, as appropriate.			responsible for determining the appropriate treatment of the discovery (if necessary). The Construction Contractor is responsible for cooperating with eh qualified archaeologist if resources are discovered. .	
CULT-2: In the event that Native American human remains are found during development of the proposed project and the Yocha Dehe Wintun Nation (Tribe) or a member of the Tribe is determined to be the Most Likely Descendent (MLD), the following provisions shall apply: • The Medical Examiner shall immediately be notified, ground disturbing activities in that location shall cease and the Tribe shall be allowed, pursuant to California Public Resources Code (PRC) Section 5097.98(a) to (1) inspect the site of the discovery and make determinations as to how the human remains and grave goods should be treated and disposed of with appropriate dignity. • The Tribe shall complete its inspection and make its MLD recommendation within forty-eight (48) hours of getting access to the site. The Tribe shall have the final determination as to the disposition and treatment of human remains and grave goods. Said determination may include avoidance of the human remains, reburial on-site or reburial on tribal or other lands that will not be disturbed in the future. • The Tribe may wish to rebury said remains and grave goods or ceremonial and cultural items on or near the site of their discovery, in an area which will not be subject to future	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	During construction activities	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. The Construction Contractor is responsible for cooperating with the Tribe, if resources are discovered. The Tribe is responsible for inspecting the find and making a final determination regarding the disposition and treatment of human	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
disturbances over a prolonged period of time. Reburial of human remains shall be accomplished in compliance with California PRC Sections 5097.98(a) and (b). The term "human remains" encompasses more than human bones because the Tribe's traditions call for the burial of associated cultural items with the deceased (funerary objects), and/or the ceremonial burning of Native American human remains, funerary objects, grave goods, and animals. Ashes, soils, and other remnants of these burning ceremonies, as well as associated funerary objects and unassociated funerary objects buried with or found near the Native American remains are to be treated in the same manner as bones or bone fragments that remain intact. • Unless otherwise required by law, the site of any reburial of Native American human remains shall not be disclosed and will not be governed by public disclosure requirements of the California Public Records Act (California Government Code Section 6250 et. seq). The Medical Examiner shall withhold public disclosure of information related to such reburial pursuant to the specific exemption set forth in California Government Code Section 6254(r). The Tribe will require that the location for reburial is recorded with the California Historic Resources Inventory System (CHRIS) on a form that is acceptable to the CHRIS center. The Tribe may also suggest that the landowner enter into an agreement regarding the confidentiality of site information that will run with title on the property. • Treatment of all cultural items, including ceremonial items and archaeological items will reflect the religious beliefs, customs, and practices of the Tribe. All cultural items, including ceremonial items and archaeological items, which may be found at a Project site should be turned over to the Tribe for appropriate treatment, unless otherwise ordered by a court of agency of competent jurisdiction. The project applicant should waive any and all claims to ownership of Tribal ceremonial and cultural items, including archaeological items, which may be			remains and grave goods.	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
found on a project site in favor of the Tribe. If any intermediary (e.g., an archaeological retained by the project applicant) is necessary, said entity or individual shall not possess those items for longer than is reasonably necessary, as determined solely by the Tribe. • If additional significant sites or sites not identified as significant in the environmental review process, but later determined to be significant are located within a project impact area, such sites will be subjected to further archaeological and cultural significance evaluation by the project applicant, Solano County and the Tribe to determine if additional mitigation measures are necessary to treat sites in a culturally appropriate manner consistent with CEQA requirements for mitigation of impacts to cultural resources. If there are human remains present that have been identified as Native American, all work will cease for a period of up to 30 days in accordance with Federal Law.				
CULT-3: The preferred protocol upon the discovery of Native American human remains is to secure the area, cover any exposed human remains or other cultural items and avoid further disturbances in the area. All parties are advised to treat the remains with appropriate dignity, as provided in PRC Section 5097.98. All parties shall treat tribal representatives and the event itself with appropriate respect. If, after the Yocha Dehe Tribal representative has been granted access to the site and it is determined that avoidance is not feasible, an examination of the human remains will be conducted to confirm they are human and to determine the position, posture, and orientation of the remains. The following procedures shall be followed: • All excavation in the vicinity of the human remains will be conducted using fine hand tools and fine brushes to sweep loose dirt free from the exposure.	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	During construction activities	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. The Construction Contractor is responsible for ensuring the proper protocol is followed, if resources are discovered. The Tribe is responsible for implementing the protocol for treatment	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
• In order to determine the nature and extent of the grade and its contents, controlled excavation should extend to a full buffer zone around the perimeter of the remains. • To initiate the exposure, a perimeter balk (especially, a shallow trench) should be excavated, representing a reasonable buffer a minimum of 10 centimeters around the maximum extent of the known skeletal remains, with attention to counterintuitive discoveries or unanticipated finds relating to this or other remains. The dirt from the perimeter balk should be bucketed, distinctly labeled, and screened for cultural materials. • Excavation should then proceed inward from the walls of the balk as well as downward from the surface of the exposure. Loose dirt should be scooped out and brushed off into a dustpan or other collective device. Considerable care should be given to ensure that human remains are not further impacted by the process of excavation. • Buckets, collection bags, notes, and tags should be fully labeled per provenience, and a distinction should be made between samples collected from: (1) Perimeter Balk (described above), (2) Exposure (dirt removed in exposing the exterior/burial plan and associations, and (3) Matrix (dirt from the interstices between bones or associations). Thus, each burial may have three bags, "Burial 1 Perimeter Balk," "Burial 1 Exposure Balk," "Burial 1 Matrix." • The following records should be compiled in the field: (1) a detailed scale drawing of the burial, including the provenience of and full for all human remains, associated artifacts, and the configuration of all associated phenomena such as burial pits, evidence for pre-interment grave pit burning, soil variability, and intrusive disturbance, (2) complete a formal burial record using the consultants proprietary form or other standard form providing information on site #, unit or other proveniences, level depth, depth and location of the burial from a fixed datum, workers, date(s), artifact list, skeletal inventory, and other pertinent observations, (3) crew chief and worker field			of remains, if they are granted access to the site.	

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
notes that may supplement or supercede information contained in the burial recording form, and (4) photographs, including either standard photography or high-quality (400-500 DPI or 10 MP recommended) digital imaging. • Photographs and images may be used only for showing location or configuration of questionable formation or for the position of the skeleton. They are not to be duplicated for publication unless a written release is obtained from the Tribe. • Association between the remains and other cultural materials should be determined in the field in consultation with an authorized Tribal representative, and may be amended per laboratory findings. Records of provenience and sample labels should be adequate to determine association or degree of likelihood of association of human remains and other cultural materials. • For each burial, all Perimeter Balk soil is to be 1/8"-screened. All Exposure soil is to be 1/8"-screened, and a minimum of one 5-gallon bucket of excavated but unscreened Exposure soil is to be collected, placed in a plastic garbage bag in the bucket. All Matrix soil is to be carefully excavated, screened as appropriate, and then collected in plastic bags placed in 5-gallon buckets. • Human remains are not to be cleaned in the field. • Prior to any physical action related to human remains, a designated tribal representative will conduct prayers and blessings over the remains. The archaeological consultant will be responsible for insuring that individuals and tools involved in the action are available for traditional blessings and prayers, as necessary. No laboratory studies are permitted without consultation with the tribe. Lab methods are determined on a project-specific basis in consultation with Yocha Dehe Wintun Nation representatives. The following procedures shall be implemented:				

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
• The primary archaeological consultant will be responsible for insuring that all lab procedures follow stipulations made by the Tribe. • Prior to any laboratory activities related to the remains, a designated tribal representative will conduct prayers and blessings over the remains. The archaeological consultant will be responsible for insuring that individuals and tools involved in the action are available for traditional blessings and prayers, as necessary. • To the extent possible, all remains, associations, samples, and original records are to be kept together throughout the laboratory process. In particular, Matrix dirt is to be kept in buckets and will accompany the remains to the lab. The primary archaeological consultant will be responsible for copying all field records and images and insuring that the original notes and records accompany the remains throughout the process. • Laboratory study should be done making every effort to identify unanticipated finds or materials missed in the field, such as objects encased in dirt or human remains misidentified as faunal remains in the field. In the event of discovery of additional remains, materials, and other associations the tribal representatives are to be contacted immediately. • No laboratory studies are permitted on human remains and funerary objects. The preferred treatment preference for exhumed Native American human remains is reburial in an area not subject to further disturbance. Any objects associated with remains will be reinterred with the remains. Laboratory study should be done making every effort to identify unanticipated finds or materials missed in the field, such as objects encased in dirt or human remains misidentified as faunal remains in the field. In the event of discovery of additional remains, materials, and other associations the tribal representatives are to be contacted immediately. • Should all, or a sample, of any archaeological materials collected during the data recovery activities - with the				

Table A: Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Actions	Timing Requirements	Monitoring/Reporting Responsibility	Verified By and Date
exception of Human Remains - need to be curated, an inventory and location information of the curation facility shall be given to tribe for our records.				
GEOLOGY AND SOILS				
GEO-1: Should paleontological resources be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified paleontologist contacted to assess the situation, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. For purposes of this mitigation, a "qualified paleontologist" shall be an individual with the following qualifications: (1) a graduate degree in paleontology or geology and/or a person with a demonstrated publication record in peer-reviewed paleontological journals; (2) at least two years of professional experience related to paleontology; (3) proficiency in recognizing fossils in the field and determining their significance; (4) expertise in local geology, stratigraphy, and biostratigraphy; and (5) experience collecting vertebrate fossils in the field. If the paleontological resources are found to be significant and project activities cannot avoid them, measures shall be implemented to ensure that the project does not cause a substantial adverse change in the significance of the paleontological resource. Measures may include monitoring, recording the fossil locality, data recovery and analysis, a final report, and accessioning the fossil material and technical report to a paleontological repository. Upon completion of the assessment, a report documenting methods, findings, and recommendations shall be prepared and submitted to the City of Vallejo for review. If paleontological materials are recovered, this report also shall be submitted to a paleontological repository such as the University of California Museum of Paleontology, along with significant paleontological materials. Public educational outreach may also be appropriate.	Include measure as Condition of Approval. Implementation actions are outlined in the measure.	During project subsurface construction and ground-disturbing activities.	The City of Vallejo is responsible for incorporating this measure into contract specifications and for ensuring compliance during construction. A qualified paleontologist is responsible for determining the appropriate treatment of the discovery (if necessary). The Construction Contractor is responsible for cooperating with eh qualified paleontologist if resources are discovered.	

Source: LSA 2023

Approved as to form:

By: _____ *for*
Veronica A.F. Nebb
City Attorney

ATTACHMENT 2

CITY OF VALLEJO PLANNING COMMISSION

RESOLUTION NO. PC23-09

A RESOLUTION APPROVING DEVELOPMENT REVIEW (DVR) 21-0021, DESIGN REVIEW (DR) 21-0005, AND LANDSCAPE REVIEW (LR) 21-0009, FOR A 429 DWELLING UNIT MULTI-FAMILY RESIDENTIAL PROJECT AT 5180 SONOMA BOULEVARD (APN: 0067-150-280)

* *

I. GENERAL FINDINGS

WHEREAS, on August 29, 2017, the City Council adopted General Plan 2040; and

WHEREAS, on July 22, 2021, the City Council adopted a new Zoning Code and Zoning Map; and

WHEREAS, on December 21, 2021, Russell Square Consulting, Inc. submitted an application seeking a Development Review, Design Review Permit, and Landscape Review for the construction of a 429 dwelling unit multi-family complex ("Project") located at 5180 Sonoma Boulevard ("the Property"); and

WHEREAS, the Property has a General Plan 2040 land use designation of District – North Gateway; and

WHEREAS, the Property is located in the Central Corridor Commercial Zoning District; and

WHEREAS, on April 21, 2022, the application for the Project was determined to be complete for processing; and

WHEREAS, on August 31, 2023, pursuant to Vallejo Municipal Code Section 16.602.08(A), notice of the hearing before the City of Vallejo Design Review Board was published in the Times Herald and mailed to all active neighborhood groups and property owners within 500 feet of the Property and electronically mailed to the members of the Design Review Board and to the applicant; and

WHEREAS, on October 12, 2023, at 7p.m., the City of Vallejo Design Review Board, after giving all public notices required by State law and the City of Vallejo Municipal Code, conducted a duly noticed public hearing; and

WHEREAS, the Design Review Board considered testimony and evidence, both written and oral, provided at the public hearing, as well as other documents contained in the record of proceedings relating to the Design and Landscape Review components of the Project, which are maintained in the offices of the City of Vallejo Planning Division; and

WHEREAS, the Design Review Board made a unanimous recommendation to the Planning Commission to approve said entitlements; and

WHEREAS, on October 16, 2023, pursuant to Vallejo Municipal Code Section16.602.08(A), notice of this hearing was published in the Times Herald and mailed to all active neighborhood groups and property owners within 500 feet of the Property and electronically mailed to the members of the Planning Commission and to the applicant; and

WHEREAS, the Planning Commission considered testimony and evidence, both written and oral, provided at the public hearing, as well as other documents contained in the record of proceedings relating to the Project, which are maintained in the offices of the City of Vallejo Planning Division; and

WHEREAS, on November 6, 2023 the Planning Commission approved Resolution No. PC23-08 adopting the Initial Study/ Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Project; and

WHEREAS, based on evidence received in the staff report and at the public hearing, the Planning Commission makes the following factual findings:

II. FINDINGS RELEVANT TO THE APPROVAL OF THE DEVELOPMENT REVIEW (VMC Section 16.605.03)

a. Complies with all applicable specific standards and criteria of this Zoning Code.

The proposed project is located on a property zoned Central Corridor Commercial (CC). As noted in Tables 4, the project as conditioned, is consistent with the applicable development standards outlined in Title 16 of the Vallejo Municipal Code.

b. Is consistent with the general plan and any applicable approved specific plan or planned development.

The project site is designated as District – North Gateway (D-NG) on the General Plan Land Use Map. The General Plan 2040 D-NG designation applies to the northern portion of the area north of SR 37 between Sonoma Boulevard and Broadway Street, a highly visible area that serves as a gateway to Napa Valley from SR 37 (heading north) and to Vallejo from American Canyon (heading south). It is intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area. The maximum permitted FAR in the D-NG designation is 2.0, with a minimum residential density of 30 dwelling units per acre up to 50 dwelling units per acre. As proposed, the project is consistent with the D-NG General Plan land use designation in that it consists of the addition of 429-units apartment complex in an area that incorporates higher-density residential development that will support nearby services and activities in the area. The project is also consistent with applicable General Plan 2040 policies as noted in the report.

c. Complies with any design conditions, standards, or requirements imposed by a discretionary approval including but not limited to a major or minor use permit, variance, specific plan, planned development, or tentative map applicable to the project or the location where it is proposed.

The project shall comply with the approved design and conditions of approval imposed by the Planning commission in the attached Resolution.

d. Is in substantial compliance with any applicable adopted design guidelines.

Not applicable; City does not have any adopted design guidelines for multi-family development.

DRAFT

e. Will serve to achieve groupings of structures that are well related one to another and which, taken together, will result in a well-composed urban design, with consideration given to site, height, arrangement, texture, material, color and appurtenances, the relation of these factors to other structures in the immediate area, and the relation of the development to the total setting as seen from key points in the surrounding area; only elements of design which have some significant relationship to outside appearance shall be considered.

Not applicable; City does not have any adopted design guidelines for multi-family development.

f. Will be of a quality and demonstrates thoughtful site planning that will serve to protect the value of private and public investments in the area.

Not applicable; City does not have any adopted design guidelines for multi-family development.

g. That the project has been reviewed in compliance with the California Environmental Quality Act, if applicable, and the requirements of this chapter.

As discussed above, the project has been determined not to have a significant adverse impact on the environment with the implementation of all the required mitigation measures which have been incorporated in the Mitigation Monitoring and Reporting Program. A mitigated Negative Declaration (MND) will be adopted, and a Notice of Determination will be filed with the Solano County Clerk's Office.

III. FINDINGS RELEVANT TO THE APPROVAL OF THE DESIGN REVIEW PERMIT (VMC Section 16.604.03.B)

A. Is consistent with the purposes of this chapter, the design policies of the general plan and any applicable specific plan, any adopted applicable design guidelines.

Purposes of the Chapter

1. Establish regulations for an objective process that applies urban design principles to ensure that new construction supports the best of the city's architectural traditions.

As proposed, the project meets the objective design standards called out in VMC Chapter 16.204 – Commercial Districts, as discussed in detail below.

2. Encourage new structures that show creativity and imagination, add distinction, interest, and variety to the community, and are environmentally sustainable.

The project is visually interesting and will be constructed with a variety of high-quality building materials and painted with simple, bold colors. Vertical and horizontal façade breaks, building massing, and modulation have all been incorporated into the design of the building and will create distinction in the established neighborhood. The project will incorporate a fully electric proposal, provide electric vehicle chargers and solar panels to be environmentally sustainable. Additionally, the project will be designed to meet the California Building Code Title 24 (energy efficiency standards) and the Green Building Standards.

DRAFT

3. **Promote architectural and design excellence in new construction and discourage poor quality development.**

   The project will be comprised of a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White. The project details, colors, materials, and landscaping are integrated with one and another to create a visually consistent proposal. Overall, the project uses high-quality, long-lasting material resulting in quality development.

4. **Ensure that future development should:**
   a. **Reflect the values of the community.**
   b. **Enhance the surrounding environment.**
   c. **Visually harmonize with its surroundings and not unnecessarily obstruct scenic views; and**
   d. **Avoid nostalgic misrepresentations that may confuse the relationships among structures over time.**

   The project reflects the promotion of infill development that targets underutilized sites, which is a policy identified in the General Plan. It will enhance the surrounding environment by incorporating high-density residential development that will support nearby and future services and activities in the area. Due to its location, the project will not obstruct scenic views and due to its nature and design, nor will it confuse the relationships among structures over time.

5. **Ensure that decisions on housing development projects are based on objective design standards as required by the State Housing Accountability Act (Government Code Section 65589.5).**

   The Housing Accountability Act (HAA), California Government Code Section 65589.5(j), requires that when a proposed housing development complies with the applicable, objective general plan and zoning standards, but a local agency proposes to deny the project or approve it only if the density is reduced, the agency must base its decision on written findings supported by substantial evidence that:

   1. The development would have a specific adverse impact on public health or safety unless disapproved, or approved at a lower density; and
   2. There is no feasible method to satisfactorily mitigate or avoid the specific adverse impact, other than the disapproval, or approval at a lower density.

   As described in Tables 3 and 4 of the staff report above, the project complies with the applicable, objective general plan and zoning standards. Therefore, the city may not deny the project or approve the project at a reduced density without basing its decision on the written findings under Section 65589.5(j), above.

6. **Provide for new landscaping to create a visually pleasing setting for structures on the site.**

   The project includes a total of 105,959 square feet of new drought tolerant landscaping throughout the site. A total of 43 new street trees, shrubs and ground cover will be planted to enhance the public realm within the subject site.

7. **Promote the protection and retention of landmark, native, and specimen trees and if feasible mature canopy trees and other significant landscaping of aesthetic and environmental value.**

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Not applicable; the existing trees on the subject site do not meet the minimum dimensions of 24-inches in diameter as measured six-inches from the ground and therefore are not considered significant or specimen trees.

8. **Ensure that the design, quality, and location of signs are consistent with the character and scale of the structures to which they are attached and are visually harmonious with surrounding development.**

   Not applicable; no signs being proposed with the project.

9. **Promote the conservation, enhancement, preservation, and protection of historic resources.**

   Not applicable; there are no historic resources near this project's location.

Design policies of the General Plan

The project site is designated as District – North Gateway (D-NG) on the General Plan Land Use Map. The General Plan 2040 D-NG designation intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area. As proposed, t*he project is consistent with the D-NG land use designation in that it incorporates high-density residential development that will support nearby and future services and activities in the area. Additionally, the project is also consistent with applicable General Plan 2040 policies and actions.*

Adopted applicable design guidelines.

The subject site is not within an adopted specific plan and design guidelines have not been adopted for this location.

B. Is consistent with any planning are zoning approvals by the director or the planning commission.

The project is consistent with the CC zoning district in that it is a proposal of a new 429 dwelling unit multi-family residential project and meets all appropriate development standards of the Vallejo Municipal Code. Vallejo Municipal Code Section 16.604.01(K.1.c), states residential projects with 50 or more units is a Design Review Board recommendation to the Planning Commission. The final authority of this action is the Planning Commission.

C. Complies with any other relevant city policies or regulations.

Not applicable; there are no additional city policies or regulations that are applicable to the project.

IV. RESOLUTION APPROVING THE PROJECT AT 5180 SONOMA BOULEVARD

NOW, THEREFORE, LET IT BE RESOLVED that the Planning Commission hereby APPROVES Development Review (DVR21-0021), Design Review (DR21-0005), Landscape Review (LR21-0009), subject to the Conditions of Approval attached hereto as Exhibit A.

DRAFT

V. VOTE

PASSED AND ADOPTED at a regular meeting of the Planning Commission of the City of Vallejo, State of California, on the 6th day of November 2023 by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

_____

JAMAR STAMPS, CHAIRPERSON

City of Vallejo Planning Commission

Attest:

_____

CESAR OROZCO, SECRETARY
City of Vallejo Planning Commission

Exhibits:

A. Exhibit A – Conditions of Approval

DRAFT

CONDITIONS OF APPROVAL

DEVELOPMENT REVIEW (DVR21-0021)
DESIGN REVIEW (DR21-0005)
LANDSCAPE REVIEW (LR21-0009)
ENVIRONMENTAL DOCUMENT (ED23-0002)
5180 SONOMA BOULEVARD, VALLEJO CA, 94589
APN:0067-150-280

PERMIT DESCRIPTION: The project consists of demolishing the existing vacant commercial building and constructing a total of 429 dwelling units that will be distributed across 11 buildings. Two building types are proposed with a mixture of one-, two-, and three-bedroom units, ranging in size from approximately 767 to 1,637 square feet. Each of the 11 residential buildings will have a building height of 59 feet and four inches. Exterior materials would include a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and pure white. In addition to the residential buildings, the project will provide a central amenity building containing leasing offices, restrooms, and a mailroom on the ground floor. Similar to the residential buildings, the amenity building will include a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and pure white. Additionally, the site includes approximately 105,959 square feet of new landscaping that will provide for private and common open spaces, and 698 off-street parking spaces.

A. **PLANNING DIVISION**
Cesar Orozco, Principal Planner | cesar.orozco@cityofvallejo.net | 707.648.5436

Pre-Building Permit

1. Prior to building permit issuance, Applicant shall submit a numbered list to the Planning Division with a written response on how each condition of approval (COA) contained in this report will be satisfied. The list should be submitted to the project planner who will coordinate development of the project. The revised list will be included in the permit set after the cover sheet with each condition listed and how the applicant will address each condition in writing.

2. Prior to building permit issuance, Applicant shall apply for and receive a Temporary Use Permit from the Planning Division for any temporary office or construction trailer.

3. Prior to building permit issuance, the Planning Division shall confirm that the building permit, grading permit and all other drawings and documents substantially conform with the documents and/or representations, whether oral or written that were presented to and approved by the Planning Commission on November 6, 2023. Pursuant to VMC 16.602.10.b the site plan, floor plans, building elevations and/or any additional information or representations, whether oral or written, indicating the proposed structure or manner of operation submitted with an application or submitted during the approval process shall be deemed conditions of approval. Any approval may be subject to requirements that the applicant guarantees, warranties, or ensures compliance with the plans and conditions in all respects.

4. Prior to building permit issuance, the Planning and Development Services Director may require the applicant to submit such information as proposed machinery, processes, products, or environmental impacts as may be necessary to demonstrate the ability of the proposed uses to comply with applicable performance standards. Such required information may include reports by expert consultants. Whenever an environmental impact report has been submitted and determined to be adequate under state and city guidelines, no further information shall be required. (VMC Section 16.505.02 (B).)

Before Construction

1. Prior to construction activities occurring during the nesting bird season (February 1 through August 31), preconstruction activity surveys for nesting birds shall be conducted by a qualified biologist to ensure that no nests are disturbed during project implementation. Surveys shall be conducted no more than seven days prior to the initiation of construction activities. During this survey, the biologist shall inspect all trees and other potential nesting habitats (e.g., shrubs, ground and structures) in the impact area plus a surrounding 300-foot buffer for nests. If removal of potential nesting substrate or project grading would occur during more than one nesting season, or in different parts of the site in phases over the course of a single season, then additional pre-activity surveys must be performed within seven days prior to initiation of work in any particular area. If the preconstruction activity survey does not identify the presence of any active nests on or within 300 feet of the site, construction activities may proceed.

   If nests known to have eggs or young, or that cannot be confirmed to be inactive or to lack eggs or young, are found, or adults are demonstrating nesting behavior, a qualified biologist shall establish an appropriate construction-free buffer around each nest. Generally, a buffer of 300 feet for raptors and 100 feet for songbirds are adequate to avoid causing nest abandonment. The buffer shall remain in place until the qualified biologist has confirmed that the nest is no longer active.

   If less than a 100-foot nest buffer is necessary and determined to be appropriate for a particular nest or nests, a qualified biologist shall monitor the nest(s) before construction to document baseline nesting behavior and monitor the nest during construction to ensure nesting birds are not exhibiting signs of stress and territorial behavior. If signs of stress are observed during the monitoring, construction activities shall cease or the buffer shall increase, as determined by a qualified biologist, to a sufficient distance where the nesting birds are longer exhibiting signs of stress.

   To prevent encroachment, the buffer shall be clearly marked for avoidance. The established buffer shall remain in effect until the young have fledged or the nest is no longer active as confirmed by the biologist.

2. Prior to any tree removal during the maternity roosting period (April 15 to August 31) or hibernation period (October 15 to February 28), a focused tree habitat assessment shall be conducted by a qualified bat biologist of all trees that would be removed or impacted by construction activities. Trees containing suitable potential bat roosting habitat features would then be clearly marked. The habitat assessments should be conducted enough in advance to allow preparation of a report with specific recommendations, and to ensure tree removal can be scheduled during seasonal periods of bat activity if required. If it is determined that day roosting bats are unlikely to occur, the tree may be removed as described below. If the absence of roosting bats cannot be confirmed, then the removal of trees providing suitable maternity or hibernation roosting habitat should only be conducted during seasonal periods of bat activity, including:

   Prior to any tree removal during the maternity roosting period (April 15 to August 31) or hibernation period (October 15 to February 28), a focused tree habitat assessment shall be conducted by a qualified bat biologist of all trees that would be removed or impacted by construction activities. Trees containing suitable potential bat roosting habitat features would then be clearly marked. The habitat assessments should be conducted enough in advance to allow preparation of a report with specific recommendations, and to ensure tree removal can be scheduled during seasonal periods of bat activity if required. If it is determined that day roosting bats are unlikely to occur, the tree may be removed as described below. If the absence of roosting bats cannot be confirmed, then the removal of trees providing suitable maternity or hibernation roosting habitat should only be conducted during seasonal periods of bat activity, including:

   A. Between March 1 (or after evening temperatures rise above 45 degrees Fahrenheit (F) and/or no more than 1/2 inch of rainfall within 24 hours occurs) and April 15; or

B. Between September 1 and about October 15 (or before evening temperatures fall below 45 degrees F and/or more than 1/2 inch of rainfall within 24 hours occurs).

Appropriate methods shall be used to minimize the potential harm to bats during tree removal. Such methods may include but are not limited to using a two-step tree removal process. This method is conducted over two consecutive days and works by creating noise and vibration by cutting non-habitat branches and limbs from habitat trees using chainsaws only (no excavators or other heavy machinery) on Day 1. The noise and vibration disturbance, together with the visible alteration of the tree, is very effective in causing bats that emerge nightly to feed, to not return to the roost that night. The remainder of the tree is removed on Day 2. A bat biologist qualified in two-step tree removal is required on Day 1 to supervise and instruct the tree-cutters who will be on the site conducting the work, but only for a sufficient length of time to train all tree cutters who will conduct two-step removal of habitat trees. The bat biologist is generally not required on Day 2, unless a very large cavity is present and a large colony is suspected.

During Construction

1. Construction activities shall be managed in compliance with the following requirements:

    a. Site Watering. During the construction of a project, all portions of the site shall be watered as necessary to reduce emissions of dust and other particulate matter. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.

    b. All stockpiles shall be covered.

    c. Emissions. Construction and transport equipment shall be operated so as to minimize exhaust emissions. During construction, trucks and equipment should be running only when necessary.

    d. During construction of the proposed project, the project contractor shall ensure that all off-road diesel-powered construction equipment of 50 horsepower or more used for the project construction at a minimum meets the California Air Resources Board Tier 2 emissions standards equipped with Level 3 diesel particulate filters or the equivalent.

    e. Hours of Operation. Grading and pile driving operations within ¼ mile of residential units shall be limited to between 8:00 am and 5:00 p.m. on weekdays to ensure compliance with the requirements for construction activity in Vallejo Municipal Code Subsection 16.502.12.D.1., Maximum Noise Level for Temporary Construction Activity, or as otherwise restricted as part of an approval.

    f. Water Run-off. All water run-off from construction sites shall be controlled. During construction, trucks and equipment should be running only when necessary, and shall comply with Chapter 12.41 of the Vallejo Municipal Code.

    g. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.

    h. All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.

    i. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.

    j. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible.

k. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of the California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

l. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

m. A publicly visible sign shall be posted with the telephone number and person to contact at the City of Vallejo regarding dust complaints. This person shall respond and take corrective action within 48 hours. The BAAQMD's phone number shall also be visible to ensure compliance with applicable regulations.

2. Noise. All construction and transport equipment shall be muffled in accordance with state and federal laws.

3. No person shall make, or cause to suffer, or permit to be made upon any public property, public right-of-way or private property, any excessive noise, annoying noise, amplified sound or vibrations that are physically annoying to reasonable persons of normal sensitivity or that are so harsh or so prolonged or unnatural or unusual in their use, time or place as to cause or contribute to the unnecessary and unreasonable discomfort of any persons of normal sensitivity located at the lot line of the property from which these noises emanate or that interfere with the peace and comfort of residents or their guests, or the operators or customers in places of business in the vicinity, or that may detrimentally or adversely affect such residences or places of business. (VMC Section 16.502.09 (C).)

4. Construction, demolition, and related loading/unloading activities that may generate noise shall be limited to the following: 7 a.m. and 6 p.m. Monday- Friday, Saturday 9 am- 6 pm and Sundays and holidays not allowed. (VMC Section 16.502.09 (D).)

5. The fencing for construction sites shall not be installed until a building permit or grading permit has been issued and shall be removed prior to final inspection. In the event that the building permits expire before the construction is completed, the Planning and Development Services Director may issue a temporary use permit pursuant to Chapter 16.339, Temporary Uses, to allow the fencing to remain for a longer period of time. (VMC Section 16.505.08 (B).)

6. Should an archaeological deposit be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology contacted to assess the situation, determine if the deposit qualifies as a historical resource, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. If the deposit is found to be significant (i.e., eligible for listing in the California Register of Historical Resources), the project applicant shall be responsible for funding and implementing appropriate mitigation measures. Mitigation measures may include recording the archaeological deposit, data recovery and analysis, and public outreach regarding the scientific and cultural importance of the discovery. Upon completion of the selected mitigations, a report documenting methods, findings, and recommendations shall be prepared by the qualified archaeologist and submitted to the City for review, and the final report shall be submitted to the Northwest Information Center at Sonoma State University. Significant archaeological materials shall be submitted to an appropriate local curation facility and used for future research and public interpretive displays, as appropriate.

7. In the event that Native American human remains are found during development of the proposed project and the Yocha Dehe Wintun Nation (Tribe) or a member of the Tribe is determined to be the Most Likely Descendent (MLD), the following provisions shall apply:

A. The Medical Examiner shall immediately be notified, ground disturbing activities in that location shall cease and the Tribe shall be allowed, pursuant to California Public Resources Code (PRC) Section 5097.98(a) to (1) inspect the site of the discovery and make determinations as to how the human remains and grave goods should be treated and disposed of with appropriate dignity.

B. The Tribe shall complete its inspection and make its MLD recommendation within forty-eight (48) hours of getting access to the site. The Tribe shall have the final determination as to the disposition and treatment of human remains and grave goods. Said determination may include avoidance of the human remains, reburial on-site or reburial on tribal or other lands that will not be disturbed in the future.

C. The Tribe may wish to rebury said remains and grave goods or ceremonial and cultural items on or near the site of their discovery, in an area which will not be subject to future disturbances over a prolonged period of time. Reburial of human remains shall be accomplished in compliance with California PRC Sections 5097.98(a) and (b). The term "human remains" encompasses more than human bones because the Tribe's traditions call for the burial of associated cultural items with the deceased (funerary objects), and/or the ceremonial burning of Native American human remains, funerary objects, grave goods, and animals. Ashes, soils, and other remnants of these burning ceremonies, as well as associated funerary objects and unassociated funerary objects buried with or found near the Native American remains are to be treated in the same manner as bones or bone fragments that remain intact.

D. Unless otherwise required by law, the site of any reburial of Native American human remains shall not be disclosed and will not be governed by public disclosure requirements of the California Public Records Act (California Government Code Section 6250 et. seq). The Medical Examiner shall withhold public disclosure of information related to such reburial pursuant to the specific exemption set forth in California Government Code Section 6254(r). The Tribe will require that the location for reburial is recorded with the California Historic Resources Inventory System (CHRIS) on a form that is acceptable to the CHRIS center. The Tribe may also suggest that the landowner enter into an agreement regarding the confidentiality of site information that will run with title on the property.

E. Treatment of all cultural items, including ceremonial items and archaeological items will reflect the religious beliefs, customs, and practices of the Tribe. All cultural items, including ceremonial items and archaeological items, which may be found at a Project site should be turned over to the Tribe for appropriate treatment, unless otherwise ordered by a court of agency of competent jurisdiction. The project applicant should waive any and all claims to ownership of Tribal ceremonial and cultural items, including archaeological items, which may be found on a project site in favor of the Tribe. If any intermediary (e.g., an archaeological retained by the project applicant) is necessary, said entity or individual shall not possess those items for longer than is reasonably necessary, as determined solely by the Tribe.

F. If additional significant sites or sites not identified as significant in the environmental review process, but later determined to be significant are located within a project impact area, such sites will be subjected to further archaeological and cultural significance evaluation by the project applicant, Solano County and the Tribe to determine if additional mitigation measures are necessary to treat sites in a culturally appropriate manner consistent with CEQA requirements for mitigation of impacts to cultural resources. If there are human remains present that have been identified as Native American, all work will cease for a period of up to 30 days in accordance with Federal Law.

8. The preferred protocol upon the discovery of Native American human remains is to secure the area, cover any exposed human remains or other cultural items and avoid further disturbances in the

area. All parties are advised to treat the remains with appropriate dignity, as provided in PRC Section 5097.98. All parties shall treat tribal representatives and the event itself with appropriate respect.

If, after the Yocha Dehe Tribal representative has been granted access to the site and it is determined that avoidance is not feasible, an examination of the human remains will be conducted to confirm they are human and to determine the position, posture, and orientation of the remains. The following procedures shall be followed:

A. All excavation in the vicinity of the human remains will be conducted using fine hand tools and fine brushes to sweep loose dirt free from the exposure.

B. In order to determine the nature and extent of the grade and its contents, controlled excavation should extend to a full buffer zone around the perimeter of the remains.

C. To initiate the exposure, a perimeter balk (especially, a shallow trench) should be excavated, representing a reasonable buffer a minimum of 10 centimeters around the maximum extent of the known skeletal remains, with attention to counterintuitive discoveries or unanticipated finds relating to this or other remains. The dirt from the perimeter balk should be bucketed, distinctly labeled, and screened for cultural materials.

D. Excavation should then proceed inward from the walls of the balk as well as downward from the surface of the exposure. Loose dirt should be scooped out and brushed off into a dustpan or other collective device. Considerable care should be given to ensure that human remains are not further impacted by the process of excavation.

E. Buckets, collection bags, notes, and tags should be fully labeled per provenience, and a distinction should be made between samples collected from: (1) Perimeter Balk (described above), (2) Exposure (dirt removed in exposing the exterior/burial plan and associations, and (3) Matrix (dirt from the interstices between bones or associations). Thus, each burial may have three bags, "Burial 1 Perimeter Balk," "Burial 1 Exposure Balk," "Burial 1 Matrix."

F. The following records should be compiled in the field: (1) a detailed scale drawing of the burial, including the provenience of and full for all human remains, associated artifacts, and the configuration of all associated phenomena such as burial pits, evidence for pre-interment grave pit burning, soil variability, and intrusive disturbance, (2) complete a formal burial record using the consultants proprietary form or other standard form providing information on site #, unit or other proveniences, level depth, depth and location of the burial from a fixed datum, workers, date(s), artifact list, skeletal inventory, and other pertinent observations, (3) crew chief and worker field notes that may supplement or supersede information contained in the burial recording form, and (4) photographs, including either standard photography or high-quality (400-500 DPI or 10 MP recommended) digital imaging.

G. Photographs and images may be used only for showing location or configuration of questionable formation or for the position of the skeleton. They are not to be duplicated for publication unless a written release is obtained from the Tribe.

H. Association between the remains and other cultural materials should be determined in the field in consultation with an authorized Tribal representative and may be amended per laboratory findings. Records of provenience and sample labels should be adequate to determine association or degree of likelihood of association of human remains and other cultural materials.

I. For each burial, all Perimeter Balk soil is to be 1/8"-screened. All Exposure soil is to be 1/8"-screened, and a minimum of one 5-gallon bucket of excavated but unscreened

Exposure soil is to be collected, placed in a plastic garbage bag in the bucket. All Matrix soil is to be carefully excavated, screened as appropriate, and then collected in plastic bags placed in 5-gallon buckets.

J. Human remains are not to be cleaned in the field.

K. Prior to any physical action related to human remains, a designated tribal representative will conduct prayers and blessings over the remains. The archaeological consultant will be responsible for ensuring that individuals and tools involved in the action are available for traditional blessings and prayers, as necessary.

No laboratory studies are permitted without consultation with the tribe. Lab methods are determined on a project-specific basis in consultation with Yocha Dehe Wintun Nation representatives. The following procedures shall be implemented:

A. The primary archaeological consultant will be responsible for insuring that all lab procedures follow stipulations made by the Tribe.

B. Prior to any laboratory activities related to the remains, a designated tribal representative will conduct prayers and blessings over the remains. The archaeological consultant will be responsible for ensuring that individuals and tools involved in the action are available for traditional blessings and prayers, as necessary.

C. To the extent possible, all remains, associations, samples, and original records are to be kept together throughout the laboratory process. In particular, Matrix dirt is to be kept in buckets and will accompany the remains to the lab. The primary archaeological consultant will be responsible for copying all field records and images and ensuring that the original notes and records accompany the remains throughout the process.

D. Laboratory study should be done making every effort to identify unanticipated finds or materials missed in the field, such as objects encased in dirt or human remains misidentified as faunal remains in the field. In the event of discovery of additional remains, materials, and other associations the tribal representatives are to be contacted immediately.

E. No laboratory studies are permitted on human remains and funerary objects. The preferred treatment preference for exhumed Native American human remains is reburial in an area not subject to further disturbance. Any objects associated with remains will be reinterred with the remains. Laboratory study should be done making every effort to identify unanticipated finds or materials missed in the field, such as objects encased in dirt or human remains misidentified as faunal remains in the field. In the event of discovery of additional remains, materials, and other associations the tribal representatives are to be contacted immediately.

F. Should all, or a sample, of any archaeological materials collected during the data recovery activities - with the exception of Human Remains - need to be curated, an inventory and location information of the curation facility shall be given to tribe for our records.

9. Should paleontological resources be encountered during project subsurface construction activities, all ground-disturbing activities within 25 feet shall be redirected and a qualified paleontologist contacted to assess the situation, consult with agencies as appropriate, and make recommendations for the treatment of the discovery. For purposes of this mitigation, a “qualified paleontologist” shall be an individual with the following qualifications: (1) a graduate degree in

paleontology or geology and/or a person with a demonstrated publication record in peer-reviewed paleontological journals; (2) at least two years of professional experience related to paleontology; (3) proficiency in recognizing fossils in the field and determining their significance; (4) expertise in local geology, stratigraphy, and biostratigraphy; and (5) experience collecting vertebrate fossils in the field. If the paleontological resources are found to be significant and project activities cannot avoid them, measures shall be implemented to ensure that the project does not cause a substantial adverse change in the significance of the paleontological resource. Measures may include monitoring, recording the fossil locality, data recovery and analysis, a final report, and accessioning the fossil material and technical report to a paleontological repository. Upon completion of the assessment, a report documenting methods, findings, and recommendations shall be prepared and submitted to the City of Vallejo for review. If paleontological materials are recovered, this report also shall be submitted to a paleontological repository such as the University of California Museum of Paleontology, along with significant paleontological materials. Public educational outreach may also be appropriate.

Pre-Operation

1. Prior to first final building inspection, the landscape architect shall provide a complete Certificate of Completion and Certificate of Installation According to the Landscape Documentation in accordance with VMC Chapter 16.71: Water Efficient Landscape Requirements. The documentation shall include the following:
    a. Irrigation Scheduling (VMC Section 16.71.050)
    b. Schedule of Landscape and Irrigation Maintenance (VMC Section 16.71.051)
    c. Landscape Irrigation Audit Report (VMC Section 16.71.052)
    d. Soil Management Report (VMC Section 16.71.045)

2. Prior to first final building inspection, the Applicant shall install landscaping and irrigation per approved plans. The landscape architect shall verify in writing that the landscaping and irrigation have been installed in accordance with the approved landscape plans with respect to size, health, number and species of plants, and the overall design concept.

3. Prior to first final building inspection, all new American Disabilities Act (ADA) improvements shall be to the satisfaction of the Building Official.

Landscaping

1. Maintenance Required. All landscaping shall be permanently maintained in a healthy and thriving condition at all times, in compliance with the approved landscape plan. Irrigation systems and their components shall be maintained in a fully functional manner consistent with the original approved design or upgraded to reflect current best practices for water efficiency. Regular maintenance shall include but is not limited to:
    a. Adjusting, checking, and repairing irrigation equipment; resetting automatic controllers; aerating and de-thatching turf areas; adding/replenishing fertilizer, mulch, soil amendments; insect control; the replacement of dead or diseased plants; pruning; watering; and weeding all landscaped areas.
    b. The trimming of vegetation is necessary to maintain the effective functioning of solar energy facilities and passive solar design features installed both on site and on adjacent properties.
    c. The trimming of vegetation is necessary to keep pedestrian and bicycle paths clear. (VMC Section 16.504.08 (A).)
    d. Pruning, cultivating, weeding, fertilizing, replacement of plants, and watering on a regular basis.

e. Pruning or removal of overgrown vegetation, cultivated or uncultivated, that may harbor rats, vermin, or other nuisances, or otherwise be detrimental to neighboring properties.
f. The removal of dead, decayed, diseased, or hazardous trees, weeds and debris that create an unsightly appearance and may be dangerous to public safety and welfare or detrimental to neighboring properties or property values. Compliance shall be by removal, replacement, or maintenance.
g. Landscaping (trees, shrubs, ground cover, turf, etc.) which, due to accident, damage, disease, lack of maintenance, or other cause, fails to show a healthy appearance and growth, shall be replaced. Replacement plants shall conform to all standards that govern the original planting installation, approved landscaping plan, or as approved by the director. (VMC Section 16.504.08 (D).)

2. Litter shall be removed from all landscaped areas in a timely fashion. (VMC Section 16.504.08 (B).)

3. Turf areas shall be mowed on a regular basis and be kept green. Accumulation of leaves, twigs, bark, and other similar materials shall be removed on a regular basis. Planting areas shall be kept free of weeds at all times. (VMC Section 16.504.08 (C).)

Fences, Walls, and Screening

1. Fencing and walls shall be continuously maintained with no sign of rust or disrepair. The graffiti shall be removed within forty-eight hours of discovery by the property manager. (VMC Section 16.505.02 (B).)

2. All exterior mechanical equipment, whether on a roof, on the side of a structure, or located on the ground, shall be screened from public view. Exterior mechanical equipment to be screened includes, without limitation, heating, ventilation, air conditioning, refrigeration equipment, plumbing lines, ductwork, transformers, smoke exhaust fans, water meters, backflow preventers, service entry section, back-up and emergency generators, and similar utility devices.
    a. Screening shall be architecturally integrated into the main structure with regard to materials, color, shape, and size to appear as an integral part of the building or structure.
    b. Equipment shall be screened on all sides, and screening materials shall be opaque.
    c. When screening with plants, evergreen types of vegetation shall be planted and maintained. Plant material sizes and types shall be selected and installed so that, at the time of building occupancy, such plants effectively screen their respective equipment.
    d. The use of wood expanded metal lath, and chain link for the purpose of screening is prohibited. (VMC Section 16.505.10)

Lighting

1. Lighting shall be designed, located, and installed to be directed downward or toward structures, be shielded or fully shielded, and shall be well-maintained in order to prevent glare, light trespass (unwanted light on adjacent lots and public rights-of-way), and light pollution to the maximum extent feasible. No permanently installed lighting shall blink, flash, or be of unusually high intensity or brightness, as determined by the Planning and Development Services Director . (VMC Section 16.506.04 (B))

2. All outdoor lighting in non-residential zoning districts shall be turned off during daylight hours and during any hours when the building is not in use and the lighting is not required for security. (VMC Section 16.506.04 (D))

Parking

1. In parking facilities containing twenty or more spaces serving multi-unit residential, mixed-use, commercial and hotels and motels, at least three percent of parking spaces shall be electric vehicle (EV) charging stations. Such spaces may be counted towards the parking requirements of this Zoning Code.
    a. Size. Electric vehicle charging stations shall be the same size as other spaces, and electric vehicle charging equipment shall not reduce the size of the space.
    b. Signage. Each electrical vehicle charging station shall be clearly marked with a sign reading "Electrical Vehicle Charging Station" and the associated California Vehicle Code restrictions, and only a vehicle that is connected for electric charging shall be allowed to park in the stalls or spaces so designated.
    c. Equipment. Electrical vehicle charging stations shall be equipped with electrical outlets, and may also be equipped with card readers, controls, connector devices and other equipment, as necessary for public use. (VMC Section 16.508.09)

Signs

1. All signs shall be installed as shown on approved project plans. Any changes to the proposed signage shall receive approval by the Planning and Development Services Director .

2. No moving, rotating, flashing, or changing of color intensity or signs with electronic/digitally created content (i.e., electronic reader board signs), and no windblown signs, such as posters, pennants, streamers, or strings of light bulbs, balloons, or other inflated objects are permitted. The only exceptions to these requirements are time and temperature devices and signs installed by a governmental agency in carrying out its responsibility to protect public health, safety, and general welfare. (VMC Section 16.509.07 (C))

3. Portable Signs. An "A" frame sign or other sign attached to a device used to allow the sign to be rolled or moved around is prohibited. Included in this category are signs larger than three square feet affixed to a vehicle intended for the purpose of business identification, directional to a business, or advertisement of a business. (VMC Section 16.509.07 (D))

General Requirements

1. A final decision on an application for any discretionary approval subject to appeal shall become effective after the expiration of ten calendar days following the date of action unless an appeal is filed. No building permit or business license shall be issued until the 11th day following the date of the action. If a different termination date is fixed at the time of granting, or if actual construction or alteration has begun under valid building permits, the ten-day period may be waived. (VMC Section 16.602.11)

2. The review authority, in the granting of any permit, may specify a time, consistent with the purposes of the use and necessary to safeguard the public safety, health and welfare, within which the proposed use must be undertaken and actively and continuously pursued. If no time period is specified, any permit granted under the Zoning Code shall automatically expire within two years of the effective date (November 6, 2025; if approved) (VMC Section 16.602.12 (A)). All Planning permits associated with this approval shall expire on November 6, 2025, unless exercised or extended.

3. If a permit is granted in conjunction with approval of new construction, issuance of a building permit shall constitute exercise of rights; provided, however, that, unless otherwise specified as a condition of project approval, the permit shall expire if:
        i. The Building Permit expires.

ii. Final inspection is not completed, or certificate of occupancy issued within the time specified as a condition of project approval.
iii. The rights granted under the permit are not exercised within one year following the earliest to occur of the following: issuance of a certificate of occupancy; or if no certificate of occupancy is required, the last required final inspection for the new construction. (VMC Section 16.602.11 (B))

4. The Planning and Development Services Director may approve a one-year extension of any permit or approval granted for a residential or non-residential project under the Zoning Code upon receipt of a written application and fees received fifteen calendar days (October 22, 2025) before the expiration date with the required fee prior to expiration of the permit. (VMC Section 16.602.11 (C.1))

5. No change in the use or structure for which a permit or other approval has been issued is permitted unless the permit is modified as provided for in the Zoning Code. For the purpose of this chapter, the modification of a permit may include minor modification of a development review approval that is in substantial compliance as determined by the Planning and Development Services Director. (VMC Section 16.602.11 (D))

6. Applications for changes to an approved permit must be filed and processed in compliance with the requirements in VMC Section 16.602.02, Application Forms and Fees, and shall be subject to a fee established by the Master Fee Schedule.
    a. Minor Modifications. The Planning and Development Services Director may approve minor changes to approved plans that are consistent with the original findings and conditions approved by the hearing body and would not intensify any potentially detrimental effects of the project.
    b. Major Modifications. A request for changes in conditions of approval of a discretionary permit or a change in an approved site plan or building plan that would affect the findings adopted as a basis for project approval shall be treated as a new application, except that the Planning and Development Services Director may approve changes that she determines to be minor. (VMC Section 16.602.11 (E))

7. A request for major changes to an approved site plan or building plan that will not affect the findings adopted as a basis for project approval, but are still considered substantial, shall be forwarded to the original review authority for the discretionary permit for review and approval. Any changes to the proposed colors shall require approval by the Planning and Development Services Director. (VMC Section 16.602.11 (F))

8. For new developments, utilities including, but not limited to, all electrical, telephone, cable television, fiber-optic cable, gas, water, sewer, irrigation/recycled water, and similar distribution lines providing direct service to a project shall be installed underground within the site. This requirement may be waived by the Planning and Development Services Director upon determining that underground installation is infeasible, or the electrical line is otherwise exempt from an under-grounding requirement. (VMC Section 16.501.10)

9. Within five business days after project approval, the Applicant shall pay the Notice of Determination filing fee (the latest fees in effect at the time of payment) for County Clerk processing, made payable to Solano County and submitted to the City of Vallejo Planning Division. If an in-person filing is required, such filing shall be completed by the Applicant, unless directed otherwise by the Planning Division. NOTE: If the fees are not paid and the Notice of Exemption is not filed within five working days after approval of the project, it will extend time frames for California Environmental Quality Act (CEQA) legal challenges.

10. The Applicant shall obtain an inspection from the Planning Division prior to final building inspection. All inspections require a minimum of 24-hour notice. Occupancy permits shall not be granted until all construction and landscaping are completed and finaled in accordance with the approved plans

and required conditions of approval or a bond has been posted to cover all costs of the unfinished work as agreed to by the Planning and Development Services Director.

11. Applicant shall indemnify, hold harmless, and defend City, its officers, officials, directors, employees, agents, volunteers and affiliates and each of them from any and all claims, demands, causes of action, damages, costs, expenses, actual attorney's fees, applicant's fees, expert fees, losses or liability, in law or in equity, of every kind and nature whatsoever arising out of or in connection with Applicant's operations, or any subcontractor's operations, to be performed under this agreement for Applicant's or subcontractor's tort negligence including active or passive, or strict negligence, including but not limited to personal injury including, but not limited to bodily injury, emotional injury, sickness or disease, or death to persons and/or damage to property of anyone, including loss of use thereof, caused or alleged to be caused by any act or omission of Applicant, or any subcontractor, or anyone directly or indirectly employed by any of them or anyone for the full period of time allowed by the law, regardless to any limitation by insurance, with the exception of the sole negligence or willful misconduct of the City. No modification of the project, any application, permit, certification, condition, environmental determination, other approval, change in applicable laws and regulations, or change in processing methods shall alter the Applicant's indemnity obligation.

B. BUILDING DIVISION

Steve Arnold, Chief Building Official | steve.arnold@cityofvallejo.net | 707.648.4387

1. Plans and permits required for Building, mechanical, plumbing, and electrical work per California Code of Regulations, Title 24, and applicable City Ordinance in effect at the time of completed Building Permit application date and required fees paid at time of application. Note: 2022 codes will become effective 1-1-2023. The 2019 codes are in effect until 12-31-2022.

2. Soils report will be required for foundation designs plan review.

3. New residential construction may trigger Solar and/or Vehicle charging requirements.

4. All units in elevator buildings shall be designed for and comply with CBC 11A Housing Accessibility.

5. All common area and common use buildings and spaces shall be designed for and comply with CBC 11B Accessibility.

6. Separate permits required for each separate structure.

7. Pool will require Solano County Health Department Approval.

8. Trash Chute rooms and chute doors shall be accessible per CBC 11A, CBC 11B, and shall also comply with California Fire Code.

C. PUBLIC WORKS - ENGINEERING

James Paluck, PE, Consulting Senior Engineer | james.paluck@cityofvallejo.net | 707.554.5902

Adherence to City of Vallejo Design Standards

1. All public improvements shall be designed and constructed to current City of Vallejo Design Standards.

2. Existing public facilities damaged during the course of construction shall be repaired by the developer, at his sole expense, to the satisfaction of the City Engineer.

Bay Area Vine Trail Improvements along Broadway

3. The developer shall install all frontage improvements along Broadway associated with the Bay Area Vine Trail project that is currently being designed by the City of Vallejo Public Works Department. Please contact Sam Kumar, Senior Civil Engineer at Sam.Kumar@cityofvallejo.net with any questions regarding this improvement project.

Public Access During Project Construction

4. Since the existing driveways along Broadway and Sonoma Blvd that serve the project site also serve existing developments to the north as well as the northeast corner of Sonoma Boulevard and Meadows Drive, the developer shall work with the City and adjacent properties to ensure that the existing driveways remain open during business hours to the maximum extent practical.

Curb, Gutter, and Sidewalk

5. All existing driveways to be removed as part of project development shall be replaced with City Standard curb, gutter, sidewalk, landscaping, and irrigation.

6. The developer shall remove and replace damaged or nonstandard curbs and gutters along both frontages of the project. Contact the Public Works Department to mark the existing curb and gutter along the project frontage that will need to be removed and replaced.

7. Maintenance. Streets and sidewalks shall be made dirt free at the completion of construction.

Geotechnical Investigation

8. The developer shall retain a registered Geotechnical Engineer to conduct a Geotechnical Investigation of the project area. Two copies of the project Geotechnical Report shall be submitted to the Public Works Department prior to submittal of Construction Plans. The Geotechnical Report shall include details and recommendations regarding the following:
    a. Geologic Hazards.
    b. Grading Limitations and Requirements.
    c. Foundation Design & Settlement.
    d. Retaining Wall Design as Required.
    e. Parking Lot Pavement Sections.

Grading

9. The Developer's Civil Engineer shall prepare a Master Grading Plan for the entire project area. The purpose of the master plan is to allow phased development and grading operations in an orderly and cost-effective way that addresses both interim and ultimate grading and drainage considerations. The Master Grading Plan shall be prepared in advance of individual site grading plans and shall be subject to review and approval by the City Engineer. Phased grading plans shall be consistent with the Master Grading Plan.
10. A grading plan shall be prepared by the developer's Civil Engineer and approved by the City Engineer. The following information shall be shown on the Grading Plan:
    a. Existing contours, landscaping, fences, buildings, or other improvements.
    b. Existing trees to be saved in place or removed.
    c. Furnish all necessary details to clearly convey recommendations outlined in the project geotechnical investigation.
    d. Cut/Fill interfaces and limits of grading.
    e. Limits of existing geologic hazards as identified by Geotech. Engineer.
    f. Lot boundaries and road rights-of-way.
    g. Proposed pad elevations finished contours and lot grading details.
    h. Top of curb elevations.

i. Perimeter cross-sections along all sides of the project to show the proposed project's interface with abutting properties and streets.
j. Plan view of proposed drainage facilities including storm drains, catch basins, manholes and underdrains • Parking lot surface drainage, pavement grades, ridge lines, etc.

11. The Project Engineer shall coordinate grading design closely with the project Geotechnical Engineer. Specifically, the Geotechnical Engineer shall be consulted to evaluate and address issues related to:
    a. Geologic Hazards.
    b. Retaining Wall Design Parameters.
    c. Parking Lot Pavement Sections.

12. Slope grading shall comply with the Geotechnical Report. Slopes steeper than 3H:1V shall not be allowed in the public right-of-way. Slopes steeper than 2H:1V shall not be allowed on-site.

13. Grading and drainage shall be designed so that surplus drainage (above and beyond that of the 15-year storm) not collected in site catch basins, is directed overland so as not to jeopardize existing or proposed buildings with flooding.

Demolition Plan

14. The developer's Civil Engineer shall prepare a demolition plan for the project, which shall be submitted concurrent with the improvement plan package. The demolition plan shall address the following:
    a. Demolition of onsite improvements, including buildings, parking lots, parking lot lights and planter islands • Parking lot landscaping and irrigation.
    b. Tree and overgrown shrub removal.
    c. Fencing to be removed and fencing to remain.
    d. Any items to be saved in place and or protected, such as trees water meters, sewer cleanouts, drainage inlets or backflow prevention devices.

Stormwater Quality

15. The project shall comply with the requirements of the most current National Pollutant Discharge Elimination System (NPDES) permit issued to the City of Vallejo, which incorporates Low Impact Development (LID) Best Management Practices in the overall design to address the issue of ongoing post-construction stormwater quality for the project site. Examples of LID treatment measures include bio-retention, harvesting and reuse, infiltration, and evapo-transpiration.

16. The developer shall prepare a Storm Water Control Plan and Report for the project, consistent with the City of Vallejo requirements. Please refer to the Stormwater C.3 Guidebook prepared by the Contra Costa Clean Water Program.

17. All stormwater treatment measures shall be adequately operated and maintained. To ensure operation and maintenance of stormwater treatment measures, the property owner shall enter into a Stormwater Treatment Measures Maintenance Agreement with the City. This agreement shall be signed by the property owner and submitted to the Department of Public Works prior to the issuance of the building permit.

Erosion and Sediment Control

18. The applicant shall be responsible for developing and implementing a Storm Water Pollution Prevention Plan which shall be reviewed and approved by the City of Vallejo.

19. An erosion and sedimentation control plan shall be included and prepared by the developer's Civil Engineer. The erosion control plan shall include protection measures such as: sedimentation basins, check dams, straw wattles and hydroseeding details.

20. The applicant shall obtain all necessary permits for storm water discharges, including but not limited to the State Water Resources Control Board Construction General Permit. Applicants whose projects disturb one or more acres of soil or whose projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, shall obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity (State Water Resources Control Board Construction General Permit, 99-08-DWQ). Construction activity subject to this permit includes clearing, grading, and disturbances to the ground such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility.

Trash Enclosure and Recycling

21. The location of trash enclosures shall be shown on the improvement plans. Drive aisle pavement sections between driveways and trash enclosures shall be designed to accommodate garbage truck traffic. There shall be a concrete slab that extends 10 feet from the front of the enclosure and shall be a minimum of 6" of reinforced concrete over 6" of Class II aggregate base compacted to 95%.

Landscaping

22. The project architect and engineer shall coordinate design closely with the project landscape designer. Specifically, they shall consult the landscape designer to evaluate and address issues related to:
    a. Fencing/wall layout and details.
    b. Locations and sizes for irrigation services.
    c. Sight distance constraints for fencing and landscaping.
    d. Depth of cover and tree setbacks over water, sewer and storm drain lines in landscape areas.

23. Landscaping plans shall be prepared by a registered Landscape Architect and City maintained landscaping shall be designed per City standards. Landscaping and irrigation plans shall be designed to comply with the City's Water Efficient Landscaping Ordinance. Use of turf and other water intensive landscaping shall be minimized.

Right-of-ways and Easements

24. All existing unused public and private easements shall be abandoned per City requirements.

25. A permanent reciprocal access/parking/utility easement shall be required across common areas shared by parcels. This easement shall be created on a separate instrument and recorded prior to issuance of the building permit.

Public Works Permits

26. The Developer shall secure any and all Public Works Permits for work within the public right-of-way or easement areas, as well as onsite site improvements prior to the commencement of work within the affected areas.

D. Public Works – Traffic

Charmine Solla, PE, TE, PTOE, PMP, Consulting Traffic Engineer | charmine.solla@cityofvallejo.net | 707.648.4300

1. Applicant shall submit a Signing and Striping Plan within the Civil Set.

2. Applicant shall submit a Photometric Analysis Plan with minimum, maximum, average, and uniformity calculations.

3. Applicant shall submit traffic control plans to obtain an encroachment permit.

4. Applicant shall coordinate implementation of the signal timing and phasing improvements for the intersection of Sonoma Boulevard at Meadows Drive with Caltrans District 4.

E. Water

Matt Brown, P.E., Senior Civil Engineer | matt.brown@cityofvallejo.net | 707.333.3722

1. All new water mains serving this development will be private and will need to be master metered at the point of connection to the public water system at the point of connection in the Public Utility Easement or in an easement on the outer perimeter of the project. The city will not be responsible for maintenance for pipelines within the boundary of this project to customers it does not currently serve.

2. Fixture calculations will be provided for all structures and shall be cumulatively calculated to determine the size of connection to the City System.

3. The developer will compensate the City for all easement abandonments in areas where the water mains are to be removed and will provide renewed right of entry for areas to be added to serve the existing retail as necessary to serve pressure and fire flow demands for the existing retail to remain.

4. A site-specific master plan for water demand will be prepared by the developer and provided with the fixture calculations for Water Department review and approval. The City of Vallejo's consultant for water modeling is Kennedy Jenks at 1676 N. California BLVD, Suite 430 Walnut Creek, CA 94596, and the contact is Rod Houser RodHouser@KennedyJenks.com.

Standard Conditions of Approval

1. CODE REQUIREMENTS. All code requirements as stated in Title 11 of the Vallejo Municipal Code (VMC) and Vallejo Standard Specifications and Standard Drawings adopted in 2011 (VSSSD) that apply to this project shall be conformed to. The project is being made aware of codes that require extra attention by the following items.

    a. WATER SYSTEM PLANS (VSSSD Section 4.1). All water system improvements shall be consistent with the latest Vallejo Water System Master Plan, prepared by Kennedy/Jenks Engineers. Prior to Improvement plan approval and building permit issuance, water system improvement plans shall be submitted to the Water Department for review and approval, and shall contain at least:
        i. Location and size of fire sprinkler service connection(s).
        ii. Location and size of existing and proposed domestic service connection(s).
        iii. Location and size of irrigation service connection(s), if any.
        iv. Location of fire hydrants.
        v. Location of structures with respect to existing public water system improvements, such as mains, meters, etc.
        vi. Location and size of any new water mains.
        vii. Location and size of backflow prevention devices (required on water service connections to irrigation systems, certain commercial water users, and to commercial fire sprinkler systems, per City Ordinance 922 N.C. (2d).

    b. FIRE FLOW REQUIREMENTS (VSSSD Section 4.1). Fire flow requirements of the Fire department shall be complied with. Fire flow at no less than 25 psig residual pressure shall

be available within 1,000 feet of any structure. One half of the fire flow shall be available within 300 feet of any structure.

i. For single family residential units, the fire flow is 1,500 gpm.
ii. For other developments, see the Vallejo Water System Master Plan, 2015, prepared by Kennedy Jenks.

c. HYDRAULIC CALCULATIONS (VSSSD Section 4.1). Prior to the Improvement Plan and building permit issuance, hydraulic calculations shall be submitted to the Water Director demonstrating that the fire flow requirements are complied with.

d. FIRE PROTECTION SYSTEMS (VSSSD Section 4.1). Fire hydrant placement and fire sprinkler system installation, if any, shall meet the requirements of the Fire Department. For combined water and fire services, the requirements of both the Fire Department and the Vallejo Water System Master Plan, with latest revisions, shall be satisfied.

e. WATER EASEMENTS (VSSSD Section 4.1). Easements shall be granted for all water system improvements installed outside the public right-of-way in the City's Standard Form for Grant of Water Line Easement with the following widths:

i. 15 ft. wide (minimum) for water mains.
ii. 10 ft. wide (minimum) for fire hydrants, water meters, backflow preventers, double detector check valves, etc.
iii. Other facilities will be reviewed by the Water Department.

f. WATER METERS (VMC 11.04.110 and 11.16.090). Each parcel shall be metered separately and shall have a separate fire sprinkler service connection.

g. WATER SERVICE BONDS AND FEES (VMC Sections 11.16, 11.18, 11.20 and 11.24). Water service shall be provided by the City of Vallejo following completion of the required water system improvements and payment of applicable fees. Performance and payment bonds shall be provided to the City of Vallejo prior to construction of water system improvements. Fees include those fees specified in the Vallejo Municipal Code including connection and elevated storage fees, etc., and fees for tapping, tie-ins, inspections, disinfection, construction water, and other services provided by the city with respect to the water system improvements. The Water Department may be contacted for a description of applicable fees. These fees have to be paid prior to issuance of the building permit.

2. CONDITIONS OF APPROVAL
   a. Apply and pay for Fire Flow Test with the Water Department in order to determine operation of sprinkler system and final service size.
   b. Provide water meter and service sizing calculations per most recent California Plumbing Code, include a water fixture count table.
   c. As of January 1, 2018, all units in multi-family, commercial, or combination thereof, buildings shall be individually metered (if existing plumbing allows or is re-configured) by the City, additional meters at the owner/applicant's expense; or, master metered by the City, and sub-metered by the property owner, with approved/certified meters. Per California Senate Bill 7 (SB7).

3. WATER SYSTEM INSTALLATION. Prior to occupancy or final building inspection, install water system improvements as required. Backflow device/s where required shall be installed in areas hidden from public view and/or shall be mitigated by landscaping.
   a. ESTIMATE OF FEES: Until Building Plans, Water Meter Data Card and Fire Flow Test results are submitted.

F. Fire Prevention

Vincent Sproete, Fire Prevention Manager | vincent.sproete@cityofvallejo.net | 707.648.4565

Code Requirements

1. All buildings, facilities, and developments shall be accessible to Fire Department Apparatus by way of approved access roadways.

2. Access roads shall be designed and maintained to support the imposed loads of fire apparatus weighing 70,000 lbs. with an all-weather driving surface.

3. Access roads shall have an unobstructed width of not less than 20' with a maximum grade of 15%. Access roads shall have a minimum of 13'-6" of vertical clearance, including trees, wires, and overhead signs. Speed bumps or other vertical traffic calming devices are prohibited on routes of fire access. Turning radius of all fire access roadways must be approved prior to Building Permit issuance.

4. All access roads shall be installed and maintained serviceable prior to and during combustible construction.

5. Access roads that are fire lanes shall either be posted with permanent all-weather signs constructed and installed in accordance with the Fire Department Fire Lane Marking Standard FP-2a OR shall have curbs painted red and a sign posted at each entrance in accordance with standard FP-2b. Contact the Fire Prevention Bureau for further information and design templates. The location of such areas shall be determined prior to final inspection.

Access to Fire Protection Equipment and Utilities

6. All fire protection equipment and building utilities including gas shut-off valves, and electrical service disconnects shall be located in a single area to allow use by the Fire Department without having to transit through a structure. In new construction, equipment should be located within an interior room having an exterior access door or in an exterior enclosure attached to the building, specifically for the purpose of housing such equipment. Please indicate on the plans these locations.

7. The building electrical service disconnecting means shall be installed in a readily accessible location either outside the building or nearest the point of entrance of the service conductors. The disconnecting means shall be accessible to emergency personnel, either directly or by a remote actuating device without requiring transit of the building interior.

8. Rooms or areas containing controls for HVAC systems, electrical panels, automatic fire extinguishing systems, fire alarm equipment or other detection, suppression or control elements shall be identified with appropriate signs.

9. A flush-mounted (recessed) Knox Box (key box) mounted no higher than 5 feet above the finished floor containing appropriate keys for emergency Fire Department access shall be provided for each building. The minimum size box is the 3200 series with a hinged door and recessed mounting kit. The tamper kit is not required, box color may be any of the Knox options. To order KNOXBOX www.knoxbox.com. (select on order) Vallejo Fire Dept.

10. Keys for the Knox Box entry system required by the Fire Department shall be attached to durable tags with permanent marking identifying the door(s) or lock(s) that the key functions with. i.e., “MASTER” or “MECHANICAL ROOM”.

Building and Address Identification

11. Approved address numbers shall be placed on all new and existing buildings in such a position as to be plainly visible and legible from the street or road fronting the property. Said numbers shall clearly contrast with their background. The characters shall be a minimum of 6" high with a 1/2"

stroke. The size of the building and distance or location of the address numbers from the roadway may necessitate larger numbers.

a. A building directory sign shall be provided at each entrance.
b. Each unit and building shall have an address, identification number or letter.

Fire Extinguishers and Fixed Systems

12. The minimum fire-extinguisher requirement shall be one 2A-10BC rated portable unit in such locations so that maximum floor-travel distance does not exceed 75' to the nearest extinguisher from any portion of the building with a maximum of 3,000 square feet of floor area surveyed. Plan submittal shall include the proposed location of extinguishers. Final location shall be approved in the field by the Fire Department.

13. All fire extinguishers shall be mounted in a conspicuous and readily accessible location either on a bracket or within an approved storage cabinet. Fire extinguishers shall be mounted so the top of the unit is 3 feet to 5 feet off the finished floor. If the extinguisher is not readily visible, a sign shall be located directly above the extinguisher. The sign shall be legible and of a contrasting color with its background.

Fire Alarm and Smoke Monitoring Systems

14. Fire alarm system is required, please submit 2 sets of fire alarm plans, and obtain permit from the Fire Marshal's Office prior to installation. Please include listed device selections cut sheets. Fire Alarm System's must be designed and installed by a C-10 Licensed Contractor or be certified as a Fire/Life Safety Technician on all systems that exceed 100VA. The permit fee is $371 for each system plus $6.42 per device, or the current adopted fee schedule. Each building shall have a fire alarm system.

15. Fire alarm Systems shall be supervised by a Central Station listed by Underwriters Laboratories (U.L.) for receiving fire alarms.

16. Smoke detection/dampers for HVAC systems shall be required as set forth in the Mechanical Code. Areas served by single or multiple units exceeding 2000 CFM shall have detectors installed and supervised by the fire alarm system. Detectors shall not trip a general alarm. Detectors shall be self-restoring, or a readily accessible manual reset shall be installed.

17. Provide smoke detectors in all sleeping rooms and common hallways. Detectors shall be hardwired with battery backup. Electrical circuits supplying detectors shall be separate dedicated lines with no other devices on the circuits.

18. If carbon monoxide producing devices exist in the habitable areas carbon monoxide alarms shall be installed in accordance with the manufacturer's recommendations.

Automatic Fire Sprinkler System

19. NFPA 13 and 13R automatic fire sprinkler systems are required for these buildings. Please submit 2 sets of plans, and hydraulic calculations, to the Fire Marshal's Office and obtain a permit prior to installation. Please note the density of the system must be compatible with the occupancy classification. The permit fee is $608 for each system plus $6.42 per sprinkler head. Each building shall have a separate automatic fire sprinkler system.

20. Location of Class I standpipe hose connections. Class I standpipe hose connections shall be provided in all of the following locations: In every required interior exit stairway, a hose connection

shall be provided for each story above and below grade plane. Those connections shall be located at the main floor landing unless otherwise approved by the fire code official.

21. Extend the fire sprinkler system to the TRASH receptacle building.

22. CFC 901.4.4 The fire sprinkler system shall be installed on each floor as the wood frame construction progresses. Example: Once the first-floor framing is completed the fire sprinkler system shall be installed and in service, once the second floor is completed floor one and two shall be in service. Once the third-floor framing is completed floors one, two and three shall be in service. Upon completion of framing all floors shall be serviced by an operational automatic fire sprinkler system. This will help prevent the loss of the structure should a structure fire start in the building.

23. All fire-sprinkler systems shall be designed and installed in accordance with NFPA Standard 13 and 13R and the California Fire Code and Building Code as amended by the City of Vallejo.

Water Supply and Fire Hydrants

24. This project shall comply with the 2019 California Fire Code regarding Fire Flow requirements, including Appendix B. Fire flow calculations shall be designed by a fire protection engineer or C-16 licensed contractor. Fire flow calculations can be obtained from the Vallejo Water Division.

25. Fire hydrants must be installed and approved by the fire department prior to combustible construction. Fire hydrants shall be spaced a maximum of 400 feet apart with a maximum distance from any point on the street of 225 feet. Please indicate on the plans the location of all existing and proposed fire hydrants.

26. Approved impact protection shall be installed as necessary to protect hydrants from vehicular damage.

27. The contractor shall be responsible for painting hydrants, verifying street valves are fully opened and the placement of blue reflective dots prior to requesting a final inspection. Maintenance, inspection, and testing of private hydrants are the responsibility of the property owner. Private hydrants shall be painted RED.

28. An underground private fire service main is required. Please submit 2 sets of plans for review and pay applicable fees for underground fire service mains. The permit fee is $737 or the current fee from adopted fee schedule.

Means of Egress

29. Stairway identification is required on each floor at each floor level in all enclosed stairways. Signs shall identify the stairway, indicate whether or not there is roof access, the floor level, and the upper and lower terminus of the stairway. The signs shall be located approx. 5 feet above the landing floor in a position that is readily visible when the door is in an open or closed position. All signage shall comply with the California Building Code and California Code of Regulations, Title 19 Section 3.09.

30. All buildings shall comply with the California Building Code, Chapter 10 Means of Egress requirements. Including but not limited to; exit signs, exit doors, exit hardware, and exit illumination.

31. Locking devices on exit doors shall conform to the 2019 California Fire Code Chapter 10. Only one lock or latch requiring one motion/operation to open/unlock is required. No double keyed deadbolts are permitted on exit doors.

32. In accordance with the 2019 California Fire Code Chapter 10 all exit doors shall swing in the direction of egress travel were serving an occupant load of 50 or more. (Assembly Areas)

33. Post an occupant load sign in a conspicuous place near the main exit from all rooms designated as “Assembly Areas”. The sign shall read as follows.

    a. Maximum Occupants.

    General_____

    (calculations shall be provided by the Architect)

    Dining_____

34. Means of egress illumination shall be provided and maintained at any time the building is occupied. The means of egress shall be illuminated of not less than 1 foot candle power and shall be approved by the Fire Prevention Division prior to sign-off of the final inspection.

35. Emergency exit lighting shall be provided at or near all exits and as designated by the Fire Marshal. Final exit lighting shall be approved by the Fire Marshal prior to sign-off of the final inspection.

36. All emergency lighting, exit sign lights, shall have two separate sources of power as required by the California Building Code.

37. Corridors & EXIT stairway shafts must be protected. Area door assemblies must have an approved rating and be a self-closing smoke draft assembly. No non-rated penetrations are permitted. A one-hour fire resistive rating is required for all EXIT shafts and Corridors.

38. Provide a 1-hour fire separation between the R occupancy and the U and B occupancies.

39. Common Hallways/Corridors; All interior curtains and decorations, including stage dressings, shall be Flame Retardant treated in accordance with the California Code of Regulations Title 19 Article 8 and 9 and the 2019 California Fire Code Chapter 8. Due prior to final inspection.

40. Provide an approved exit sign over all required exits prior to sign-off of final inspection.

Miscellaneous

41. ELEVATORS - Please indicate on the project plans your compliance with Chapter 30 of the 2019 California Building Code regarding Smoke Detection Recall, Fire Department Key Switch Recall, Standby Power, Telephone Communications. Please place CBC Chapter 30 (copy and paste method) on the project plans.

42. ELEVATORS - Please indicate on the plans the size of all elevators. One elevator shall have access to all floor levels and shall be sized to accommodate a Medical Emergency Gurney. The maximum size of the Gurney is 24 inches wide by 76 inches in length. The elevator car inside dimensions shall be no less than 80 inches by 54 inches. The medical emergency elevator shall be labeled using 3-inch letters not less than 78 inches and not more than 84 inches from the floor threshold. Follow the California Building Code Chapter 30 guidelines.

43. All fire-alarm systems, fire-hydrants, fire-sprinkler systems, wet and dry standpipes, and other fire-protections systems shall meet the approval of the Fire Department as to installation and location and shall be subject to such periodic tests as required by the Fire Chief. Failure to comply with this requirement may result in the issuance of a stop work order and fines in accordance with the California Fire and Building Codes.

44. Construction or work for which Fire Department approval is required shall be subject to inspection and such construction work shall remain accessible and exposed for inspection purposes until approved. Accessible and exposed shall mean components are visible and accessible without excessive effort of climbing or crawling by the inspector.

45. If access gates are to be installed the owner shall obtain a gate permit from the fire department. All vehicles' access gates shall be equipped with both a Knox Key switch. Contact the fire department at 707-648-4565 or visit www.knoxbox.com.

46. All vegetation on the property shall be maintained to reduce the risk of damage from a wildland fire to the proposed wood framed structures. This includes creating a "Defensible Space" area around the structures a minimum of 100 feet, trimming overhanging tree branches to 10 feet above ground, keeping dry fuels cut low to the ground, planting fire resistive plants and keeping branches trimmed within 10 feet of the structures.

47. Buildings undergoing construction shall maintain fire safety at all times and shall be in accordance with the California Fire Code. Smoking is prohibited in buildings under construction. 'No Smoking' signs shall be posted. Hot work shall be performed in accordance with the 2019 California Fire Code.

48. CFC 308.1.4 Open-flame cooking devices. Charcoal burners and other open-flame cooking devices shall not be operated on combustible balconies or within 10 feet (3048 mm) of combustible construction.

    Exceptions: 1. One- and two-family dwellings. 2. Where buildings, balconies and decks are protected by an automatic sprinkler system. 3. LP-gas cooking devices having LP-gas container with a water capacity not greater than 21/2 pounds [nominal 1 pound (0.454 kg) LP-gas capacity].

49. Provide "Roof Access" sign at roof ladder location. Each building.

50. All roof material shall be rated class "C" or better.

51. Hazardous Materials Business Plan Requirements. Any occupancy that will be conducting operations or storing materials that are hazardous will obtain the appropriate permits from the City of Vallejo Fire Department and/or Solano County Environmental Management prior to commencing business operations. For additional information regarding permit fees and appropriate forms, please contact the Fire Prevention Bureau at (707) – 648-4565 and/or the Solano County Environmental Management at 707-784-3316.

52. CFC 510.1 Emergency responder radio coverage in new buildings. New buildings shall have approved radio coverage for emergency responders within the building based on the existing coverage levels of the public safety communication systems utilized by the jurisdiction, measured at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

53. An annual R-2 Residential Hotels – Motels require an inspection from the Fire Department. The annual fee is $1372 or the current fee of the adopted fee schedule.

54. A final inspection from the fire department is required. Requests for field inspection shall be made a minimum of 24 hours in advance by calling the Fire Prevention Division at (707) 648-4565, Monday through Thursday 9 a.m. to 3 p.m.

G. <u>VALLEJO FLOOD AND WASTEWATER DISTRICT</u>

Alan L. Mitchell, P.E, Principal Engineer | alan.mitchell@ponticellonic.com | 530.681.0553

1. In the event any claim, action or proceeding is commenced naming VFWD or its agents, officers, and employees as defendant, respondent or cross defendant arising or alleged to arise from VFWD's approval of the project, the project Applicant shall defend, indemnify, and hold harmless VFWD or its agents, officers and employees, from liability, damages, penalties, costs or expense in any such claim, action, or proceeding to attach, set aside, void, or annul an approval of the City

of Vallejo, or any advisory agency to the City. Project applicant shall defend such action at applicant's sole cost and expense which includes court costs and attorney fees. VFWD shall promptly notify the applicant of any such claim, action, or proceeding and shall cooperate fully in the defense. Nothing in this condition shall be construed to prohibit VFWD from participating in the defense of any claim, action, or proceeding, if VFWD bears its own attorney fees and costs, and defends the action in good faith. The applicant shall not be required to pay or perform any settlement unless the applicant in good faith approves the settlement, and the settlement imposes no direct or indirect cost on VFWD, or its agents, officers, and employees.

2. Submit complete improvement plans and support documentation, for proposed sanitary sewage and storm drainage work, to VFWD for review and approval.

3. Proposed improvements associated with the concurrent building permit process are not approved at this time. VFWD and the City shall review the design of all improvements during the plan check process and those plans shall be revised, as needed, at the discretion of VFWD and the City.

4. The Applicant shall comply with all aspects of the latest VFWD Engineering Standards and Details. If comments from VFWD and the City of Vallejo or County of Solano call for differing standards of development, the higher standard shall apply. If any of the VFWD comments conflict with comments from the City of Vallejo or County of Solano, please request clarification.

5. Provide design details for the connection points to existing (private or VFWD) MH's.

6. The Applicant shall provide, to the District, Final Design Drawings for public sewer and drainage infrastructure, in AutoCAD, prior to City of Vallejo permit issuance.

7. If relocation of existing VFWD facilities is deemed necessary, it shall be performed by the Applicant who will also be responsible to bear all expenses associated with this condition.

8. Applicant shall contact VFWD prior to beginning construction, for a pre-construction meeting.

9. A VFWD Sewer and/or Storm Drain Connection Permit is required. Applicants shall pay all applicable plan review, administrative, inspection, and connection fees.

10. All planned development projects within the Sears Point Pump Station sewer shed shall pay a supplemental fee to Vallejo Flood and Wastewater District, prior to building permit issuance, that represents the project's fair share contribution towards wastewater capacity improvements that are needed to facilitate development of the project.

11. VFWD may use a consultant to provide plan review for new development. The applicant shall be responsible for all costs associated with the consultant's review.

12. The applicant shall be responsible for maintaining all private sewer and drainage infrastructure, including bioretention/water quality basins.

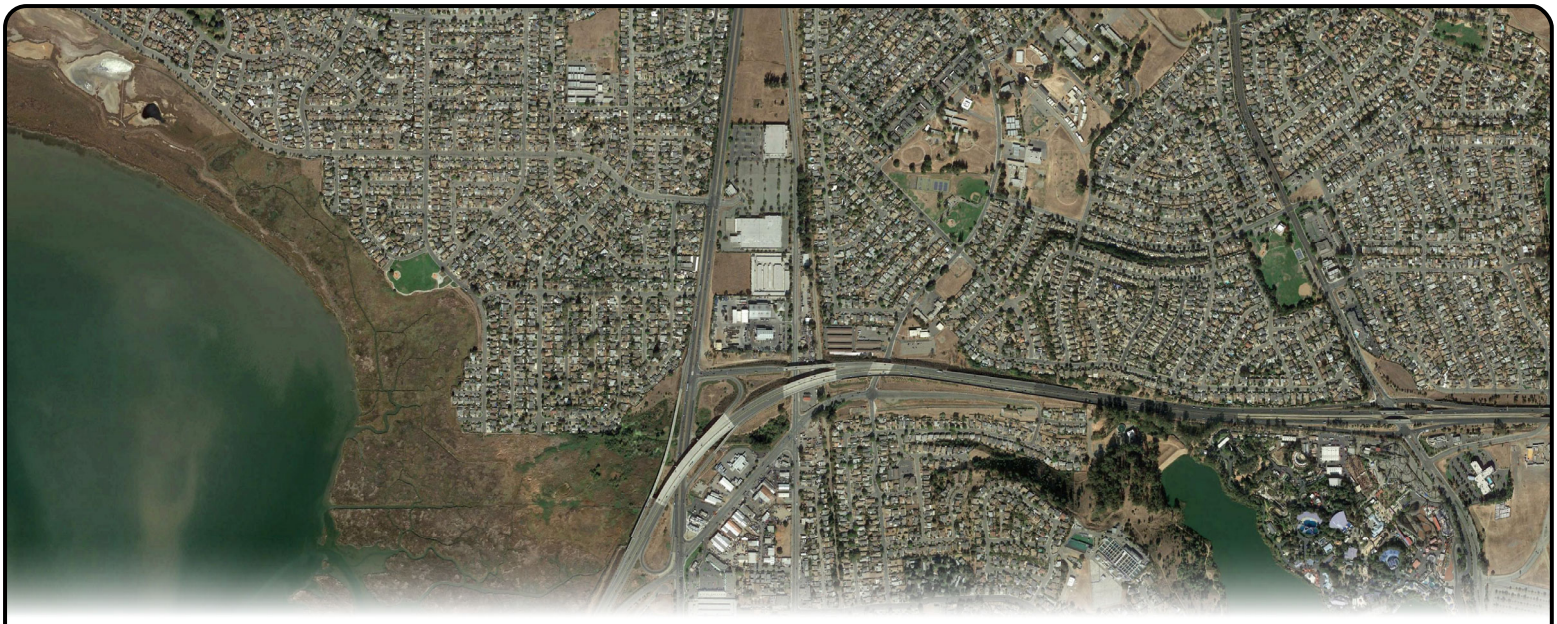
13. Trash enclosures drains shall not connect to drain system, and any sewer connection must have prior VFWD approval.

14. Provide a standard VFWD cleanout at the right-of-way/easement line per District standards and a two-way cleanout at the building per the U.P.C unless an alternative layout is approved by VFWD.

15. Provide a copy of all existing utility easements, for review. The Applicant shall agree to grant all public easements as determined by the City and VFWD for public purposes. Coordinate all actions on VFWD easements, with the district.

16. Pretreatment of storm drainage water runoff is required; storm drainage runoff shall be conveyed over landscaped areas or otherwise treated, as feasible, before discharging into the public system.

17. Prior to issuance of the first building permit, the applicant shall inspect a Reimbursement Agreement with VFWD and pay the associated catch-up amount and/or deposit amount.



Traffic Impact Analysis

RSC Vallejo

City of Vallejo

Prepared by:
Abrams Associates
1875 Olympic Boulevard, Suite 210
Walnut Creek CA 94596

Abrams Associates
TRAFFIC ENGINEERING, INC.

October 23, 2023

RSC Vallejo Project
City of Vallejo

TRAFFIC IMPACT ANALYSIS

1.0 EXECUTIVE SUMMARY

This traffic impact analysis describes the existing and future conditions for transportation with and without the proposed project, which consists of ten four-story apartment buildings with a total of 429 apartments. This study presents information on the regional and local roadway networks that serve the project site, the pedestrian and transit conditions in the area, and provides an analysis of the effects on transportation facilities associated with the project. This study also describes the regulatory setting; the criterion used for determining the significance of environmental impacts; and summarizes potential environmental impacts and appropriate mitigation measures. This study has been conducted in accordance with the requirements and methodologies set forth by the City of Vallejo, the Solano Transportation Authority (STA), Caltrans, and the applicable provisions of CEQA. Based on the project's design and a detailed analysis conducted according to the City's required transportation impact analysis guidelines there would be no significant transportation impacts and no off-site traffic or transportation improvements would be required, with the exception of the intersection of Meadows Drive and Sonoma Boulevard which is forecast to operate at LOS F. This intersection is forecast to exceed the City's standards regardless of whether or not the proposed project is implemented. A recommended improvement is the implementation of an eastbound right-turn overlap phase, for both existing and future conditions, which would improve the level of service for with-project conditions.

2.0 PROJECT DESCRIPTION

As noted above, the proposed RSC Vallejo project is proposed to include ten four-story apartment buildings with a total of 429 apartments. The primary access to the site would be via Sonoma Boulevard (State Route 29) at the Meadows Drive intersection, with a secondary driveway in the back of the project onto Broadway. It should be noted that the two existing driveways also provide access to a number of businesses in the area including a sushi restaurant, a taqueria, a hair salon, a nail salon, a cannabis dispensary, and two financial service businesses. The site itself has a 126,155 square foot commercial building that has been occupied by a Home Depot and by Wal-Mart in the past, but is currently vacant. **Figure 1** shows the location of the project and the surrounding roadway network. **Figure 2** shows the proposed site plan for the project.

FIGURE 1 | PROJECT LOCATION & STUDY INTERSECTIONS
TRAFFIC IMPACT ANALYSIS
RSC Vallejo
City of Vallejo

Abrams Associates
TRAFFIC ENGINEERING, INC.

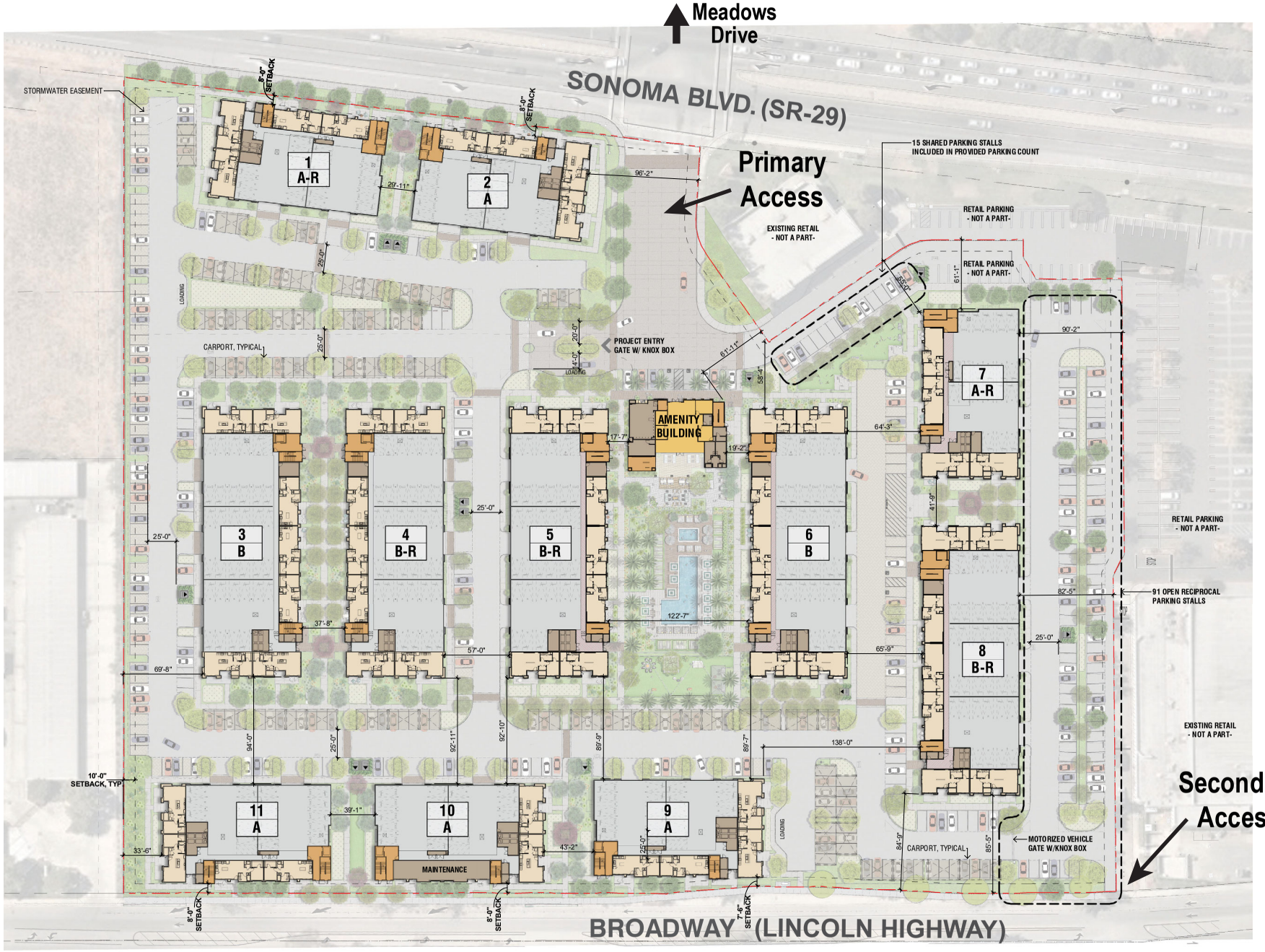


FIGURE 2 | SITE PLAN
TRAFFIC IMPACT ANALYSIS
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3.0 ENVIRONMENTAL SETTING

This section of the report describes the roadways, traffic conditions and other existing transportation characteristics in the vicinity of the project. The primary basis of the analysis is the peak hour level of service for the key intersections. Throughout this report, these peak hours will be identified as the AM and PM peak hours.

3.1 Project Study Intersections

Based on the project's trip generation and the potential for traffic impacts a list of study intersections was prepared. **Figure 1** shows the location of the project study intersections. As mentioned above, all access to the site will be via driveways onto Sonoma Boulevard and Broadway. There are 7 (seven) study intersections included in the analysis.

Project Study Intersections

1. *Sonoma Boulevard (SR 29) and Mini Drive*
2. *Sonoma Boulevard (SR 29) and Meadows Drive*
3. *Sonoma Boulevard (SR 29) and the SR 37 Westbound Ramps*
4. *Sonoma Boulevard (SR 29) and Lewis Brown Drive/SR 37 Eastbound Off-Ramp*
5. *Broadway at Mini Drive*
6. *Broadway at the Secondary Project Entrance*
7. *Broadway at Lewis Brown Drive*

3.2 Traffic Analysis Scenarios

The study intersections were evaluated for the following six scenarios:

- Scenario 1: *Existing Conditions* – Level of Service (LOS) based on existing peak hour volumes and existing intersection configurations.
- Scenario 2: *Existing Plus Project* – Existing traffic volumes plus trips from the proposed project.
- Scenario 3: *Baseline (No Project) Conditions* – The Baseline (Year 2025) scenario is based on the existing volumes plus growth in background traffic plus the traffic from all reasonably foreseeable developments that could substantially affect the volumes at the project study intersections. For this analysis it was conservatively assumed that traffic would return to pre-covid levels by 2025.
- Scenario 4: *Baseline Plus Project Conditions* – This scenario is based on the Baseline traffic volumes plus the trips from the proposed project.

- Scenario 5: *Cumulative Conditions* – This scenario includes year 2040 cumulative volumes based on planned and approved projects the Countywide Travel Demand Model.

- Scenario 6: *Cumulative Plus Project Conditions* – This scenario includes year 2040 cumulative volumes based on the Countywide Travel Demand Model plus the trips from the proposed project.

3.3 Existing Roadway Network

As discussed previously, the project location and the surrounding roadway network are illustrated in **Figure 1**. The following is a more detailed description of the arterials that could be affected by the project:

- **Sonoma Boulevard** - is a four and six-lane arterial route that extends north-south through the City of Vallejo, and is the major thoroughfare in northwest Vallejo. All major intersections are signalized, and there are several bus routes on Sonoma Boulevard (Hwy 29). The posted speed limit on Sonoma Boulevard in the vicinity of the project site is 50 miles per hour (mph).

- **Broadway** – Broadway Street is a four lane north-south arterial route that extends from American Canyon Road south to Ohio Street, where it becomes Alameda Street. There are several bus routes that traverse various segments of the street; however, none currently operate on the segment of Broadway adjacent to the project site. The posted speed limit on Broadway is 35 mph.

- **Meadows Drive** – Meadows Drive is a four-lane collector road that extends west from Sonoma Boulevard to terminate at Catalina Way. The posted speed limit on Meadows Drive is 35 mph. On weekdays during peak commute hours this roadway is typically used by substantial volumes of traffic attempting to bypass the heavy congestion that regularly forms on the adjacent segment of Sonoma Boulevard (SR 29). The posted speed limit on Meadows Drive is 35 mph.

- **Mini Drive** – Mini Drive is a two and four lane collector roadway that extends from Dutch Flat Road on the west to terminate at Lewis Brown Drive to the south. The posted speed limit on Meadows Drive is 25 mph.

- **Lewis Brown Drive** – Lewis Brown Drive is a two and four lane local roadway that extends east from Sonoma Boulevard to terminate at Antioch Drive. The posted speed limit on Lewis Brown Drive is 35 mph.

3.4 Intersection Analysis Methodology

Existing operational conditions at the seven (7) study intersections have been evaluated according to the requirements set forth by the City of Vallejo. Analysis of traffic operations was conducted using the 6th Edition of the *Highway Capacity Manual* (*HCM*) Level of Service (LOS) methodology with Synchro software.[1] Level of service is an expression, in the form of a scale, of the relationship between the capacity of an intersection (or roadway segment) to accommodate the volume of traffic moving through it at any given time. The level of service scale describes traffic flow with six ratings ranging from A to F, with "A" indicating relatively free flow of traffic and "F" indicating stop-and-go traffic characterized by traffic jams. As the amount of traffic moving through a given intersection or roadway segment increases, the traffic flow conditions that motorists experience deteriorate as the capacity of the intersection is reached. Under such conditions relatively small incidents (e.g., momentary engine stall) can cause considerable fluctuations in speeds and delays that lead to traffic congestion. This near-capacity situation is labeled level of service (LOS) E. Beyond LOS E, the intersection or roadway segment capacity has been exceeded, and arriving traffic will exceed the ability of the intersection to accommodate it. For signalized intersections, The *HCM* methodology determines the capacity of each lane group approaching the intersection. The LOS is then based on average control delay (in seconds per vehicle) for the various movements within the intersection. A combined weighted average control delay and LOS are presented for the intersection. A summary of the HCM results and copies of the detailed HCM LOS calculations are included in the appendix to this report. **Table 1** summarizes the relationship between LOS, average control delay, and the volume to capacity ratio at signalized intersections. For unsignalized (all-way stop controlled and two-way stop controlled) intersections, the average control delay and LOS operating conditions are calculated by approach (e.g., northbound) and movement (e.g., northbound left-turn) for those movements that are subject to delay. In general, the operating conditions for unsignalized intersections are presented for the worst approach. **Table 2** summarizes the relationship between LOS and average control delay at unsignalized intersections.

3.5 Existing Intersection Conditions (Scenario 1)

The existing intersection geometry at each of the project study intersections can be seen in **Figure 3** and the existing traffic volumes at each are presented in **Figure 4.** Traffic counts at the study intersections were conducted in October of 2021. Please note that in the Existing and Baseline scenarios the existing volumes have been adjusted to match pre-covid conditions which, in 2014, were 11% greater in the AM peak hour and 13% greater in the PM peak hour. **Table 3** summarizes the associated LOS computation results for the existing weekday AM and PM peak hour conditions. All intersections currently have acceptable conditions (based on City standards) during the weekday AM and PM peak hours with the exception of Meadows Drive at Sonoma Boulevard (Intersection #2).

[1] *Highway Capacity Manual – Sixth Edition*, Transportation Research Board, Washington D.C., 2016.

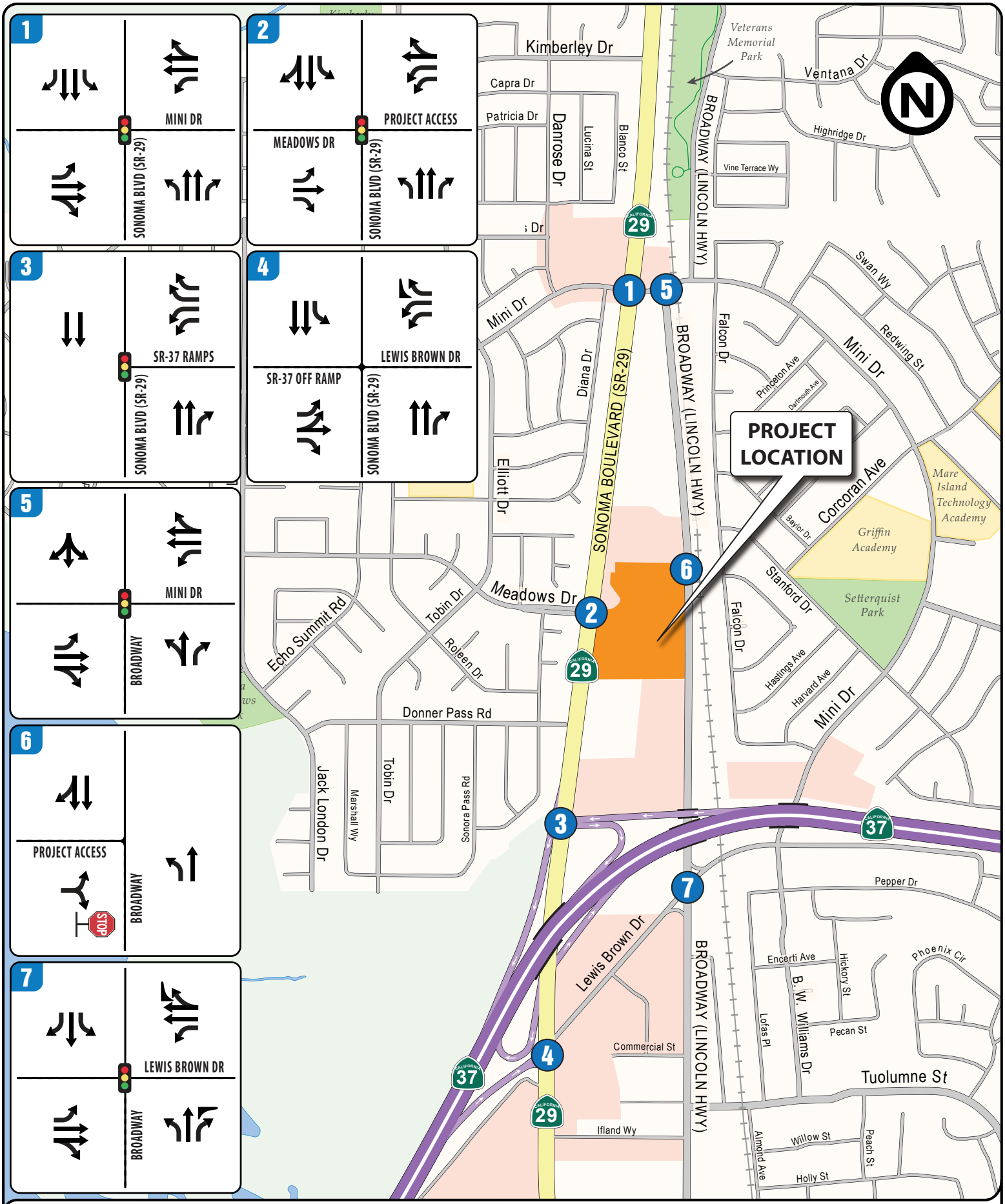

FIGURE 3 | LANE CONFIGURATION
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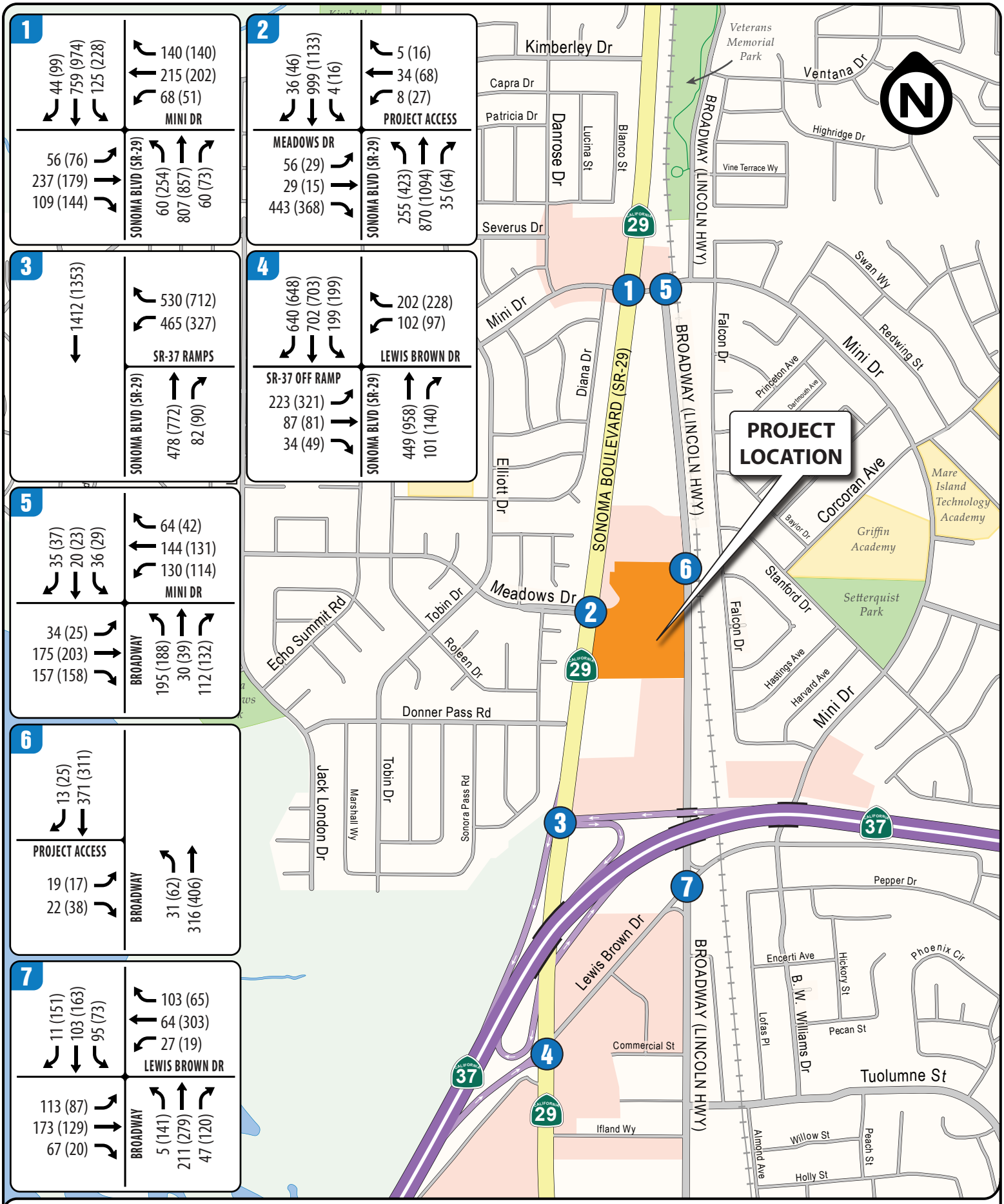

FIGURE 4 | EXISTING AM(PM) PEAK HOUR TRAFFIC VOLUMES

TRAFFIC IMPACT ANALYSIS

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TABLE 1
SIGNALIZED INTERSECTION LEVEL OF SERVICE DEFINITIONS

Level of Service	Description of Operations	Average Delay (sec/veh)	Volume to Capacity Ratio
A	Insignificant Delays: No approach phase is fully used and no vehicle waits longer than one red indication.	≤ 10	< 0.60
B	Minimal Delays: An occasional approach phase is fully used. Drivers begin to feel restricted.	> 10 to 20	> 0.61 to 0.70
C	Acceptable Delays: Major approach phase may become fully used. Most drivers feel somewhat restricted.	> 20 to 35	> 0.71 to 0.80
D	Tolerable Delays: Drivers may wait through no more than one red indication. Queues may develop but dissipate rapidly without excessive delays.	> 35 to 55	> 0.81 to 0.90
E	Significant Delays: Volumes approaching capacity. Vehicles may wait through several signal cycles and long vehicle queues from upstream.	> 55 to 80	> 0.91 to 1.00
F	Excessive Delays: Represents conditions at capacity, with extremely long delays. Queues may block upstream intersections.	> 80	> 1.00

SOURCES: 6th Edition of the *Highway Capacity Manual*, Transportation Research Board, 2016.

TABLE 2
UNSIGNALIZED INTERSECTION LEVEL OF SERVICE DEFINITIONS

Level of Service	Description of Operations	Average Delay (seconds/vehicle)
A	No delay for stop-controlled approaches.	0 to 10
B	Operations with minor delays.	> 10 to 15
C	Operations with moderate delays.	> 15 to 25
D	Operations with some delays.	> 25 to 35
E	Operations with high delays and long queues.	> 35 to 50
F	Operation with extreme congestion, with very high delays and long queues unacceptable to most drivers.	> 50

SOURCE: 6th Edition of the *Highway Capacity Manual*, Transportation Research Board, 2016.

TABLE 3
EXISTING INTERSECTION LEVEL OF SERVICE CONDITIONS

INTERSECTION		CONTROL	PEAK HOUR	EXISTING	
				Delay	LOS
1	SONOMA BOULEVARD (SR-29) & MINI DRIVE	Signalized	AM	20.3	C
			PM	29.0	C
2	SONOMA BOULEVARD (SR-29) & MEADOWS DRIVE / PRIMARY PROJECT ACCESS	Signalized	AM	45.0	D
			PM	**73.5**	**E**
3	SONOMA BOULEVARD (SR-29) & SR-37 WB OFF RAMP	Signalized	AM	14.4	B
			PM	17.3	B
4	SONOMA BOULEVARD (SR-29) & SR-37 EB OFF RAMP	Signalized	AM	10.4	B
			PM	15.4	B
5	BROADWAY (LINCOLN HIGHWAY) & MINI DRIVE	Signalized	AM	18.9	B
			PM	18.7	B
6	BROADWAY (LINCOLN HIGHWAY) & EASTERN PROJECT ACCESS	Side Street Stop	AM	13.7	B
			PM	13.4	B
7	BROADWAY (LINCOLN HIGHWAY) & LEWIS BROWN DRIVE	Signalized	AM	16.2	B
			PM	17.8	B

SOURCE: Abrams Associates, 2023. **NOTE:** Delay results are presented in seconds per vehicle.

3.6 Pedestrian and Bicycle Facilities

Bicycle paths, lanes and routes are typical examples of bicycle transportation facilities, which are defined by Caltrans as being in one of the following three classes:

Class I – Provides a completely separated facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized.

Class II – Provides a restricted right-of-way designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and cross-flows by pedestrians and motorists permitted.

Class III – Provides a route designated by signs or permanent markings and shared with pedestrians and motorists.

Class IV – Provides an adjacent bike lane or bikeway that is physically separated from motor vehicle traffic.

In the immediate project vicinity there are sidewalks in some areas and along the residential property frontages, however there are no sidewalks along Sonoma Boulevard the project site. There are marked crosswalks, pedestrian push buttons, and pedestrian signals provided at all nearby signalized intersections. There are no existing bike lanes in the area but an extension of the Bay Trail is proposed along Broadway adjacent to the project site.

3.7 Transit Service

Two major public transit operators provide service within or adjacent to the study area. These include BART and the County Connection. These operators are described below.

Solano County Transit (Soltrans) – SolTrans is the agency that provides local bus, regional express bus, and ADA paratransit bus services in Vallejo. Local bus service is supplemented by limited-service routes for school days and regional express bus service connecting to the Contra Costa communities of El Cerrito, Pleasant Hill, and Walnut Creek and the Fairfield Transportation Center in Fairfield. Express bus services also provide connections to BART, AC Transit, County Connection, Fairfield and Suisun Transit, Golden Gate Transit, San Francisco Bay Ferry, Vine Transit, and WestCAT. The Vallejo Transit Center is where riders can connect to the San Francisco Bay Ferry and the Napa Valley VINE transit. Soltrans local bus service includes four limited service routes that operate during school in-service days and provide connectivity to local schools

Route 1 operates Monday through Friday with approximately 60-minute headways between 7:30 a.m. and 8:30 p.m. Route 1 also operates Saturday and Sunday with approximately 60-minute headways between 8:30 AM. and 6:30 p.m. Route 2 operates Monday through Friday with approximately 60-minute headways between 7:00 a.m. and 9:00 p.m. and on Saturdays from 9:00 a.m. and 6:00 p.m. The nearest bus stop for these routes is located on Sonoma Boulevard adjacent to the project site.

4.0 REGULATORY CONTEXT

Existing policies, laws and regulations that apply to the proposed project are summarized below.

4.1 State

The California Department of Transportation (Caltrans) has jurisdiction over State highways. Therefore, Caltrans controls all construction, modification, and maintenance of State highways, such as SR 29. Any improvements to these roadways would require Caltrans' approval. The Guide for the Preparation of Traffic Impact Studies provides consistent guidance for Caltrans staff who review local development and land use change proposals. The Guide also informs local agencies about the information needed for Caltrans to analyze the traffic impacts to state highway facilities which include freeway segments, on- or off-ramps, and signalized intersections.

4.2 Local

Vallejo General Plan - The Mobility, Transportation & Connectivity Element included in the City of Vallejo General Plan was prepared pursuant to Section 65302(b) of the California

Government Code. The Mobility, Transportation & Connectivity Element addresses the location and extent of existing and planned transportation routes, terminals, and other local public utilities and facilities. The General Plan identifies roadway and transit goals and policies that have been adopted to ensure that the transportation system of the City will have adequate capacity to serve planned growth. These goals and policies are intended to provide a plan and implementation measures for an integrated, multi-modal transportation system that will safely and efficiently meet the transportation needs of all economic and social segments of the City.

4.3 Level-of-Service Analysis Criteria

The advisory standard of the City of Vallejo is to maintain Level of Service (LOS) E during the peak hours "*to be considered along with, but not to override, metrics for pedestrian, bicycle, transit and emergency access performance*."

Signalized Intersections - Project-related operational effects on the City's signalized study intersections are considered to result in substantial adverse effects if project-related traffic causes the Level of Service (LOS) rating to deteriorate from LOS D or better to LOS E or F. If a signalized intersection(s) is operating unacceptably before the addition of project trips, it would be considered a substantial adverse effect if the project causes the v/c ratio, as calculated with the HCM methodology, to increase by 0.01 or more at a signalized intersection operating at LOS F without the project.

Unsignalized Intersections - Project-related operational effects on unsignalized intersections are considered to result in substantial adverse effects if project generated traffic causes the LOS at an unsignalized intersection to degrade to worse than LOS D. As with signalized intersections, if an intersection(s) is operating unacceptably before the addition of project trips, it would be considered a substantial adverse effect if the project causes a stop-controlled intersection to fall to LOS F (for side-street stop-controlled intersections, for the worst side street movement or approach), or adds traffic to a stop-controlled intersection already operating at LOS F (for side-street stop-controlled intersections, for the worst side street movement or approach), and the California Manual on Uniform Traffic Control Devices peak hour signal warrant is met.

In addition, according to CEQA guidelines, a project would have a significant impact if it would:

- Conflict with a plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, including transit, roadway, bicycle and pedestrian facilities?
- Would the project conflict with or be inconsistent with CEQA Guidelines Section 15064.3 subdivision (b)?
- Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment).
- Result in inadequate emergency vehicle access.

5.0 PROJECT TRIP GENERATION, TRIP DISTRIBUTION AND ASSIGNMENT

5.1 Project Trip Generation

The proposed project would consist of ten four-story residential buildings with 429 units. The resulting trip generation calculations are shown in **Table 4**. They are based on trip generation rates using the fitted curve equations for Mid-Rise Apartments (Land Use Code 221) from the Institute of Transportation Engineer's (ITE) Trip Generation Manual, 11th Edition. The total trip generation reflects all vehicle trips that would be counted at the project driveways, both inbound and outbound. For purposes of determining the reasonable worst-case impacts of traffic on the surrounding street network from a proposed project, the trips generated by this proposed development are estimated for the peak commute hours which represent the peak of "*adjacent street traffic*". This is the time period when the project traffic would generally contribute to the greatest amount of congestion. As shown in **Table 4**, the residential uses proposed to be added to the site are is forecast to generate approximately 176 trips during the AM peak hour and 167 trips during the PM peak hour.

TABLE 4
PROJECT TRIP GENERATION CALCULATIONS

Land Use	ITE Code	Size	ADT	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Mid-Rise Apartments Trip Rates (trips per unit)	221		4.54	0.09	0.32	0.41	0.24	0.15	0.39
Proposed Project Trip Generation		***429 units***	***1,948***	***39***	***137***	***176***	***103***	***64***	***167***

SOURCE: Trip Generation, 11th Edition, Institute of Transportation Engineers, Washington D.C., September, 2021.

Previous Site Trip Generation - Please note that there is currently a vacant building on the site with 126,155 sq. ft. of commercial space. There is no existing traffic generated by the site but forecasts of the trip generation that could occur with reoccupation of the existing building are shown in **Table 5**. It is important to note that this information is provided for informational purposes only, no credit was taken in this analysis for traffic generated by previous use on the site (a Walmart). The trip generation for the previous user is based on the rates for a free-standing discount store (Land Use Code 813) from the Institute of Transportation Engineer's (ITE) Trip Generation Manual, 11th Edition, and adjusted for pass-by traffic as per the guidelines set forth in the 3rd Edition of the ITE Trip Generation Handbook.

TABLE 5
PROJECT TRIP GENERATION CALCULATIONS

Land Use	ITE Code	Size	ADT	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Mid-Rise Apartments Trip Rates (trips per unit)	221		4.54	0.09	0.32	0.41	0.24	0.15	0.39
Proposed Project Trip Generation		***429 units***	***1,948***	***39***	***137***	***176***	***103***	***64***	***167***
Discount Superstore Trip Rates (trips per ksf)	813		50.52	1.04	0.82	1.86	2.12	2.21	4.33
Potential Commercial Building Trip Generation		*126,155 sq. ft.*	*6,373*	*131*	*103*	*235*	*267*	*279*	*546*
Pass-By Traffic Reduction			*1,848*	*38*	*30*	*68*	*78*	*81*	*158*
Existing Zoning Potential Trip Generation			***4,525***	***94***	***73***	***167***	***190***	***198***	***388***
Difference between the Existing Zoning Potential and the Proposed Project			**-2,577**	**-55**	**64**	**9**	**-87**	**-134**	**-221**

SOURCE: Trip Generation, 11th Edition, Institute of Transportation Engineers, Washington D.C., September, 2021.

This trip generation is merely presented as an example of the potential traffic that could otherwise occur under the existing zoning for the site (i.e. without the project). As shown in **Table 5**, the proposed project is forecast to result in a decrease of about 2,600 trips per day when compared to the traffic that could be generated if the existing commercial building were reoccupied. When compared the existing commercial building the proposed residential units would actually generate an increase of about 10 trips during the AM peak hour, but the difference would still be a decrease of about 221 trips during the critical PM peak hour. This is because the typical tenants for the commercial building would normally not open until 9:00 or 10:00 AM and surveys show the morning volumes would typically be lower than the proposed apartments. However, during the PM peak commute hour (close to when the commercial traffic peaks) the existing commercial building would generate substantially more traffic if reoccupied.

5.2 Project Trip Distribution and Assignment

The trip distribution assumptions have been based on the project's proximity to freeway interchanges, the existing directional split at nearby intersections, and the overall land use patterns in the area. **Figure 5** presents the project trip distribution percentages and **Figure 6** shows the project traffic that would be added at each of the study intersections.

FIGURE 5 | PRELIMINARY PROJECT TRIP DISTRIBUTION
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FIGURE 6 | PROJECT AM(PM) PEAK HOUR TRIPS
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6.0 LEVEL OF SERVICE ANALYSIS FOR FUTURE CONDITIONS

6.1 Existing Plus Project Traffic Conditions (Scenario 2)

This scenario evaluates the existing conditions with the addition of traffic from the proposed project. The capacity calculations for the Existing Plus Project scenario are shown in **Table 6** and the baseline traffic volumes are shown in **Figure 7**. As shown in **Table 6**, all of the existing project study intersections currently have acceptable operations during the weekday AM and PM peak hours with the exception of Meadows Drive at Sonoma Boulevard (Intersection #2). Based on City standards the project would be considered to have a significant impact on traffic operations at intersection #2, where the addition of project traffic would increase the volume to capacity (V/C) ratio by more than 0.01. It should be noted that although Synchro does not yield V/C ratios for the overall intersection the project traffic is forecast to increase the existing peak hour volumes by at least 4%. The recommended improvements to improve the traffic operations at this intersection are presented in Section 8.0.

TABLE 6
EXISTING PLUS PROJECT INTERSECTION LEVEL OF SERVICE CONDITIONS

INTERSECTION		CONTROL	PEAK HOUR	EXISTING		EXISTING PLUS PROJECT	
				Delay	LOS	Delay	LOS
1	SONOMA BOULEVARD (SR-29) & MINI DRIVE	Signalized	AM	20.3	C	20.7	C
			PM	29.0	C	29.6	C
2	SONOMA BOULEVARD (SR-29) & MEADOWS DRIVE / PRIMARY PROJECT ACCESS	Signalized	AM	45.0	D	52.3	D
			PM	**73.5**	**E**	**77.1**	**E**
3	SONOMA BOULEVARD (SR-29) & SR-37 WB OFF RAMP	Signalized	AM	14.4	B	15.9	B
			PM	17.3	B	18.7	B
4	SONOMA BOULEVARD (SR-29) & SR-37 EB OFF RAMP	Signalized	AM	10.4	B	10.4	B
			PM	15.4	B	15.9	B
5	BROADWAY (LINCOLN HIGHWAY) & MINI DRIVE	Signalized	AM	18.9	B	19.1	B
			PM	18.7	B	19.0	B
6	BROADWAY (LINCOLN HIGHWAY) & EASTERN PROJECT ACCESS	Side Street Stop	AM	13.7	B	15.0	C
			PM	13.4	B	14.7	B
7	BROADWAY (LINCOLN HIGHWAY) & LEWIS BROWN DRIVE	Signalized	AM	16.2	B	16.3	B
			PM	17.8	B	17.9	B

SOURCE: Abrams Associates, 2023. **NOTE:** Delay results are presented in seconds per vehicle.

6.2 Baseline Traffic Conditions (Scenario 3)

The Baseline scenario evaluates the existing conditions with the addition of traffic from future development in the area and the general baseline growth in traffic. **Table 7** summarizes the LOS results for the Baseline weekday AM and PM peak hour conditions and **Figure 8** presents the baseline traffic volumes. For this analysis the baseline volumes were developed based on the assumption that the project completion and full occupancy date would be 2025 with a conservative assumption that the existing traffic volumes in the study area will have returned to

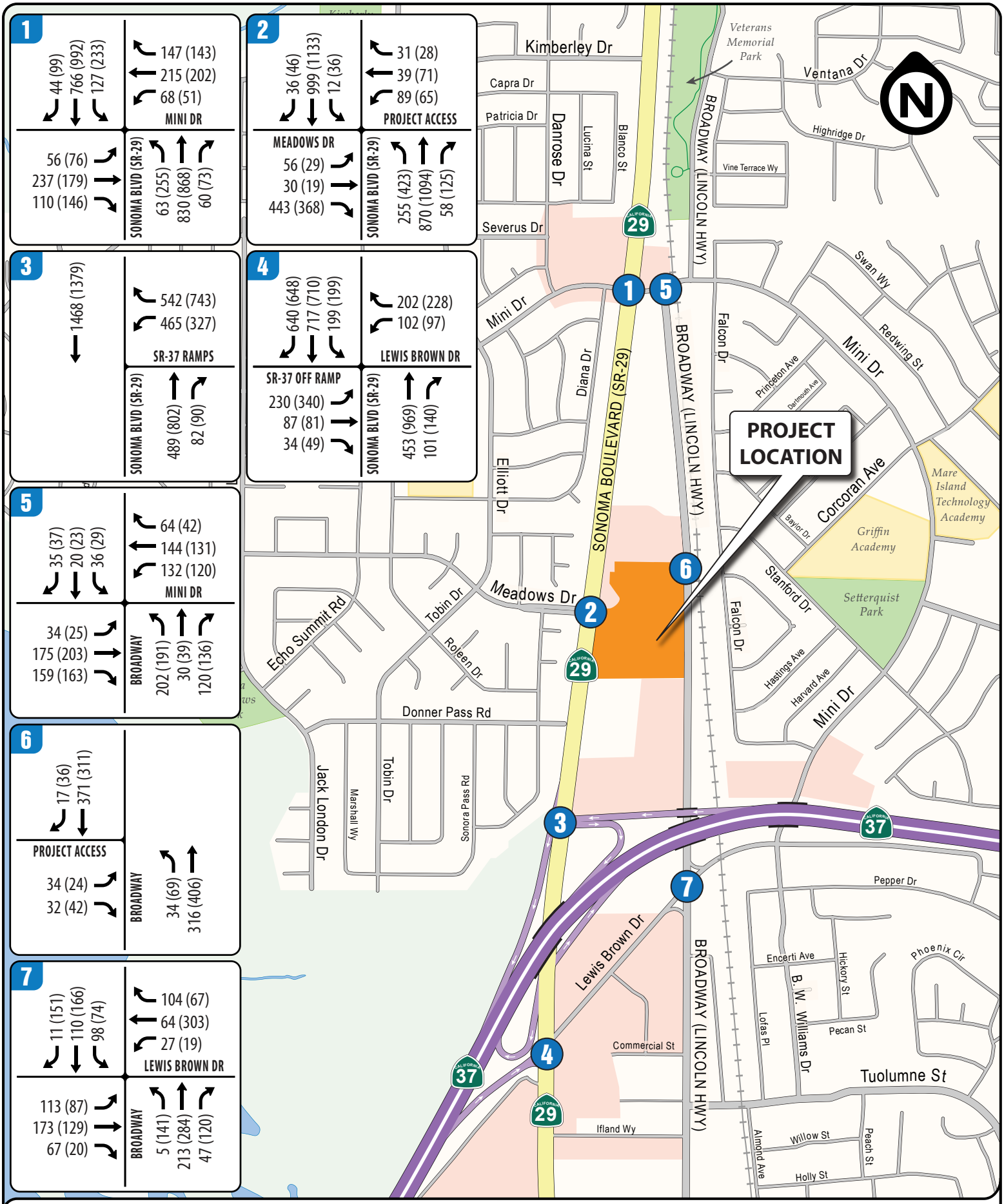

FIGURE 7 | EXISTING PLUS PROEJCT AM(PM) PEAK HOUR TRAFFIC VOLUMES

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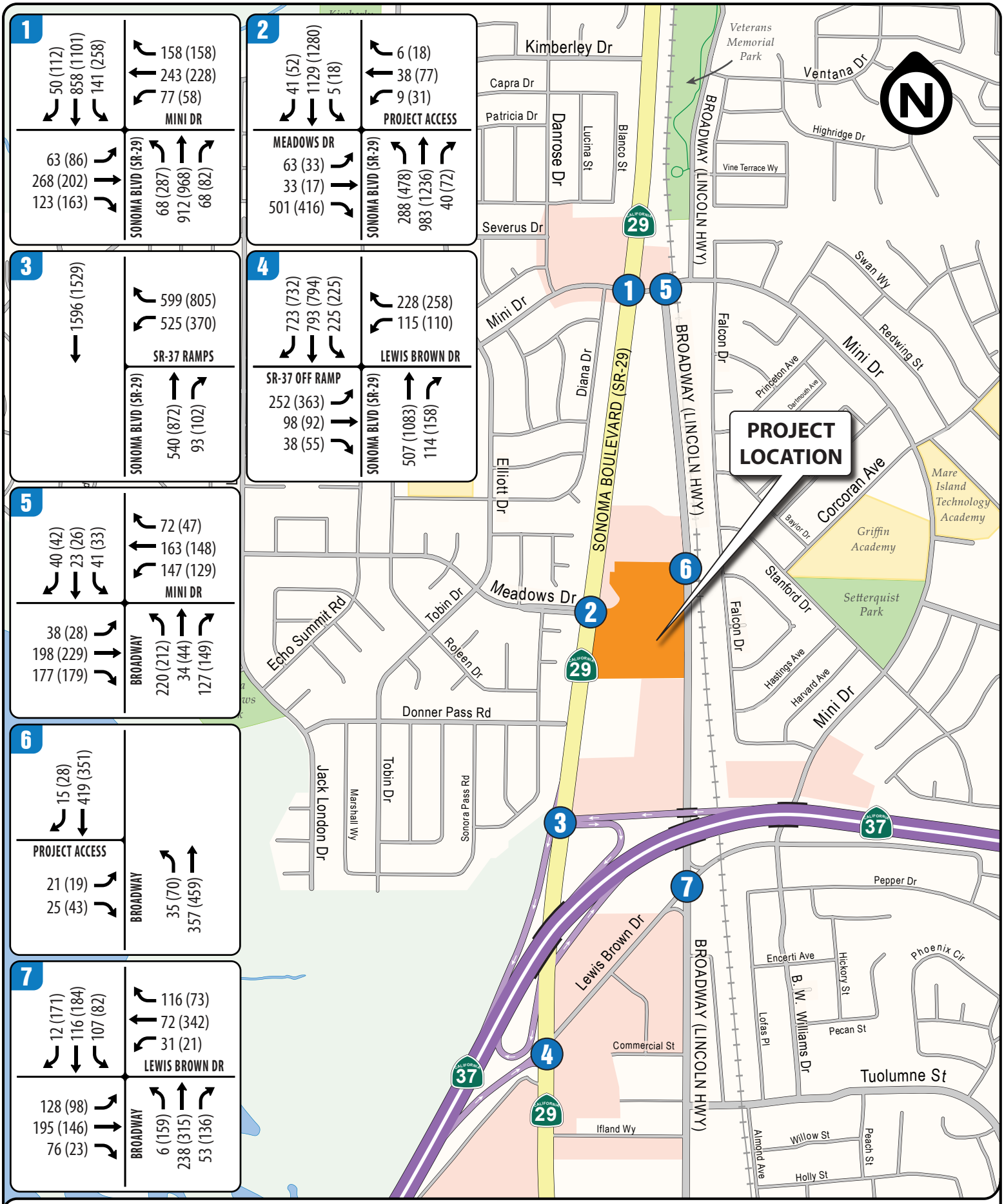

FIGURE 8 | BASELINE AM(PM) PEAK HOUR TRAFFIC VOLUMES

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TABLE 7
BASELINE INTERSECTION LEVEL OF SERVICE CONDITIONS

	INTERSECTION	CONTROL	PEAK HOUR	BASELINE		BASELINE PLUS PROJECT	
				Delay	LOS	Delay	LOS
1	SONOMA BOULEVARD (SR-29) & MINI DRIVE	Signalized	AM	23.2	C	23.6	C
			PM	37.7	D	38.8	D
2	SONOMA BOULEVARD (SR-29) & MEADOWS DRIVE / PRIMARY PROJECT ACCESS	Signalized	AM	**68.4**	**E**	**76.7**	**E**
			PM	**> 80.0**	**F**	**> 80.0**	**F**
3	SONOMA BOULEVARD (SR-29) & SR-37 WB OFF RAMP	Signalized	AM	20.2	C	21.9	C
			PM	25.2	C	27.6	C
4	SONOMA BOULEVARD (SR-29) & SR-37 EB OFF RAMP	Signalized	AM	11.3	B	11.4	B
			PM	18.7	B	19.4	B
5	BROADWAY (LINCOLN HIGHWAY) & MINI DRIVE	Signalized	AM	20.8	C	21.0	C
			PM	20.6	C	20.9	C
6	BROADWAY (LINCOLN HIGHWAY) & EASTERN PROJECT ACCESS	Side Street Stop	AM	15.1	C	16.8	C
			PM	14.9	B	16.6	C
7	BROADWAY (LINCOLN HIGHWAY) & LEWIS BROWN DRIVE	Signalized	AM	17.0	B	17.1	B
			PM	19.2	B	19.2	B

SOURCE: Abrams Associates, 2023. **NOTE:** Delay results are presented in seconds per vehicle.

pre-covid levels. The review of pre-covid traffic conditions indicated a 13% increase to the existing traffic volumes was appropriate based on traffic data collected for the Propel Vallejo General Plan Update and Sonoma Boulevard Specific Plan EIR (July, 2016). The traffic counts utilized for the comparison to pre-covid conditions are included in the technical appendix to this report. All study intersections would continue to have acceptable conditions (LOS D or better) under the Baseline Plus Project scenario during the AM and PM peak hours with the exception of Meadows Drive at Sonoma Boulevard (Intersection #2). Since a conservative 13% increase was used instead of a per year increase (typically 1 to 2%), an update to the LOS results was not required for the revised opening date, as no changes to the report's conclusions would be anticipated. Beyond the LOS F conditions at Sonoma Boulevard (SR 29) and Meadows Drive, poor operations would not be expected to be identified at any other study intersections with further refinement of the Baseline traffic analysis.

6.3 Baseline *Plus Project* Traffic Conditions (Scenario 4)

The Baseline plus proposed project traffic forecasts were developed by adding traffic from proposed project to the baseline traffic volumes. The traffic volumes for each of the study intersections for the Baseline Plus Project scenario are shown in **Figure 9**. **Table 7** summarizes the LOS results for the Baseline and Baseline Plus Project weekday AM and PM peak hour conditions. The corresponding LOS analysis calculation sheets are presented in the appendix. All of the study intersections would continue to have acceptable conditions (LOS D or better) under the Baseline Plus Project scenario during the weekday AM and PM peak hours with the exception of Meadows Drive at Sonoma Boulevard (Intersection #2). Based on City standards the project would be considered to have a significant impact on traffic operations at intersection #2, where the addition of project traffic would increase the volume to capacity (V/C)

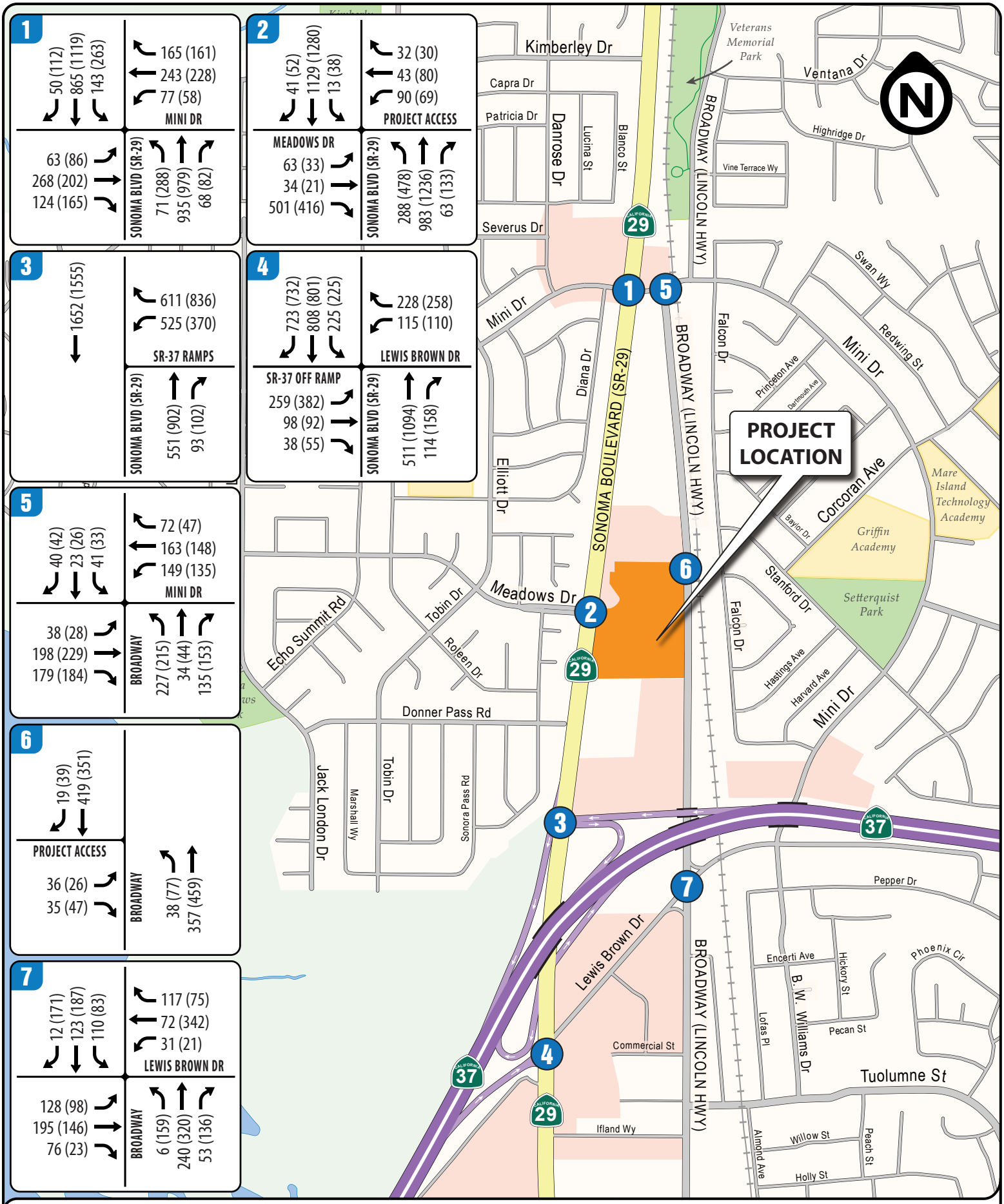

FIGURE 9 | BASELINE PLUS PROEJCT AM(PM) PEAK HOUR TRAFFIC VOLUMES

TRAFFIC IMPACT ANALYSIS

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ratio by more than 0.01. It should be noted that although Synchro does not yield V/C ratios for the overall intersection, the project traffic is forecast to increase the existing peak hour volumes by at least 4%. The recommended improvements to improve the traffic operations at this intersection are presented in Section 8.0. The proposed project could potentially help support existing bus services with additional transit ridership and would not conflict with any transit plans or goals of Soltrans. As a result, the project would not be expected to result in any significant impacts to bus transit service in the area.

6.4 Cumulative Traffic Conditions (Scenario 5)

For the cumulative conditions, the intersection traffic volumes were based on the existing turning movements, adjusted to match pre-covid conditions, plus incremental growth (0.5% per year) in background traffic based on the County's traffic model. **Figure 10** presents the cumulative build-out traffic volumes for the project study intersections. **Table 8** summarizes the LOS results for the Cumulative (Year 2040) traffic conditions at each of the project study intersections. As shown on this table, the project study intersections would continue to have acceptable conditions during the AM and PM peak commute hours with the exception of Meadows Drive at Sonoma Boulevard (Intersection #2).

TABLE 8
CUMULATIVE INTERSECTION LEVEL OF SERVICE CONDITIONS

	INTERSECTION	CONTROL	PEAK HOUR	CUMULATIVE		CUMULATIVE PLUS PROJECT	
				Delay	LOS	Delay	LOS
1	SONOMA BOULEVARD (SR-29) & MINI DRIVE	Signalized	AM	25.9	C	26.5	C
			PM	47.5	D	49.7	D
2	SONOMA BOULEVARD (SR-29) & MEADOWS DRIVE / PRIMARY PROJECT ACCESS	Signalized	AM	**> 80.0**	**F**	**> 80.0**	**F**
			PM	**> 80.0**	**F**	**> 80.0**	**F**
3	SONOMA BOULEVARD (SR-29) & SR-37 WB OFF RAMP	Signalized	AM	26.1	C	28.5	C
			PM	33.3	C	36.1	D
4	SONOMA BOULEVARD (SR-29) & SR-37 EB OFF RAMP	Signalized	AM	12.2	B	12.3	B
			PM	22.6	C	24.0	C
5	BROADWAY (LINCOLN HIGHWAY) & MINI DRIVE	Signalized	AM	22.5	C	22.8	C
			PM	22.2	C	22.6	C
6	BROADWAY (LINCOLN HIGHWAY) & EASTERN PROJECT ACCESS	Side Street Stop	AM	16.5	C	18.6	C
			PM	16.4	C	18.4	C
7	BROADWAY (LINCOLN HIGHWAY) & LEWIS BROWN DRIVE	Signalized	AM	17.5	B	17.6	B
			PM	20.4	C	20.5	C

SOURCE: Abrams Associates, 2023. **NOTE:** Delay results are presented in seconds per vehicle.

6.5 Cumulative Plus Project Traffic Conditions (Scenario 6)

Table 8 summarizes the LOS results for the Cumulative Plus Project (Year 2040) traffic conditions at each of the project study intersection. **Figure 11** presents the cumulative build-out traffic volumes including the traffic from the proposed project. As shown on this table, the project study intersections would continue to have acceptable conditions during the weekday AM and PM peak commute hours with the exception of with the exception of Meadows Drive at Sonoma Boulevard (Intersection #2). Based on City standards the project would be considered

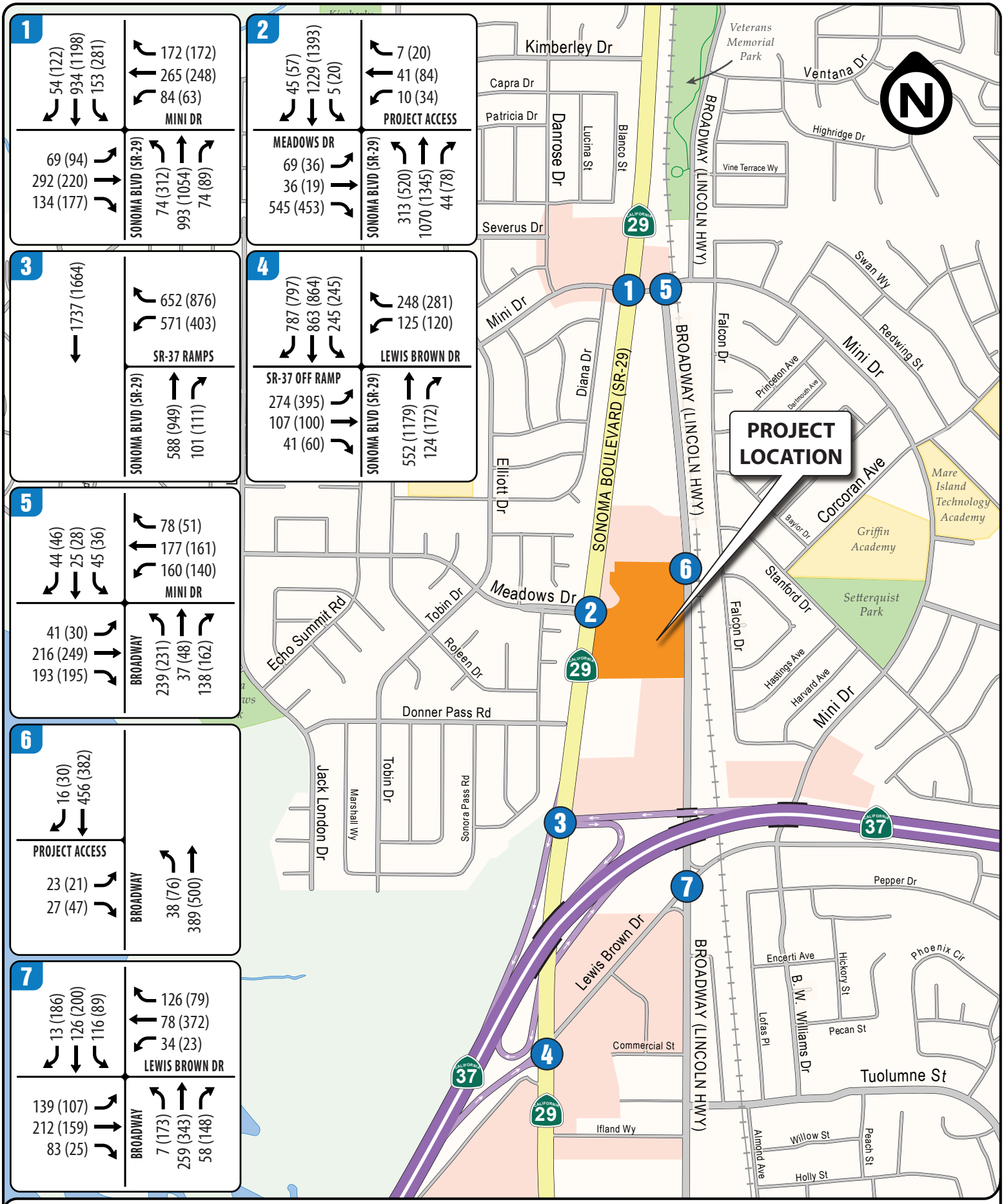

FIGURE 10 | CUMULATIVE AM(PM) PEAK HOUR TRAFFIC VOLUMES

TRAFFIC IMPACT ANALYSIS

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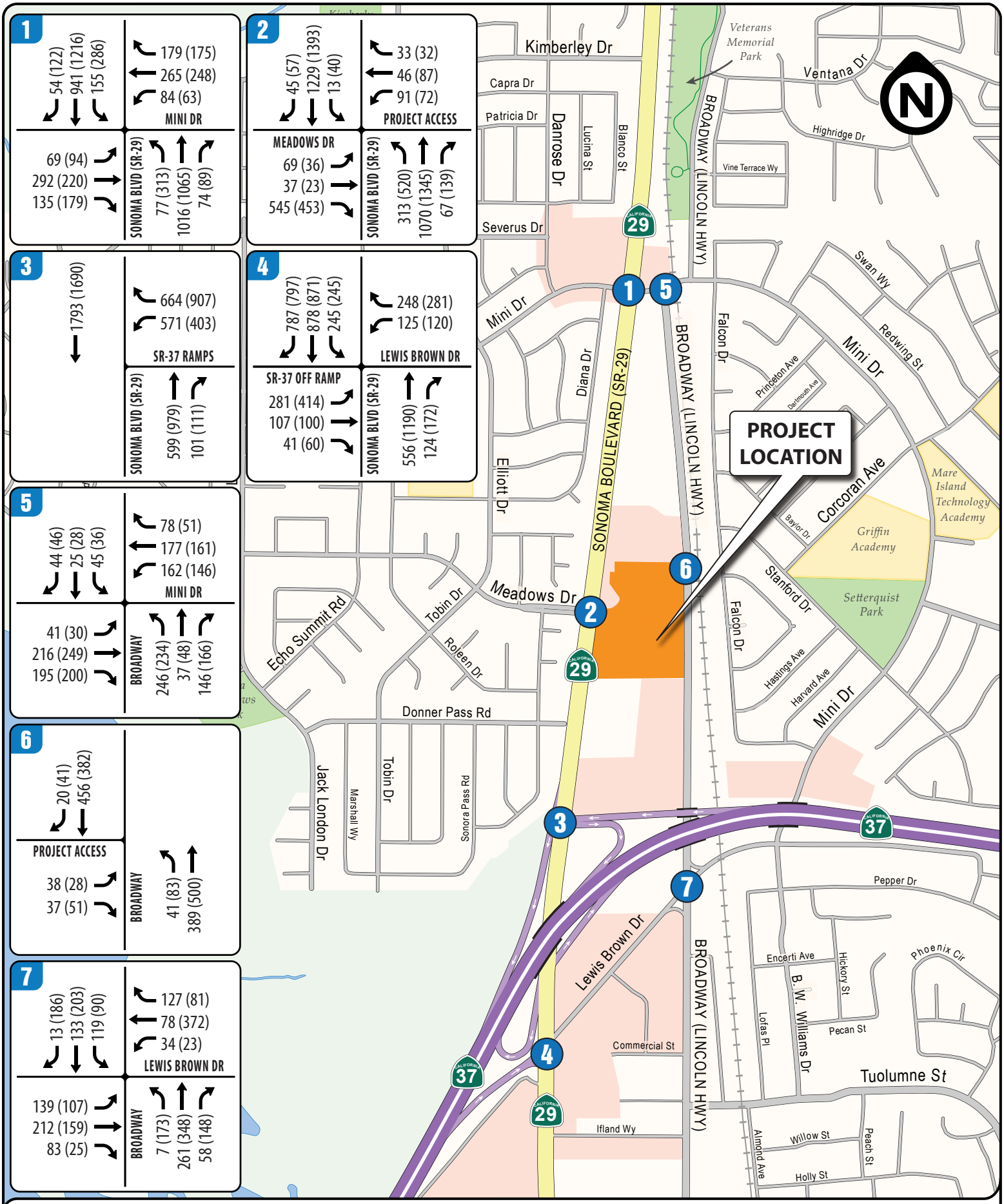

FIGURE 11 | CUMULATIVE PLUS PROEJCT AM(PM) PEAK HOUR TRAFFIC VOLUMES

TRAFFIC IMPACT ANALYSIS

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to have a significant impact on traffic operations at intersection #2, where the addition of project traffic would increase the volume to capacity (V/C) ratio by more than 0.01. It should be noted that although Synchro does not yield V/C ratios for the overall intersection, the project traffic is forecast to increase the existing peak hour volumes by at least 4%. The recommended improvements to improve the traffic operations at this intersection are presented in Section 8.0.

7.0 INTERNAL CIRCULATION AND ACCESS MANAGEMENT, PEDESTRIAN, BICYCLE AND TRANSIT IMPACTS

7.1 Internal Circulation and Safety

Internal Circulation - No internal site circulation or access issues have been identified that would cause a traffic safety problem or any unusual traffic congestion or delay. In general, the project was not found to cause (or substantially increase) any safety hazards due to any design features or incompatible uses.

Safety - Although the project would increase vehicle and pedestrian traffic in the project vicinity it is not expected to significantly impact or change the design of any existing facilities or create any new safety problems in the area. Based on the established significance criteria the project's impacts on transportation safety would be less than significant and no additional improvements would be required.

Accident History - Caltrans has established restrictions on the use of traffic signals and multi-way stop signs and the California Manual of Uniform Traffic Control Devices (MUTCD) provides detailed guidance on when these applications are appropriate. Caltrans' guidelines state that a traffic signal or all-way stop control shall be considered if: "*Five or more reported crashes, of types susceptible to correction by a traffic control signal, have occurred within a 12-month period, each crash involving personal injury or property damage apparently exceeding the applicable requirements for a reportable crash*". A detailed review of the accident history in the study area over the past five years was conducted using data available from the California Highway Patrol's Statewide Integrated Traffic Records System (SWITRS).

7.2 Pedestrian and Bicycle Impacts

The City does not have level of service standards for pedestrian or bicycle facilities. Nevertheless, use of existing facilities by the users of the project would not be expected to overcrowd those facilities or decrease their performance or safety. The proposed project would not significantly impact or change the design of any existing pedestrian facilities and should not create any new safety problems for pedestrians or bicyclists in the area. The project will add some bicyclists in the area but the volumes added would not be expected to significantly impact any existing bicycle facilities. In relation to the existing conditions, the proposed project would not cause substantial changes to the pedestrian or bicycle traffic in the area and would not significantly impact or require changes to the design of any existing bicycle or pedestrian

facilities. However, consistent with the City's General Plan, the project would be required to provide adequate pedestrian facilities that connect it to the surrounding pedestrian network. The City is currently finalizing pedestrian and bicycle safety improvements for the project entrance intersection on State Route 29 at Meadows Drive.

7.3 Transit Impacts

The project would not result in degradation of the level of service (or a significant increase in delay) on any roadway segments currently being utilized by bus transit in the area and, as such, no significant impacts to bus transit are expected. The proposed project would not interfere with Soltrans or any existing bus routes and would not remove or relocate any existing bus stops.

8.0 RECOMMENDED TRAFFIC IMPROVEMENTS

In all of the "plus project" scenarios (i.e. Existing, Baseline, and Cumulative) the traffic from the proposed project is forecast to contribute to the existing operational problems at Meadows Drive and Sonoma Boulevard (Intersection #2). The project's contribution to traffic exceeds City standards at this intersection because it already has poor LOS (LOS E or worse) and the addition of project traffic would increase the volume to capacity (V/C) ratio by more than 0.01. Based on the project's design and a detailed analysis conducted according to the required guidelines recommendations have been developed to address the project's potential impact to the poor traffic operations identified at Meadows Drive at Sonoma Boulevard (Intersection #2). In addition to the planned bicycle and pedestrian improvements, the recommended improvement to improve traffic operations at this intersection is to implement a right-turn overlap phase for the eastbound approach to the intersection. This improvement would improve the LOS to an acceptable level in all scenarios except for the Cumulative plus Project PM scenario. However, even under this scenario the LOS is forecast to improve from LOS F to LOS E with a corresponding reduction to the average intersection delay of about 75 seconds. Under Existing Plus Project Conditions the right-turn overlap phase would be forecast to improve the LOS from LOS E to LOS D in the PM peak hour. Under Baseline Plus Project Conditions this improvement would be forecast to improve the LOS from LOS E to LOS D in the AM peak hour and from LOS F to LOS D in the PM peak hour. Under Cumulative Plus Project Conditions this improvement would be forecast to improve the LOS from LOS F to LOS D in the AM peak hour and, as noted above, from LOS F to LOS E in the PM peak hour. **Table 9** presents the resulting improvement in traffic operations that would be forecast to result with the implementation of the right turn overlap phase for the eastbound approach under cumulative plus project conditions, which represents the worst-case scenario.

Recommended Improvement

For existing and future conditions right-turn overlap signal phasing shall be implemented at the eastbound Meadows Drive approach to the project's main entrance intersection on State Route 29. The applicant shall coordinate with the Public Works Department in their fair share portion of the implementation of the resulting traffic signal modifications.

TABLE 9
INTERSECTION LEVEL OF SERVICE AT SONOMA BOULEVARD (SR 29) AND MEADOWS DRIVE WITH THE RECOMMENDED TRANSPORTATION IMPROVEMENT

SCENARIO		CONTROL	PEAK HOUR	WITHOUT PROJECT		PLUS PROJECT		PLUS PROJECT WITH IMPROVEMENT	
				Delay	LOS	Delay	LOS	Delay	LOS
1	EXISTING CONDITIONS	Signalized	AM	45.0	D	52.3	D	36.1	D
			PM	73.5	E	77.1	E	36.6	D
2	BASELINE CONDITIONS	Signalized	AM	68.4	E	76.7	E	43.0	D
			PM	109.2	F	109.7	F	48.5	D
3	CUMULATIVE CONDITIONS	Signalized	AM	89.7	F	98.5	F	50.2	D
			PM	133.4	F	133.7	F	58.9	E

SOURCE: Abrams Associates, 2023. **NOTE:** Delay results are presented in seconds per vehicle.

9.0 CEQA RELATED IMPACTS

Impact #1 Impacts related to conflicts with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or potential decreases to the performance or safety of such facilities.

The project would not result in degradation of the level of service (or a significant increase in delay) on any roadway segments currently being utilized by bus transit in the area and would not increase ridership beyond existing capacity. As such, no significant impacts to bus transit will occur. In addition, the proposed project would not significantly impact or change the design of any existing pedestrian facilities and would not create any new safety problems for pedestrians in the area. The project will add some bicyclists in the area but the volumes added would not be expected to significantly impact any existing bicycle facilities. In relation to the existing conditions, the proposed project would not cause substantial changes to the pedestrian or bicycle traffic in the area and would not significantly impact or require changes to the design of any existing bicycle or pedestrian facilities. However, the intersection of Meadows Drive and Sonoma Boulevard (SR 29) is forecast to operate at LOS F without improvements, which would exceed City's standards and could indicate the potential for safety problems to develop with the addition of more traffic. The City is currently finalizing pedestrian and bicycle safety improvements for this intersection on Sonoma Boulevard (SR 29) at Meadows Drive and the main project entrance.

Impact #2 Impacts relating to construction activities

The increase in traffic as a result of construction activities associated with the proposed project has been quantified assuming a worst-case single phase construction period of 12 months.

Heavy Equipment

Approximately ten pieces of heavy equipment are estimated to be transported on and off the site each month throughout the demolition and construction of the proposed project. Heavy equipment transport to and from the site could cause traffic impacts in the vicinity of the project site during construction. However, each load would be required to obtain all necessary permits, which would include conditions. Prior to issuance of grading and building permits, the project applicant would be required to submit a Traffic Control Plan. The requirements within the Traffic Control Plan include, but are not limited to, the following: truck drivers would be notified of and required to use the most direct route between the site and the freeway, as determined by the City Engineering Department; all site ingress and egress would occur only at the main driveways to the project site and construction activities may require installation of temporary (or ultimate) traffic signals as determined by the City Engineer; specifically designated travel routes for large vehicles would be monitored and controlled by flaggers for large construction vehicle ingress and egress; any debris and mud on nearby streets caused by trucks would be monitored daily and may require instituting a street cleaning program. In addition, the transport of heavy equipment being hauled to and from the site each month would be short-term and temporary.

Employees

The weekday work is expected to begin around 7:00 AM and end around 4:00 PM. The construction worker arrival peak would occur between 6:30 AM and 7:30 AM, and the departure peak would occur between 4:00 PM and 5:00 PM. These peak hours are slightly before the citywide commute peaks. It should be noted that the number of trips generated during construction would not only be temporary, but would also be substantially less than the proposed project at buildout. Based on past construction of similar projects, construction workers could require parking for up to 100 vehicles during the peak construction period. Additionally, deliveries, visits, and other activities may generate peak non-worker parking demand of 20 to 25 trucks and automobiles per day. Therefore, up to 125 vehicle parking spaces may be required during the peak construction period for the construction employees and deliveries. Furthermore, the Traffic Control Plan requires construction employee parking be provided on the project site to eliminate conflicts with nearby residential areas. Because the construction of the project can be staggered so that employee parking demand is met by using on-site parking, the impacts of construction-related employee traffic and parking are considered less-than-significant.

Construction Material Import/Export

The project would also require removal of existing debris as well as the importation of construction material, including raw materials for the building pads, the buildings, and landscaping. During the maximum peak construction period, the project could generate approximately 40 truck trips per day. Furthermore, under the provisions of the Traffic Control Plan, if importation and exportation of material becomes a traffic nuisance, then the City Engineer may limit the hours the activities can take place.

Traffic Control Plan

The Traffic Control Plan would indicate how parking for construction workers would be provided during construction and ensure a safe flow of traffic in the project area during construction. This analysis assumed construction of the entire project in one phase to identify the potential worst-case traffic effects. If the project is built in phases over time, the effects of each phase will be the same or less. Each phase will be subject to a Traffic Control Plan and oversight by the City Engineer. The last phase may require added worker parking measures, depending on the circumstances, as there will not be any remaining vacant land for parking. Therefore, the demolition and construction activities associated with the proposed project or its individual phases would not lead to noticeable congestion in the vicinity of the site or the perception of decreased traffic safety resulting in a ***less-than-significant*** impact.

Condition(s) of Approval

1. Submit traffic control plan for review and approval.
2. Apply for encroachment permit.

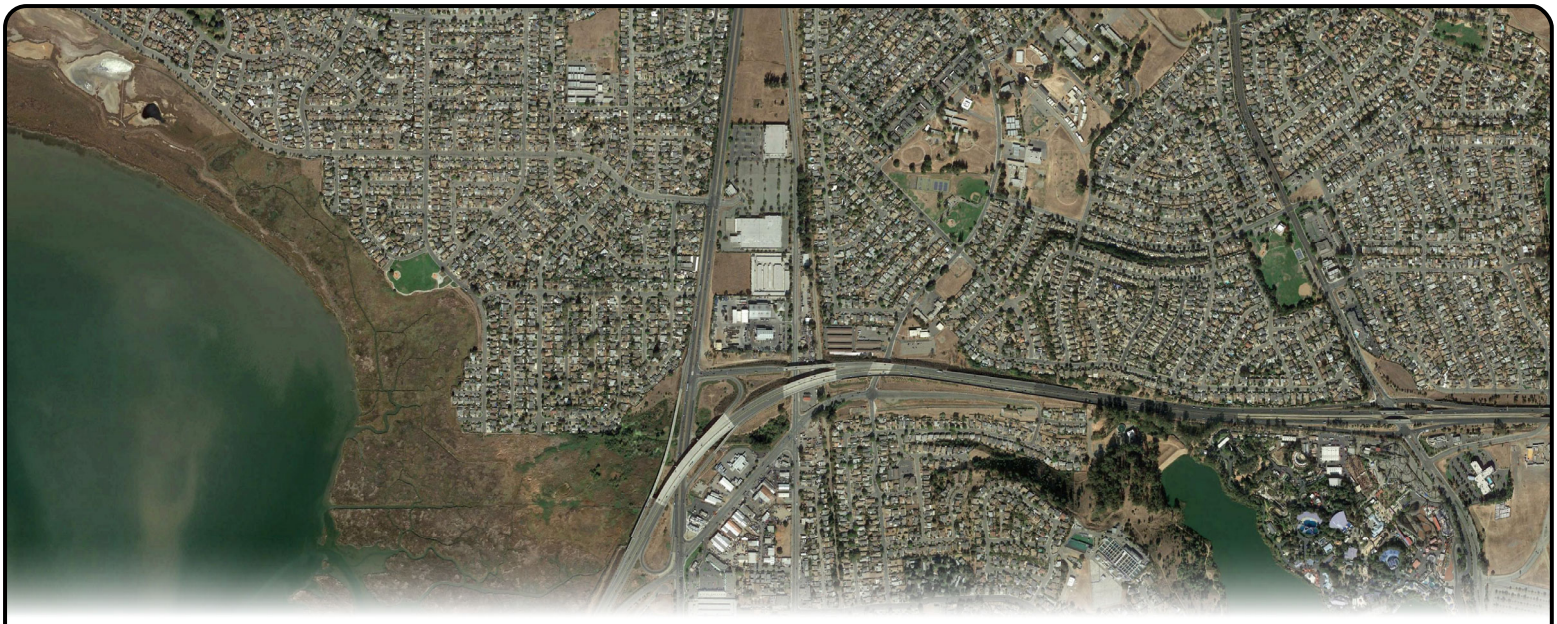
Impact #3 Impacts related to site access and circulation.

All access to the site is proposed to occur via driveways onto Sonoma Boulevard and Broadway. Based on a review of the proposed site plan it was determined that the site circulation should function well and would not cause any safety or operational problems. The project site design has been required to conform to City design standards and is not expected to create any significant impacts to pedestrians, bicyclists or site access and circulation. Therefore, impacts related to access and on-site circulation to the proposed project would be ***less-than-significant*** with implementation of the following condition of approval.

Impact #4 Impacts regarding emergency vehicle access on and surrounding the proposed project site.

Sufficient emergency access is determined by factors such as number of access points, roadway width, and proximity to fire stations. The land use plan for the

proposed project would include entrances on both Sonoma Boulevard and Broadway. All lane widths within the project would meet the minimum width that can accommodate an emergency vehicle; therefore, the width of the internal roadways would be adequate. In addition, with the above recommended improvements the addition of traffic from project traffic would not be forecast to result in any significant changes to emergency vehicle response times in the area. Therefore, subject to approval from the City and the fire department, the development of the proposed project is expected to have ***less-than-significant*** impacts regarding emergency vehicle access.



Traffic Impact Analysis Technical Appendix

RSC Vallejo

City of Vallejo

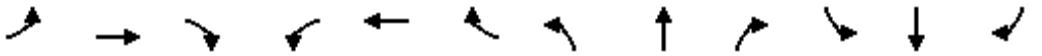
Prepared by:
Abrams Associates
1875 Olympic Boulevard, Suite 210
Walnut Creek CA 94596

Abrams Associates
TRAFFIC ENGINEERING, INC.

October 23, 2023

Volumes for: Thursday, May 15, 2014 City: Vallejo Project #: 14-7297-006
Location: SR 29 between Mini Drive and Meadows Drive

Start	Northbound		Hour Totals		Southbound		Hour Totals		Combined Totals	
Time	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	57	281			78	259				
12:15	49	285			50	288				
12:30	39	284			61	303				
12:45	28	316	173	1166	42	300	231	1150	404	2316
1:00	35	309			38	285				
1:15	25	270			40	309				
1:30	24	311			31	310				
1:45	28	272	112	1162	29	350	138	1254	250	2416
2:00	19	302			33	295				
2:15	24	315			18	305				
2:30	23	323			22	323				
2:45	32	280	98	1220	22	327	95	1250	193	2470
3:00	34	279			45	388				
3:15	42	295			30	339				
3:30	48	314			46	309				
3:45	36	302	160	1190	45	365	166	1401	326	2591
4:00	47	312			74	327				
4:15	43	294			59	367				
4:30	86	295			92	343				
4:45	74	338	250	1239	121	359	346	1396	596	2635
5:00	107	301			178	327				
5:15	117	314			191	327				
5:30	177	276			191	338				
5:45	181	335	582	1226	220	383	780	1375	1362	2601
6:00	217	298			260	308				
6:15	238	290			240	369				
6:30	235	275			268	273				
6:45	252	244	942	1107	244	307	1012	1257	1954	2364
7:00	288	289			286	251				
7:15	298	251			302	243				
7:30	305	229			305	241				
7:45	276	220	1167	989	294	211	1187	946	2354	1935
8:00	252	210			292	175				
8:15	233	208			283	213				
8:30	264	209			290	243				
8:45	268	202	1017	829	270	226	1135	857	2152	1686
9:00	292	214			292	190				
9:15	296	198			304	195				
9:30	272	179			284	210	0			
9:45	284	189	1144	780	310	124	1190	719	2334	1499
10:00	269	173			280	161				
10:15	278	157			283	146				
10:30	286	125			285	157				
10:45	323	128	1156	583	298	141	1146	605	2302	1188
11:00	292	126			305	132				
11:15	291	110			338	98				
11:30	322	99			288	115				
11:45	276	66	1181	401	282	107	1213	452	2394	853
Total	7982	11892	7982	11892	8639	12662	8639	12662	16621	24554
Combined Total	19874		19874		21301		21301		41175	
AM Peak	10:45 AM				10:45 AM					
Vol.	1228				1229					
P.H.F.	0.950				0.909					
PM Peak		4:30 PM				3:45 PM				
Vol.		1248				1402				
P.H.F.		0.913				0.955				
Percentage	40.2%	59.8%			40.6%	59.4%				



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	237	109	68	215	140	60	807	60	125	759	44
Future Volume (veh/h)	56	237	109	68	215	140	60	807	60	125	759	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	258	118	74	234	152	65	877	65	136	825	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	93	428	190	103	388	241	96	1302	578	179	1468	652
Arrive On Green	0.05	0.18	0.18	0.06	0.19	0.19	0.05	0.37	0.37	0.10	0.42	0.42
Sat Flow, veh/h	1767	2368	1051	1767	2078	1295	1767	3526	1566	1767	3526	1567
Grp Volume(v), veh/h	61	190	186	74	197	189	65	877	65	136	825	48
Grp Sat Flow(s),veh/h/ln	1767	1763	1656	1767	1763	1610	1767	1763	1566	1767	1763	1567
Q Serve(g_s), s	2.1	6.1	6.4	2.6	6.3	6.7	2.2	12.9	1.7	4.6	11.1	1.1
Cycle Q Clear(g_c), s	2.1	6.1	6.4	2.6	6.3	6.7	2.2	12.9	1.7	4.6	11.1	1.1
Prop In Lane	1.00		0.63	1.00		0.80	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	93	319	299	103	329	300	96	1302	578	179	1468	652
V/C Ratio(X)	0.66	0.60	0.62	0.72	0.60	0.63	0.68	0.67	0.11	0.76	0.56	0.07
Avail Cap(c_a), veh/h	356	725	681	442	811	740	413	3270	1453	670	3782	1681
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.8	23.3	23.4	28.7	23.1	23.2	28.8	16.4	12.9	27.1	13.8	10.9
Incr Delay (d2), s/veh	7.7	1.8	2.1	9.1	1.8	2.2	8.0	0.6	0.1	6.5	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	2.5	2.5	1.3	2.6	2.6	1.1	4.8	0.6	2.2	3.9	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.5	25.1	25.5	37.8	24.8	25.4	36.8	17.0	12.9	33.6	14.1	10.9
LnGrp LOS	D	C	C	D	C	C	D	B	B	C	B	B
Approach Vol, veh/h		437			460			1007			1009	
Approach Delay, s/veh		26.9			27.2			18.0			16.6	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.8	27.4	8.1	15.7	7.9	30.3	7.8	16.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	57.5	15.5	25.5	14.5	66.5	12.5	28.5
Max Q Clear Time (g_c+I1), s	6.6	14.9	4.6	8.4	4.2	13.1	4.1	8.7
Green Ext Time (p_c), s	0.3	8.0	0.1	2.1	0.1	7.4	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	20.3
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	29	443	8	34	5	255	870	35	4	999	36
Future Volume (veh/h)	56	29	443	8	34	5	255	870	35	4	999	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	32	482	9	37	5	277	946	38	4	1086	39
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	79	528	445	37	402	54	311	1909	848	9	1286	46
Arrive On Green	0.04	0.28	0.28	0.01	0.25	0.25	0.18	0.54	0.54	0.01	0.37	0.37
Sat Flow, veh/h	1767	1856	1564	3428	1599	216	1767	3526	1565	1767	3470	125
Grp Volume(v), veh/h	61	32	482	9	0	42	277	946	38	4	552	573
Grp Sat Flow(s),veh/h/ln	1767	1856	1564	1714	0	1815	1767	1763	1565	1767	1763	1832
Q Serve(g_s), s	3.9	1.4	32.5	0.3	0.0	2.0	17.5	19.2	1.3	0.3	32.7	32.7
Cycle Q Clear(g_c), s	3.9	1.4	32.5	0.3	0.0	2.0	17.5	19.2	1.3	0.3	32.7	32.7
Prop In Lane	1.00		1.00	1.00		0.12	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	79	528	445	37	0	456	311	1909	848	9	653	679
V/C Ratio(X)	0.78	0.06	1.08	0.24	0.00	0.09	0.89	0.50	0.04	0.43	0.84	0.84
Avail Cap(c_a), veh/h	163	528	445	153	0	456	472	2449	1087	79	832	865
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.0	29.7	40.8	56.0	0.0	32.8	45.9	16.4	12.3	56.6	32.9	32.9
Incr Delay (d2), s/veh	14.9	0.0	66.6	3.3	0.0	0.1	13.1	0.2	0.0	29.0	6.4	6.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.7	20.6	0.1	0.0	0.9	8.8	7.6	0.5	0.2	14.9	15.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.9	29.8	107.4	59.3	0.0	32.9	59.0	16.6	12.3	85.6	39.3	39.1
LnGrp LOS	E	C	F	E	A	C	E	B	B	F	D	D
Approach Vol, veh/h		575			51			1261			1129	
Approach Delay, s/veh		99.0			37.5			25.8			39.4	
Approach LOS		F			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.1	66.3	5.7	37.0	24.6	46.8	9.6	33.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.1	79.3	5.1	32.5	30.5	53.9	10.5	27.1
Max Q Clear Time (g_c+I1), s	2.3	21.2	2.3	34.5	19.5	34.7	5.9	4.0
Green Ext Time (p_c), s	0.0	9.0	0.0	0.0	0.6	7.6	0.0	0.1

Intersection Summary	
HCM 6th Ctrl Delay	45.0
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	465	0	530	0	478	82	0	1412	184
Future Volume (veh/h)	0	0	0	465	0	530	0	478	82	0	1412	184
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				505	0	576	0	520	89	0	1535	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				976	0	788	0	2077	923	0	2077	
Arrive On Green				0.28	0.00	0.28	0.00	0.59	0.59	0.00	0.59	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				505	0	576	0	520	89	0	1535	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				8.8	0.0	13.4	0.0	5.1	1.8	0.0	22.6	0.0
Cycle Q Clear(g_c), s				8.8	0.0	13.4	0.0	5.1	1.8	0.0	22.6	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				976	0	788	0	2077	923	0	2077	
V/C Ratio(X)				0.52	0.00	0.73	0.00	0.25	0.10	0.00	0.74	
Avail Cap(c_a), veh/h				3168	0	2557	0	3208	1425	0	3208	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				21.4	0.0	23.1	0.0	7.1	6.4	0.0	10.7	0.0
Incr Delay (d2), s/veh				0.4	0.0	1.3	0.0	0.1	0.0	0.0	0.5	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				3.4	0.0	4.2	0.0	1.6	0.5	0.0	7.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				21.8	0.0	24.4	0.0	7.1	6.4	0.0	11.2	0.0
LnGrp LOS				C	A	C	A	A	A	A	B	
Approach Vol, veh/h					1081			609			1535	A
Approach Delay, s/veh					23.2			7.0			11.2	
Approach LOS					C			A			B	

Timer - Assigned Phs	2	6	8
Phs Duration (G+Y+Rc), s	46.6	46.6	24.8
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	65.0	65.0	66.0
Max Q Clear Time (g_c+I1), s	7.1	24.6	15.4
Green Ext Time (p_c), s	4.4	17.5	4.9

Intersection Summary	
HCM 6th Ctrl Delay	14.4
HCM 6th LOS	B

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	223	87	34	102	0	202	0	449	101	199	702	640
Future Volume (veh/h)	223	87	34	102	0	202	0	449	101	199	702	640
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	168	198	37	111	0	0	0	488	110	216	763	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	353	371	312	0	0		0	995	441	291	1990	
Arrive On Green	0.20	0.20	0.20	0.00	0.00	0.00	0.00	0.28	0.28	0.16	0.56	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1564	1767	3526	1572
Grp Volume(v), veh/h	168	198	37		0.0		0	488	110	216	763	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1564	1767	1763	1572
Q Serve(g_s), s	3.2	3.7	0.7				0.0	4.4	2.1	4.4	4.6	0.0
Cycle Q Clear(g_c), s	3.2	3.7	0.7				0.0	4.4	2.1	4.4	4.6	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	353	371	312				0	995	441	291	1990	
V/C Ratio(X)	0.48	0.53	0.12				0.00	0.49	0.25	0.74	0.38	
Avail Cap(c_a), veh/h	1689	1773	1491				0	3554	1577	1087	6138	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.5	13.7	12.5				0.0	11.4	10.6	15.2	4.6	0.0
Incr Delay (d2), s/veh	1.0	1.2	0.2				0.0	0.4	0.3	3.7	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	1.4	0.2				0.0	1.4	0.6	1.8	0.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.5	14.9	12.7				0.0	11.8	10.9	18.9	4.7	0.0
LnGrp LOS	B	B	B				A	B	B	B	A	
Approach Vol, veh/h		403						598			979	A
Approach Delay, s/veh		14.5						11.6			7.9	
Approach LOS		B						B			A	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	10.8	15.3		12.1		26.1						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	23.5	38.5		36.5		66.5						
Max Q Clear Time (g_c+I1), s	6.4	6.4		5.7		6.6						
Green Ext Time (p_c), s	0.5	4.0		1.8		6.5						

Intersection Summary	
HCM 6th Ctrl Delay	10.4
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	175	157	130	144	64	195	30	112	36	20	35
Future Volume (veh/h)	34	175	157	130	144	64	195	30	112	36	20	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	37	190	171	141	157	70	212	33	122	39	22	38
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	72	364	308	189	644	274	332	52	337	59	33	57
Arrive On Green	0.04	0.20	0.20	0.11	0.27	0.27	0.22	0.22	0.22	0.09	0.09	0.09
Sat Flow, veh/h	1767	1804	1526	1767	2401	1022	1539	240	1562	667	377	650
Grp Volume(v), veh/h	37	185	176	141	113	114	245	0	122	99	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1567	1767	1763	1660	1779	0	1562	1694	0	0
Q Serve(g_s), s	1.0	4.4	4.7	3.6	2.3	2.5	5.8	0.0	3.1	2.6	0.0	0.0
Cycle Q Clear(g_c), s	1.0	4.4	4.7	3.6	2.3	2.5	5.8	0.0	3.1	2.6	0.0	0.0
Prop In Lane	1.00		0.97	1.00		0.62	0.87		1.00	0.39		0.38
Lane Grp Cap(c), veh/h	72	356	316	189	473	445	383	0	337	150	0	0
V/C Ratio(X)	0.51	0.52	0.56	0.74	0.24	0.26	0.64	0.00	0.36	0.66	0.00	0.00
Avail Cap(c_a), veh/h	399	1005	893	1007	1611	1517	1779	0	1561	820	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	21.8	16.6	16.7	20.1	13.3	13.4	16.6	0.0	15.5	20.5	0.0	0.0
Incr Delay (d2), s/veh	5.5	1.2	1.5	5.7	0.3	0.3	1.8	0.0	0.7	4.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.7	1.6	1.6	0.8	0.8	2.2	0.0	1.0	1.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.4	17.7	18.2	25.8	13.6	13.7	18.4	0.0	16.2	25.4	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	B	A	B	C	A	A
Approach Vol, veh/h		398			368			367			99	
Approach Delay, s/veh		18.8			18.3			17.6			25.4	
Approach LOS		B			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	14.5	9.5	13.9	8.6	6.4	17.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	46.5	26.5	26.5	22.5	10.5	42.5
Max Q Clear Time (g_c+I1), s	7.8	5.6	6.7	4.6	3.0	4.5
Green Ext Time (p_c), s	2.0	0.3	2.1	0.4	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	18.9
HCM 6th LOS	B

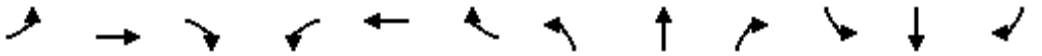
Intersection	
Int Delay, s/veh	1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	19	22	31	316	371	13
Future Vol, veh/h	19	22	31	316	371	13
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	21	24	34	343	403	14

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	831	219	422	0	-	0
Stage 1	415	-	-	-	-	-
Stage 2	416	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	322	783	1129	-	-	-
Stage 1	633	-	-	-	-	-
Stage 2	662	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	309	776	1124	-	-	-
Mov Cap-2 Maneuver	309	-	-	-	-	-
Stage 1	611	-	-	-	-	-
Stage 2	659	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.7	0.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1124	-	456	-	-
HCM Lane V/C Ratio	0.03	-	0.098	-	-
HCM Control Delay (s)	8.3	-	13.7	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	-	-



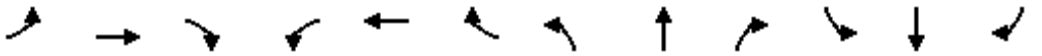
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	113	173	67	27	64	103	5	211	47	95	103	11
Future Volume (veh/h)	113	173	67	27	64	103	5	211	47	95	103	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	123	188	0	29	70	0	5	229	51	103	112	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	167	709		61	497		12	399	335	153	546	461
Arrive On Green	0.09	0.20	0.00	0.03	0.14	0.00	0.01	0.21	0.21	0.09	0.29	0.29
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1562	1767	1856	1564
Grp Volume(v), veh/h	123	188	0	29	70	0	5	229	51	103	112	12
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1562	1767	1856	1564
Q Serve(g_s), s	2.6	1.7	0.0	0.6	0.7	0.0	0.1	4.3	1.0	2.2	1.8	0.2
Cycle Q Clear(g_c), s	2.6	1.7	0.0	0.6	0.7	0.0	0.1	4.3	1.0	2.2	1.8	0.2
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	167	709		61	497		12	399	335	153	546	461
V/C Ratio(X)	0.74	0.27		0.47	0.14		0.42	0.57	0.15	0.68	0.21	0.03
Avail Cap(c_a), veh/h	1296	3674		523	2132		341	2173	1828	1114	2984	2516
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.1	13.1	0.0	18.4	14.6	0.0	19.2	13.7	12.4	17.2	10.3	9.7
Incr Delay (d2), s/veh	6.2	0.2	0.0	5.6	0.1	0.0	21.6	1.3	0.2	5.1	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.6	0.0	0.3	0.2	0.0	0.1	1.6	0.3	1.0	0.6	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.3	13.3	0.0	24.0	14.8	0.0	40.9	15.0	12.6	22.3	10.5	9.8
LnGrp LOS	C	B		C	B		D	B	B	C	B	A
Approach Vol, veh/h		311	A		99	A		285			227	
Approach Delay, s/veh		17.2			17.5			15.0			15.8	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.9	12.8	5.8	12.3	4.8	15.9	8.2	10.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	24.5	45.5	11.5	40.5	7.5	62.5	28.5	23.5
Max Q Clear Time (g_c+I1), s	4.2	6.3	2.6	3.7	2.1	3.8	4.6	2.7
Green Ext Time (p_c), s	0.2	1.6	0.0	1.3	0.0	0.7	0.3	0.3

Intersection Summary	
HCM 6th Ctrl Delay	16.2
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	76	179	144	51	202	140	254	857	73	228	974	99
Future Volume (veh/h)	76	179	144	51	202	140	254	857	73	228	974	99
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	83	195	157	55	220	152	276	932	79	248	1059	108
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	107	330	251	75	314	207	323	1448	644	294	1390	618
Arrive On Green	0.06	0.17	0.17	0.04	0.16	0.16	0.18	0.41	0.41	0.17	0.39	0.39
Sat Flow, veh/h	1767	1900	1444	1767	2026	1336	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	83	180	172	55	190	182	276	932	79	248	1059	108
Grp Sat Flow(s),veh/h/ln	1767	1763	1581	1767	1763	1600	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	4.0	8.2	8.8	2.7	8.9	9.4	13.2	18.4	2.7	11.8	22.6	3.9
Cycle Q Clear(g_c), s	4.0	8.2	8.8	2.7	8.9	9.4	13.2	18.4	2.7	11.8	22.6	3.9
Prop In Lane	1.00		0.91	1.00		0.84	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	107	306	275	75	274	248	323	1448	644	294	1390	618
V/C Ratio(X)	0.77	0.59	0.63	0.74	0.69	0.73	0.85	0.64	0.12	0.84	0.76	0.17
Avail Cap(c_a), veh/h	270	480	431	203	414	375	689	2303	1024	640	2206	980
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.2	33.1	33.3	41.2	34.8	35.0	34.4	20.5	15.9	35.2	22.8	17.1
Incr Delay (d2), s/veh	11.1	1.8	2.3	13.1	3.2	4.2	6.4	0.5	0.1	6.6	0.9	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	3.6	3.5	1.4	4.0	3.9	6.1	7.3	1.0	5.5	9.1	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.3	34.9	35.6	54.2	37.9	39.2	40.9	21.0	16.0	41.7	23.7	17.3
LnGrp LOS	D	C	D	D	D	D	D	C	B	D	C	B
Approach Vol, veh/h		435			427			1287			1415	
Approach Delay, s/veh		38.3			40.6			24.9			26.4	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	40.2	8.2	19.6	20.4	38.8	9.8	18.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	31.5	56.8	10.0	23.7	33.9	54.4	13.3	20.4
Max Q Clear Time (g_c+I1), s	13.8	20.4	4.7	10.8	15.2	24.6	6.0	11.4
Green Ext Time (p_c), s	0.7	8.5	0.0	1.7	0.8	9.7	0.1	1.5

Intersection Summary	
HCM 6th Ctrl Delay	29.0
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	15	368	27	68	16	423	1094	64	16	1133	46
Future Volume (veh/h)	29	15	368	27	68	16	423	1094	64	16	1133	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	32	16	400	29	74	17	460	1189	70	17	1232	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	47	286	240	87	222	51	491	2330	1035	31	1384	56
Arrive On Green	0.03	0.15	0.15	0.03	0.15	0.15	0.28	0.66	0.66	0.02	0.40	0.40
Sat Flow, veh/h	1767	1856	1557	3428	1457	335	1767	3526	1567	1767	3452	140
Grp Volume(v), veh/h	32	16	400	29	0	91	460	1189	70	17	629	653
Grp Sat Flow(s),veh/h/ln	1767	1856	1557	1714	0	1791	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	2.3	0.9	19.5	1.1	0.0	5.7	32.2	21.9	2.0	1.2	42.0	42.1
Cycle Q Clear(g_c), s	2.3	0.9	19.5	1.1	0.0	5.7	32.2	21.9	2.0	1.2	42.0	42.1
Prop In Lane	1.00		1.00	1.00		0.19	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	47	286	240	87	0	273	491	2330	1035	31	707	734
V/C Ratio(X)	0.68	0.06	1.67	0.34	0.00	0.33	0.94	0.51	0.07	0.54	0.89	0.89
Avail Cap(c_a), veh/h	74	286	240	135	0	273	579	2559	1137	78	780	809
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	61.1	45.7	53.6	60.7	0.0	47.9	44.7	11.0	7.6	61.7	35.3	35.3
Incr Delay (d2), s/veh	15.7	0.1	318.2	2.2	0.0	0.7	21.3	0.2	0.0	13.7	11.6	11.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.4	28.8	0.5	0.0	2.6	16.9	8.2	0.7	0.7	20.0	20.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.8	45.8	371.8	62.9	0.0	48.6	65.9	11.2	7.7	75.4	46.9	46.7
LnGrp LOS	E	D	F	E	A	D	E	B	A	E	D	D
Approach Vol, veh/h		448			120			1719			1299	
Approach Delay, s/veh		339.1			52.1			25.7			47.1	
Approach LOS		F			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.8	88.2	7.7	24.0	39.6	55.3	7.9	23.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.6	91.9	5.0	19.5	41.5	56.0	5.3	19.2
Max Q Clear Time (g_c+I1), s	3.3	23.9	3.1	21.5	34.2	44.1	4.3	7.7
Green Ext Time (p_c), s	0.0	13.2	0.0	0.0	1.0	6.6	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	73.5
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	327	0	712	0	772	90	0	1353	167
Future Volume (veh/h)	0	0	0	327	0	712	0	772	90	0	1353	167
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				355	0	774	0	839	98	0	1471	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				1165	0	940	0	1953	867	0	1953	
Arrive On Green				0.34	0.00	0.34	0.00	0.55	0.55	0.00	0.55	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1565	0	3618	1572
Grp Volume(v), veh/h				355	0	774	0	839	98	0	1471	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1565	0	1763	1572
Q Serve(g_s), s				6.5	0.0	21.7	0.0	11.8	2.5	0.0	27.0	0.0
Cycle Q Clear(g_c), s				6.5	0.0	21.7	0.0	11.8	2.5	0.0	27.0	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1165	0	940	0	1953	867	0	1953	
V/C Ratio(X)				0.30	0.00	0.82	0.00	0.43	0.11	0.00	0.75	
Avail Cap(c_a), veh/h				1965	0	1587	0	3438	1527	0	3438	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				20.6	0.0	25.6	0.0	11.1	9.0	0.0	14.4	0.0
Incr Delay (d2), s/veh				0.1	0.0	1.9	0.0	0.1	0.1	0.0	0.6	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				2.5	0.0	7.0	0.0	4.2	0.8	0.0	9.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				20.7	0.0	27.5	0.0	11.2	9.0	0.0	15.1	0.0
LnGrp LOS				C	A	C	A	B	A	A	B	
Approach Vol, veh/h					1129			937			1471	A
Approach Delay, s/veh					25.3			11.0			15.1	
Approach LOS					C			B			B	

Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	51.4		51.4		33.2	
Change Period (Y+Rc), s	4.5		4.5		4.5	
Max Green Setting (Gmax), s	82.5		82.5		48.5	
Max Q Clear Time (g_c+I1), s	13.8		29.0		23.7	
Green Ext Time (p_c), s	7.9		17.8		5.1	

Intersection Summary		
HCM 6th Ctrl Delay	17.3	
HCM 6th LOS	B	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	321	81	49	97	0	228	0	958	140	199	703	648
Future Volume (veh/h)	321	81	49	97	0	228	0	958	140	199	703	648
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	218	271	53	105	0	0	0	1041	152	216	764	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	363	381	320	0	0		0	1514	673	272	2305	
Arrive On Green	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.43	0.43	0.15	0.65	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1567	1767	3526	1572
Grp Volume(v), veh/h	218	271	53		0.0		0	1041	152	216	764	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1567	1767	1763	1572
Q Serve(g_s), s	7.1	8.7	1.8				0.0	15.3	3.9	7.5	6.1	0.0
Cycle Q Clear(g_c), s	7.1	8.7	1.8				0.0	15.3	3.9	7.5	6.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	363	381	320				0	1514	673	272	2305	
V/C Ratio(X)	0.60	0.71	0.17				0.00	0.69	0.23	0.79	0.33	
Avail Cap(c_a), veh/h	734	770	648				0	2900	1289	678	4502	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	23.0	23.6	20.9				0.0	14.7	11.5	26.0	4.9	0.0
Incr Delay (d2), s/veh	1.6	2.5	0.2				0.0	0.6	0.2	5.2	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	3.8	0.6				0.0	5.5	1.2	3.4	1.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.6	26.1	21.1				0.0	15.3	11.7	31.3	5.0	0.0
LnGrp LOS	C	C	C				A	B	B	C	A	
Approach Vol, veh/h		542						1193			980	A
Approach Delay, s/veh		25.0						14.8			10.8	
Approach LOS		C						B			B	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	14.3	31.9		17.6		46.2						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	24.5	52.5		26.5		81.5						
Max Q Clear Time (g_c+I1), s	9.5	17.3		10.7		8.1						
Green Ext Time (p_c), s	0.5	10.1		2.2		6.6						

Intersection Summary	
HCM 6th Ctrl Delay	15.4
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	25	203	158	114	131	42	188	39	132	29	23	37
Future Volume (veh/h)	25	203	158	114	131	42	188	39	132	29	23	37
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	27	221	172	124	142	46	204	42	143	32	25	40
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	56	412	306	166	730	228	322	66	340	48	38	61
Arrive On Green	0.03	0.21	0.21	0.09	0.28	0.28	0.22	0.22	0.22	0.09	0.09	0.09
Sat Flow, veh/h	1767	1923	1426	1767	2638	823	1477	304	1562	558	436	697
Grp Volume(v), veh/h	27	202	191	124	93	95	246	0	143	97	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1587	1767	1763	1699	1782	0	1562	1691	0	0
Q Serve(g_s), s	0.7	4.7	5.0	3.2	1.9	2.0	5.8	0.0	3.7	2.6	0.0	0.0
Cycle Q Clear(g_c), s	0.7	4.7	5.0	3.2	1.9	2.0	5.8	0.0	3.7	2.6	0.0	0.0
Prop In Lane	1.00		0.90	1.00		0.48	0.83		1.00	0.33		0.41
Lane Grp Cap(c), veh/h	56	378	340	166	488	470	388	0	340	147	0	0
V/C Ratio(X)	0.48	0.53	0.56	0.75	0.19	0.20	0.63	0.00	0.42	0.66	0.00	0.00
Avail Cap(c_a), veh/h	361	1119	1007	931	1688	1626	1744	0	1529	818	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.1	16.2	16.3	20.5	12.8	12.9	16.5	0.0	15.7	20.6	0.0	0.0
Incr Delay (d2), s/veh	6.3	1.2	1.5	6.6	0.2	0.2	1.7	0.0	0.8	5.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.8	1.7	1.5	0.7	0.7	2.2	0.0	1.2	1.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.4	17.4	17.8	27.1	13.0	13.1	18.2	0.0	16.5	25.5	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	B	A	B	C	A	A
Approach Vol, veh/h		420			312			389			97	
Approach Delay, s/veh		18.3			18.6			17.6			25.5	
Approach LOS		B			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	14.6	8.9	14.5	8.5	6.0	17.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	45.5	24.5	29.5	22.5	9.5	44.5
Max Q Clear Time (g_c+I1), s	7.8	5.2	7.0	4.6	2.7	4.0
Green Ext Time (p_c), s	2.1	0.3	2.4	0.4	0.0	1.2

Intersection Summary	
HCM 6th Ctrl Delay	18.7
HCM 6th LOS	B

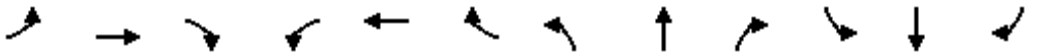
Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	17	38	62	406	311	25
Future Vol, veh/h	17	38	62	406	311	25
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	18	41	67	441	338	27

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	937	193	370	0	-	0
Stage 1	357	-	-	-	-	-
Stage 2	580	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	277	814	1180	-	-	-
Stage 1	677	-	-	-	-	-
Stage 2	556	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	259	806	1174	-	-	-
Mov Cap-2 Maneuver	259	-	-	-	-	-
Stage 1	635	-	-	-	-	-
Stage 2	553	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.4	1.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1174	-	488	-	-
HCM Lane V/C Ratio	0.057	-	0.123	-	-
HCM Control Delay (s)	8.3	-	13.4	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.4	-	-



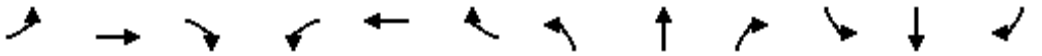
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	87	129	20	19	303	65	141	279	120	73	163	151
Future Volume (veh/h)	87	129	20	19	303	65	141	279	120	73	163	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	95	140	0	21	329	0	153	303	130	79	177	164
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	137	858		45	674		207	473	399	124	387	325
Arrive On Green	0.08	0.24	0.00	0.03	0.19	0.00	0.12	0.26	0.26	0.07	0.21	0.21
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1563	1767	1856	1561
Grp Volume(v), veh/h	95	140	0	21	329	0	153	303	130	79	177	164
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1563	1767	1856	1561
Q Serve(g_s), s	2.3	1.4	0.0	0.5	3.7	0.0	3.7	6.4	3.0	1.9	3.7	4.1
Cycle Q Clear(g_c), s	2.3	1.4	0.0	0.5	3.7	0.0	3.7	6.4	3.0	1.9	3.7	4.1
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	137	858		45	674		207	473	399	124	387	325
V/C Ratio(X)	0.69	0.16		0.46	0.49		0.74	0.64	0.33	0.64	0.46	0.50
Avail Cap(c_a), veh/h	857	3537		339	2504		1175	2112	1780	737	1652	1390
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.9	13.2	0.0	21.3	16.0	0.0	18.9	14.7	13.4	20.1	15.4	15.5
Incr Delay (d2), s/veh	6.1	0.1	0.0	7.2	0.5	0.0	5.2	1.4	0.5	5.3	0.8	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.5	0.0	0.3	1.3	0.0	1.6	2.5	0.9	0.9	1.4	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	13.3	0.0	28.5	16.5	0.0	24.1	16.2	13.9	25.4	16.2	16.7
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		235	A		350	A		586			420	
Approach Delay, s/veh		18.4			17.3			17.7			18.1	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.6	15.8	5.6	15.3	9.7	13.7	7.9	13.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	50.5	8.5	44.5	29.5	39.5	21.5	31.5
Max Q Clear Time (g_c+I1), s	3.9	8.4	2.5	3.4	5.7	6.1	4.3	5.7
Green Ext Time (p_c), s	0.1	2.4	0.0	0.9	0.4	1.6	0.2	2.2

Intersection Summary	
HCM 6th Ctrl Delay	17.8
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	237	110	68	215	147	63	830	60	127	766	44
Future Volume (veh/h)	56	237	110	68	215	147	63	830	60	127	766	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	258	120	74	234	160	68	902	65	138	833	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	92	429	193	101	381	250	97	1324	588	181	1491	663
Arrive On Green	0.05	0.18	0.18	0.06	0.19	0.19	0.05	0.38	0.38	0.10	0.42	0.42
Sat Flow, veh/h	1767	2355	1062	1767	2033	1332	1767	3526	1566	1767	3526	1567
Grp Volume(v), veh/h	61	191	187	74	201	193	68	902	65	138	833	48
Grp Sat Flow(s),veh/h/ln	1767	1763	1654	1767	1763	1603	1767	1763	1566	1767	1763	1567
Q Serve(g_s), s	2.2	6.3	6.6	2.6	6.7	7.1	2.4	13.7	1.7	4.8	11.4	1.2
Cycle Q Clear(g_c), s	2.2	6.3	6.6	2.6	6.7	7.1	2.4	13.7	1.7	4.8	11.4	1.2
Prop In Lane	1.00		0.64	1.00		0.83	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	92	321	301	101	330	301	97	1324	588	181	1491	663
V/C Ratio(X)	0.67	0.60	0.62	0.73	0.61	0.64	0.70	0.68	0.11	0.76	0.56	0.07
Avail Cap(c_a), veh/h	347	706	662	430	789	718	402	3184	1414	652	3682	1636
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.6	23.9	24.0	29.5	23.7	23.9	29.6	16.7	13.0	27.8	13.9	10.9
Incr Delay (d2), s/veh	8.0	1.8	2.1	9.6	1.8	2.3	8.8	0.6	0.1	6.5	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	2.6	2.6	1.3	2.8	2.7	1.2	5.1	0.6	2.3	4.1	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	37.7	25.7	26.1	39.2	25.5	26.2	38.4	17.3	13.0	34.3	14.2	11.0
LnGrp LOS	D	C	C	D	C	C	D	B	B	C	B	B
Approach Vol, veh/h		439			468			1035			1019	
Approach Delay, s/veh		27.5			28.0			18.4			16.8	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.0	28.4	8.1	16.1	8.0	31.4	7.8	16.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	57.5	15.5	25.5	14.5	66.5	12.5	28.5
Max Q Clear Time (g_c+I1), s	6.8	15.7	4.6	8.6	4.4	13.4	4.2	9.1
Green Ext Time (p_c), s	0.3	8.2	0.1	2.1	0.1	7.5	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	20.7
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	30	443	89	39	31	255	870	58	12	999	36
Future Volume (veh/h)	56	30	443	89	39	31	255	870	58	12	999	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	33	482	97	42	34	277	946	63	13	1086	39
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	78	498	420	147	253	205	308	1851	822	26	1268	46
Arrive On Green	0.04	0.27	0.27	0.04	0.27	0.27	0.17	0.53	0.53	0.01	0.37	0.37
Sat Flow, veh/h	1767	1856	1564	3428	946	766	1767	3526	1565	1767	3470	125
Grp Volume(v), veh/h	61	33	482	97	0	76	277	946	63	13	552	573
Grp Sat Flow(s),veh/h/ln	1767	1856	1564	1714	0	1713	1767	1763	1565	1767	1763	1832
Q Serve(g_s), s	4.1	1.6	32.5	3.4	0.0	4.1	18.6	21.1	2.4	0.9	35.0	35.0
Cycle Q Clear(g_c), s	4.1	1.6	32.5	3.4	0.0	4.1	18.6	21.1	2.4	0.9	35.0	35.0
Prop In Lane	1.00		1.00	1.00		0.45	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	78	498	420	147	0	457	308	1851	822	26	644	670
V/C Ratio(X)	0.78	0.07	1.15	0.66	0.00	0.17	0.90	0.51	0.08	0.50	0.86	0.86
Avail Cap(c_a), veh/h	153	498	420	184	0	457	416	2270	1008	74	794	825
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.2	33.0	44.3	57.0	0.0	34.0	48.9	18.6	14.2	59.2	35.4	35.5
Incr Delay (d2), s/veh	15.0	0.1	90.8	5.9	0.0	0.2	17.8	0.2	0.0	14.3	7.7	7.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.7	23.0	1.6	0.0	1.8	9.7	8.5	0.9	0.5	16.2	16.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.2	33.0	135.1	62.9	0.0	34.2	66.8	18.9	14.3	73.5	43.2	42.9
LnGrp LOS	E	C	F	E	A	C	E	B	B	E	D	D
Approach Vol, veh/h		576			173			1286			1138	
Approach Delay, s/veh		122.6			50.3			29.0			43.4	
Approach LOS		F			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.3	68.0	9.7	37.0	25.6	48.7	9.9	36.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.1	77.9	6.5	32.5	28.5	54.5	10.5	28.5
Max Q Clear Time (g_c+I1), s	2.9	23.1	5.4	34.5	20.6	37.0	6.1	6.1
Green Ext Time (p_c), s	0.0	9.0	0.0	0.0	0.5	7.2	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	52.3
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	465	0	542	0	489	82	0	1468	184
Future Volume (veh/h)	0	0	0	465	0	542	0	489	82	0	1468	184
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				505	0	589	0	532	89	0	1596	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				940	0	759	0	2167	963	0	2167	
Arrive On Green				0.27	0.00	0.27	0.00	0.61	0.61	0.00	0.61	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				505	0	589	0	532	89	0	1596	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				10.2	0.0	15.9	0.0	5.6	1.9	0.0	25.8	0.0
Cycle Q Clear(g_c), s				10.2	0.0	15.9	0.0	5.6	1.9	0.0	25.8	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				940	0	759	0	2167	963	0	2167	
V/C Ratio(X)				0.54	0.00	0.78	0.00	0.25	0.09	0.00	0.74	
Avail Cap(c_a), veh/h				1501	0	1212	0	4154	1845	0	4154	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				25.0	0.0	27.1	0.0	7.1	6.4	0.0	11.0	0.0
Incr Delay (d2), s/veh				0.5	0.0	1.7	0.0	0.1	0.0	0.0	0.5	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.0	0.0	5.2	0.0	1.8	0.6	0.0	8.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				25.5	0.0	28.9	0.0	7.1	6.4	0.0	11.5	0.0
LnGrp LOS				C	A	C	A	A	A	A	B	
Approach Vol, veh/h					1094			621			1596	A
Approach Delay, s/veh					27.3			7.0			11.5	
Approach LOS					C			A			B	

Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	54.3		54.3		26.7	
Change Period (Y+Rc), s	4.5		4.5		4.5	
Max Green Setting (Gmax), s	95.5		95.5		35.5	
Max Q Clear Time (g_c+I1), s	7.6		27.8		17.9	
Green Ext Time (p_c), s	4.5		22.0		4.3	

Intersection Summary		
HCM 6th Ctrl Delay	15.9	
HCM 6th LOS	B	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	230	87	34	102	0	202	0	453	101	199	717	640
Future Volume (veh/h)	230	87	34	102	0	202	0	453	101	199	717	640
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	172	203	37	111	0	0	0	492	110	216	779	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	354	372	313	0	0		0	999	443	293	1995	
Arrive On Green	0.20	0.20	0.20	0.00	0.00	0.00	0.00	0.28	0.28	0.17	0.57	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1564	1767	3526	1572
Grp Volume(v), veh/h	172	203	37		0.0		0	492	110	216	779	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1564	1767	1763	1572
Q Serve(g_s), s	3.3	3.8	0.7				0.0	4.5	2.1	4.5	4.7	0.0
Cycle Q Clear(g_c), s	3.3	3.8	0.7				0.0	4.5	2.1	4.5	4.7	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	354	372	313				0	999	443	293	1995	
V/C Ratio(X)	0.49	0.55	0.12				0.00	0.49	0.25	0.74	0.39	
Avail Cap(c_a), veh/h	1262	1325	1114				0	3707	1645	1445	7003	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.6	13.8	12.6				0.0	11.5	10.6	15.3	4.7	0.0
Incr Delay (d2), s/veh	1.0	1.2	0.2				0.0	0.4	0.3	3.6	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	1.4	0.2				0.0	1.4	0.6	1.8	0.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.7	15.1	12.8				0.0	11.9	10.9	18.9	4.8	0.0
LnGrp LOS	B	B	B				A	B	B	B	A	
Approach Vol, veh/h		412						602			995	A
Approach Delay, s/veh		14.7						11.7			7.8	
Approach LOS		B						B			A	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	10.9	15.4		12.2		26.3						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	31.5	40.5		27.5		76.5						
Max Q Clear Time (g_c+I1), s	6.5	6.5		5.8		6.7						
Green Ext Time (p_c), s	0.6	4.0		1.7		6.7						

Intersection Summary	
HCM 6th Ctrl Delay	10.4
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	34	175	159	132	144	64	202	30	120	36	20	35
Future Volume (veh/h)	34	175	159	132	144	64	202	30	120	36	20	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	37	190	173	143	157	70	220	33	130	39	22	38
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	72	361	309	192	647	275	341	51	344	59	33	57
Arrive On Green	0.04	0.20	0.20	0.11	0.27	0.27	0.22	0.22	0.22	0.09	0.09	0.09
Sat Flow, veh/h	1767	1794	1535	1767	2401	1022	1546	232	1562	667	376	650
Grp Volume(v), veh/h	37	187	176	143	113	114	253	0	130	99	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1566	1767	1763	1660	1778	0	1562	1694	0	0
Q Serve(g_s), s	1.0	4.5	4.8	3.7	2.4	2.5	6.1	0.0	3.3	2.7	0.0	0.0
Cycle Q Clear(g_c), s	1.0	4.5	4.8	3.7	2.4	2.5	6.1	0.0	3.3	2.7	0.0	0.0
Prop In Lane	1.00		0.98	1.00		0.62	0.87		1.00	0.39		0.38
Lane Grp Cap(c), veh/h	72	355	315	192	475	447	392	0	344	150	0	0
V/C Ratio(X)	0.51	0.53	0.56	0.74	0.24	0.25	0.65	0.00	0.38	0.66	0.00	0.00
Avail Cap(c_a), veh/h	393	990	879	1030	1625	1530	1714	0	1506	808	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.2	16.8	17.0	20.4	13.5	13.5	16.7	0.0	15.7	20.8	0.0	0.0
Incr Delay (d2), s/veh	5.6	1.2	1.6	5.6	0.3	0.3	1.8	0.0	0.7	4.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	1.7	1.6	1.7	0.8	0.9	2.4	0.0	1.1	1.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.8	18.0	18.5	26.0	13.7	13.8	18.5	0.0	16.3	25.7	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	B	A	B	C	A	A
Approach Vol, veh/h		400			370			383			99	
Approach Delay, s/veh		19.2			18.5			17.8			25.7	
Approach LOS		B			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	14.9	9.6	14.0	8.7	6.4	17.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	45.5	27.5	26.5	22.5	10.5	43.5
Max Q Clear Time (g_c+I1), s	8.1	5.7	6.8	4.7	3.0	4.5
Green Ext Time (p_c), s	2.1	0.4	2.1	0.4	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	19.1
HCM 6th LOS	B

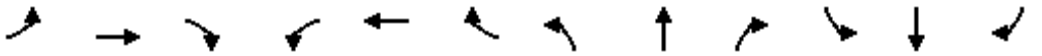
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	34	32	34	316	371	17
Future Vol, veh/h	34	32	34	316	371	17
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	37	35	37	343	403	18

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	839	221	426	0	-	0
Stage 1	417	-	-	-	-	-
Stage 2	422	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	318	781	1125	-	-	-
Stage 1	632	-	-	-	-	-
Stage 2	658	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	304	774	1120	-	-	-
Mov Cap-2 Maneuver	304	-	-	-	-	-
Stage 1	608	-	-	-	-	-
Stage 2	655	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15	0.8	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1120	-	431	-	-
HCM Lane V/C Ratio	0.033	-	0.166	-	-
HCM Control Delay (s)	8.3	-	15	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.6	-	-



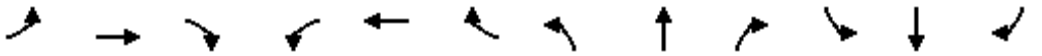
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	113	173	67	27	64	104	5	213	47	98	110	11
Future Volume (veh/h)	113	173	67	27	64	104	5	213	47	98	110	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	123	188	0	29	70	0	5	232	51	107	120	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	167	706		61	495		12	402	338	155	552	466
Arrive On Green	0.09	0.20	0.00	0.03	0.14	0.00	0.01	0.22	0.22	0.09	0.30	0.30
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1562	1767	1856	1565
Grp Volume(v), veh/h	123	188	0	29	70	0	5	232	51	107	120	12
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1562	1767	1856	1565
Q Serve(g_s), s	2.6	1.8	0.0	0.6	0.7	0.0	0.1	4.4	1.0	2.3	1.9	0.2
Cycle Q Clear(g_c), s	2.6	1.8	0.0	0.6	0.7	0.0	0.1	4.4	1.0	2.3	1.9	0.2
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	167	706		61	495		12	402	338	155	552	466
V/C Ratio(X)	0.74	0.27		0.47	0.14		0.42	0.58	0.15	0.69	0.22	0.03
Avail Cap(c_a), veh/h	1289	3655		520	2121		339	2161	1819	1108	2969	2503
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.2	13.2	0.0	18.5	14.7	0.0	19.3	13.7	12.4	17.3	10.3	9.7
Incr Delay (d2), s/veh	6.2	0.2	0.0	5.6	0.1	0.0	21.6	1.3	0.2	5.3	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.6	0.0	0.3	0.2	0.0	0.1	1.6	0.3	1.0	0.6	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.5	13.4	0.0	24.1	14.8	0.0	41.0	15.0	12.6	22.6	10.5	9.7
LnGrp LOS	C	B		C	B		D	B	B	C	B	A
Approach Vol, veh/h		311	A		99	A		288			239	
Approach Delay, s/veh		17.4			17.6			15.0			15.9	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.9	13.0	5.8	12.3	4.8	16.1	8.2	10.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	24.5	45.5	11.5	40.5	7.5	62.5	28.5	23.5
Max Q Clear Time (g_c+I1), s	4.3	6.4	2.6	3.8	2.1	3.9	4.6	2.7
Green Ext Time (p_c), s	0.2	1.6	0.0	1.3	0.0	0.8	0.3	0.3

Intersection Summary	
HCM 6th Ctrl Delay	16.3
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	76	179	146	51	202	143	255	868	73	233	992	99
Future Volume (veh/h)	76	179	146	51	202	143	255	868	73	233	992	99
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	83	195	159	55	220	155	277	943	79	253	1078	108
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	107	324	250	74	307	206	323	1462	650	298	1413	628
Arrive On Green	0.06	0.17	0.17	0.04	0.15	0.15	0.18	0.41	0.41	0.17	0.40	0.40
Sat Flow, veh/h	1767	1889	1453	1767	2009	1350	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	83	181	173	55	192	183	277	943	79	253	1078	108
Grp Sat Flow(s),veh/h/ln	1767	1763	1579	1767	1763	1597	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	4.1	8.4	9.0	2.7	9.2	9.7	13.5	19.0	2.8	12.3	23.4	3.9
Cycle Q Clear(g_c), s	4.1	8.4	9.0	2.7	9.2	9.7	13.5	19.0	2.8	12.3	23.4	3.9
Prop In Lane	1.00		0.92	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	107	303	271	74	270	244	323	1462	650	298	1413	628
V/C Ratio(X)	0.77	0.60	0.64	0.74	0.71	0.75	0.86	0.64	0.12	0.85	0.76	0.17
Avail Cap(c_a), veh/h	249	417	374	199	368	333	667	2353	1046	634	2286	1016
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.1	33.9	34.2	42.0	35.7	35.9	35.1	20.7	16.0	35.8	22.9	17.1
Incr Delay (d2), s/veh	11.2	1.9	2.5	13.7	4.0	6.2	6.6	0.5	0.1	6.7	0.9	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	3.7	3.6	1.5	4.2	4.1	6.3	7.5	1.0	5.7	9.4	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.2	35.8	36.6	55.7	39.7	42.1	41.7	21.2	16.1	42.4	23.8	17.2
LnGrp LOS	D	D	D	E	D	D	D	C	B	D	C	B
Approach Vol, veh/h		437			430			1299			1439	
Approach Delay, s/veh		39.2			42.8			25.3			26.6	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.5	41.3	8.2	19.7	20.7	40.0	9.9	18.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	31.8	59.2	10.0	21.0	33.5	57.5	12.5	18.5
Max Q Clear Time (g_c+I1), s	14.3	21.0	4.7	11.0	15.5	25.4	6.1	11.7
Green Ext Time (p_c), s	0.7	8.7	0.0	1.5	0.8	10.1	0.1	1.2

Intersection Summary	
HCM 6th Ctrl Delay	29.6
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	19	368	65	71	28	423	1094	125	36	1133	46
Future Volume (veh/h)	29	19	368	65	71	28	423	1094	125	36	1133	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	32	21	400	71	77	30	460	1189	136	39	1232	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	47	273	229	123	198	77	490	2284	1015	52	1381	56
Arrive On Green	0.03	0.15	0.15	0.04	0.16	0.16	0.28	0.65	0.65	0.03	0.40	0.40
Sat Flow, veh/h	1767	1856	1556	3428	1267	494	1767	3526	1566	1767	3452	140
Grp Volume(v), veh/h	32	21	400	71	0	107	460	1189	136	39	629	653
Grp Sat Flow(s),veh/h/ln	1767	1856	1556	1714	0	1761	1767	1763	1566	1767	1763	1829
Q Serve(g_s), s	2.3	1.3	18.9	2.6	0.0	7.0	32.7	23.0	4.3	2.8	42.7	42.8
Cycle Q Clear(g_c), s	2.3	1.3	18.9	2.6	0.0	7.0	32.7	23.0	4.3	2.8	42.7	42.8
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	47	273	229	123	0	275	490	2284	1015	52	705	732
V/C Ratio(X)	0.68	0.08	1.75	0.58	0.00	0.39	0.94	0.52	0.13	0.75	0.89	0.89
Avail Cap(c_a), veh/h	73	273	229	136	0	275	571	2488	1106	100	775	804
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.0	47.3	54.8	61.0	0.0	48.7	45.4	12.0	8.7	61.9	36.0	36.0
Incr Delay (d2), s/veh	16.1	0.1	353.8	4.9	0.0	0.9	22.0	0.2	0.1	19.7	11.9	11.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.6	29.9	1.2	0.0	3.2	17.2	8.7	1.5	1.5	20.5	21.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.1	47.4	408.6	65.9	0.0	49.6	67.4	12.2	8.8	81.6	47.9	47.7
LnGrp LOS	E	D	F	E	A	D	E	B	A	F	D	D
Approach Vol, veh/h		453			178			1785			1321	
Approach Delay, s/veh		368.5			56.1			26.2			48.8	
Approach LOS		F			E			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	87.7	9.1	23.4	40.1	55.9	7.9	24.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.3	90.7	5.1	18.9	41.5	56.5	5.3	18.7
Max Q Clear Time (g_c+I1), s	4.3	25.0	4.6	20.9	34.7	44.8	4.3	9.0
Green Ext Time (p_c), s	0.0	13.6	0.0	0.0	0.9	6.6	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	77.1
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	327	0	743	0	802	90	0	1379	167
Future Volume (veh/h)	0	0	0	327	0	743	0	802	90	0	1379	167
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				355	0	808	0	872	98	0	1499	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				1194	0	964	0	1948	865	0	1948	
Arrive On Green				0.35	0.00	0.35	0.00	0.55	0.55	0.00	0.55	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1565	0	3618	1572
Grp Volume(v), veh/h				355	0	808	0	872	98	0	1499	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1565	0	1763	1572
Q Serve(g_s), s				6.8	0.0	24.3	0.0	13.3	2.7	0.0	30.0	0.0
Cycle Q Clear(g_c), s				6.8	0.0	24.3	0.0	13.3	2.7	0.0	30.0	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1194	0	964	0	1948	865	0	1948	
V/C Ratio(X)				0.30	0.00	0.84	0.00	0.45	0.11	0.00	0.77	
Avail Cap(c_a), veh/h				1874	0	1513	0	3174	1409	0	3174	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				21.5	0.0	27.2	0.0	12.0	9.7	0.0	15.8	0.0
Incr Delay (d2), s/veh				0.1	0.0	2.5	0.0	0.2	0.1	0.0	0.7	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				2.7	0.0	8.0	0.0	4.9	0.9	0.0	11.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				21.6	0.0	29.7	0.0	12.2	9.7	0.0	16.4	0.0
LnGrp LOS				C	A	C	A	B	A	A	B	
Approach Vol, veh/h					1163			970			1499	
Approach Delay, s/veh					27.2			12.0			16.4	
Approach LOS					C			B			B	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	54.5		54.5		36.0			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	81.5		81.5		49.5			
Max Q Clear Time (g_c+I1), s	15.3		32.0		26.3			
Green Ext Time (p_c), s	8.3		18.0		5.2			

Intersection Summary		
HCM 6th Ctrl Delay	18.7	
HCM 6th LOS	B	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	340	81	49	97	0	228	0	969	140	199	710	648
Future Volume (veh/h)	340	81	49	97	0	228	0	969	140	199	710	648
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	229	285	53	105	0	0	0	1053	152	216	772	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	374	393	331	0	0		0	1514	673	271	2295	
Arrive On Green	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.43	0.43	0.15	0.65	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1567	1767	3526	1572
Grp Volume(v), veh/h	229	285	53		0.0		0	1053	152	216	772	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1567	1767	1763	1572
Q Serve(g_s), s	7.7	9.4	1.8				0.0	16.0	4.0	7.7	6.4	0.0
Cycle Q Clear(g_c), s	7.7	9.4	1.8				0.0	16.0	4.0	7.7	6.4	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	374	393	331				0	1514	673	271	2295	
V/C Ratio(X)	0.61	0.72	0.16				0.00	0.70	0.23	0.80	0.34	
Avail Cap(c_a), veh/h	740	777	654				0	2817	1252	659	4374	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	23.4	24.1	21.1				0.0	15.2	11.8	26.8	5.1	0.0
Incr Delay (d2), s/veh	1.6	2.6	0.2				0.0	0.6	0.2	5.4	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	4.2	0.7				0.0	5.8	1.3	3.5	1.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.1	26.7	21.3				0.0	15.8	12.0	32.2	5.2	0.0
LnGrp LOS	C	C	C				A	B	B	C	A	
Approach Vol, veh/h		567						1205			988	
Approach Delay, s/veh		25.5						15.3			11.1	
Approach LOS		C						B			B	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	14.6	32.7		18.4		47.3						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	24.5	52.5		27.5		81.5						
Max Q Clear Time (g_c+I1), s	9.7	18.0		11.4		8.4						
Green Ext Time (p_c), s	0.5	10.2		2.3		6.6						

Intersection Summary	
HCM 6th Ctrl Delay	15.9
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	25	203	163	120	131	42	191	39	136	29	23	37
Future Volume (veh/h)	25	203	163	120	131	42	191	39	136	29	23	37
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	27	221	177	130	142	46	208	42	148	32	25	40
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	56	407	310	174	742	232	325	66	343	48	38	60
Arrive On Green	0.03	0.21	0.21	0.10	0.28	0.28	0.22	0.22	0.22	0.09	0.09	0.09
Sat Flow, veh/h	1767	1898	1448	1767	2638	823	1482	299	1562	558	436	697
Grp Volume(v), veh/h	27	204	194	130	93	95	250	0	148	97	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1583	1767	1763	1699	1781	0	1562	1690	0	0
Q Serve(g_s), s	0.7	4.9	5.2	3.4	1.9	2.0	6.0	0.0	3.9	2.6	0.0	0.0
Cycle Q Clear(g_c), s	0.7	4.9	5.2	3.4	1.9	2.0	6.0	0.0	3.9	2.6	0.0	0.0
Prop In Lane	1.00		0.91	1.00		0.48	0.83		1.00	0.33		0.41
Lane Grp Cap(c), veh/h	56	378	339	174	496	478	391	0	343	147	0	0
V/C Ratio(X)	0.48	0.54	0.57	0.75	0.19	0.20	0.64	0.00	0.43	0.66	0.00	0.00
Avail Cap(c_a), veh/h	355	1063	955	954	1660	1600	1715	0	1504	805	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.5	16.5	16.6	20.7	12.9	12.9	16.7	0.0	15.9	20.9	0.0	0.0
Incr Delay (d2), s/veh	6.4	1.2	1.5	6.2	0.2	0.2	1.7	0.0	0.9	5.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.8	1.8	1.6	0.7	0.7	2.3	0.0	1.3	1.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.9	17.7	18.1	27.0	13.1	13.1	18.5	0.0	16.8	25.9	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	B	A	B	C	A	A
Approach Vol, veh/h		425			318			398			97	
Approach Delay, s/veh		18.6			18.8			17.8			25.9	
Approach LOS		B			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	14.9	9.2	14.6	8.6	6.0	17.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	45.5	25.5	28.5	22.5	9.5	44.5
Max Q Clear Time (g_c+I1), s	8.0	5.4	7.2	4.6	2.7	4.0
Green Ext Time (p_c), s	2.1	0.3	2.4	0.4	0.0	1.2

Intersection Summary	
HCM 6th Ctrl Delay	19.0
HCM 6th LOS	B

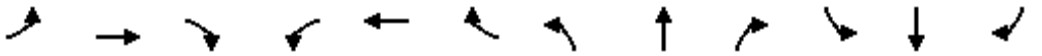
Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	24	42	69	406	311	36
Future Vol, veh/h	24	42	69	406	311	36
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	26	46	75	441	338	39

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	959	199	382	0	-	0
Stage 1	363	-	-	-	-	-
Stage 2	596	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	268	807	1168	-	-	-
Stage 1	673	-	-	-	-	-
Stage 2	547	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	248	799	1162	-	-	-
Mov Cap-2 Maneuver	248	-	-	-	-	-
Stage 1	626	-	-	-	-	-
Stage 2	544	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.7	1.2	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1162	-	442	-	-
HCM Lane V/C Ratio	0.065	-	0.162	-	-
HCM Control Delay (s)	8.3	-	14.7	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.6	-	-



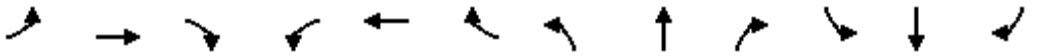
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	87	129	20	19	303	67	141	284	120	74	166	151
Future Volume (veh/h)	87	129	20	19	303	67	141	284	120	74	166	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	95	140	0	21	329	0	153	309	130	80	180	164
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	137	855		45	672		206	479	403	125	393	331
Arrive On Green	0.08	0.24	0.00	0.03	0.19	0.00	0.12	0.26	0.26	0.07	0.21	0.21
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1563	1767	1856	1561
Grp Volume(v), veh/h	95	140	0	21	329	0	153	309	130	80	180	164
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1563	1767	1856	1561
Q Serve(g_s), s	2.3	1.4	0.0	0.5	3.7	0.0	3.7	6.6	3.0	2.0	3.8	4.1
Cycle Q Clear(g_c), s	2.3	1.4	0.0	0.5	3.7	0.0	3.7	6.6	3.0	2.0	3.8	4.1
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	137	855		45	672		206	479	403	125	393	331
V/C Ratio(X)	0.69	0.16		0.46	0.49		0.74	0.65	0.32	0.64	0.46	0.50
Avail Cap(c_a), veh/h	851	3515		337	2488		1168	2099	1769	732	1642	1382
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.1	13.3	0.0	21.4	16.1	0.0	19.1	14.7	13.4	20.2	15.4	15.5
Incr Delay (d2), s/veh	6.1	0.1	0.0	7.2	0.6	0.0	5.2	1.5	0.5	5.4	0.8	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.5	0.0	0.3	1.3	0.0	1.6	2.5	0.9	0.9	1.5	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.2	13.4	0.0	28.6	16.7	0.0	24.2	16.2	13.9	25.6	16.2	16.6
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		235			350			592			424	
Approach Delay, s/veh		18.6			17.4			17.8			18.1	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.6	16.0	5.6	15.3	9.7	13.9	8.0	13.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	50.5	8.5	44.5	29.5	39.5	21.5	31.5
Max Q Clear Time (g_c+I1), s	4.0	8.6	2.5	3.4	5.7	6.1	4.3	5.7
Green Ext Time (p_c), s	0.1	2.5	0.0	0.9	0.4	1.7	0.2	2.2

Intersection Summary	
HCM 6th Ctrl Delay	17.9
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	268	123	77	243	158	68	912	68	141	858	50
Future Volume (veh/h)	63	268	123	77	243	158	68	912	68	141	858	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	68	291	134	84	264	172	74	991	74	153	933	54
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	91	434	195	109	402	253	96	1388	617	196	1589	706
Arrive On Green	0.05	0.18	0.18	0.06	0.19	0.19	0.05	0.39	0.39	0.11	0.45	0.45
Sat Flow, veh/h	1767	2359	1058	1767	2070	1302	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	68	216	209	84	223	213	74	991	74	153	933	54
Grp Sat Flow(s),veh/h/ln	1767	1763	1655	1767	1763	1609	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	2.7	8.2	8.5	3.4	8.4	8.9	3.0	17.1	2.2	6.1	14.3	1.4
Cycle Q Clear(g_c), s	2.7	8.2	8.5	3.4	8.4	8.9	3.0	17.1	2.2	6.1	14.3	1.4
Prop In Lane	1.00		0.64	1.00		0.81	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	91	324	305	109	343	313	96	1388	617	196	1589	706
V/C Ratio(X)	0.75	0.66	0.69	0.77	0.65	0.68	0.77	0.71	0.12	0.78	0.59	0.08
Avail Cap(c_a), veh/h	306	622	584	355	671	613	330	2855	1268	575	3343	1486
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.8	27.4	27.5	33.4	26.8	27.0	33.7	18.5	13.9	31.2	14.8	11.3
Incr Delay (d2), s/veh	11.4	2.3	2.8	10.7	2.1	2.6	12.2	0.7	0.1	6.5	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	3.5	3.5	1.7	3.6	3.5	1.6	6.5	0.7	2.9	5.2	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.2	29.7	30.3	44.1	28.9	29.6	46.0	19.2	14.0	37.8	15.2	11.3
LnGrp LOS	D	C	C	D	C	C	D	B	B	D	B	B
Approach Vol, veh/h		493			520			1139			1140	
Approach Delay, s/veh		32.1			31.7			20.6			18.0	
Approach LOS		C			C			C			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.5	32.9	9.0	17.8	8.4	37.1	8.2	18.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.5	58.5	14.5	25.5	13.5	68.5	12.5	27.5
Max Q Clear Time (g_c+I1), s	8.1	19.1	5.4	10.5	5.0	16.3	4.7	10.9
Green Ext Time (p_c), s	0.3	9.3	0.1	2.2	0.1	8.8	0.1	2.4

Intersection Summary	
HCM 6th Ctrl Delay	23.2
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	33	501	9	38	6	288	983	40	5	1129	41
Future Volume (veh/h)	63	33	501	9	38	6	288	983	40	5	1129	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	68	36	545	10	41	7	313	1068	43	5	1227	45
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	87	475	400	40	337	57	341	2060	915	11	1380	51
Arrive On Green	0.05	0.26	0.26	0.01	0.22	0.22	0.19	0.58	0.58	0.01	0.40	0.40
Sat Flow, veh/h	1767	1856	1563	3428	1543	263	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	68	36	545	10	0	48	313	1068	43	5	623	649
Grp Sat Flow(s),veh/h/ln	1767	1856	1563	1714	0	1806	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	4.8	1.9	32.5	0.4	0.0	2.7	22.1	22.9	1.5	0.4	41.8	41.9
Cycle Q Clear(g_c), s	4.8	1.9	32.5	0.4	0.0	2.7	22.1	22.9	1.5	0.4	41.8	41.9
Prop In Lane	1.00		1.00	1.00		0.15	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	87	475	400	40	0	394	341	2060	915	11	702	729
V/C Ratio(X)	0.78	0.08	1.36	0.25	0.00	0.12	0.92	0.52	0.05	0.44	0.89	0.89
Avail Cap(c_a), veh/h	168	475	400	135	0	394	396	2206	980	70	777	807
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.7	35.9	47.3	62.2	0.0	39.9	50.3	15.7	11.3	62.9	35.6	35.6
Incr Delay (d2), s/veh	14.0	0.1	178.7	3.2	0.0	0.1	24.2	0.2	0.0	25.1	11.5	11.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.9	32.4	0.2	0.0	1.2	12.0	9.1	0.5	0.2	19.9	20.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	73.7	35.9	226.0	65.4	0.0	40.0	74.5	15.9	11.3	88.0	47.1	46.8
LnGrp LOS	E	D	F	E	A	D	E	B	B	F	D	D
Approach Vol, veh/h		649			58			1424			1277	
Approach Delay, s/veh		199.5			44.4			28.7			47.1	
Approach LOS		F			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.3	78.8	6.0	37.0	29.0	55.1	10.8	32.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.0	79.5	5.0	32.5	28.5	56.0	12.1	25.4
Max Q Clear Time (g_c+I1), s	2.4	24.9	2.4	34.5	24.1	43.9	6.8	4.7
Green Ext Time (p_c), s	0.0	10.7	0.0	0.0	0.4	6.7	0.0	0.2

Intersection Summary	
HCM 6th Ctrl Delay	68.4
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	525	0	599	0	540	93	0	1596	208
Future Volume (veh/h)	0	0	0	525	0	599	0	540	93	0	1596	208
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				571	0	651	0	587	101	0	1735	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				971	0	784	0	2209	981	0	2209	
Arrive On Green				0.28	0.00	0.28	0.00	0.63	0.63	0.00	0.63	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				571	0	651	0	587	101	0	1735	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				14.3	0.0	22.0	0.0	7.5	2.6	0.0	36.1	0.0
Cycle Q Clear(g_c), s				14.3	0.0	22.0	0.0	7.5	2.6	0.0	36.1	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				971	0	784	0	2209	981	0	2209	
V/C Ratio(X)				0.59	0.00	0.83	0.00	0.27	0.10	0.00	0.79	
Avail Cap(c_a), veh/h				1253	0	1011	0	3335	1481	0	3335	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				30.8	0.0	33.5	0.0	8.4	7.4	0.0	13.7	0.0
Incr Delay (d2), s/veh				0.6	0.0	4.7	0.0	0.1	0.0	0.0	0.7	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.9	0.0	7.8	0.0	2.7	0.8	0.0	13.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				31.4	0.0	38.2	0.0	8.4	7.5	0.0	14.4	0.0
LnGrp LOS				C	A	D	A	A	A	A	B	
Approach Vol, veh/h					1222			688			1735	A
Approach Delay, s/veh					35.0			8.3			14.4	
Approach LOS					D			A			B	

Timer - Assigned Phs	2	6	8
Phs Duration (G+Y+Rc), s	67.1	67.1	32.8
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	94.5	94.5	36.5
Max Q Clear Time (g_c+I1), s	9.5	38.1	24.0
Green Ext Time (p_c), s	5.1	24.5	4.3

Intersection Summary	
HCM 6th Ctrl Delay	20.2
HCM 6th LOS	C

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	252	98	38	115	0	228	0	507	114	225	793	723
Future Volume (veh/h)	252	98	38	115	0	228	0	507	114	225	793	723
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	190	224	41	125	0	0	0	551	124	245	862	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	365	384	323	0	0		0	1032	458	325	2053	
Arrive On Green	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.29	0.29	0.18	0.58	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1564	1767	3526	1572
Grp Volume(v), veh/h	190	224	41		0.0		0	551	124	245	862	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1564	1767	1763	1572
Q Serve(g_s), s	4.1	4.6	0.9				0.0	5.6	2.6	5.6	5.8	0.0
Cycle Q Clear(g_c), s	4.1	4.6	0.9				0.0	5.6	2.6	5.6	5.8	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	365	384	323				0	1032	458	325	2053	
V/C Ratio(X)	0.52	0.58	0.13				0.00	0.53	0.27	0.75	0.42	
Avail Cap(c_a), veh/h	1139	1196	1006				0	3181	1412	1388	6321	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	15.0	15.3	13.8				0.0	12.7	11.6	16.5	4.9	0.0
Incr Delay (d2), s/veh	1.1	1.4	0.2				0.0	0.4	0.3	3.5	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	1.8	0.3				0.0	1.9	0.8	2.3	1.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.2	16.7	14.0				0.0	13.1	11.9	20.0	5.1	0.0
LnGrp LOS	B	B	B				A	B	B	C	A	
Approach Vol, veh/h		455						675			1107	A
Approach Delay, s/veh		16.2						12.9			8.4	
Approach LOS		B						B			A	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	12.4	17.0		13.3		29.3						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	33.5	38.5		27.5		76.5						
Max Q Clear Time (g_c+I1), s	7.6	7.6		6.6		7.8						
Green Ext Time (p_c), s	0.7	4.6		1.9		7.7						

Intersection Summary	
HCM 6th Ctrl Delay	11.3
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	198	177	147	163	72	220	34	127	41	23	40
Future Volume (veh/h)	38	198	177	147	163	72	220	34	127	41	23	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	41	215	192	160	177	78	239	37	138	45	25	43
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	76	376	319	213	689	291	351	54	356	67	37	64
Arrive On Green	0.04	0.21	0.21	0.12	0.29	0.29	0.23	0.23	0.23	0.10	0.10	0.10
Sat Flow, veh/h	1767	1803	1527	1767	2408	1017	1540	238	1562	675	375	645
Grp Volume(v), veh/h	41	210	197	160	128	127	276	0	138	113	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1568	1767	1763	1662	1779	0	1562	1694	0	0
Q Serve(g_s), s	1.2	5.6	6.0	4.6	2.9	3.1	7.4	0.0	3.9	3.4	0.0	0.0
Cycle Q Clear(g_c), s	1.2	5.6	6.0	4.6	2.9	3.1	7.4	0.0	3.9	3.4	0.0	0.0
Prop In Lane	1.00		0.97	1.00		0.61	0.87		1.00	0.40		0.38
Lane Grp Cap(c), veh/h	76	368	327	213	504	476	405	0	356	168	0	0
V/C Ratio(X)	0.54	0.57	0.60	0.75	0.25	0.27	0.68	0.00	0.39	0.67	0.00	0.00
Avail Cap(c_a), veh/h	388	926	824	929	1465	1381	1546	0	1358	696	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	24.5	18.6	18.7	22.3	14.4	14.4	18.5	0.0	17.1	22.7	0.0	0.0
Incr Delay (d2), s/veh	5.9	1.4	1.8	5.3	0.3	0.3	2.0	0.0	0.7	4.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	2.2	2.1	2.1	1.1	1.1	3.0	0.0	1.3	1.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.4	20.0	20.5	27.5	14.6	14.7	20.5	0.0	17.8	27.3	0.0	0.0
LnGrp LOS	C	C	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		448			415			414			113	
Approach Delay, s/veh		21.2			19.6			19.6			27.3	
Approach LOS		C			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	16.4	10.8	15.4	9.7	6.7	19.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	45.5	27.5	27.5	21.5	11.5	43.5
Max Q Clear Time (g_c+I1), s	9.4	6.6	8.0	5.4	3.2	5.1
Green Ext Time (p_c), s	2.3	0.4	2.4	0.5	0.0	1.6

Intersection Summary	
HCM 6th Ctrl Delay	20.8
HCM 6th LOS	C

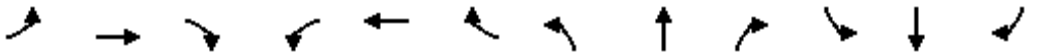
Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	25	35	357	419	15
Future Vol, veh/h	21	25	35	357	419	15
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	23	27	38	388	455	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	937	246	476	0	-	0
Stage 1	468	-	-	-	-	-
Stage 2	469	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	277	752	1078	-	-	-
Stage 1	595	-	-	-	-	-
Stage 2	626	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	265	745	1073	-	-	-
Mov Cap-2 Maneuver	265	-	-	-	-	-
Stage 1	571	-	-	-	-	-
Stage 2	623	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.1	0.8	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1073	-	408	-	-
HCM Lane V/C Ratio	0.035	-	0.123	-	-
HCM Control Delay (s)	8.5	-	15.1	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.4	-	-



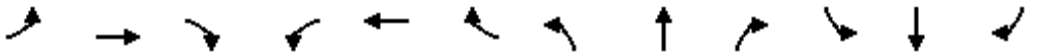
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	128	195	76	31	72	116	6	238	53	107	116	12
Future Volume (veh/h)	128	195	76	31	72	116	6	238	53	107	116	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	139	212	0	34	78	0	7	259	58	116	126	13
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	188	718		69	482		17	426	359	158	575	485
Arrive On Green	0.11	0.20	0.00	0.04	0.14	0.00	0.01	0.23	0.23	0.09	0.31	0.31
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1562	1767	1856	1565
Grp Volume(v), veh/h	139	212	0	34	78	0	7	259	58	116	126	13
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1562	1767	1856	1565
Q Serve(g_s), s	3.1	2.1	0.0	0.8	0.8	0.0	0.2	5.1	1.2	2.6	2.1	0.2
Cycle Q Clear(g_c), s	3.1	2.1	0.0	0.8	0.8	0.0	0.2	5.1	1.2	2.6	2.1	0.2
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	188	718		69	482		17	426	359	158	575	485
V/C Ratio(X)	0.74	0.30		0.49	0.16		0.42	0.61	0.16	0.73	0.22	0.03
Avail Cap(c_a), veh/h	1183	3389		452	1930		323	2100	1768	1097	2913	2456
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.8	13.9	0.0	19.3	15.7	0.0	20.2	14.2	12.7	18.2	10.5	9.9
Incr Delay (d2), s/veh	5.7	0.2	0.0	5.3	0.2	0.0	16.3	1.4	0.2	6.5	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.7	0.0	0.4	0.3	0.0	0.1	1.9	0.4	1.2	0.7	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.5	14.1	0.0	24.7	15.8	0.0	36.5	15.6	12.9	24.7	10.7	9.9
LnGrp LOS	C	B		C	B		D	B	B	C	B	A
Approach Vol, veh/h		351	A		112	A		324			255	
Approach Delay, s/veh		17.8			18.5			15.5			17.0	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	13.9	6.1	12.9	4.9	17.2	8.9	10.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.5	46.5	10.5	39.5	7.5	64.5	27.5	22.5
Max Q Clear Time (g_c+I1), s	4.6	7.1	2.8	4.1	2.2	4.1	5.1	2.8
Green Ext Time (p_c), s	0.3	1.8	0.0	1.4	0.0	0.8	0.3	0.3

Intersection Summary	
HCM 6th Ctrl Delay	17.0
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	86	202	163	58	228	158	287	968	82	258	1101	112
Future Volume (veh/h)	86	202	163	58	228	158	287	968	82	258	1101	112
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	93	220	177	63	248	172	312	1052	89	280	1197	122
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	118	328	251	81	308	205	349	1532	681	316	1466	652
Arrive On Green	0.07	0.17	0.17	0.05	0.15	0.15	0.20	0.43	0.43	0.18	0.42	0.42
Sat Flow, veh/h	1767	1893	1449	1767	2017	1344	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	93	204	193	63	215	205	312	1052	89	280	1197	122
Grp Sat Flow(s),veh/h/ln	1767	1763	1580	1767	1763	1598	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	5.6	11.6	12.4	3.8	12.7	13.4	18.5	25.9	3.7	16.6	32.3	5.3
Cycle Q Clear(g_c), s	5.6	11.6	12.4	3.8	12.7	13.4	18.5	25.9	3.7	16.6	32.3	5.3
Prop In Lane	1.00		0.92	1.00		0.84	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	118	306	274	81	269	244	349	1532	681	316	1466	652
V/C Ratio(X)	0.79	0.67	0.70	0.78	0.80	0.84	0.89	0.69	0.13	0.89	0.82	0.19
Avail Cap(c_a), veh/h	205	369	330	140	303	275	534	2015	896	485	1917	852
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.5	41.6	41.9	50.8	44.0	44.3	42.1	24.5	18.2	43.1	27.8	19.9
Incr Delay (d2), s/veh	11.0	3.5	5.2	14.6	12.9	18.4	12.0	0.6	0.1	12.1	2.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	5.3	5.2	2.0	6.5	6.5	9.2	10.6	1.3	8.3	13.6	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.5	45.0	47.1	65.4	56.9	62.7	54.1	25.2	18.3	55.2	30.0	20.0
LnGrp LOS	E	D	D	E	E	E	D	C	B	E	C	C
Approach Vol, veh/h		490			483			1453			1599	
Approach Delay, s/veh		48.8			60.5			31.0			33.6	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.7	51.2	9.4	23.1	25.8	49.2	11.7	20.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	29.5	61.5	8.5	22.5	32.5	58.5	12.5	18.5
Max Q Clear Time (g_c+I1), s	18.6	27.9	5.8	14.4	20.5	34.3	7.6	15.4
Green Ext Time (p_c), s	0.6	9.8	0.0	1.5	0.7	10.4	0.1	0.8

Intersection Summary	
HCM 6th Ctrl Delay	37.7
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	17	416	31	77	18	478	1236	72	18	1280	52
Future Volume (veh/h)	33	17	416	31	77	18	478	1236	72	18	1280	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	36	18	452	34	84	20	520	1343	78	20	1391	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	48	250	210	90	194	46	529	2431	1080	34	1414	58
Arrive On Green	0.03	0.13	0.13	0.03	0.13	0.13	0.30	0.69	0.69	0.02	0.41	0.41
Sat Flow, veh/h	1767	1856	1555	3428	1445	344	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	36	18	452	34	0	104	520	1343	78	20	709	739
Grp Sat Flow(s),veh/h/ln	1767	1856	1555	1714	0	1789	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	2.8	1.2	18.7	1.4	0.0	7.4	40.5	26.5	2.3	1.6	55.1	55.4
Cycle Q Clear(g_c), s	2.8	1.2	18.7	1.4	0.0	7.4	40.5	26.5	2.3	1.6	55.1	55.4
Prop In Lane	1.00		1.00	1.00		0.19	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	48	250	210	90	0	240	529	2431	1080	34	722	749
V/C Ratio(X)	0.75	0.07	2.16	0.38	0.00	0.43	0.98	0.55	0.07	0.58	0.98	0.99
Avail Cap(c_a), veh/h	65	250	210	124	0	240	529	2431	1080	75	722	749
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.0	52.4	60.0	66.4	0.0	55.2	48.2	10.8	7.0	67.4	40.4	40.5
Incr Delay (d2), s/veh	27.6	0.1	535.4	2.6	0.0	1.2	34.7	0.3	0.0	14.8	29.0	29.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.6	38.6	0.6	0.0	3.4	22.8	9.9	0.8	0.8	29.4	30.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	94.6	52.5	595.4	69.0	0.0	56.4	82.9	11.1	7.1	82.2	69.4	69.7
LnGrp LOS	F	D	F	E	A	E	F	B	A	F	E	E
Approach Vol, veh/h		506			138			1941			1468	
Approach Delay, s/veh		540.4			59.5			30.1			69.8	
Approach LOS		F			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.2	100.1	8.2	23.2	46.0	61.3	8.3	23.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	92.4	5.0	18.7	41.5	56.8	5.1	18.6
Max Q Clear Time (g_c+I1), s	3.6	28.5	3.4	20.7	42.5	57.4	4.8	9.4
Green Ext Time (p_c), s	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	109.2
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	370	0	805	0	872	102	0	1529	189
Future Volume (veh/h)	0	0	0	370	0	805	0	872	102	0	1529	189
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				402	0	875	0	948	111	0	1662	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				1222	0	986	0	1993	885	0	1993	
Arrive On Green				0.36	0.00	0.36	0.00	0.57	0.57	0.00	0.57	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				402	0	875	0	948	111	0	1662	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				9.8	0.0	34.2	0.0	18.4	3.8	0.0	44.5	0.0
Cycle Q Clear(g_c), s				9.8	0.0	34.2	0.0	18.4	3.8	0.0	44.5	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1222	0	986	0	1993	885	0	1993	
V/C Ratio(X)				0.33	0.00	0.89	0.00	0.48	0.13	0.00	0.83	
Avail Cap(c_a), veh/h				1477	0	1192	0	2501	1111	0	2501	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				27.0	0.0	34.8	0.0	14.9	11.7	0.0	20.5	0.0
Incr Delay (d2), s/veh				0.2	0.0	7.3	0.0	0.2	0.1	0.0	2.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.0	0.0	12.3	0.0	7.2	1.3	0.0	17.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				27.1	0.0	42.1	0.0	15.0	11.7	0.0	22.6	0.0
LnGrp LOS				C	A	D	A	B	B	A	C	
Approach Vol, veh/h					1277			1059			1662	A
Approach Delay, s/veh					37.4			14.7			22.6	
Approach LOS					D			B			C	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	69.4		69.4		45.4			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	81.5		81.5		49.5			
Max Q Clear Time (g_c+I1), s	20.4		46.5		36.2			
Green Ext Time (p_c), s	9.4		18.4		4.8			

Intersection Summary		
HCM 6th Ctrl Delay	25.2	
HCM 6th LOS	C	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	363	92	55	110	0	258	0	1083	158	225	794	732
Future Volume (veh/h)	363	92	55	110	0	258	0	1083	158	225	794	732
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	248	306	60	120	0	0	0	1177	172	245	863	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	372	391	329	0	0		0	1593	708	293	2380	
Arrive On Green	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.45	0.45	0.17	0.67	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1567	1767	3526	1572
Grp Volume(v), veh/h	248	306	60		0.0		0	1177	172	245	863	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1567	1767	1763	1572
Q Serve(g_s), s	10.1	12.3	2.5				0.0	21.6	5.3	10.6	8.3	0.0
Cycle Q Clear(g_c), s	10.1	12.3	2.5				0.0	21.6	5.3	10.6	8.3	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	372	391	329				0	1593	708	293	2380	
V/C Ratio(X)	0.67	0.78	0.18				0.00	0.74	0.24	0.84	0.36	
Avail Cap(c_a), veh/h	578	607	510				0	2569	1142	551	3870	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	28.5	29.3	25.5				0.0	17.7	13.3	31.8	5.5	0.0
Incr Delay (d2), s/veh	2.1	3.6	0.3				0.0	0.7	0.2	6.2	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	5.7	0.9				0.0	8.2	1.8	4.9	2.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.6	32.9	25.7				0.0	18.4	13.4	38.0	5.6	0.0
LnGrp LOS	C	C	C				A	B	B	D	A	
Approach Vol, veh/h		614						1349			1108	A
Approach Delay, s/veh		31.3						17.8			12.8	
Approach LOS		C						B			B	

Timer - Assigned Phs	1	2		4		6			
Phs Duration (G+Y+Rc), s	17.5	40.0		21.1		57.6			
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5			
Max Green Setting (Gmax), s	24.5	57.3		25.7		86.3			
Max Q Clear Time (g_c+I1), s	12.6	23.6		14.3		10.3			
Green Ext Time (p_c), s	0.5	11.9		2.2		7.8			

Intersection Summary	
HCM 6th Ctrl Delay	18.7
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	28	229	179	129	148	47	212	44	149	33	26	42
Future Volume (veh/h)	28	229	179	129	148	47	212	44	149	33	26	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	30	249	195	140	161	51	230	48	162	36	28	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	60	424	319	187	779	239	340	71	360	54	42	69
Arrive On Green	0.03	0.22	0.22	0.11	0.29	0.29	0.23	0.23	0.23	0.10	0.10	0.10
Sat Flow, veh/h	1767	1911	1437	1767	2652	812	1474	308	1562	552	430	706
Grp Volume(v), veh/h	30	229	215	140	105	107	278	0	162	110	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1585	1767	1763	1701	1782	0	1562	1688	0	0
Q Serve(g_s), s	0.9	6.1	6.4	4.0	2.3	2.5	7.4	0.0	4.6	3.3	0.0	0.0
Cycle Q Clear(g_c), s	0.9	6.1	6.4	4.0	2.3	2.5	7.4	0.0	4.6	3.3	0.0	0.0
Prop In Lane	1.00		0.91	1.00		0.48	0.83		1.00	0.33		0.42
Lane Grp Cap(c), veh/h	60	391	352	187	518	500	411	0	360	164	0	0
V/C Ratio(X)	0.50	0.58	0.61	0.75	0.20	0.21	0.68	0.00	0.45	0.67	0.00	0.00
Avail Cap(c_a), veh/h	288	996	896	829	1536	1483	1587	0	1391	695	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	24.8	18.2	18.3	22.7	13.8	13.9	18.3	0.0	17.2	22.8	0.0	0.0
Incr Delay (d2), s/veh	6.4	1.4	1.7	6.0	0.2	0.2	2.0	0.0	0.9	4.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	2.4	2.3	1.8	0.8	0.9	2.9	0.0	1.6	1.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.2	19.5	20.0	28.6	14.0	14.1	20.3	0.0	18.1	27.5	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		474			352			440			110	
Approach Delay, s/veh		20.5			19.9			19.5			27.5	
Approach LOS		C			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	16.5	10.0	16.1	9.6	6.3	19.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	46.5	24.5	29.5	21.5	8.5	45.5
Max Q Clear Time (g_c+I1), s	9.4	6.0	8.4	5.3	2.9	4.5
Green Ext Time (p_c), s	2.4	0.3	2.7	0.5	0.0	1.3

Intersection Summary	
HCM 6th Ctrl Delay	20.6
HCM 6th LOS	C

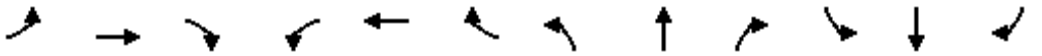
Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	19	43	70	459	351	28
Future Vol, veh/h	19	43	70	459	351	28
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	21	47	76	499	382	30

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1058	216	417	0	-	0
Stage 1	402	-	-	-	-	-
Stage 2	656	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	233	787	1134	-	-	-
Stage 1	643	-	-	-	-	-
Stage 2	513	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	215	780	1129	-	-	-
Mov Cap-2 Maneuver	215	-	-	-	-	-
Stage 1	597	-	-	-	-	-
Stage 2	510	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.9	1.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1129	-	432	-	-
HCM Lane V/C Ratio	0.067	-	0.156	-	-
HCM Control Delay (s)	8.4	-	14.9	-	-
HCM Lane LOS	A	-	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.5	-	-



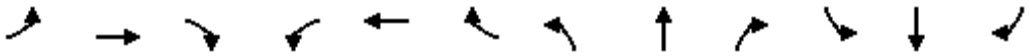
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	98	146	23	21	342	73	159	315	136	82	184	171
Future Volume (veh/h)	98	146	23	21	342	73	159	315	136	82	184	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	107	159	0	23	372	0	173	342	148	89	200	186
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	141	893		49	707		232	504	425	128	396	333
Arrive On Green	0.08	0.25	0.00	0.03	0.20	0.00	0.13	0.27	0.27	0.07	0.21	0.21
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1564	1767	1856	1561
Grp Volume(v), veh/h	107	159	0	23	372	0	173	342	148	89	200	186
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1564	1767	1856	1561
Q Serve(g_s), s	2.8	1.7	0.0	0.6	4.5	0.0	4.5	7.9	3.7	2.4	4.6	5.1
Cycle Q Clear(g_c), s	2.8	1.7	0.0	0.6	4.5	0.0	4.5	7.9	3.7	2.4	4.6	5.1
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	141	893		49	707		232	504	425	128	396	333
V/C Ratio(X)	0.76	0.18		0.47	0.53		0.75	0.68	0.35	0.70	0.51	0.56
Avail Cap(c_a), veh/h	755	3269		313	2387		1086	1991	1678	644	1527	1285
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.6	14.0	0.0	23.0	17.1	0.0	20.1	15.6	14.1	21.7	16.6	16.9
Incr Delay (d2), s/veh	8.0	0.1	0.0	7.0	0.6	0.0	4.8	1.6	0.5	6.6	1.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.6	0.0	0.3	1.7	0.0	2.0	3.1	1.2	1.1	1.8	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.6	14.1	0.0	30.0	17.7	0.0	24.9	17.2	14.5	28.4	17.7	18.3
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		266	A		395	A		663			475	
Approach Delay, s/veh		20.3			18.5			18.6			19.9	
Approach LOS		C			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	17.5	5.8	16.7	10.8	14.7	8.3	14.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	51.5	8.5	44.5	29.5	39.5	20.5	32.5
Max Q Clear Time (g_c+I1), s	4.4	9.9	2.6	3.7	6.5	7.1	4.8	6.5
Green Ext Time (p_c), s	0.1	2.8	0.0	1.1	0.5	1.9	0.2	2.5

Intersection Summary	
HCM 6th Ctrl Delay	19.2
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	268	124	77	243	165	71	935	68	143	865	50
Future Volume (veh/h)	63	268	124	77	243	165	71	935	68	143	865	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	68	291	135	84	264	179	77	1016	74	155	940	54
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	90	430	194	109	394	258	100	1411	627	198	1607	714
Arrive On Green	0.05	0.18	0.18	0.06	0.19	0.19	0.06	0.40	0.40	0.11	0.46	0.46
Sat Flow, veh/h	1767	2353	1063	1767	2035	1332	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	68	216	210	84	227	216	77	1016	74	155	940	54
Grp Sat Flow(s),veh/h/ln	1767	1763	1654	1767	1763	1604	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	2.8	8.5	8.8	3.5	8.8	9.3	3.2	18.0	2.2	6.3	14.6	1.4
Cycle Q Clear(g_c), s	2.8	8.5	8.8	3.5	8.8	9.3	3.2	18.0	2.2	6.3	14.6	1.4
Prop In Lane	1.00		0.64	1.00		0.83	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	90	322	302	109	341	311	100	1411	627	198	1607	714
V/C Ratio(X)	0.76	0.67	0.69	0.77	0.67	0.69	0.77	0.72	0.12	0.78	0.59	0.08
Avail Cap(c_a), veh/h	298	607	570	346	655	596	322	2834	1259	537	3262	1450
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.7	28.2	28.3	34.2	27.6	27.8	34.4	18.7	14.0	32.0	15.0	11.4
Incr Delay (d2), s/veh	12.1	2.4	2.9	10.7	2.2	2.8	11.7	0.7	0.1	6.6	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	3.6	3.6	1.8	3.8	3.6	1.7	6.9	0.7	3.0	5.4	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.8	30.6	31.2	44.9	29.9	30.6	46.2	19.4	14.1	38.6	15.3	11.4
LnGrp LOS	D	C	C	D	C	C	D	B	B	D	B	B
Approach Vol, veh/h		494			527			1167			1149	
Approach Delay, s/veh		33.1			32.6			20.8			18.3	
Approach LOS		C			C			C			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.8	34.1	9.1	18.0	8.7	38.2	8.3	18.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	59.5	14.5	25.5	13.5	68.5	12.5	27.5
Max Q Clear Time (g_c+I1), s	8.3	20.0	5.5	10.8	5.2	16.6	4.8	11.3
Green Ext Time (p_c), s	0.3	9.7	0.1	2.2	0.1	8.9	0.1	2.5

Intersection Summary	
HCM 6th Ctrl Delay	23.6
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	34	501	90	43	32	288	983	63	13	1129	41
Future Volume (veh/h)	63	34	501	90	43	32	288	983	63	13	1129	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	68	37	545	98	47	35	313	1068	68	14	1227	45
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	87	451	380	141	232	173	338	1994	885	27	1350	49
Arrive On Green	0.05	0.24	0.24	0.04	0.24	0.24	0.19	0.57	0.57	0.02	0.39	0.39
Sat Flow, veh/h	1767	1856	1563	3428	985	733	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	68	37	545	98	0	82	313	1068	68	14	623	649
Grp Sat Flow(s),veh/h/ln	1767	1856	1563	1714	0	1718	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.1	2.1	32.5	3.8	0.0	5.1	23.2	25.2	2.6	1.1	44.6	44.7
Cycle Q Clear(g_c), s	5.1	2.1	32.5	3.8	0.0	5.1	23.2	25.2	2.6	1.1	44.6	44.7
Prop In Lane	1.00		1.00	1.00		0.43	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	87	451	380	141	0	404	338	1994	885	27	686	713
V/C Ratio(X)	0.78	0.08	1.43	0.69	0.00	0.20	0.93	0.54	0.08	0.52	0.91	0.91
Avail Cap(c_a), veh/h	159	451	380	141	0	404	377	2077	922	70	732	761
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.8	39.0	50.5	63.2	0.0	41.0	53.1	18.1	13.2	65.3	38.5	38.6
Incr Delay (d2), s/veh	14.2	0.1	209.5	13.7	0.0	0.2	26.9	0.2	0.0	14.8	14.7	14.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	1.0	34.8	1.9	0.0	2.2	12.8	10.2	0.9	0.6	21.9	22.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.0	39.1	260.1	76.9	0.0	41.2	80.0	18.3	13.2	80.1	53.2	52.9
LnGrp LOS	E	D	F	E	A	D	E	B	B	F	D	D
Approach Vol, veh/h		650			180			1449			1286	
Approach Delay, s/veh		228.3			60.7			31.4			53.4	
Approach LOS		F			E			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.5	80.0	10.0	37.0	30.1	56.5	11.1	35.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	78.7	5.5	32.5	28.5	55.5	12.0	26.0
Max Q Clear Time (g_c+I1), s	3.1	27.2	5.8	34.5	25.2	46.7	7.1	7.1
Green Ext Time (p_c), s	0.0	10.8	0.0	0.0	0.3	5.3	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	76.7
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	525	0	611	0	551	93	0	1652	208
Future Volume (veh/h)	0	0	0	525	0	611	0	551	93	0	1652	208
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				571	0	664	0	599	101	0	1796	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				961	0	776	0	2240	995	0	2240	
Arrive On Green				0.28	0.00	0.28	0.00	0.64	0.64	0.00	0.64	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				571	0	664	0	599	101	0	1796	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				15.4	0.0	24.3	0.0	8.0	2.7	0.0	40.4	0.0
Cycle Q Clear(g_c), s				15.4	0.0	24.3	0.0	8.0	2.7	0.0	40.4	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				961	0	776	0	2240	995	0	2240	
V/C Ratio(X)				0.59	0.00	0.86	0.00	0.27	0.10	0.00	0.80	
Avail Cap(c_a), veh/h				1140	0	920	0	3153	1401	0	3153	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				33.2	0.0	36.4	0.0	8.6	7.6	0.0	14.5	0.0
Incr Delay (d2), s/veh				0.6	0.0	7.0	0.0	0.1	0.0	0.0	1.0	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				6.4	0.0	8.8	0.0	2.9	0.9	0.0	14.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				33.8	0.0	43.4	0.0	8.6	7.6	0.0	15.5	0.0
LnGrp LOS				C	A	D	A	A	A	A	B	
Approach Vol, veh/h					1235			700			1796	A
Approach Delay, s/veh					38.9			8.5			15.5	
Approach LOS					D			A			B	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	72.3		72.3		34.4			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	95.5		95.5		35.5			
Max Q Clear Time (g_c+I1), s	10.0		42.4		26.3			
Green Ext Time (p_c), s	5.2		25.4		3.7			

Intersection Summary		
HCM 6th Ctrl Delay	21.9	
HCM 6th LOS	C	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	259	98	38	115	0	228	0	511	114	225	808	723
Future Volume (veh/h)	259	98	38	115	0	228	0	511	114	225	808	723
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	194	229	41	125	0	0	0	555	124	245	878	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	371	389	328	0	0		0	1031	458	325	2048	
Arrive On Green	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.29	0.29	0.18	0.58	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1564	1767	3526	1572
Grp Volume(v), veh/h	194	229	41		0.0		0	555	124	245	878	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1564	1767	1763	1572
Q Serve(g_s), s	4.2	4.8	0.9				0.0	5.7	2.6	5.7	6.0	0.0
Cycle Q Clear(g_c), s	4.2	4.8	0.9				0.0	5.7	2.6	5.7	6.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	371	389	328				0	1031	458	325	2048	
V/C Ratio(X)	0.52	0.59	0.13				0.00	0.54	0.27	0.75	0.43	
Avail Cap(c_a), veh/h	1170	1229	1034				0	3072	1363	1376	6186	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	15.1	15.3	13.8				0.0	12.8	11.7	16.6	5.0	0.0
Incr Delay (d2), s/veh	1.1	1.4	0.2				0.0	0.4	0.3	3.6	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	1.9	0.3				0.0	1.9	0.8	2.3	1.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.2	16.7	14.0				0.0	13.2	12.0	20.2	5.2	0.0
LnGrp LOS	B	B	B				A	B	B	C	A	
Approach Vol, veh/h		464						679			1123	A
Approach Delay, s/veh		16.3						13.0			8.4	
Approach LOS		B						B			A	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	12.4	17.1		13.5		29.5						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	33.5	37.5		28.5		75.5						
Max Q Clear Time (g_c+I1), s	7.7	7.7		6.8		8.0						
Green Ext Time (p_c), s	0.7	4.6		2.0		7.9						

Intersection Summary	
HCM 6th Ctrl Delay	11.4
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	198	179	149	163	72	227	34	135	41	23	40
Future Volume (veh/h)	38	198	179	149	163	72	227	34	135	41	23	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	41	215	195	162	177	78	247	37	147	45	25	43
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	75	373	321	215	692	292	359	54	363	67	37	64
Arrive On Green	0.04	0.21	0.21	0.12	0.29	0.29	0.23	0.23	0.23	0.10	0.10	0.10
Sat Flow, veh/h	1767	1789	1539	1767	2408	1017	1547	232	1562	675	375	645
Grp Volume(v), veh/h	41	212	198	162	128	127	284	0	147	113	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1565	1767	1763	1662	1778	0	1562	1694	0	0
Q Serve(g_s), s	1.2	5.7	6.1	4.7	3.0	3.1	7.8	0.0	4.2	3.4	0.0	0.0
Cycle Q Clear(g_c), s	1.2	5.7	6.1	4.7	3.0	3.1	7.8	0.0	4.2	3.4	0.0	0.0
Prop In Lane	1.00		0.98	1.00		0.61	0.87		1.00	0.40		0.38
Lane Grp Cap(c), veh/h	75	367	326	215	507	478	413	0	363	168	0	0
V/C Ratio(X)	0.54	0.58	0.61	0.75	0.25	0.27	0.69	0.00	0.41	0.67	0.00	0.00
Avail Cap(c_a), veh/h	382	912	810	914	1442	1360	1522	0	1337	685	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	24.9	18.9	19.1	22.6	14.6	14.6	18.7	0.0	17.3	23.1	0.0	0.0
Incr Delay (d2), s/veh	6.0	1.4	1.8	5.3	0.3	0.3	2.0	0.0	0.7	4.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	2.3	2.2	2.1	1.1	1.1	3.1	0.0	1.4	1.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.9	20.4	20.9	27.8	14.8	14.9	20.7	0.0	18.0	27.7	0.0	0.0
LnGrp LOS	C	C	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		451			417			431			113	
Approach Delay, s/veh		21.6			19.9			19.8			27.7	
Approach LOS		C			B			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	16.8	11.0	15.6	9.8	6.8	19.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	45.5	27.5	27.5	21.5	11.5	43.5
Max Q Clear Time (g_c+I1), s	9.8	6.7	8.1	5.4	3.2	5.1
Green Ext Time (p_c), s	2.4	0.4	2.4	0.5	0.0	1.6

Intersection Summary	
HCM 6th Ctrl Delay	21.0
HCM 6th LOS	C

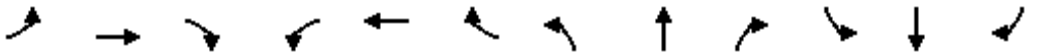
Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	36	35	38	357	419	19
Future Vol, veh/h	36	35	38	357	419	19
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	39	38	41	388	455	21

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	946	248	481	0	-	0
Stage 1	471	-	-	-	-	-
Stage 2	475	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	273	750	1074	-	-	-
Stage 1	593	-	-	-	-	-
Stage 2	622	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	260	743	1069	-	-	-
Mov Cap-2 Maneuver	260	-	-	-	-	-
Stage 1	568	-	-	-	-	-
Stage 2	619	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.8	0.8	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1069	-	383	-	-
HCM Lane V/C Ratio	0.039	-	0.201	-	-
HCM Control Delay (s)	8.5	-	16.8	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.7	-	-



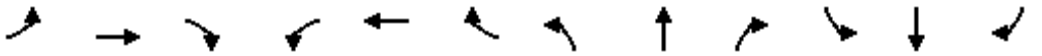
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	128	195	76	31	72	117	6	240	53	110	123	12
Future Volume (veh/h)	128	195	76	31	72	117	6	240	53	110	123	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	139	212	0	34	78	0	7	261	58	120	134	13
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	188	717		69	480		17	428	360	160	579	489
Arrive On Green	0.11	0.20	0.00	0.04	0.14	0.00	0.01	0.23	0.23	0.09	0.31	0.31
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1562	1767	1856	1565
Grp Volume(v), veh/h	139	212	0	34	78	0	7	261	58	120	134	13
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1562	1767	1856	1565
Q Serve(g_s), s	3.1	2.1	0.0	0.8	0.8	0.0	0.2	5.2	1.2	2.7	2.2	0.2
Cycle Q Clear(g_c), s	3.1	2.1	0.0	0.8	0.8	0.0	0.2	5.2	1.2	2.7	2.2	0.2
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	188	717		69	480		17	428	360	160	579	489
V/C Ratio(X)	0.74	0.30		0.49	0.16		0.42	0.61	0.16	0.75	0.23	0.03
Avail Cap(c_a), veh/h	1177	3374		450	1922		321	2091	1760	1092	2900	2446
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.9	13.9	0.0	19.4	15.7	0.0	20.3	14.2	12.7	18.3	10.5	9.8
Incr Delay (d2), s/veh	5.7	0.2	0.0	5.3	0.2	0.0	16.3	1.4	0.2	6.8	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.7	0.0	0.4	0.3	0.0	0.1	2.0	0.4	1.3	0.8	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.6	14.2	0.0	24.8	15.9	0.0	36.6	15.6	12.9	25.1	10.7	9.9
LnGrp LOS	C	B		C	B		D	B	B	C	B	A
Approach Vol, veh/h		351	A		112	A		326			267	
Approach Delay, s/veh		17.9			18.6			15.6			17.1	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	14.0	6.1	12.9	4.9	17.4	8.9	10.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.5	46.5	10.5	39.5	7.5	64.5	27.5	22.5
Max Q Clear Time (g_c+I1), s	4.7	7.2	2.8	4.1	2.2	4.2	5.1	2.8
Green Ext Time (p_c), s	0.3	1.9	0.0	1.4	0.0	0.9	0.3	0.3

Intersection Summary	
HCM 6th Ctrl Delay	17.1
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	86	202	165	58	228	161	288	979	82	263	1119	112
Future Volume (veh/h)	86	202	165	58	228	161	288	979	82	263	1119	112
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	93	220	179	63	248	175	313	1064	89	286	1216	122
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	117	325	252	81	304	206	349	1537	683	321	1481	658
Arrive On Green	0.07	0.17	0.17	0.05	0.15	0.15	0.20	0.44	0.44	0.18	0.42	0.42
Sat Flow, veh/h	1767	1883	1458	1767	2002	1357	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	93	205	194	63	217	206	313	1064	89	286	1216	122
Grp Sat Flow(s),veh/h/ln	1767	1763	1578	1767	1763	1595	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	5.7	12.0	12.7	3.9	13.1	13.8	19.0	26.8	3.7	17.4	33.5	5.4
Cycle Q Clear(g_c), s	5.7	12.0	12.7	3.9	13.1	13.8	19.0	26.8	3.7	17.4	33.5	5.4
Prop In Lane	1.00		0.92	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	117	304	272	81	268	242	349	1537	683	321	1481	658
V/C Ratio(X)	0.79	0.67	0.71	0.78	0.81	0.85	0.90	0.69	0.13	0.89	0.82	0.19
Avail Cap(c_a), veh/h	185	345	309	137	297	269	523	2006	892	475	1910	849
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.5	42.5	42.9	51.8	45.0	45.3	43.0	25.0	18.5	43.9	28.2	20.0
Incr Delay (d2), s/veh	11.4	4.3	6.4	14.7	14.3	20.3	12.9	0.7	0.1	13.5	2.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	5.6	5.4	2.0	6.8	6.8	9.5	11.1	1.4	8.7	14.2	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.9	46.9	49.3	66.5	59.3	65.6	55.9	25.7	18.6	57.3	30.5	20.2
LnGrp LOS	E	D	D	E	E	E	E	C	B	E	C	C
Approach Vol, veh/h		492			486			1466			1624	
Approach Delay, s/veh		50.7			62.9			31.7			34.5	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.5	52.4	9.5	23.5	26.2	50.6	11.8	21.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	29.5	62.5	8.5	21.5	32.5	59.5	11.5	18.5
Max Q Clear Time (g_c+I1), s	19.4	28.8	5.9	14.7	21.0	35.5	7.7	15.8
Green Ext Time (p_c), s	0.6	10.0	0.0	1.3	0.7	10.6	0.1	0.7

Intersection Summary	
HCM 6th Ctrl Delay	38.8
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	21	416	69	80	30	478	1236	133	38	1280	52
Future Volume (veh/h)	33	21	416	69	80	30	478	1236	133	38	1280	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	36	23	452	75	87	33	520	1343	145	41	1391	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	48	248	208	116	180	68	525	2374	1055	53	1401	57
Arrive On Green	0.03	0.13	0.13	0.03	0.14	0.14	0.30	0.67	0.67	0.03	0.41	0.41
Sat Flow, veh/h	1767	1856	1555	3428	1278	485	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	36	23	452	75	0	120	520	1343	145	41	709	739
Grp Sat Flow(s),veh/h/ln	1767	1856	1555	1714	0	1762	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	2.8	1.5	18.7	3.0	0.0	8.8	40.9	28.1	4.7	3.2	55.9	56.2
Cycle Q Clear(g_c), s	2.8	1.5	18.7	3.0	0.0	8.8	40.9	28.1	4.7	3.2	55.9	56.2
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	48	248	208	116	0	248	525	2374	1055	53	716	743
V/C Ratio(X)	0.76	0.09	2.17	0.64	0.00	0.48	0.99	0.57	0.14	0.78	0.99	0.99
Avail Cap(c_a), veh/h	65	248	208	125	0	248	525	2374	1055	111	716	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.5	53.0	60.5	66.6	0.0	55.3	48.9	12.0	8.2	67.3	41.2	41.3
Incr Delay (d2), s/veh	28.5	0.2	542.4	9.8	0.0	1.5	36.6	0.3	0.1	21.3	31.3	31.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.7	38.8	1.5	0.0	4.0	23.3	10.7	1.6	1.8	30.2	31.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	96.0	53.2	602.9	76.4	0.0	56.7	85.5	12.3	8.3	88.6	72.5	72.9
LnGrp LOS	F	D	F	E	A	E	F	B	A	F	E	E
Approach Vol, veh/h		511			195			2008			1489	
Approach Delay, s/veh		542.5			64.3			31.0			73.2	
Approach LOS		F			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.7	98.5	9.2	23.2	46.0	61.2	8.3	24.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.3	89.4	5.1	18.7	41.5	56.7	5.1	18.7
Max Q Clear Time (g_c+I1), s	5.2	30.1	5.0	20.7	42.9	58.2	4.8	10.8
Green Ext Time (p_c), s	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	109.7
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	370	0	836	0	902	102	0	1555	189
Future Volume (veh/h)	0	0	0	370	0	836	0	902	102	0	1555	189
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				402	0	909	0	980	111	0	1690	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				1243	0	1003	0	1986	882	0	1986	
Arrive On Green				0.36	0.00	0.36	0.00	0.56	0.56	0.00	0.56	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				402	0	909	0	980	111	0	1690	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				10.3	0.0	37.8	0.0	20.4	4.0	0.0	48.7	0.0
Cycle Q Clear(g_c), s				10.3	0.0	37.8	0.0	20.4	4.0	0.0	48.7	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1243	0	1003	0	1986	882	0	1986	
V/C Ratio(X)				0.32	0.00	0.91	0.00	0.49	0.13	0.00	0.85	
Avail Cap(c_a), veh/h				1400	0	1130	0	2371	1053	0	2371	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				27.9	0.0	36.7	0.0	16.0	12.4	0.0	22.2	0.0
Incr Delay (d2), s/veh				0.1	0.0	9.7	0.0	0.2	0.1	0.0	2.7	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.3	0.0	13.9	0.0	8.1	1.4	0.0	20.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				28.1	0.0	46.4	0.0	16.2	12.5	0.0	24.9	0.0
LnGrp LOS				C	A	D	A	B	B	A	C	
Approach Vol, veh/h					1311			1091			1690	A
Approach Delay, s/veh					40.8			15.8			24.9	
Approach LOS					D			B			C	

Timer - Assigned Phs	2		6		8			
Phs Duration (G+Y+Rc), s	72.8		72.8		48.4			
Change Period (Y+Rc), s	4.5		4.5		4.5			
Max Green Setting (Gmax), s	81.5		81.5		49.5			
Max Q Clear Time (g_c+I1), s	22.4		50.7		39.8			
Green Ext Time (p_c), s	9.8		17.5		4.1			

Intersection Summary								
HCM 6th Ctrl Delay	27.6							
HCM 6th LOS	C							

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	382	92	55	110	0	258	0	1094	158	225	801	732
Future Volume (veh/h)	382	92	55	110	0	258	0	1094	158	225	801	732
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	258	320	60	120	0	0	0	1189	172	245	871	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	384	403	339	0	0		0	1589	706	292	2368	
Arrive On Green	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.45	0.45	0.17	0.67	0.00
Sat Flow, veh/h	1767	1856	1562		0		0	3618	1567	1767	3526	1572
Grp Volume(v), veh/h	258	320	60		0.0		0	1189	172	245	871	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1562				0	1763	1567	1767	1763	1572
Q Serve(g_s), s	10.8	13.2	2.5				0.0	22.6	5.5	10.9	8.7	0.0
Cycle Q Clear(g_c), s	10.8	13.2	2.5				0.0	22.6	5.5	10.9	8.7	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	384	403	339				0	1589	706	292	2368	
V/C Ratio(X)	0.67	0.79	0.18				0.00	0.75	0.24	0.84	0.37	
Avail Cap(c_a), veh/h	584	613	516				0	2456	1092	536	3721	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	29.0	29.9	25.8				0.0	18.4	13.7	32.7	5.8	0.0
Incr Delay (d2), s/veh	2.1	4.1	0.2				0.0	0.7	0.2	6.4	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	6.1	0.9				0.0	8.6	1.9	5.0	2.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.1	34.1	26.0				0.0	19.1	13.9	39.1	5.9	0.0
LnGrp LOS	C	C	C				A	B	B	D	A	
Approach Vol, veh/h		638						1361			1116	A
Approach Delay, s/veh		32.1						18.5			13.2	
Approach LOS		C						B			B	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	17.8	40.9		22.0		58.8						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	24.5	56.3		26.7		85.3						
Max Q Clear Time (g_c+I1), s	12.9	24.6		15.2		10.7						
Green Ext Time (p_c), s	0.5	11.8		2.3		7.9						

Intersection Summary	
HCM 6th Ctrl Delay	19.4
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	28	229	184	135	148	47	215	44	153	33	26	42
Future Volume (veh/h)	28	229	184	135	148	47	215	44	153	33	26	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	30	249	200	147	161	51	234	48	166	36	28	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	59	420	324	196	794	243	343	70	362	54	42	68
Arrive On Green	0.03	0.22	0.22	0.11	0.30	0.30	0.23	0.23	0.23	0.10	0.10	0.10
Sat Flow, veh/h	1767	1888	1456	1767	2652	812	1478	303	1562	552	430	706
Grp Volume(v), veh/h	30	232	217	147	105	107	282	0	166	110	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1582	1767	1763	1701	1782	0	1562	1688	0	0
Q Serve(g_s), s	0.9	6.3	6.6	4.3	2.4	2.5	7.7	0.0	4.9	3.3	0.0	0.0
Cycle Q Clear(g_c), s	0.9	6.3	6.6	4.3	2.4	2.5	7.7	0.0	4.9	3.3	0.0	0.0
Prop In Lane	1.00		0.92	1.00		0.48	0.83		1.00	0.33		0.42
Lane Grp Cap(c), veh/h	59	392	352	196	528	509	413	0	362	164	0	0
V/C Ratio(X)	0.50	0.59	0.62	0.75	0.20	0.21	0.68	0.00	0.46	0.67	0.00	0.00
Avail Cap(c_a), veh/h	282	977	877	847	1541	1487	1524	0	1336	682	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	25.3	18.5	18.7	22.9	13.9	13.9	18.7	0.0	17.6	23.2	0.0	0.0
Incr Delay (d2), s/veh	6.5	1.4	1.8	5.7	0.2	0.2	2.0	0.0	0.9	4.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.4	2.3	2.0	0.9	0.9	3.1	0.0	1.7	1.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.7	20.0	20.4	28.7	14.1	14.1	20.7	0.0	18.5	27.9	0.0	0.0
LnGrp LOS	C	B	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		479			359			448			110	
Approach Delay, s/veh		20.9			20.1			19.8			27.9	
Approach LOS		C			C			B			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	16.8	10.4	16.3	9.7	6.3	20.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	45.5	25.5	29.5	21.5	8.5	46.5
Max Q Clear Time (g_c+I1), s	9.7	6.3	8.6	5.3	2.9	4.5
Green Ext Time (p_c), s	2.4	0.4	2.8	0.5	0.0	1.3

Intersection Summary	
HCM 6th Ctrl Delay	20.9
HCM 6th LOS	C

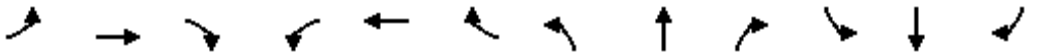
Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	26	47	77	459	351	39
Future Vol, veh/h	26	47	77	459	351	39
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	28	51	84	499	382	42

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1080	222	429	0	-	0
Stage 1	408	-	-	-	-	-
Stage 2	672	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	225	780	1122	-	-	-
Stage 1	638	-	-	-	-	-
Stage 2	504	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	206	773	1117	-	-	-
Mov Cap-2 Maneuver	206	-	-	-	-	-
Stage 1	587	-	-	-	-	-
Stage 2	501	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.6	1.2	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1117	-	390	-	-
HCM Lane V/C Ratio	0.075	-	0.203	-	-
HCM Control Delay (s)	8.5	-	16.6	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.2	-	0.8	-	-



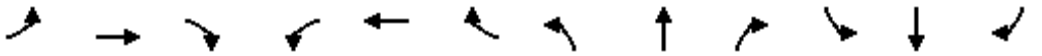
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	98	146	23	21	342	75	159	320	136	83	187	171
Future Volume (veh/h)	98	146	23	21	342	75	159	320	136	83	187	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	107	159	0	23	372	0	173	348	148	90	203	186
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	141	889		49	704		231	510	430	128	402	338
Arrive On Green	0.08	0.25	0.00	0.03	0.20	0.00	0.13	0.27	0.27	0.07	0.22	0.22
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1564	1767	1856	1562
Grp Volume(v), veh/h	107	159	0	23	372	0	173	348	148	90	203	186
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1564	1767	1856	1562
Q Serve(g_s), s	2.9	1.7	0.0	0.6	4.6	0.0	4.6	8.1	3.7	2.4	4.6	5.1
Cycle Q Clear(g_c), s	2.9	1.7	0.0	0.6	4.6	0.0	4.6	8.1	3.7	2.4	4.6	5.1
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	141	889		49	704		231	510	430	128	402	338
V/C Ratio(X)	0.76	0.18		0.47	0.53		0.75	0.68	0.34	0.70	0.51	0.55
Avail Cap(c_a), veh/h	750	3250		275	2300		1080	1979	1668	677	1557	1310
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.7	14.1	0.0	23.1	17.3	0.0	20.2	15.6	14.0	21.9	16.6	16.8
Incr Delay (d2), s/veh	8.0	0.1	0.0	7.0	0.6	0.0	4.8	1.6	0.5	6.8	1.0	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.6	0.0	0.3	1.7	0.0	2.0	3.2	1.2	1.1	1.8	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.7	14.2	0.0	30.1	17.9	0.0	25.0	17.2	14.5	28.7	17.6	18.2
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		266	A		395	A		669			479	
Approach Delay, s/veh		20.5			18.6			18.6			19.9	
Approach LOS		C			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	17.8	5.8	16.7	10.8	15.0	8.4	14.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	51.5	7.5	44.5	29.5	40.5	20.5	31.5
Max Q Clear Time (g_c+I1), s	4.4	10.1	2.6	3.7	6.6	7.1	4.9	6.6
Green Ext Time (p_c), s	0.2	2.9	0.0	1.1	0.5	1.9	0.2	2.5

Intersection Summary	
HCM 6th Ctrl Delay	19.2
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	292	134	84	265	172	74	993	74	153	934	54
Future Volume (veh/h)	69	292	134	84	265	172	74	993	74	153	934	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	75	317	146	91	288	187	80	1079	80	166	1015	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	97	441	199	118	412	259	104	1443	641	207	1650	734
Arrive On Green	0.06	0.19	0.19	0.07	0.20	0.20	0.06	0.41	0.41	0.12	0.47	0.47
Sat Flow, veh/h	1767	2356	1061	1767	2069	1303	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	75	235	228	91	244	231	80	1079	80	166	1015	59
Grp Sat Flow(s),veh/h/ln	1767	1763	1654	1767	1763	1609	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	3.4	10.3	10.6	4.2	10.6	11.0	3.7	21.4	2.6	7.5	17.7	1.7
Cycle Q Clear(g_c), s	3.4	10.3	10.6	4.2	10.6	11.0	3.7	21.4	2.6	7.5	17.7	1.7
Prop In Lane	1.00		0.64	1.00		0.81	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	97	330	310	118	351	320	104	1443	641	207	1650	734
V/C Ratio(X)	0.77	0.71	0.74	0.77	0.70	0.72	0.77	0.75	0.12	0.80	0.62	0.08
Avail Cap(c_a), veh/h	273	569	534	321	616	563	291	2495	1109	484	2882	1281
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.3	31.3	31.4	37.7	30.6	30.7	38.1	20.6	15.1	35.3	16.3	12.1
Incr Delay (d2), s/veh	12.1	2.9	3.4	10.1	2.5	3.1	11.3	0.8	0.1	7.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	4.5	4.4	2.1	4.6	4.4	1.9	8.4	0.9	3.6	6.7	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.4	34.2	34.8	47.8	33.1	33.8	49.4	21.4	15.2	42.3	16.7	12.1
LnGrp LOS	D	C	C	D	C	C	D	C	B	D	B	B
Approach Vol, veh/h		538			566			1239			1240	
Approach Delay, s/veh		36.7			35.7			22.8			19.9	
Approach LOS		D			D			C			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.1	38.1	10.0	19.9	9.3	42.9	9.0	20.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	58.1	14.9	26.5	13.5	67.1	12.7	28.7
Max Q Clear Time (g_c+I1), s	9.5	23.4	6.2	12.6	5.7	19.7	5.4	13.0
Green Ext Time (p_c), s	0.3	10.2	0.1	2.4	0.1	9.9	0.1	2.6

Intersection Summary	
HCM 6th Ctrl Delay	25.9
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	36	545	10	41	7	313	1070	44	5	1229	45
Future Volume (veh/h)	69	36	545	10	41	7	313	1070	44	5	1229	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	75	39	592	11	45	8	340	1163	48	5	1336	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	95	440	371	43	300	53	363	2149	955	11	1423	52
Arrive On Green	0.05	0.24	0.24	0.01	0.20	0.20	0.21	0.61	0.61	0.01	0.41	0.41
Sat Flow, veh/h	1767	1856	1563	3428	1532	272	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	75	39	592	11	0	53	340	1163	48	5	678	707
Grp Sat Flow(s),veh/h/ln	1767	1856	1563	1714	0	1804	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.6	2.2	31.8	0.4	0.0	3.3	25.4	25.8	1.7	0.4	49.4	49.6
Cycle Q Clear(g_c), s	5.6	2.2	31.8	0.4	0.0	3.3	25.4	25.8	1.7	0.4	49.4	49.6
Prop In Lane	1.00		1.00	1.00		0.15	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	95	440	371	43	0	354	363	2149	955	11	723	752
V/C Ratio(X)	0.79	0.09	1.60	0.26	0.00	0.15	0.94	0.54	0.05	0.45	0.94	0.94
Avail Cap(c_a), veh/h	166	440	371	128	0	354	381	2149	955	66	740	769
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.7	39.8	51.1	65.6	0.0	44.6	52.4	15.2	10.5	66.4	37.9	37.9
Incr Delay (d2), s/veh	13.4	0.1	281.0	3.1	0.0	0.2	29.7	0.3	0.0	25.4	19.3	19.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	1.0	41.3	0.2	0.0	1.5	14.2	10.2	0.6	0.3	24.9	25.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.1	39.9	332.1	68.6	0.0	44.8	82.0	15.5	10.6	91.8	57.2	57.1
LnGrp LOS	E	D	F	E	A	D	F	B	B	F	E	E
Approach Vol, veh/h		706			64			1551			1390	
Approach Delay, s/veh		288.8			48.9			29.9			57.3	
Approach LOS		F			D			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.3	86.2	6.2	36.3	32.1	59.5	11.7	30.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	80.2	5.0	31.8	28.9	56.3	12.6	24.2
Max Q Clear Time (g_c+I1), s	2.4	27.8	2.4	33.8	27.4	51.6	7.6	5.3
Green Ext Time (p_c), s	0.0	12.2	0.0	0.0	0.2	3.4	0.1	0.2

Intersection Summary	
HCM 6th Ctrl Delay	89.7
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	571	0	652	0	588	101	0	1737	226
Future Volume (veh/h)	0	0	0	571	0	652	0	588	101	0	1737	226
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				621	0	709	0	639	110	0	1888	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				977	0	789	0	2255	1002	0	2255	
Arrive On Green				0.29	0.00	0.29	0.00	0.64	0.64	0.00	0.64	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				621	0	709	0	639	110	0	1888	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				18.9	0.0	29.4	0.0	9.5	3.3	0.0	49.6	0.0
Cycle Q Clear(g_c), s				18.9	0.0	29.4	0.0	9.5	3.3	0.0	49.6	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				977	0	789	0	2255	1002	0	2255	
V/C Ratio(X)				0.64	0.00	0.90	0.00	0.28	0.11	0.00	0.84	
Avail Cap(c_a), veh/h				1048	0	846	0	2789	1239	0	2789	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				37.3	0.0	41.0	0.0	9.5	8.3	0.0	16.7	0.0
Incr Delay (d2), s/veh				1.2	0.0	12.0	0.0	0.1	0.0	0.0	2.0	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				8.0	0.0	11.2	0.0	3.6	1.1	0.0	19.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				38.4	0.0	53.0	0.0	9.5	8.4	0.0	18.7	0.0
LnGrp LOS				D	A	D	A	A	A	A	B	
Approach Vol, veh/h					1330			749			1888	A
Approach Delay, s/veh					46.2			9.4			18.7	
Approach LOS					D			A			B	

Timer - Assigned Phs	2	6	8
Phs Duration (G+Y+Rc), s	80.9	80.9	38.5
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	94.5	94.5	36.5
Max Q Clear Time (g_c+I1), s	11.5	51.6	31.4
Green Ext Time (p_c), s	5.6	24.8	2.6

Intersection Summary	
HCM 6th Ctrl Delay	26.1
HCM 6th LOS	C

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	274	107	41	125	0	248	0	552	124	245	863	787
Future Volume (veh/h)	274	107	41	125	0	248	0	552	124	245	863	787
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	207	243	45	136	0	0	0	600	135	266	938	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	377	395	333	0	0		0	1058	469	346	2090	
Arrive On Green	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.30	0.30	0.20	0.59	0.00
Sat Flow, veh/h	1767	1856	1561		0		0	3618	1565	1767	3526	1572
Grp Volume(v), veh/h	207	243	45		0.0		0	600	135	266	938	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1561				0	1763	1565	1767	1763	1572
Q Serve(g_s), s	4.8	5.5	1.1				0.0	6.7	3.1	6.6	6.8	0.0
Cycle Q Clear(g_c), s	4.8	5.5	1.1				0.0	6.7	3.1	6.6	6.8	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	377	395	333				0	1058	469	346	2090	
V/C Ratio(X)	0.55	0.61	0.14				0.00	0.57	0.29	0.77	0.45	
Avail Cap(c_a), veh/h	1086	1140	960				0	2851	1265	1277	5740	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.3	16.5	14.8				0.0	13.7	12.4	17.7	5.2	0.0
Incr Delay (d2), s/veh	1.3	1.6	0.2				0.0	0.5	0.3	3.6	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	2.2	0.4				0.0	2.3	0.9	2.7	1.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.5	18.1	15.0				0.0	14.2	12.8	21.3	5.4	0.0
LnGrp LOS	B	B	B				A	B	B	C	A	
Approach Vol, veh/h		495						735			1204	A
Approach Delay, s/veh		17.6						13.9			8.9	
Approach LOS		B						B			A	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	13.6	18.4		14.4		32.0						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	33.5	37.5		28.5		75.5						
Max Q Clear Time (g_c+I1), s	9.6	8.7		7.5		8.8						
Green Ext Time (p_c), s	0.8	5.0		2.1		8.7						

Intersection Summary	
HCM 6th Ctrl Delay	12.2
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	216	193	160	177	78	239	37	138	45	25	44
Future Volume (veh/h)	41	216	193	160	177	78	239	37	138	45	25	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	45	235	210	174	192	85	260	40	150	49	27	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	79	384	328	228	716	305	365	56	370	72	39	70
Arrive On Green	0.04	0.21	0.21	0.13	0.30	0.30	0.24	0.24	0.24	0.11	0.11	0.11
Sat Flow, veh/h	1767	1796	1533	1767	2402	1022	1541	237	1563	669	369	655
Grp Volume(v), veh/h	45	230	215	174	139	138	300	0	150	124	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1567	1767	1763	1661	1778	0	1563	1693	0	0
Q Serve(g_s), s	1.4	6.8	7.2	5.5	3.4	3.7	8.9	0.0	4.7	4.1	0.0	0.0
Cycle Q Clear(g_c), s	1.4	6.8	7.2	5.5	3.4	3.7	8.9	0.0	4.7	4.1	0.0	0.0
Prop In Lane	1.00		0.98	1.00		0.62	0.87		1.00	0.40		0.39
Lane Grp Cap(c), veh/h	79	377	335	228	526	495	421	0	370	181	0	0
V/C Ratio(X)	0.57	0.61	0.64	0.76	0.26	0.28	0.71	0.00	0.41	0.68	0.00	0.00
Avail Cap(c_a), veh/h	323	844	751	847	1367	1288	1441	0	1266	605	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	26.9	20.4	20.6	24.1	15.3	15.4	20.1	0.0	18.5	24.7	0.0	0.0
Incr Delay (d2), s/veh	6.4	1.6	2.0	5.2	0.3	0.3	2.3	0.0	0.7	4.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	2.7	2.6	2.5	1.3	1.3	3.6	0.0	1.6	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.2	22.0	22.6	29.4	15.6	15.7	22.4	0.0	19.2	29.2	0.0	0.0
LnGrp LOS	C	C	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		490			451			450			124	
Approach Delay, s/veh		23.3			21.0			21.3			29.2	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	18.1	11.9	16.8	10.6	7.1	21.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	46.5	27.5	27.5	20.5	10.5	44.5
Max Q Clear Time (g_c+I1), s	10.9	7.5	9.2	6.1	3.4	5.7
Green Ext Time (p_c), s	2.5	0.4	2.6	0.5	0.0	1.8

Intersection Summary	
HCM 6th Ctrl Delay	22.5
HCM 6th LOS	C

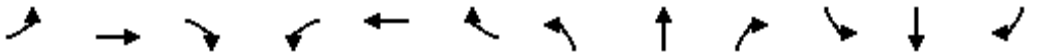
Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	23	27	38	389	456	16
Future Vol, veh/h	23	27	38	389	456	16
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	25	29	41	423	496	17

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1020	267	518	0	-	0
Stage 1	510	-	-	-	-	-
Stage 2	510	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	246	729	1040	-	-	-
Stage 1	566	-	-	-	-	-
Stage 2	599	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	234	722	1035	-	-	-
Mov Cap-2 Maneuver	234	-	-	-	-	-
Stage 1	541	-	-	-	-	-
Stage 2	596	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.5	0.8	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1035	-	368	-	-
HCM Lane V/C Ratio	0.04	-	0.148	-	-
HCM Control Delay (s)	8.6	-	16.5	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	-	-



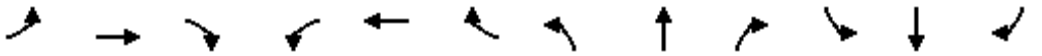
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	139	212	83	34	78	126	7	259	58	116	126	13
Future Volume (veh/h)	139	212	83	34	78	126	7	259	58	116	126	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	151	230	0	37	85	0	8	282	63	126	137	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	204	726		73	466		19	445	375	169	603	509
Arrive On Green	0.12	0.21	0.00	0.04	0.13	0.00	0.01	0.24	0.24	0.10	0.32	0.32
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1563	1767	1856	1565
Grp Volume(v), veh/h	151	230	0	37	85	0	8	282	63	126	137	14
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1563	1767	1856	1565
Q Serve(g_s), s	3.6	2.4	0.0	0.9	0.9	0.0	0.2	5.9	1.4	3.0	2.3	0.3
Cycle Q Clear(g_c), s	3.6	2.4	0.0	0.9	0.9	0.0	0.2	5.9	1.4	3.0	2.3	0.3
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	204	726		73	466		19	445	375	169	603	509
V/C Ratio(X)	0.74	0.32		0.50	0.18		0.43	0.63	0.17	0.75	0.23	0.03
Avail Cap(c_a), veh/h	1167	3226		430	1756		266	2042	1719	1003	2815	2375
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.5	14.6	0.0	20.3	16.7	0.0	21.2	14.7	13.0	19.0	10.6	9.9
Incr Delay (d2), s/veh	5.2	0.2	0.0	5.3	0.2	0.0	14.7	1.5	0.2	6.4	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.8	0.0	0.4	0.3	0.0	0.1	2.3	0.4	1.4	0.8	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.7	14.8	0.0	25.5	16.8	0.0	35.9	16.2	13.2	25.4	10.8	9.9
LnGrp LOS	C	B		C	B		D	B	B	C	B	A
Approach Vol, veh/h		381	A		122	A		353			277	
Approach Delay, s/veh		18.3			19.5			16.1			17.4	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	14.9	6.3	13.4	5.0	18.5	9.5	10.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	24.5	47.5	10.5	39.5	6.5	65.5	28.5	21.5
Max Q Clear Time (g_c+I1), s	5.0	7.9	2.9	4.4	2.2	4.3	5.6	2.9
Green Ext Time (p_c), s	0.3	2.0	0.0	1.6	0.0	0.9	0.4	0.4

Intersection Summary	
HCM 6th Ctrl Delay	17.5
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	94	220	177	63	248	172	312	1054	89	281	1198	122
Future Volume (veh/h)	94	220	177	63	248	172	312	1054	89	281	1198	122
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	102	239	192	68	270	187	339	1146	97	305	1302	133
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	126	334	257	87	311	208	369	1552	690	335	1483	659
Arrive On Green	0.07	0.18	0.18	0.05	0.15	0.15	0.21	0.44	0.44	0.19	0.42	0.42
Sat Flow, veh/h	1767	1890	1453	1767	2014	1347	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	102	222	209	68	235	222	339	1146	97	305	1302	133
Grp Sat Flow(s),veh/h/ln	1767	1763	1579	1767	1763	1598	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	7.1	14.8	15.6	4.7	16.2	17.0	23.4	33.6	4.6	21.1	42.2	6.7
Cycle Q Clear(g_c), s	7.1	14.8	15.6	4.7	16.2	17.0	23.4	33.6	4.6	21.1	42.2	6.7
Prop In Lane	1.00		0.92	1.00		0.84	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	126	311	279	87	273	247	369	1552	690	335	1483	659
V/C Ratio(X)	0.81	0.71	0.75	0.78	0.86	0.90	0.92	0.74	0.14	0.91	0.88	0.20
Avail Cap(c_a), veh/h	165	326	292	121	282	255	464	1722	765	422	1637	727
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.0	48.3	48.6	58.5	51.3	51.7	48.2	28.9	20.8	49.4	33.1	22.8
Incr Delay (d2), s/veh	20.0	6.9	9.8	19.7	22.6	30.6	20.3	1.5	0.1	20.7	5.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	7.1	6.9	2.6	8.9	8.9	12.3	14.3	1.7	11.2	18.8	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.0	55.1	58.4	78.3	73.9	82.3	68.5	30.4	20.9	70.1	38.5	23.0
LnGrp LOS	E	E	E	E	E	F	E	C	C	E	D	C
Approach Vol, veh/h		533			525			1582			1740	
Approach Delay, s/veh		60.6			78.0			38.0			42.9	
Approach LOS		E			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.1	59.3	10.6	26.5	30.5	56.9	13.4	23.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	29.7	60.8	8.5	23.0	32.7	57.8	11.6	19.9
Max Q Clear Time (g_c+I1), s	23.1	35.6	6.7	17.6	25.4	44.2	9.1	19.0
Green Ext Time (p_c), s	0.5	10.0	0.0	1.2	0.6	8.1	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	47.5
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	19	453	34	84	20	520	1345	78	20	1393	57
Future Volume (veh/h)	36	19	453	34	84	20	520	1345	78	20	1393	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	39	21	492	37	91	22	565	1462	85	22	1514	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	50	241	202	94	185	45	516	2442	1085	36	1455	59
Arrive On Green	0.03	0.13	0.13	0.03	0.13	0.13	0.29	0.69	0.69	0.02	0.42	0.42
Sat Flow, veh/h	1767	1856	1554	3428	1440	348	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	39	21	492	37	0	113	565	1462	85	22	771	805
Grp Sat Flow(s),veh/h/ln	1767	1856	1554	1714	0	1788	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	3.0	1.4	18.0	1.5	0.0	8.2	40.5	30.2	2.4	1.7	58.5	58.5
Cycle Q Clear(g_c), s	3.0	1.4	18.0	1.5	0.0	8.2	40.5	30.2	2.4	1.7	58.5	58.5
Prop In Lane	1.00		1.00	1.00		0.19	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	50	241	202	94	0	230	516	2442	1085	36	743	771
V/C Ratio(X)	0.78	0.09	2.44	0.39	0.00	0.49	1.10	0.60	0.08	0.60	1.04	1.04
Avail Cap(c_a), veh/h	64	241	202	123	0	232	516	2442	1085	76	743	771
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.0	53.2	60.4	66.4	0.0	56.2	49.1	11.2	6.9	67.4	40.1	40.1
Incr Delay (d2), s/veh	36.7	0.2	663.2	2.7	0.0	1.6	68.3	0.4	0.0	15.0	43.3	44.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.7	44.2	0.7	0.0	3.8	27.6	11.3	0.8	0.9	33.9	35.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	103.8	53.3	723.6	69.0	0.0	57.8	117.4	11.6	7.0	82.5	83.4	84.6
LnGrp LOS	F	D	F	E	A	E	F	B	A	F	F	F
Approach Vol, veh/h		552			150			2112			1598	
Approach Delay, s/veh		654.3			60.6			39.7			84.0	
Approach LOS		F			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.4	100.6	8.3	22.5	45.0	63.0	8.4	22.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	6.6	93.0	5.0	18.0	40.5	58.5	5.0	18.0
Max Q Clear Time (g_c+I1), s	3.7	32.2	3.5	20.0	42.5	60.5	5.0	10.2
Green Ext Time (p_c), s	0.0	18.9	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	133.4
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	403	0	876	0	949	111	0	1664	206
Future Volume (veh/h)	0	0	0	403	0	876	0	949	111	0	1664	206
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				438	0	952	0	1032	121	0	1809	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				1233	0	995	0	2020	897	0	2020	
Arrive On Green				0.36	0.00	0.36	0.00	0.57	0.57	0.00	0.57	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				438	0	952	0	1032	121	0	1809	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				12.5	0.0	44.8	0.0	23.6	4.8	0.0	60.0	0.0
Cycle Q Clear(g_c), s				12.5	0.0	44.8	0.0	23.6	4.8	0.0	60.0	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1233	0	995	0	2020	897	0	2020	
V/C Ratio(X)				0.36	0.00	0.96	0.00	0.51	0.13	0.00	0.90	
Avail Cap(c_a), veh/h				1250	0	1009	0	2179	968	0	2179	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				31.3	0.0	41.7	0.0	17.2	13.2	0.0	25.0	0.0
Incr Delay (d2), s/veh				0.2	0.0	18.6	0.0	0.2	0.1	0.0	5.1	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.3	0.0	17.7	0.0	9.5	1.7	0.0	25.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				31.5	0.0	60.3	0.0	17.4	13.2	0.0	30.0	0.0
LnGrp LOS				C	A	E	A	B	B	A	C	
Approach Vol, veh/h					1390			1153			1809	A
Approach Delay, s/veh					51.2			17.0			30.0	
Approach LOS					D			B			C	

Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	80.9		80.9		52.4	
Change Period (Y+Rc), s	4.5		4.5		4.5	
Max Green Setting (Gmax), s	82.4		82.4		48.6	
Max Q Clear Time (g_c+I1), s	25.6		62.0		46.8	
Green Ext Time (p_c), s	10.7		14.4		1.2	

Intersection Summary		
HCM 6th Ctrl Delay	33.3	
HCM 6th LOS	C	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	395	100	60	120	0	281	0	1179	172	245	864	797
Future Volume (veh/h)	395	100	60	120	0	281	0	1179	172	245	864	797
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	269	333	65	130	0	0	0	1282	187	266	939	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	380	399	336	0	0		0	1634	727	307	2420	
Arrive On Green	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.46	0.46	0.17	0.69	0.00
Sat Flow, veh/h	1767	1856	1562		0		0	3618	1567	1767	3526	1572
Grp Volume(v), veh/h	269	333	65		0.0		0	1282	187	266	939	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1562				0	1763	1567	1767	1763	1572
Q Serve(g_s), s	12.9	15.7	3.1				0.0	28.0	6.6	13.4	10.4	0.0
Cycle Q Clear(g_c), s	12.9	15.7	3.1				0.0	28.0	6.6	13.4	10.4	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	380	399	336				0	1634	727	307	2420	
V/C Ratio(X)	0.71	0.83	0.19				0.00	0.78	0.26	0.87	0.39	
Avail Cap(c_a), veh/h	493	517	435				0	2216	985	473	3333	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	33.2	34.3	29.4				0.0	20.7	15.0	36.8	6.1	0.0
Incr Delay (d2), s/veh	3.2	9.0	0.3				0.0	1.3	0.2	10.2	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	7.9	1.2				0.0	11.1	0.0	6.5	3.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.5	43.3	29.7				0.0	22.0	15.1	46.9	6.2	0.0
LnGrp LOS	D	D	C				A	C	B	D	A	
Approach Vol, veh/h		667						1469			1205	A
Approach Delay, s/veh		39.2						21.2			15.2	
Approach LOS		D						C			B	

Timer - Assigned Phs	1	2		4		6			
Phs Duration (G+Y+Rc), s	30.4	46.9		24.2		67.3			
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5			
Max Green Setting (Gmax), s	24.5	57.5		25.5		86.5			
Max Q Clear Time (g_c+I1), s	15.4	30.0		17.7		12.4			
Green Ext Time (p_c), s	0.5	12.4		2.0		8.8			

Intersection Summary	
HCM 6th Ctrl Delay	22.6
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	249	195	140	161	51	231	48	162	36	28	46
Future Volume (veh/h)	30	249	195	140	161	51	231	48	162	36	28	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	33	271	212	152	175	55	251	52	176	39	30	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	63	435	328	201	813	247	354	73	375	57	44	73
Arrive On Green	0.04	0.23	0.23	0.11	0.31	0.31	0.24	0.24	0.24	0.10	0.10	0.10
Sat Flow, veh/h	1767	1907	1441	1767	2657	808	1476	306	1563	553	426	709
Grp Volume(v), veh/h	33	250	233	152	114	116	303	0	176	119	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1585	1767	1763	1702	1782	0	1563	1688	0	0
Q Serve(g_s), s	1.0	7.3	7.6	4.8	2.7	2.9	8.9	0.0	5.5	3.9	0.0	0.0
Cycle Q Clear(g_c), s	1.0	7.3	7.6	4.8	2.7	2.9	8.9	0.0	5.5	3.9	0.0	0.0
Prop In Lane	1.00		0.91	1.00		0.47	0.83		1.00	0.33		0.42
Lane Grp Cap(c), veh/h	63	402	361	201	539	521	427	0	375	175	0	0
V/C Ratio(X)	0.52	0.62	0.65	0.76	0.21	0.22	0.71	0.00	0.47	0.68	0.00	0.00
Avail Cap(c_a), veh/h	263	941	846	789	1466	1415	1388	0	1217	635	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	27.1	19.8	20.0	24.6	14.7	14.8	19.9	0.0	18.6	24.7	0.0	0.0
Incr Delay (d2), s/veh	6.6	1.6	1.9	5.7	0.2	0.2	2.2	0.0	0.9	4.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.9	2.8	2.2	1.0	1.0	3.6	0.0	1.9	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.6	21.4	21.9	30.3	14.9	15.0	22.1	0.0	19.5	29.3	0.0	0.0
LnGrp LOS	C	C	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		516			382			479			119	
Approach Delay, s/veh		22.4			21.1			21.1			29.3	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	18.2	11.0	17.5	10.4	6.5	22.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	44.5	25.5	30.5	21.5	8.5	47.5
Max Q Clear Time (g_c+I1), s	10.9	6.8	9.6	5.9	3.0	4.9
Green Ext Time (p_c), s	2.6	0.4	3.0	0.5	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	22.2
HCM 6th LOS	C

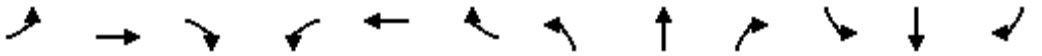
Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	47	76	500	382	30
Future Vol, veh/h	21	47	76	500	382	30
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	23	51	83	543	415	33

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1151	234	453	0	-	0
Stage 1	437	-	-	-	-	-
Stage 2	714	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	203	766	1100	-	-	-
Stage 1	617	-	-	-	-	-
Stage 2	482	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	186	759	1095	-	-	-
Mov Cap-2 Maneuver	186	-	-	-	-	-
Stage 1	567	-	-	-	-	-
Stage 2	480	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.4	1.1	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1095	-	389	-	-
HCM Lane V/C Ratio	0.075	-	0.19	-	-
HCM Control Delay (s)	8.6	-	16.4	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.2	-	0.7	-	-



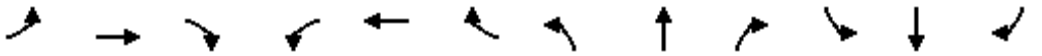
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	107	159	25	23	372	79	173	343	148	89	200	186
Future Volume (veh/h)	107	159	25	23	372	79	173	343	148	89	200	186
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	116	173	0	25	404	0	188	373	161	97	217	202
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	154	930		52	726		248	527	445	129	402	338
Arrive On Green	0.09	0.26	0.00	0.03	0.21	0.00	0.14	0.28	0.28	0.07	0.22	0.22
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1564	1767	1856	1562
Grp Volume(v), veh/h	116	173	0	25	404	0	188	373	161	97	217	202
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1564	1767	1856	1562
Q Serve(g_s), s	3.3	2.0	0.0	0.7	5.3	0.0	5.3	9.3	4.2	2.8	5.3	6.0
Cycle Q Clear(g_c), s	3.3	2.0	0.0	0.7	5.3	0.0	5.3	9.3	4.2	2.8	5.3	6.0
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	154	930		52	726		248	527	445	129	402	338
V/C Ratio(X)	0.75	0.19		0.48	0.56		0.76	0.71	0.36	0.75	0.54	0.60
Avail Cap(c_a), veh/h	704	3118		258	2227		979	1858	1566	601	1461	1229
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.9	14.7	0.0	24.6	18.3	0.0	21.3	16.5	14.7	23.4	17.9	18.1
Incr Delay (d2), s/veh	7.3	0.1	0.0	6.9	0.7	0.0	4.7	1.8	0.5	8.5	1.1	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.7	0.0	0.4	2.0	0.0	2.3	3.7	1.4	1.4	2.2	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.2	14.8	0.0	31.5	19.0	0.0	25.9	18.3	15.2	31.9	19.0	19.8
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		289	A		429	A		722			516	
Approach Delay, s/veh		21.0			19.7			19.6			21.8	
Approach LOS		C			B			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	19.1	6.0	18.1	11.7	15.6	9.0	15.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	51.5	7.5	45.5	28.5	40.5	20.5	32.5
Max Q Clear Time (g_c+I1), s	4.8	11.3	2.7	4.0	7.3	8.0	5.3	7.3
Green Ext Time (p_c), s	0.2	3.1	0.0	1.2	0.5	2.0	0.2	2.7

Intersection Summary	
HCM 6th Ctrl Delay	20.4
HCM 6th LOS	C

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	292	135	84	265	179	77	1016	74	155	941	54
Future Volume (veh/h)	69	292	135	84	265	179	77	1016	74	155	941	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	75	317	147	91	288	195	84	1104	80	168	1023	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	97	436	198	118	401	263	109	1463	650	209	1663	739
Arrive On Green	0.06	0.19	0.19	0.07	0.20	0.20	0.06	0.41	0.41	0.12	0.47	0.47
Sat Flow, veh/h	1767	2351	1066	1767	2032	1334	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	75	236	228	91	249	234	84	1104	80	168	1023	59
Grp Sat Flow(s),veh/h/ln	1767	1763	1653	1767	1763	1603	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	3.5	10.6	10.9	4.3	11.1	11.5	3.9	22.4	2.6	7.8	18.1	1.7
Cycle Q Clear(g_c), s	3.5	10.6	10.9	4.3	11.1	11.5	3.9	22.4	2.6	7.8	18.1	1.7
Prop In Lane	1.00		0.64	1.00		0.83	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	97	327	307	118	348	316	109	1463	650	209	1663	739
V/C Ratio(X)	0.77	0.72	0.74	0.77	0.71	0.74	0.77	0.75	0.12	0.80	0.62	0.08
Avail Cap(c_a), veh/h	267	548	514	314	594	540	284	2431	1081	486	2835	1260
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.1	32.1	32.3	38.5	31.5	31.7	38.8	20.9	15.1	36.1	16.5	12.2
Incr Delay (d2), s/veh	12.1	3.0	3.6	10.1	2.7	3.4	10.9	0.8	0.1	7.1	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	4.7	4.6	2.1	4.8	4.6	2.0	8.8	0.9	3.7	6.9	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.2	35.1	35.9	48.7	34.2	35.1	49.7	21.7	15.2	43.1	16.9	12.2
LnGrp LOS	D	D	D	D	C	D	D	C	B	D	B	B
Approach Vol, veh/h		539			574			1268			1250	
Approach Delay, s/veh		37.7			36.9			23.2			20.2	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.4	39.3	10.1	20.1	9.7	44.1	9.1	21.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	23.1	57.9	14.9	26.1	13.5	67.5	12.7	28.3
Max Q Clear Time (g_c+I1), s	9.8	24.4	6.3	12.9	5.9	20.1	5.5	13.5
Green Ext Time (p_c), s	0.4	10.4	0.1	2.3	0.1	10.0	0.1	2.6

Intersection Summary	
HCM 6th Ctrl Delay	26.5
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	37	545	91	46	33	313	1070	67	13	1229	45
Future Volume (veh/h)	69	37	545	91	46	33	313	1070	67	13	1229	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	75	40	592	99	50	36	340	1163	73	14	1336	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	95	431	363	125	215	155	360	2070	919	27	1381	51
Arrive On Green	0.05	0.23	0.23	0.04	0.22	0.22	0.20	0.59	0.59	0.02	0.40	0.40
Sat Flow, veh/h	1767	1856	1562	3428	1000	720	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	75	40	592	99	0	86	340	1163	73	14	678	707
Grp Sat Flow(s),veh/h/ln	1767	1856	1562	1714	0	1720	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.9	2.4	32.5	4.0	0.0	5.8	26.5	28.4	2.8	1.1	52.6	52.8
Cycle Q Clear(g_c), s	5.9	2.4	32.5	4.0	0.0	5.8	26.5	28.4	2.8	1.1	52.6	52.8
Prop In Lane	1.00		1.00	1.00		0.42	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	95	431	363	125	0	371	360	2070	919	27	702	730
V/C Ratio(X)	0.79	0.09	1.63	0.79	0.00	0.23	0.94	0.56	0.08	0.53	0.97	0.97
Avail Cap(c_a), veh/h	159	431	363	125	0	371	360	2070	919	67	705	733
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.4	42.1	53.6	66.8	0.0	45.3	54.8	17.8	12.5	68.3	41.1	41.2
Incr Delay (d2), s/veh	13.7	0.1	295.6	28.2	0.0	0.3	33.1	0.3	0.0	15.3	25.7	25.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	1.1	42.6	2.2	0.0	2.5	15.1	11.5	1.0	0.6	27.6	28.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	79.1	42.2	349.3	95.1	0.0	45.6	87.9	18.1	12.5	83.7	66.8	66.7
LnGrp LOS	E	D	F	F	A	D	F	B	B	F	E	E
Approach Vol, veh/h		707			185			1576			1399	
Approach Delay, s/veh		303.2			72.1			32.9			66.9	
Approach LOS		F			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.6	86.6	9.6	37.0	33.0	60.2	12.0	34.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	79.1	5.1	32.5	28.5	55.9	12.6	25.0
Max Q Clear Time (g_c+I1), s	3.1	30.4	6.0	34.5	28.5	54.8	7.9	7.8
Green Ext Time (p_c), s	0.0	12.2	0.0	0.0	0.0	0.9	0.1	0.3

Intersection Summary	
HCM 6th Ctrl Delay	96.5
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	571	0	664	0	599	101	0	1793	226
Future Volume (veh/h)	0	0	0	571	0	664	0	599	101	0	1793	226
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				621	0	722	0	651	110	0	1949	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				958	0	773	0	2286	1016	0	2286	
Arrive On Green				0.28	0.00	0.28	0.00	0.65	0.65	0.00	0.65	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				621	0	722	0	651	110	0	1949	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				19.9	0.0	31.7	0.0	9.9	3.3	0.0	54.1	0.0
Cycle Q Clear(g_c), s				19.9	0.0	31.7	0.0	9.9	3.3	0.0	54.1	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				958	0	773	0	2286	1016	0	2286	
V/C Ratio(X)				0.65	0.00	0.93	0.00	0.28	0.11	0.00	0.85	
Avail Cap(c_a), veh/h				977	0	789	0	2703	1201	0	2703	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				39.5	0.0	43.8	0.0	9.4	8.3	0.0	17.2	0.0
Incr Delay (d2), s/veh				1.5	0.0	17.9	0.0	0.1	0.0	0.0	2.5	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				8.6	0.0	12.7	0.0	3.7	1.1	0.0	21.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				41.0	0.0	61.6	0.0	9.5	8.3	0.0	19.7	0.0
LnGrp LOS				D	A	E	A	A	A	A	B	
Approach Vol, veh/h					1343			761			1949	A
Approach Delay, s/veh					52.1			9.3			19.7	
Approach LOS					D			A			B	

Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	85.3		85.3		39.3	
Change Period (Y+Rc), s	4.5		4.5		4.5	
Max Green Setting (Gmax), s	95.5		95.5		35.5	
Max Q Clear Time (g_c+I1), s	11.9		56.1		33.7	
Green Ext Time (p_c), s	5.8		24.6		1.1	

Intersection Summary		
HCM 6th Ctrl Delay	28.5	
HCM 6th LOS	C	

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	281	107	41	125	0	248	0	556	124	245	878	787
Future Volume (veh/h)	281	107	41	125	0	248	0	556	124	245	878	787
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	210	248	45	136	0	0	0	604	135	266	954	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	381	400	337	0	0		0	1059	470	345	2087	
Arrive On Green	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.30	0.30	0.20	0.59	0.00
Sat Flow, veh/h	1767	1856	1562		0		0	3618	1565	1767	3526	1572
Grp Volume(v), veh/h	210	248	45		0.0		0	604	135	266	954	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1562				0	1763	1565	1767	1763	1572
Q Serve(g_s), s	4.9	5.7	1.1				0.0	6.8	3.1	6.7	7.1	0.0
Cycle Q Clear(g_c), s	4.9	5.7	1.1				0.0	6.8	3.1	6.7	7.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	381	400	337				0	1059	470	345	2087	
V/C Ratio(X)	0.55	0.62	0.13				0.00	0.57	0.29	0.77	0.46	
Avail Cap(c_a), veh/h	1077	1131	951				0	2827	1254	1266	5691	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	16.3	16.6	14.8				0.0	13.8	12.5	17.8	5.3	0.0
Incr Delay (d2), s/veh	1.2	1.6	0.2				0.0	0.5	0.3	3.6	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	2.3	0.4				0.0	2.3	1.0	2.7	1.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.6	18.2	15.0				0.0	14.3	12.9	21.5	5.5	0.0
LnGrp LOS	B	B	B				A	B	B	C	A	
Approach Vol, veh/h		503						739			1220	A
Approach Delay, s/veh		17.6						14.0			9.0	
Approach LOS		B						B			A	

Timer - Assigned Phs	1	2		4		6						
Phs Duration (G+Y+Rc), s	13.6	18.5		14.6		32.2						
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5						
Max Green Setting (Gmax), s	33.5	37.5		28.5		75.5						
Max Q Clear Time (g_c+I1), s	9.1	8.8		7.7		9.1						
Green Ext Time (p_c), s	0.8	5.0		2.2		8.9						

Intersection Summary	
HCM 6th Ctrl Delay	12.3
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	216	195	162	177	78	246	37	146	45	25	44
Future Volume (veh/h)	41	216	195	162	177	78	246	37	146	45	25	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	45	235	212	176	192	85	267	40	159	49	27	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	78	381	329	230	719	306	372	56	376	71	39	70
Arrive On Green	0.04	0.21	0.21	0.13	0.30	0.30	0.24	0.24	0.24	0.11	0.11	0.11
Sat Flow, veh/h	1767	1788	1540	1767	2402	1022	1547	232	1563	669	369	655
Grp Volume(v), veh/h	45	232	215	176	139	138	307	0	159	124	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1565	1767	1763	1661	1778	0	1563	1693	0	0
Q Serve(g_s), s	1.5	6.9	7.3	5.6	3.5	3.7	9.2	0.0	5.0	4.1	0.0	0.0
Cycle Q Clear(g_c), s	1.5	6.9	7.3	5.6	3.5	3.7	9.2	0.0	5.0	4.1	0.0	0.0
Prop In Lane	1.00		0.98	1.00		0.62	0.87		1.00	0.40		0.39
Lane Grp Cap(c), veh/h	78	376	334	230	527	497	428	0	376	181	0	0
V/C Ratio(X)	0.57	0.62	0.65	0.76	0.26	0.28	0.72	0.00	0.42	0.69	0.00	0.00
Avail Cap(c_a), veh/h	319	833	740	835	1348	1270	1421	0	1248	596	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	27.3	20.7	20.9	24.5	15.5	15.6	20.3	0.0	18.7	25.1	0.0	0.0
Incr Delay (d2), s/veh	6.4	1.6	2.1	5.2	0.3	0.3	2.3	0.0	0.8	4.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	2.8	2.6	2.5	1.3	1.3	3.8	0.0	1.7	1.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.7	22.4	23.0	29.7	15.8	15.9	22.6	0.0	19.4	29.6	0.0	0.0
LnGrp LOS	C	C	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		492			453			466			124	
Approach Delay, s/veh		23.7			21.2			21.5			29.6	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	18.5	12.1	16.9	10.7	7.1	21.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	46.5	27.5	27.5	20.5	10.5	44.5
Max Q Clear Time (g_c+I1), s	11.2	7.6	9.3	6.1	3.5	5.7
Green Ext Time (p_c), s	2.6	0.4	2.6	0.5	0.0	1.8

Intersection Summary	
HCM 6th Ctrl Delay	22.8
HCM 6th LOS	C

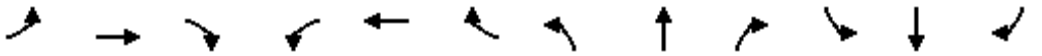
Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	38	37	41	389	456	20
Future Vol, veh/h	38	37	41	389	456	20
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	41	40	45	423	496	22

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1030	269	523	0	-	0
Stage 1	512	-	-	-	-	-
Stage 2	518	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	242	727	1036	-	-	-
Stage 1	565	-	-	-	-	-
Stage 2	594	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	229	720	1031	-	-	-
Mov Cap-2 Maneuver	229	-	-	-	-	-
Stage 1	537	-	-	-	-	-
Stage 2	591	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	18.6	0.8	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1031	-	345	-	-
HCM Lane V/C Ratio	0.043	-	0.236	-	-
HCM Control Delay (s)	8.6	-	18.6	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.1	-	0.9	-	-



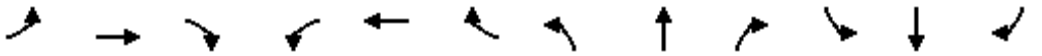
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	139	212	83	34	78	127	7	261	58	119	133	13
Future Volume (veh/h)	139	212	83	34	78	127	7	261	58	119	133	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	151	230	0	37	85	0	8	284	63	129	145	14
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	204	724		73	463		19	447	376	173	609	514
Arrive On Green	0.12	0.21	0.00	0.04	0.13	0.00	0.01	0.24	0.24	0.10	0.33	0.33
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1563	1767	1856	1565
Grp Volume(v), veh/h	151	230	0	37	85	0	8	284	63	129	145	14
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1563	1767	1856	1565
Q Serve(g_s), s	3.6	2.4	0.0	0.9	0.9	0.0	0.2	6.0	1.4	3.1	2.5	0.3
Cycle Q Clear(g_c), s	3.6	2.4	0.0	0.9	0.9	0.0	0.2	6.0	1.4	3.1	2.5	0.3
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	204	724		73	463		19	447	376	173	609	514
V/C Ratio(X)	0.74	0.32		0.51	0.18		0.43	0.64	0.17	0.75	0.24	0.03
Avail Cap(c_a), veh/h	1160	3207		427	1746		265	1987	1673	1038	2799	2361
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.6	14.7	0.0	20.4	16.8	0.0	21.4	14.8	13.0	19.1	10.6	9.9
Incr Delay (d2), s/veh	5.2	0.2	0.0	5.3	0.2	0.0	14.7	1.5	0.2	6.2	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.8	0.0	0.4	0.3	0.0	0.1	2.3	0.4	1.4	0.9	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.8	14.9	0.0	25.7	17.0	0.0	36.0	16.3	13.3	25.3	10.8	9.9
LnGrp LOS	C	B		C	B		D	B	B	C	B	A
Approach Vol, veh/h		381	A		122	A		355			288	
Approach Delay, s/veh		18.4			19.6			16.2			17.3	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.8	15.0	6.3	13.4	5.0	18.7	9.5	10.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.5	46.5	10.5	39.5	6.5	65.5	28.5	21.5
Max Q Clear Time (g_c+I1), s	5.1	8.0	2.9	4.4	2.2	4.5	5.6	2.9
Green Ext Time (p_c), s	0.3	2.0	0.0	1.6	0.0	0.9	0.4	0.4

Intersection Summary	
HCM 6th Ctrl Delay	17.6
HCM 6th LOS	B

Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	94	220	179	63	248	175	313	1065	89	286	1216	122
Future Volume (veh/h)	94	220	179	63	248	175	313	1065	89	286	1216	122
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	102	239	195	68	270	190	340	1158	97	311	1322	133
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	125	316	246	87	293	199	369	1578	701	340	1521	676
Arrive On Green	0.07	0.17	0.17	0.05	0.15	0.15	0.21	0.45	0.45	0.19	0.43	0.43
Sat Flow, veh/h	1767	1875	1464	1767	1999	1358	1767	3526	1567	1767	3526	1567
Grp Volume(v), veh/h	102	224	210	68	237	223	340	1158	97	311	1322	133
Grp Sat Flow(s),veh/h/ln	1767	1763	1577	1767	1763	1594	1767	1763	1567	1767	1763	1567
Q Serve(g_s), s	7.2	15.3	16.1	4.8	16.7	17.5	23.8	34.1	4.6	21.8	43.1	6.7
Cycle Q Clear(g_c), s	7.2	15.3	16.1	4.8	16.7	17.5	23.8	34.1	4.6	21.8	43.1	6.7
Prop In Lane	1.00		0.93	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	125	297	265	87	258	234	369	1578	701	340	1521	676
V/C Ratio(X)	0.81	0.75	0.79	0.78	0.92	0.95	0.92	0.73	0.14	0.91	0.87	0.20
Avail Cap(c_a), veh/h	147	297	265	119	258	234	441	1750	778	424	1717	763
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.8	50.0	50.4	59.4	53.1	53.5	49.0	28.7	20.5	50.0	32.7	22.3
Incr Delay (d2), s/veh	25.1	10.5	14.9	20.5	34.8	46.2	22.5	1.5	0.1	21.2	4.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	7.6	7.5	2.6	9.9	10.0	12.8	14.5	1.7	11.6	19.0	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	83.0	60.5	65.3	79.9	88.0	99.7	71.5	30.2	20.6	71.2	37.3	22.4
LnGrp LOS	F	E	E	E	F	F	E	C	C	E	D	C
Approach Vol, veh/h		536			528			1595			1766	
Approach Delay, s/veh		66.7			91.9			38.4			42.2	
Approach LOS		E			F			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.8	61.0	10.7	25.8	30.9	59.0	13.5	23.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	30.3	62.7	8.5	20.5	31.5	61.5	10.5	18.5
Max Q Clear Time (g_c+I1), s	23.8	36.1	6.8	18.1	25.8	45.1	9.2	19.5
Green Ext Time (p_c), s	0.5	10.3	0.0	0.6	0.5	9.4	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	49.7
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	23	453	72	87	32	520	1345	139	40	1393	57
Future Volume (veh/h)	36	23	453	72	87	32	520	1345	139	40	1393	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	39	25	492	78	95	35	565	1462	151	43	1514	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	50	239	200	120	175	64	512	2385	1060	55	1443	59
Arrive On Green	0.03	0.13	0.13	0.03	0.14	0.14	0.29	0.68	0.68	0.03	0.42	0.42
Sat Flow, veh/h	1767	1856	1554	3428	1289	475	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	39	25	492	78	0	130	565	1462	151	43	771	805
Grp Sat Flow(s),veh/h/ln	1767	1856	1554	1714	0	1764	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	3.1	1.7	18.0	3.1	0.0	9.6	40.5	32.1	4.8	3.4	58.5	58.5
Cycle Q Clear(g_c), s	3.1	1.7	18.0	3.1	0.0	9.6	40.5	32.1	4.8	3.4	58.5	58.5
Prop In Lane	1.00		1.00	1.00		0.27	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	50	239	200	120	0	239	512	2385	1060	55	737	765
V/C Ratio(X)	0.78	0.10	2.46	0.65	0.00	0.54	1.10	0.61	0.14	0.78	1.05	1.05
Avail Cap(c_a), veh/h	63	239	200	123	0	239	512	2385	1060	114	737	765
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.5	53.8	60.9	66.7	0.0	56.4	49.7	12.5	8.1	67.3	40.7	40.7
Incr Delay (d2), s/veh	37.3	0.2	672.0	11.2	0.0	2.5	71.4	0.5	0.1	20.4	45.9	47.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.8	44.4	1.6	0.0	4.5	27.9	12.3	1.6	1.8	34.4	35.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	104.8	54.0	732.9	77.9	0.0	59.0	121.1	13.0	8.2	87.6	86.6	87.8
LnGrp LOS	F	D	F	E	A	E	F	B	A	F	F	F
Approach Vol, veh/h		556			208			2178			1619	
Approach Delay, s/veh		658.4			66.1			40.7			87.2	
Approach LOS		F			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	99.1	9.4	22.5	45.0	63.0	8.5	23.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.6	90.0	5.0	18.0	40.5	58.5	5.0	18.0
Max Q Clear Time (g_c+I1), s	5.4	34.1	5.1	20.0	42.5	60.5	5.1	11.6
Green Ext Time (p_c), s	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	133.7
HCM 6th LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	403	0	907	0	979	111	0	1690	206
Future Volume (veh/h)	0	0	0	403	0	907	0	979	111	0	1690	206
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1856	0	1856	0	1856	1856	0	1856	1856
Adj Flow Rate, veh/h				438	0	986	0	1064	121	0	1837	0
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				3	0	3	0	3	3	0	3	3
Cap, veh/h				1247	0	1006	0	2011	893	0	2011	
Arrive On Green				0.36	0.00	0.36	0.00	0.57	0.57	0.00	0.57	0.00
Sat Flow, veh/h				3428	0	2768	0	3618	1566	0	3618	1572
Grp Volume(v), veh/h				438	0	986	0	1064	121	0	1837	0
Grp Sat Flow(s),veh/h/ln				1714	0	1384	0	1763	1566	0	1763	1572
Q Serve(g_s), s				12.7	0.0	47.9	0.0	25.3	4.9	0.0	63.6	0.0
Cycle Q Clear(g_c), s				12.7	0.0	47.9	0.0	25.3	4.9	0.0	63.6	0.0
Prop In Lane				1.00		1.00	0.00		1.00	0.00		1.00
Lane Grp Cap(c), veh/h				1247	0	1006	0	2011	893	0	2011	
V/C Ratio(X)				0.35	0.00	0.98	0.00	0.53	0.14	0.00	0.91	
Avail Cap(c_a), veh/h				1247	0	1006	0	2111	937	0	2111	
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d), s/veh				31.6	0.0	42.8	0.0	18.0	13.6	0.0	26.2	0.0
Incr Delay (d2), s/veh				0.2	0.0	23.5	0.0	0.2	0.1	0.0	6.5	0.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.3	0.0	19.5	0.0	10.2	1.8	0.0	27.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				31.8	0.0	66.3	0.0	18.2	13.7	0.0	32.7	0.0
LnGrp LOS				C	A	E	A	B	B	A	C	
Approach Vol, veh/h					1424			1185			1837	A
Approach Delay, s/veh					55.7			17.8			32.7	
Approach LOS					E			B			C	

Timer - Assigned Phs	2	6	8
Phs Duration (G+Y+Rc), s	82.1	82.1	54.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	81.5	81.5	49.5
Max Q Clear Time (g_c+I1), s	27.3	65.6	49.9
Green Ext Time (p_c), s	11.1	12.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	36.1
HCM 6th LOS	D

Notes

Unsignalized Delay for [SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	414	100	60	120	0	281	0	1190	172	245	871	797
Future Volume (veh/h)	414	100	60	120	0	281	0	1190	172	245	871	797
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	0	1856	0	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	280	348	65	130	0	0	0	1293	187	266	947	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	0	3	0	3	3	3	3	3
Cap, veh/h	389	409	344	0	0		0	1638	728	305	2414	
Arrive On Green	0.22	0.22	0.22	0.00	0.00	0.00	0.00	0.46	0.46	0.17	0.68	0.00
Sat Flow, veh/h	1767	1856	1562		0		0	3618	1567	1767	3526	1572
Grp Volume(v), veh/h	280	348	65		0.0		0	1293	187	266	947	0
Grp Sat Flow(s),veh/h/ln	1767	1856	1562				0	1763	1567	1767	1763	1572
Q Serve(g_s), s	13.9	17.0	3.2				0.0	29.4	6.9	13.9	11.0	0.0
Cycle Q Clear(g_c), s	13.9	17.0	3.2				0.0	29.4	6.9	13.9	11.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	389	409	344				0	1638	728	305	2414	
V/C Ratio(X)	0.72	0.85	0.19				0.00	0.79	0.26	0.87	0.39	
Avail Cap(c_a), veh/h	476	499	420				0	2214	984	438	3256	
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	34.2	35.4	30.0				0.0	21.4	15.4	38.2	6.4	0.0
Incr Delay (d2), s/veh	4.1	11.3	0.3				0.0	1.4	0.2	12.7	0.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.3	8.8	1.2				0.0	11.8	2.4	7.0	3.5	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.3	46.7	30.3				0.0	22.9	15.6	50.8	6.5	0.0
LnGrp LOS	D	D	C				A	C	B	D	A	
Approach Vol, veh/h		693						1480			1213	A
Approach Delay, s/veh		41.8						21.9			16.3	
Approach LOS		D						C			B	

Timer - Assigned Phs	1	2		4		6			
Phs Duration (G+Y+Rc), s	30.8	48.5		25.4		69.4			
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5			
Max Green Setting (Gmax), s	23.5	59.5		25.5		87.5			
Max Q Clear Time (g_c+I1), s	15.9	31.4		19.0		13.0			
Green Ext Time (p_c), s	0.5	12.6		1.8		8.9			

Intersection Summary	
HCM 6th Ctrl Delay	24.0
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	249	200	146	161	51	234	48	166	36	28	46
Future Volume (veh/h)	30	249	200	146	161	51	234	48	166	36	28	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	33	271	217	159	175	55	254	52	180	39	30	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	63	429	332	209	825	251	356	73	376	57	44	73
Arrive On Green	0.04	0.23	0.23	0.12	0.31	0.31	0.24	0.24	0.24	0.10	0.10	0.10
Sat Flow, veh/h	1767	1886	1458	1767	2657	808	1479	303	1563	553	426	709
Grp Volume(v), veh/h	33	253	235	159	114	116	306	0	180	119	0	0
Grp Sat Flow(s),veh/h/ln	1767	1763	1582	1767	1763	1702	1782	0	1563	1688	0	0
Q Serve(g_s), s	1.1	7.5	7.8	5.1	2.8	2.9	9.1	0.0	5.7	4.0	0.0	0.0
Cycle Q Clear(g_c), s	1.1	7.5	7.8	5.1	2.8	2.9	9.1	0.0	5.7	4.0	0.0	0.0
Prop In Lane	1.00		0.92	1.00		0.47	0.83		1.00	0.33		0.42
Lane Grp Cap(c), veh/h	63	401	360	209	547	529	429	0	376	174	0	0
V/C Ratio(X)	0.53	0.63	0.65	0.76	0.21	0.22	0.71	0.00	0.48	0.68	0.00	0.00
Avail Cap(c_a), veh/h	259	895	803	776	1411	1363	1427	0	1251	596	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	27.5	20.2	20.3	24.8	14.8	14.8	20.2	0.0	18.9	25.1	0.0	0.0
Incr Delay (d2), s/veh	6.6	1.6	2.0	5.6	0.2	0.2	2.2	0.0	0.9	4.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	3.0	2.8	2.3	1.0	1.1	3.7	0.0	2.0	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.2	21.8	22.4	30.4	14.9	15.0	22.4	0.0	19.9	29.8	0.0	0.0
LnGrp LOS	C	C	C	C	B	B	C	A	B	C	A	A
Approach Vol, veh/h		521			389			486			119	
Approach Delay, s/veh		22.9			21.3			21.5			29.8	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	18.5	11.4	17.7	10.5	6.6	22.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	46.5	25.5	29.5	20.5	8.5	46.5
Max Q Clear Time (g_c+I1), s	11.1	7.1	9.8	6.0	3.1	4.9
Green Ext Time (p_c), s	2.7	0.4	3.0	0.5	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	22.6
HCM 6th LOS	C

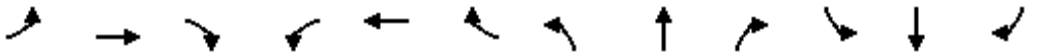
Intersection	
Int Delay, s/veh	2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	28	51	83	500	382	41
Future Vol, veh/h	28	51	83	500	382	41
Conflicting Peds, #/hr	5	5	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	150	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	3	3	3	3
Mvmt Flow	30	55	90	543	415	45

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	1171	240	465	0	-	0
Stage 1	443	-	-	-	-	-
Stage 2	728	-	-	-	-	-
Critical Hdwy	6.645	6.945	4.145	-	-	-
Critical Hdwy Stg 1	5.845	-	-	-	-	-
Critical Hdwy Stg 2	5.445	-	-	-	-	-
Follow-up Hdwy	3.5285	3.3285	2.2285	-	-	-
Pot Cap-1 Maneuver	198	759	1088	-	-	-
Stage 1	613	-	-	-	-	-
Stage 2	475	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	180	752	1083	-	-	-
Mov Cap-2 Maneuver	180	-	-	-	-	-
Stage 1	559	-	-	-	-	-
Stage 2	473	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	18.4	1.2	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1083	-	354	-	-
HCM Lane V/C Ratio	0.083	-	0.243	-	-
HCM Control Delay (s)	8.6	-	18.4	-	-
HCM Lane LOS	A	-	C	-	-
HCM 95th %tile Q(veh)	0.3	-	0.9	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	107	159	25	23	372	81	173	348	148	90	203	186
Future Volume (veh/h)	107	159	25	23	372	81	173	348	148	90	203	186
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	116	173	0	25	404	0	188	378	161	98	221	202
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	154	928		52	724		248	532	448	129	407	342
Arrive On Green	0.09	0.26	0.00	0.03	0.21	0.00	0.14	0.29	0.29	0.07	0.22	0.22
Sat Flow, veh/h	1767	3618	0	1767	3618	0	1767	1856	1564	1767	1856	1562
Grp Volume(v), veh/h	116	173	0	25	404	0	188	378	161	98	221	202
Grp Sat Flow(s),veh/h/ln	1767	1763	0	1767	1763	0	1767	1856	1564	1767	1856	1562
Q Serve(g_s), s	3.3	2.0	0.0	0.7	5.3	0.0	5.3	9.4	4.2	2.8	5.5	6.0
Cycle Q Clear(g_c), s	3.3	2.0	0.0	0.7	5.3	0.0	5.3	9.4	4.2	2.8	5.5	6.0
Prop In Lane	1.00		0.00	1.00		0.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	154	928		52	724		248	532	448	129	407	342
V/C Ratio(X)	0.75	0.19		0.48	0.56		0.76	0.71	0.36	0.76	0.54	0.59
Avail Cap(c_a), veh/h	700	3101		256	2215		974	1847	1557	598	1453	1223
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.1	14.8	0.0	24.7	18.4	0.0	21.4	16.5	14.7	23.5	17.9	18.1
Incr Delay (d2), s/veh	7.3	0.1	0.0	6.9	0.7	0.0	4.7	1.8	0.5	8.8	1.1	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.7	0.0	0.4	2.0	0.0	2.3	3.8	1.4	1.4	2.2	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.4	14.9	0.0	31.6	19.1	0.0	26.1	18.3	15.2	32.3	19.0	19.7
LnGrp LOS	C	B		C	B		C	B	B	C	B	B
Approach Vol, veh/h		289	A		429	A		727			521	
Approach Delay, s/veh		21.1			19.8			19.6			21.8	
Approach LOS		C			B			B			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	19.3	6.0	18.1	11.8	15.8	9.0	15.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	51.5	7.5	45.5	28.5	40.5	20.5	32.5
Max Q Clear Time (g_c+I1), s	4.8	11.4	2.7	4.0	7.3	8.0	5.3	7.3
Green Ext Time (p_c), s	0.2	3.1	0.0	1.2	0.5	2.1	0.2	2.7

Intersection Summary	
HCM 6th Ctrl Delay	20.5
HCM 6th LOS	C

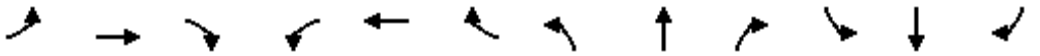
Notes

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	30	443	89	39	31	255	870	58	12	999	36
Future Volume (veh/h)	56	30	443	89	39	31	255	870	58	12	999	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	33	482	97	42	34	277	946	63	13	1086	39
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	78	498	420	147	253	205	308	1851	822	26	1268	46
Arrive On Green	0.04	0.27	0.27	0.04	0.27	0.27	0.17	0.53	0.53	0.01	0.37	0.37
Sat Flow, veh/h	1767	1856	1564	3428	946	766	1767	3526	1565	1767	3470	125
Grp Volume(v), veh/h	61	33	482	97	0	76	277	946	63	13	552	573
Grp Sat Flow(s),veh/h/ln	1767	1856	1564	1714	0	1713	1767	1763	1565	1767	1763	1832
Q Serve(g_s), s	4.1	1.6	32.5	3.4	0.0	4.1	18.6	21.1	2.4	0.9	35.0	35.0
Cycle Q Clear(g_c), s	4.1	1.6	32.5	3.4	0.0	4.1	18.6	21.1	2.4	0.9	35.0	35.0
Prop In Lane	1.00		1.00	1.00		0.45	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	78	498	420	147	0	457	308	1851	822	26	644	670
V/C Ratio(X)	0.78	0.07	1.15	0.66	0.00	0.17	0.90	0.51	0.08	0.50	0.86	0.86
Avail Cap(c_a), veh/h	153	498	420	184	0	457	416	2270	1008	74	794	825
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.2	33.0	44.3	57.0	0.0	34.0	48.9	18.6	14.2	59.2	35.4	35.5
Incr Delay (d2), s/veh	15.0	0.1	90.8	5.9	0.0	0.2	17.8	0.2	0.0	14.3	7.7	7.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.7	23.0	1.6	0.0	1.8	9.7	8.5	0.9	0.5	16.2	16.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.2	33.0	135.1	62.9	0.0	34.2	66.8	18.9	14.3	73.5	43.2	42.9
LnGrp LOS	E	C	F	E	A	C	E	B	B	E	D	D
Approach Vol, veh/h		576			173			1286			1138	
Approach Delay, s/veh		122.6			50.3			29.0			43.4	
Approach LOS		F			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.3	68.0	9.7	37.0	25.6	48.7	9.9	36.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.1	77.9	6.5	32.5	28.5	54.5	10.5	28.5
Max Q Clear Time (g_c+I1), s	2.9	23.1	5.4	34.5	20.6	37.0	6.1	6.1
Green Ext Time (p_c), s	0.0	9.0	0.0	0.0	0.5	7.2	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	52.3
HCM 6th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	30	443	89	39	31	255	870	58	12	999	36
Future Volume (veh/h)	56	30	443	89	39	31	255	870	58	12	999	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	61	33	482	97	42	34	277	946	63	13	1086	39
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	79	495	691	147	251	203	308	1854	823	26	1271	46
Arrive On Green	0.04	0.27	0.27	0.04	0.27	0.27	0.17	0.53	0.53	0.01	0.37	0.37
Sat Flow, veh/h	1767	1856	1564	3428	946	766	1767	3526	1565	1767	3470	125
Grp Volume(v), veh/h	61	33	482	97	0	76	277	946	63	13	552	573
Grp Sat Flow(s),veh/h/ln	1767	1856	1564	1714	0	1712	1767	1763	1565	1767	1763	1832
Q Serve(g_s), s	4.1	1.6	29.9	3.4	0.0	4.1	18.5	20.9	2.4	0.9	34.7	34.7
Cycle Q Clear(g_c), s	4.1	1.6	29.9	3.4	0.0	4.1	18.5	20.9	2.4	0.9	34.7	34.7
Prop In Lane	1.00		1.00	1.00		0.45	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	79	495	691	147	0	454	308	1854	823	26	645	671
V/C Ratio(X)	0.78	0.07	0.70	0.66	0.00	0.17	0.90	0.51	0.08	0.50	0.85	0.85
Avail Cap(c_a), veh/h	154	502	697	185	0	454	419	2284	1014	75	799	830
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.9	32.9	27.1	56.7	0.0	34.0	48.6	18.5	14.1	58.8	35.2	35.2
Incr Delay (d2), s/veh	15.0	0.1	3.0	5.7	0.0	0.2	17.6	0.2	0.0	14.3	7.6	7.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.7	11.6	1.6	0.0	1.7	9.6	8.4	0.9	0.5	16.0	16.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.9	33.0	30.2	62.4	0.0	34.1	66.2	18.7	14.1	73.1	42.7	42.5
LnGrp LOS	E	C	C	E	A	C	E	B	B	E	D	D
Approach Vol, veh/h		576			173			1286			1138	
Approach Delay, s/veh		34.7			50.0			28.7			42.9	
Approach LOS		C			D			C			D	

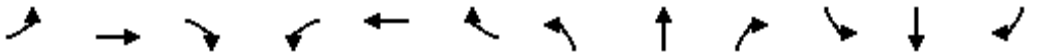
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.3	67.7	9.7	36.6	25.5	48.5	9.8	36.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.1	77.9	6.5	32.5	28.5	54.5	10.5	28.5
Max Q Clear Time (g_c+I1), s	2.9	22.9	5.4	31.9	20.5	36.7	6.1	6.1
Green Ext Time (p_c), s	0.0	9.0	0.0	0.1	0.5	7.3	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	36.1
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	19	368	65	71	28	423	1094	125	36	1133	46
Future Volume (veh/h)	29	19	368	65	71	28	423	1094	125	36	1133	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	32	21	400	71	77	30	460	1189	136	39	1232	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	47	273	229	123	198	77	490	2284	1015	52	1381	56
Arrive On Green	0.03	0.15	0.15	0.04	0.16	0.16	0.28	0.65	0.65	0.03	0.40	0.40
Sat Flow, veh/h	1767	1856	1556	3428	1267	494	1767	3526	1566	1767	3452	140
Grp Volume(v), veh/h	32	21	400	71	0	107	460	1189	136	39	629	653
Grp Sat Flow(s),veh/h/ln	1767	1856	1556	1714	0	1761	1767	1763	1566	1767	1763	1829
Q Serve(g_s), s	2.3	1.3	18.9	2.6	0.0	7.0	32.7	23.0	4.3	2.8	42.7	42.8
Cycle Q Clear(g_c), s	2.3	1.3	18.9	2.6	0.0	7.0	32.7	23.0	4.3	2.8	42.7	42.8
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	47	273	229	123	0	275	490	2284	1015	52	705	732
V/C Ratio(X)	0.68	0.08	1.75	0.58	0.00	0.39	0.94	0.52	0.13	0.75	0.89	0.89
Avail Cap(c_a), veh/h	73	273	229	136	0	275	571	2488	1106	100	775	804
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.0	47.3	54.8	61.0	0.0	48.7	45.4	12.0	8.7	61.9	36.0	36.0
Incr Delay (d2), s/veh	16.1	0.1	353.8	4.9	0.0	0.9	22.0	0.2	0.1	19.7	11.9	11.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.6	29.9	1.2	0.0	3.2	17.2	8.7	1.5	1.5	20.5	21.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.1	47.4	408.6	65.9	0.0	49.6	67.4	12.2	8.8	81.6	47.9	47.7
LnGrp LOS	E	D	F	E	A	D	E	B	A	F	D	D
Approach Vol, veh/h		453			178			1785			1321	
Approach Delay, s/veh		368.5			56.1			26.2			48.8	
Approach LOS		F			E			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	87.7	9.1	23.4	40.1	55.9	7.9	24.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.3	90.7	5.1	18.9	41.5	56.5	5.3	18.7
Max Q Clear Time (g_c+I1), s	4.3	25.0	4.6	20.9	34.7	44.8	4.3	9.0
Green Ext Time (p_c), s	0.0	13.6	0.0	0.0	0.9	6.6	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	77.1
HCM 6th LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	19	368	65	71	28	423	1094	125	36	1133	46
Future Volume (veh/h)	29	19	368	65	71	28	423	1094	125	36	1133	46
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	32	21	400	71	77	30	460	1189	136	39	1232	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	47	273	665	123	198	77	490	2284	1015	52	1381	56
Arrive On Green	0.03	0.15	0.15	0.04	0.16	0.16	0.28	0.65	0.65	0.03	0.40	0.40
Sat Flow, veh/h	1767	1856	1556	3428	1267	494	1767	3526	1566	1767	3452	140
Grp Volume(v), veh/h	32	21	400	71	0	107	460	1189	136	39	629	653
Grp Sat Flow(s),veh/h/ln	1767	1856	1556	1714	0	1761	1767	1763	1566	1767	1763	1829
Q Serve(g_s), s	2.3	1.3	18.9	2.6	0.0	7.0	32.7	23.0	4.3	2.8	42.7	42.8
Cycle Q Clear(g_c), s	2.3	1.3	18.9	2.6	0.0	7.0	32.7	23.0	4.3	2.8	42.7	42.8
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	47	273	665	123	0	275	490	2284	1015	52	705	732
V/C Ratio(X)	0.68	0.08	0.60	0.58	0.00	0.39	0.94	0.52	0.13	0.75	0.89	0.89
Avail Cap(c_a), veh/h	73	273	665	136	0	275	571	2488	1106	100	775	804
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.0	47.3	28.7	61.0	0.0	48.7	45.4	12.0	8.7	61.9	36.0	36.0
Incr Delay (d2), s/veh	16.1	0.1	1.5	4.9	0.0	0.9	22.0	0.2	0.1	19.7	11.9	11.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.6	9.8	1.2	0.0	3.2	17.2	8.7	1.5	1.5	20.5	21.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.1	47.4	30.2	65.9	0.0	49.6	67.4	12.2	8.8	81.6	47.9	47.7
LnGrp LOS	E	D	C	E	A	D	E	B	A	F	D	D
Approach Vol, veh/h		453			178			1785			1321	
Approach Delay, s/veh		34.4			56.1			26.2			48.8	
Approach LOS		C			E			C			D	

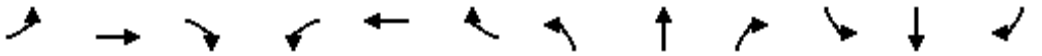
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.3	87.7	9.1	23.4	40.1	55.9	7.9	24.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.3	90.7	5.1	18.9	41.5	56.5	5.3	18.7
Max Q Clear Time (g_c+I1), s	4.8	25.0	4.6	20.9	34.7	44.8	4.3	9.0
Green Ext Time (p_c), s	0.0	13.6	0.0	0.0	0.9	6.6	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	36.6
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	34	501	90	43	32	288	983	63	13	1129	41
Future Volume (veh/h)	63	34	501	90	43	32	288	983	63	13	1129	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	68	37	545	98	47	35	313	1068	68	14	1227	45
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	87	451	380	141	232	173	338	1994	885	27	1350	49
Arrive On Green	0.05	0.24	0.24	0.04	0.24	0.24	0.19	0.57	0.57	0.02	0.39	0.39
Sat Flow, veh/h	1767	1856	1563	3428	985	733	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	68	37	545	98	0	82	313	1068	68	14	623	649
Grp Sat Flow(s),veh/h/ln	1767	1856	1563	1714	0	1718	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.1	2.1	32.5	3.8	0.0	5.1	23.2	25.2	2.6	1.1	44.6	44.7
Cycle Q Clear(g_c), s	5.1	2.1	32.5	3.8	0.0	5.1	23.2	25.2	2.6	1.1	44.6	44.7
Prop In Lane	1.00		1.00	1.00		0.43	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	87	451	380	141	0	404	338	1994	885	27	686	713
V/C Ratio(X)	0.78	0.08	1.43	0.69	0.00	0.20	0.93	0.54	0.08	0.52	0.91	0.91
Avail Cap(c_a), veh/h	159	451	380	141	0	404	377	2077	922	70	732	761
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.8	39.0	50.5	63.2	0.0	41.0	53.1	18.1	13.2	65.3	38.5	38.6
Incr Delay (d2), s/veh	14.2	0.1	209.5	13.7	0.0	0.2	26.9	0.2	0.0	14.8	14.7	14.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	1.0	34.8	1.9	0.0	2.2	12.8	10.2	0.9	0.6	21.9	22.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.0	39.1	260.1	76.9	0.0	41.2	80.0	18.3	13.2	80.1	53.2	52.9
LnGrp LOS	E	D	F	E	A	D	E	B	B	F	D	D
Approach Vol, veh/h		650			180			1449			1286	
Approach Delay, s/veh		228.3			60.7			31.4			53.4	
Approach LOS		F			E			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.5	80.0	10.0	37.0	30.1	56.5	11.1	35.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	78.7	5.5	32.5	28.5	55.5	12.0	26.0
Max Q Clear Time (g_c+I1), s	3.1	27.2	5.8	34.5	25.2	46.7	7.1	7.1
Green Ext Time (p_c), s	0.0	10.8	0.0	0.0	0.3	5.3	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	76.7
HCM 6th LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	34	501	90	43	32	288	983	63	13	1129	41
Future Volume (veh/h)	63	34	501	90	43	32	288	983	63	13	1129	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	68	37	545	98	47	35	313	1068	68	14	1227	45
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	87	451	681	141	232	173	338	1994	885	27	1350	49
Arrive On Green	0.05	0.24	0.24	0.04	0.24	0.24	0.19	0.57	0.57	0.02	0.39	0.39
Sat Flow, veh/h	1767	1856	1563	3428	985	733	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	68	37	545	98	0	82	313	1068	68	14	623	649
Grp Sat Flow(s),veh/h/ln	1767	1856	1563	1714	0	1718	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.1	2.1	32.5	3.8	0.0	5.1	23.2	25.2	2.6	1.1	44.6	44.7
Cycle Q Clear(g_c), s	5.1	2.1	32.5	3.8	0.0	5.1	23.2	25.2	2.6	1.1	44.6	44.7
Prop In Lane	1.00		1.00	1.00		0.43	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	87	451	681	141	0	404	338	1994	885	27	686	713
V/C Ratio(X)	0.78	0.08	0.80	0.69	0.00	0.20	0.93	0.54	0.08	0.52	0.91	0.91
Avail Cap(c_a), veh/h	159	451	681	141	0	404	377	2077	922	70	732	761
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	62.8	39.0	32.8	63.2	0.0	41.0	53.1	18.1	13.2	65.3	38.5	38.6
Incr Delay (d2), s/veh	14.2	0.1	6.8	13.7	0.0	0.2	26.9	0.2	0.0	14.8	14.7	14.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	1.0	16.4	1.9	0.0	2.2	12.8	10.2	0.9	0.6	21.9	22.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.0	39.1	39.5	76.9	0.0	41.2	80.0	18.3	13.2	80.1	53.2	52.9
LnGrp LOS	E	D	D	E	A	D	E	B	B	F	D	D
Approach Vol, veh/h		650			180			1449			1286	
Approach Delay, s/veh		43.4			60.7			31.4			53.4	
Approach LOS		D			E			C			D	

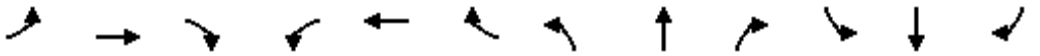
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.5	80.0	10.0	37.0	30.1	56.5	11.1	35.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	78.7	5.5	32.5	28.5	55.5	12.0	26.0
Max Q Clear Time (g_c+I1), s	3.1	27.2	5.8	34.5	25.2	46.7	7.1	7.1
Green Ext Time (p_c), s	0.0	10.8	0.0	0.0	0.3	5.3	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	43.0
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	21	416	69	80	30	478	1236	133	38	1280	52
Future Volume (veh/h)	33	21	416	69	80	30	478	1236	133	38	1280	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	36	23	452	75	87	33	520	1343	145	41	1391	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	48	248	208	116	180	68	525	2374	1055	53	1401	57
Arrive On Green	0.03	0.13	0.13	0.03	0.14	0.14	0.30	0.67	0.67	0.03	0.41	0.41
Sat Flow, veh/h	1767	1856	1555	3428	1278	485	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	36	23	452	75	0	120	520	1343	145	41	709	739
Grp Sat Flow(s),veh/h/ln	1767	1856	1555	1714	0	1762	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	2.8	1.5	18.7	3.0	0.0	8.8	40.9	28.1	4.7	3.2	55.9	56.2
Cycle Q Clear(g_c), s	2.8	1.5	18.7	3.0	0.0	8.8	40.9	28.1	4.7	3.2	55.9	56.2
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	48	248	208	116	0	248	525	2374	1055	53	716	743
V/C Ratio(X)	0.76	0.09	2.17	0.64	0.00	0.48	0.99	0.57	0.14	0.78	0.99	0.99
Avail Cap(c_a), veh/h	65	248	208	125	0	248	525	2374	1055	111	716	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.5	53.0	60.5	66.6	0.0	55.3	48.9	12.0	8.2	67.3	41.2	41.3
Incr Delay (d2), s/veh	28.5	0.2	542.4	9.8	0.0	1.5	36.6	0.3	0.1	21.3	31.3	31.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.7	38.8	1.5	0.0	4.0	23.3	10.7	1.6	1.8	30.2	31.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	96.0	53.2	602.9	76.4	0.0	56.7	85.5	12.3	8.3	88.6	72.5	72.9
LnGrp LOS	F	D	F	E	A	E	F	B	A	F	E	E
Approach Vol, veh/h		511			195			2008			1489	
Approach Delay, s/veh		542.5			64.3			31.0			73.2	
Approach LOS		F			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.7	98.5	9.2	23.2	46.0	61.2	8.3	24.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.8	89.4	5.1	18.7	41.5	56.7	5.1	18.7
Max Q Clear Time (g_c+I1), s	5.2	30.1	5.0	20.7	42.9	58.2	4.8	10.8
Green Ext Time (p_c), s	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	109.7
HCM 6th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	21	416	69	80	30	478	1236	133	38	1280	52
Future Volume (veh/h)	33	21	416	69	80	30	478	1236	133	38	1280	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	36	23	452	75	87	33	520	1343	145	41	1391	57
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	48	248	676	116	180	68	525	2374	1055	53	1401	57
Arrive On Green	0.03	0.13	0.13	0.03	0.14	0.14	0.30	0.67	0.67	0.03	0.41	0.41
Sat Flow, veh/h	1767	1856	1555	3428	1278	485	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	36	23	452	75	0	120	520	1343	145	41	709	739
Grp Sat Flow(s),veh/h/ln	1767	1856	1555	1714	0	1762	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	2.8	1.5	18.7	3.0	0.0	8.8	40.9	28.1	4.7	3.2	55.9	56.2
Cycle Q Clear(g_c), s	2.8	1.5	18.7	3.0	0.0	8.8	40.9	28.1	4.7	3.2	55.9	56.2
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	48	248	676	116	0	248	525	2374	1055	53	716	743
V/C Ratio(X)	0.76	0.09	0.67	0.64	0.00	0.48	0.99	0.57	0.14	0.78	0.99	0.99
Avail Cap(c_a), veh/h	65	248	676	125	0	248	525	2374	1055	111	716	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.5	53.0	31.8	66.6	0.0	55.3	48.9	12.0	8.2	67.3	41.2	41.3
Incr Delay (d2), s/veh	28.5	0.2	2.5	9.8	0.0	1.5	36.6	0.3	0.1	21.3	31.3	31.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.7	12.7	1.5	0.0	4.0	23.3	10.7	1.6	1.8	30.2	31.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	96.0	53.2	34.4	76.4	0.0	56.7	85.5	12.3	8.3	88.6	72.5	72.9
LnGrp LOS	F	D	C	E	A	E	F	B	A	F	E	E
Approach Vol, veh/h		511			195			2008			1489	
Approach Delay, s/veh		39.6			64.3			31.0			73.2	
Approach LOS		D			E			C			E	

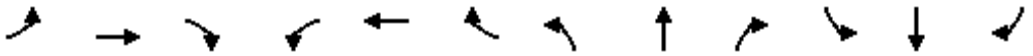
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.7	98.5	9.2	23.2	46.0	61.2	8.3	24.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.8	89.4	5.1	18.7	41.5	56.7	5.1	18.7
Max Q Clear Time (g_c+I1), s	5.2	30.1	5.0	20.7	42.9	58.2	4.8	10.8
Green Ext Time (p_c), s	0.0	16.6	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	48.5
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	37	545	91	46	33	313	1070	67	13	1229	45
Future Volume (veh/h)	69	37	545	91	46	33	313	1070	67	13	1229	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	75	40	592	99	50	36	340	1163	73	14	1336	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	95	431	363	125	215	155	360	2070	919	27	1381	51
Arrive On Green	0.05	0.23	0.23	0.04	0.22	0.22	0.20	0.59	0.59	0.02	0.40	0.40
Sat Flow, veh/h	1767	1856	1562	3428	1000	720	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	75	40	592	99	0	86	340	1163	73	14	678	707
Grp Sat Flow(s),veh/h/ln	1767	1856	1562	1714	0	1720	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.9	2.4	32.5	4.0	0.0	5.8	26.5	28.4	2.8	1.1	52.6	52.8
Cycle Q Clear(g_c), s	5.9	2.4	32.5	4.0	0.0	5.8	26.5	28.4	2.8	1.1	52.6	52.8
Prop In Lane	1.00		1.00	1.00		0.42	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	95	431	363	125	0	371	360	2070	919	27	702	730
V/C Ratio(X)	0.79	0.09	1.63	0.79	0.00	0.23	0.94	0.56	0.08	0.53	0.97	0.97
Avail Cap(c_a), veh/h	159	431	363	125	0	371	360	2070	919	67	705	733
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.4	42.1	53.6	66.8	0.0	45.3	54.8	17.8	12.5	68.3	41.1	41.2
Incr Delay (d2), s/veh	13.7	0.1	295.6	28.2	0.0	0.3	33.1	0.3	0.0	15.3	25.7	25.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	1.1	42.6	2.2	0.0	2.5	15.1	11.5	1.0	0.6	27.6	28.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	79.1	42.2	349.3	95.1	0.0	45.6	87.9	18.1	12.5	83.7	66.8	66.7
LnGrp LOS	E	D	F	F	A	D	F	B	B	F	E	E
Approach Vol, veh/h		707			185			1576			1399	
Approach Delay, s/veh		303.2			72.1			32.9			66.9	
Approach LOS		F			E			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.6	86.6	9.6	37.0	33.0	60.2	12.0	34.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	79.1	5.1	32.5	28.5	55.9	12.6	25.0
Max Q Clear Time (g_c+I1), s	3.1	30.4	6.0	34.5	28.5	54.8	7.9	7.8
Green Ext Time (p_c), s	0.0	12.2	0.0	0.0	0.0	0.9	0.1	0.3

Intersection Summary	
HCM 6th Ctrl Delay	96.5
HCM 6th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	69	37	545	91	46	33	313	1070	67	13	1229	45
Future Volume (veh/h)	69	37	545	91	46	33	313	1070	67	13	1229	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	75	40	592	99	50	36	340	1163	73	14	1336	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	95	431	684	125	215	155	360	2070	919	27	1381	51
Arrive On Green	0.05	0.23	0.23	0.04	0.22	0.22	0.20	0.59	0.59	0.02	0.40	0.40
Sat Flow, veh/h	1767	1856	1562	3428	1000	720	1767	3526	1566	1767	3467	127
Grp Volume(v), veh/h	75	40	592	99	0	86	340	1163	73	14	678	707
Grp Sat Flow(s),veh/h/ln	1767	1856	1562	1714	0	1720	1767	1763	1566	1767	1763	1832
Q Serve(g_s), s	5.9	2.4	32.5	4.0	0.0	5.8	26.5	28.4	2.8	1.1	52.6	52.8
Cycle Q Clear(g_c), s	5.9	2.4	32.5	4.0	0.0	5.8	26.5	28.4	2.8	1.1	52.6	52.8
Prop In Lane	1.00		1.00	1.00		0.42	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	95	431	684	125	0	371	360	2070	919	27	702	730
V/C Ratio(X)	0.79	0.09	0.87	0.79	0.00	0.23	0.94	0.56	0.08	0.53	0.97	0.97
Avail Cap(c_a), veh/h	159	431	684	125	0	371	360	2070	919	67	705	733
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	65.4	42.1	35.7	66.8	0.0	45.3	54.8	17.8	12.5	68.3	41.1	41.2
Incr Delay (d2), s/veh	13.7	0.1	11.3	28.2	0.0	0.3	33.1	0.3	0.0	15.3	25.7	25.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	1.1	20.2	2.2	0.0	2.5	15.1	11.5	1.0	0.6	27.6	28.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	79.1	42.2	47.0	95.1	0.0	45.6	87.9	18.1	12.5	83.7	66.8	66.7
LnGrp LOS	E	D	D	F	A	D	F	B	B	F	E	E
Approach Vol, veh/h		707			185			1576			1399	
Approach Delay, s/veh		50.1			72.1			32.9			66.9	
Approach LOS		D			E			C			E	

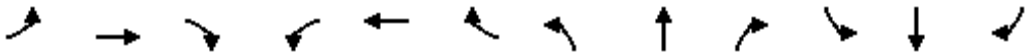
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.6	86.6	9.6	37.0	33.0	60.2	12.0	34.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.3	79.1	5.1	32.5	28.5	55.9	12.6	25.0
Max Q Clear Time (g_c+I1), s	3.1	30.4	6.0	34.5	28.5	54.8	7.9	7.8
Green Ext Time (p_c), s	0.0	12.2	0.0	0.0	0.0	0.9	0.1	0.3

Intersection Summary	
HCM 6th Ctrl Delay	50.2
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	23	453	72	87	32	520	1345	139	40	1393	57
Future Volume (veh/h)	36	23	453	72	87	32	520	1345	139	40	1393	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	39	25	492	78	95	35	565	1462	151	43	1514	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	50	239	200	120	175	64	512	2385	1060	55	1443	59
Arrive On Green	0.03	0.13	0.13	0.03	0.14	0.14	0.29	0.68	0.68	0.03	0.42	0.42
Sat Flow, veh/h	1767	1856	1554	3428	1289	475	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	39	25	492	78	0	130	565	1462	151	43	771	805
Grp Sat Flow(s),veh/h/ln	1767	1856	1554	1714	0	1764	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	3.1	1.7	18.0	3.1	0.0	9.6	40.5	32.1	4.8	3.4	58.5	58.5
Cycle Q Clear(g_c), s	3.1	1.7	18.0	3.1	0.0	9.6	40.5	32.1	4.8	3.4	58.5	58.5
Prop In Lane	1.00		1.00	1.00		0.27	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	50	239	200	120	0	239	512	2385	1060	55	737	765
V/C Ratio(X)	0.78	0.10	2.46	0.65	0.00	0.54	1.10	0.61	0.14	0.78	1.05	1.05
Avail Cap(c_a), veh/h	63	239	200	123	0	239	512	2385	1060	114	737	765
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.5	53.8	60.9	66.7	0.0	56.4	49.7	12.5	8.1	67.3	40.7	40.7
Incr Delay (d2), s/veh	37.3	0.2	672.0	11.2	0.0	2.5	71.4	0.5	0.1	20.4	45.9	47.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.8	44.4	1.6	0.0	4.5	27.9	12.3	1.6	1.8	34.4	35.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	104.8	54.0	732.9	77.9	0.0	59.0	121.1	13.0	8.2	87.6	86.6	87.8
LnGrp LOS	F	D	F	E	A	E	F	B	A	F	F	F
Approach Vol, veh/h		556			208			2178			1619	
Approach Delay, s/veh		658.4			66.1			40.7			87.2	
Approach LOS		F			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	99.1	9.4	22.5	45.0	63.0	8.5	23.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.6	90.0	5.0	18.0	40.5	58.5	5.0	18.0
Max Q Clear Time (g_c+I1), s	5.4	34.1	5.1	20.0	42.5	60.5	5.1	11.6
Green Ext Time (p_c), s	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	133.7
HCM 6th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	36	23	453	72	87	32	520	1345	139	40	1393	57
Future Volume (veh/h)	36	23	453	72	87	32	520	1345	139	40	1393	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856	1856
Adj Flow Rate, veh/h	39	25	492	78	95	35	565	1462	151	43	1514	62
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	3	3	3	3	3	3	3	3	3	3	3
Cap, veh/h	50	239	655	120	175	64	512	2385	1060	55	1443	59
Arrive On Green	0.03	0.13	0.13	0.03	0.14	0.14	0.29	0.68	0.68	0.03	0.42	0.42
Sat Flow, veh/h	1767	1856	1554	3428	1289	475	1767	3526	1567	1767	3451	141
Grp Volume(v), veh/h	39	25	492	78	0	130	565	1462	151	43	771	805
Grp Sat Flow(s),veh/h/ln	1767	1856	1554	1714	0	1764	1767	1763	1567	1767	1763	1829
Q Serve(g_s), s	3.1	1.7	18.0	3.1	0.0	9.6	40.5	32.1	4.8	3.4	58.5	58.5
Cycle Q Clear(g_c), s	3.1	1.7	18.0	3.1	0.0	9.6	40.5	32.1	4.8	3.4	58.5	58.5
Prop In Lane	1.00		1.00	1.00		0.27	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	50	239	655	120	0	239	512	2385	1060	55	737	765
V/C Ratio(X)	0.78	0.10	0.75	0.65	0.00	0.54	1.10	0.61	0.14	0.78	1.05	1.05
Avail Cap(c_a), veh/h	63	239	655	123	0	239	512	2385	1060	114	737	765
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	67.5	53.8	34.6	66.7	0.0	56.4	49.7	12.5	8.1	67.3	40.7	40.7
Incr Delay (d2), s/veh	37.3	0.2	4.8	11.2	0.0	2.5	71.4	0.5	0.1	20.4	45.9	47.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.8	15.0	1.6	0.0	4.5	27.9	12.3	1.6	1.8	34.4	35.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	104.8	54.0	39.4	77.9	0.0	59.0	121.1	13.0	8.2	87.6	86.6	87.8
LnGrp LOS	F	D	D	E	A	E	F	B	A	F	F	F
Approach Vol, veh/h		556			208			2178			1619	
Approach Delay, s/veh		44.7			66.1			40.7			87.2	
Approach LOS		D			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	99.1	9.4	22.5	45.0	63.0	8.5	23.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.0	90.0	5.0	18.0	40.5	58.5	5.0	18.0
Max Q Clear Time (g_c+I1), s	5.4	34.1	5.1	20.0	42.5	60.5	5.1	11.6
Green Ext Time (p_c), s	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.3

Intersection Summary	
HCM 6th Ctrl Delay	58.9
HCM 6th LOS	E

Abrams Associates
TRAFFIC ENGINEERING, INC.

October 16, 2023

Cesar Orozco
Planning and Development Services
City of Vallejo
555 Santa Clara Street
Vallejo, CA 94590

Re: Vehicle Miles Traveled Analysis for the RSC Vallejo Project at 5180 Sonoma Boulvard

This report presents the results of a Vehicle Miles Traveled (VMT) analysis of the proposed RSC Vallejo apartment project at 5180 Sonoma Boulevard in the City of Vallejo. The project would involve development of a 429 unit apartment complex. The project site has a 126,155 square foot commercial building that has been occupied by a Home Depot and by Wal-Mart in the past, but is currently vacant. **Figure 1** shows the location of the project and the surrounding roadway network. **Figure 2** shows the proposed site plan for the project.

VEHICLE MILES TRAVELED

One performance measure that can be used to quantify the transportation impacts of a project is vehicle miles traveled (VMT). This section presents an analysis of the extent of the VMT-related transportation impacts caused by the Project. It should be noted that the City of Vallejo has adopted CEQA thresholds for VMT in the City's latest Transportation Impact Analysis (TIA) Guidelines.[1] The Project is not located in a Transit Priority Area but, subject to City approval, is screened out from further VMT analysis because of the type of housing that is proposed (apartments/multi-family housing versus single family homes) and its location in a sufficiently low VMT generating area.

In Vallejo VMT is estimated using an area-wide travel demand model maintained by the Solano Transportation Authority (STA) that is known as the Solano-Napa Activity Based Travel Demand Model (SNABM). The SNABM model calculates VMT based on the number of vehicles multiplied by the typical distance traveled by each vehicle originating from or driving to a certain area. As with all models, the accuracy of the output depends on the level of detail in the model. The volume of traffic and distance traveled depends on mix of land use types, density, and location as well as the existing and planned transportation system, including availability of public transportation. A travel demand model attempts to properly represent these relationships when

[1] *City of Vallejo CEQA Transportation Impact Analysis Guidelines*, Fehr & Peers Associates, Walnut Creek, CA, October 2020.

FIGURE 1 | PROJECT LOCATION
VEHICLE MILES TRAVELED ANALYSIS
RSC Vallejo
City of Vallejo

Abrams Associates
TRAFFIC ENGINEERING, INC.

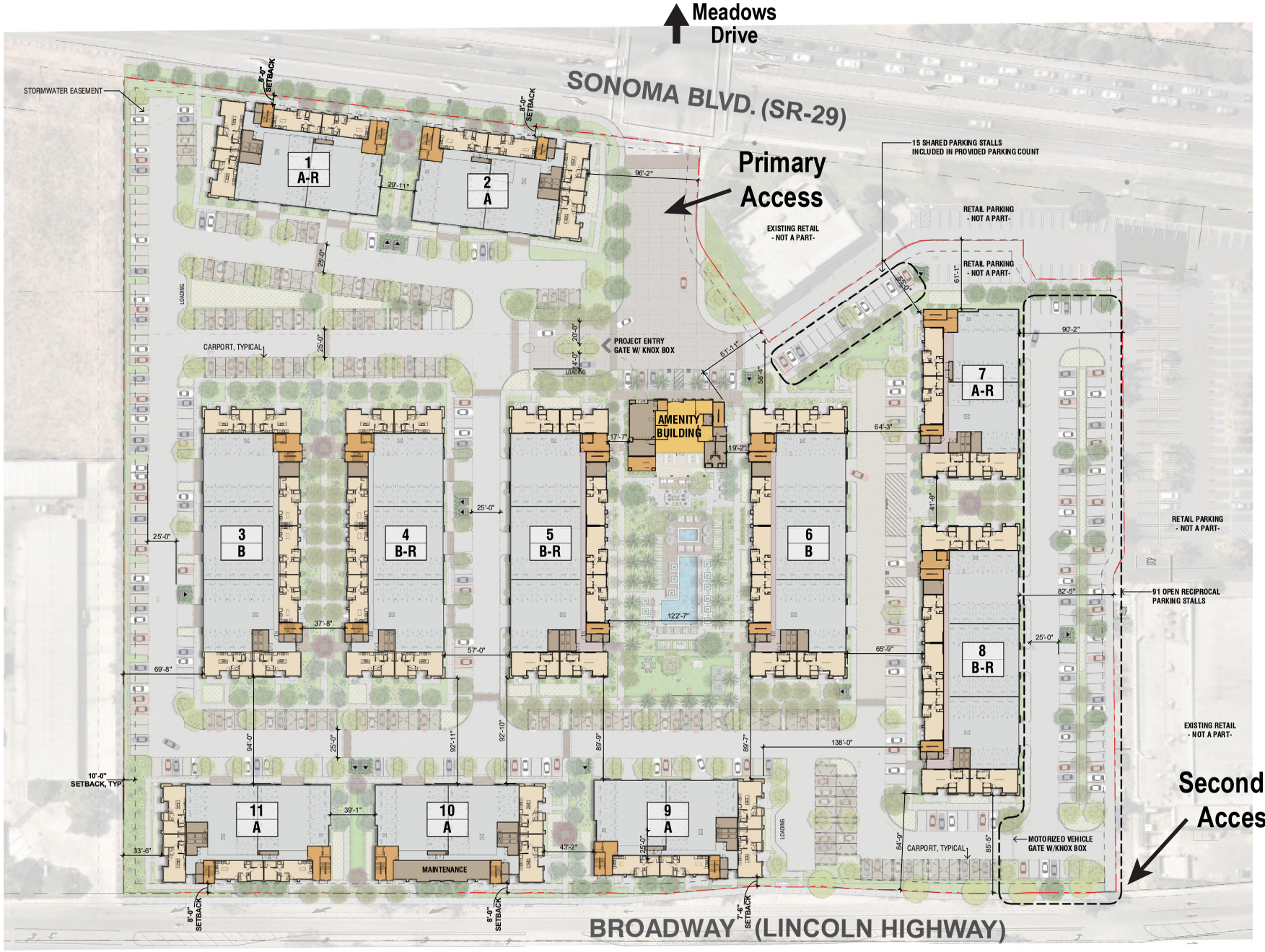


FIGURE 2 | SITE PLAN
VEHICLE MILES TRAVELED ANALYSIS
RSC Vallejo
City of Vallejo

Abrams Associates
TRAFFIC ENGINEERING, INC.

forecasting vehicle trips and VMT. The model divides areas within Vallejo jurisdiction into transportation analysis zones, or TAZs, which are used for transportation analysis and other planning purposes. The SNABM Model includes TAZs that vary in size from a few city blocks in some areas to much larger zones in lower density areas.

Project VMT Analysis - Based on the SNABM Model the City of Vallejo average VMT per resident is extiamted to be 26.0 miles. The residents of the proposed project would be expected to have similar VMT to existing within the TAZ and in other surrounding TAZ's with similar land uses. The VMT per resident estimated by the SNABM Model for the project area and the City of Vallejo would therefore be assumed represent the approximate VMT per employee that would be generated by the proposed project as well. The project site is located in TAZ 395. **Table 1** summarizes the existing VMT per resident for the project and provides a comparison to the City of Vallejo average VMT per resident.

TABLE 1
NEAR-TERM PLUS PROJECT VMT RESULTS

Scenario	***Project Average VMT Per Resident***	***VMT Impact Threshold*** [1]	***Impact?***
2023 Plus Project	**14.4 miles**	**26.0 miles**	**No**

NOTE: [1] *The existing plus project VMT impact threshold for residential projects is a VMT per resident that is no higher than the baseline citywide Residential VMT per resident.*

As seen in **Table 1**, the proposed project is forecast to have an average VMT of 14.4 miles. The subject TAZ (TAZ 395) is currently all commercial properties and does not currently have any residential uses. However, the TAZ has residential uses directly to the east and west and the average of the VMT per resident for those adjacent TAZ's is 15.0 miles, which is generally consistent with the project's TAZ. As per the City's Guidelines, projects located within a low-VMT generating area of the City (i.e. lower than citywide average levels) may be presumed to have a less than significant impact, absent substantial evidence to the contrary. Therefore, subject to City approval, the SNABM model data indicates the project should be screened out from further VMT analysis and would be considered to have a less than significant impact according to the City's TIA guidelines.

The project land use (multi-family housing) would not alter the existing built environment in such a way as to increase the rate or length of vehicle trips. In general, the proposed project has been found to be consistent with existing land uses in the area and would be expected to contribute VMT consistent with existing land uses in the area. The project would not be expected significantly alter travel patterns in the area. Extensive evidence indicates that multi-family housing has lower trip generation, parking demand, and trip lengths when compared to

single family homes. ITE surveys of trip generation for housing clearly indicate the proposed multi-family housing project would generate about half the daily trips (on a per unit basis) when compared to typical single family homes.[2] ITE surveys of parking demand for various housing types indicate that the parking demand for multi-family units is approximately one third of the typical parking demand of a single family home.[3] Lastly, a study on the typical trip lengths of multi-family units found the overall trip lengths were about 7 percent less than single family homes, with a slightly higher (8.3%) decrease in non-work trip lengths.[4] For context it is important to point out that more than two-thirds of the existing housing stock within the City of Valllejo are single family homes.[5] Therefore, subject to City approval, it can be concluded that increasing the number of multi-family units in a low-VMT generating area of Vallejo would not result in an average VMT per project resident that would be higher than the Citywide average.

It is our understanding the project can still only be screened out from further VMT analysis because it is also consistent with the Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS). Therefore, subject to City approval, due to the project's location in a low-VMT generating area of the City (i.e. lower than citywide average levels) the project can be screened out from further VMT analysis and is presumed to have a less than significant impact on VMT in the City.

Please don't hesitate to contact me if you have any questions or need additional information.

Sincerely,

Stephen C. Abrams
President, Abrams Associates
T.E. License No. 1852

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[2] *ITE Trip Generation, 11th Edition*, Institute of Transportation Engineers, Washington D.C, September, 2001.

[3] *ITE Parking Generation, 4th Edition*, Institute of Transportation Engineers, Washington D.C, September, 2010.

[4] *Travel Characteristics of Residents of Multi-Family Housing in the Inland Empire*, Leonard Transportation Center, California State University San Bernadino, San Bernadino, CA, August 31, 2010.

[5] *Vallejo Area Home Supply Charts*, www.towncharts.com, Data downloaded on April 8, 2022.

CITY OF VALLEJO DESIGN REVIEW BOARD

RESOLUTION NO. DRB 23-03

A RESOLUTION RECOMMENDING APPROVAL TO THE PLANNING COMMISSION FOR DESIGN REVIEW (DR21-0005), DEVELOPMENT REVIEW (DVR21-0021), AND LANDSCAPE REVIEW (LR23-0009) FOR 429 DWELLING UNITS MULTI-FAMILY COMPLEX AT 5180 SONOMA BOULEVARD (APN: 0067-150-280)

* *

I. GENERAL FINDINGS

WHEREAS, on August 29, 2017, the City Council adopted General Plan 2040; and

WHEREAS, on July 22, 2021, the City Council adopted a new Zoning Code and Zoning Map; and

WHEREAS, on December 21, 2021, Russell Square Consulting, Inc. submitted an application seeking a Development Review, Design Review Permit, and Landscape Review for the construction of a 429 dwelling unit multi-family complex ("Project") located at 5180 Sonoma Boulevard (the property); and

WHEREAS, the property has a General Plan 2040 land use designation of District – North Gateway; and

WHEREAS, the property is located in the Central Corridor Commercial Zoning District; and

WHEREAS, on April 21, 2022, the application for the Project was determined to be complete for processing; and

WHEREAS, on August 31, 2023, pursuant to Vallejo Municipal Code Section 16.602.08(A), notice of this hearing was published in the Times Herald and mailed to all active neighborhood groups and property owners within 500 feet of the subject property and electronically mailed to the members of the Design Review Board and to the applicant; and

WHEREAS, on October 12, 2023 at 7p.m., the City of Vallejo Design Review Board, after giving all public notices required by State law and the City of Vallejo Municipal Code, conducted a duly noticed public hearing; and

WHEREAS, the Design Review Board considered testimony and evidence, both written and oral, provided at the public hearing, as well as other documents contained in the record of proceedings relating to the Project, which are maintained in the offices of the City of Vallejo Planning Division; and

WHEREAS, based on evidence received in the staff report and at the public hearing, the Design Review Board makes the following factual findings:

III. FINDINGS RELEVANT TO THE APPROVAL OF THE DESIGN REVIEW PERMIT (VMC Section 16.604.03.B)

A. Is consistent with the purposes of this chapter, the design policies of the general plan and any applicable specific plan, any adopted applicable design guidelines.

Purposes of the Chapter

1. **Establish regulations for an objective process that applies urban design principles to ensure that new construction supports the best of the city's architectural traditions.**

   As proposed, the project meets the objective design standards called out in VMC Chapter 16.204 – Commercial Districts, as discussed in detail below.

2. **Encourage new structures that show creativity and imagination, add distinction, interest, and variety to the community, and are environmentally sustainable.**

   The project is visually interesting and will be constructed with a variety of high-quality building materials and painted with simple, bold colors. Vertical and horizontal façade breaks, building massing, and modulation have all been incorporated into the design of the building and will create distinction in the established neighborhood. The project will incorporate a fully electric proposal, provide electric vehicle chargers and solar panels to be environmentally sustainable. Additionally, the project will be designed to meet the California Building Code Title 24 (energy efficiency standards) and the Green Building Standards.

3. **Promote architectural and design excellence in new construction and discourage poor quality development.**

   The project will be comprised of a mixture of stucco, stone veneer, and horizontal siding and will be painted a Sherwin Williams Peppercorn, Gray Matter, and Pure White. The project details, colors, materials, and landscaping are integrated with one and another to create a visually consistent proposal. Overall, the project uses high-quality, long-lasting material resulting in quality development.

4. **Ensure that future development should:**
   a. **Reflect the values of the community.**
   b. **Enhance the surrounding environment.**
   c. **Visually harmonize with its surroundings and not unnecessarily obstruct scenic views; and**
   d. **Avoid nostalgic misrepresentations that may confuse the relationships among structures over time.**

   The project reflects the promotion of infill development that targets underutilized sites, which is a policy identified in the General Plan. It will enhance the surrounding environment by incorporating high-density residential development that will support nearby and future services and activities in the area. Due to its location, the project will not obstruct scenic views and due to its nature and design, nor will it confuse the relationships among structures over time.

5. **Ensure that decisions on housing development projects are based on objective design standards as required by the State Housing Accountability Act (Government Code Section 65589.5).**

   The Housing Accountability Act (HAA), California Government Code Section 65589.5(j), requires that when a proposed housing development complies with the applicable, objective general plan and zoning standards, but a local agency proposes to deny the project or approve it only if the density is reduced, the agency must base its decision on written findings supported by substantial evidence that:

1. The development would have a specific adverse impact on public health or safety unless disapproved, or approved at a lower density; and
2. There is no feasible method to satisfactorily mitigate or avoid the specific adverse impact, other than the disapproval, or approval at a lower density.

As described in Tables 3 and 4 of the staff report above, the project complies with the applicable, objective general plan and zoning standards. Therefore, the city may not deny the project or approve the project at a reduced density without basing its decision on the written findings under Section 65589.5(j), above.

6. **Provide for new landscaping to create a visually pleasing setting for structures on the site.**

   The project includes a total of 105,959 square feet of new drought tolerant landscaping throughout the site. A total of 43 new street trees, shrubs and ground cover will be planted to enhance the public realm within the subject site.

7. **Promote the protection and retention of landmark, native, and specimen trees and if feasible mature canopy trees and other significant landscaping of aesthetic and environmental value.**

   Not applicable; the existing trees on the subject site do not meet the minimum dimensions of 24-inches in diameter as measured six-inches from the ground and therefore are not considered significant or specimen trees.

8. **Ensure that the design, quality, and location of signs are consistent with the character and scale of the structures to which they are attached and are visually harmonious with surrounding development.**

   Not applicable; no signs being proposed with the project.

9. **Promote the conservation, enhancement, preservation, and protection of historic resources.**

   Not applicable; there are no historic resources near this project's location.

Design policies of the General Plan

The project site is designated as District – North Gateway (D-NG) on the General Plan Land Use Map. The General Plan 2040 D-NG designation intended to foster an integrated, pedestrian-oriented place with a mix of uses, such as retail, dining, entertainment, and lodging, that cater to both motorists passing through and surrounding neighborhoods. It also incorporates higher-density residential development that supports nearby services and activates the area.. As proposed, the project is consistent with the D-NG land use designation in that it incorporates high-density residential development that will support nearby and future services and activities in the area. Additionally, the project is also consistent with applicable General Plan 2040 policies and actions.

Adopted applicable design guidelines.

The subject site is not within an adopted specific plan and design guidelines have not been adopted for this location.

B. Is consistent with any planning are zoning approvals by the director or the planning commission.

The project is consistent with the CC zoning district in that it is a proposal of a new 429 dwelling unit multi-family residential project and meets all appropriate development standards of the Vallejo Municipal Code. Vallejo Municipal Code Section 16.604.01(K.1.c), states residential projects with 50 or more units is a Design Review Board recommendation to the Planning Commission. The final authority of this action is the Planning Commission.

C. Complies with any other relevant city policies or regulations.

Not applicable; there are no additional city policies or regulations that are applicable to the project.

NOW, THEREFORE, LET IT BE RESOLVED that the Design Review Board hereby recommends that the Planning Commission **APPROVE** Design Review (DR) 21-0005 and Landscape Review (LR) 22-0009 t based on the above findings.

PASSED AND ADOPTED at a regular meeting of the Design Review Board of the City of Vallejo, State of California, on the 12h day of October 2023 by the following vote:

AYES:	Chair Kennedy and Commissioners Eli and Lugtu
NOES:	None
ABSENT:	None
ABSTAIN:	None

_____
Matthew Kennedy, CHAIRPERSON
City of Vallejo Design Review Board

Attest:

_____
MARGARET KAVANAUGH-LYNCH, SECRETARY
City of Vallejo Design Review Board

RSC VALLEJO APARTMENTS

ENTITLEMENT SUBMITTAL

MARCH 21, 2021

RUSSELL SQUARE

TCA ARCHITECTS

MJS LANDSCAPE ARCHITECTURE

BKF

SALASOBRIEN
expect a difference

PROJECT DESCRIPTION

The project is located in the city of Vallejo, California at the intersection of Sonoma Boulevard and Meadows Drive. Project consists of eleven 4-story residential apartment buildings providing a total of 429 apartment homes. The proposed 698 parking spaces are provided on the ground level of each building, carports and open surface parking. Utilities and trash enclosures are contained within the individual buildings.

The project proposes an enhanced vehicular entry accessed from Sonoma Boulevard that opens up to a generous central amenity building and courtyard housing leasing offices, a club room, fitness, pool area and outdoor amenities.

Ground-floor units are accessed from attractively landscaped pedestrian paseos. Each building provides a welcoming lobby space where residents can access an elevator and stairway to travel to the upper levels.

PROJECT TEAM

DEVELOPER:

Russell Square Consulting
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Vancouver, Washington 98660
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www.russellsquareconsulting.com
blaise@russellsquareconsulting.com

ARCHITECT:

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wwang@tca-arch.com

LANDSCAPE:

MJS Landscape Architecture
507 30th Street
Newport Beach, CA 92663
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matt@mjs-la.com

CIVIL:

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San Jose, CA 95112
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jnguyen@bkf.com

LIGHTING:

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Phoenix, AZ 85014
Contact: Victor Becerra
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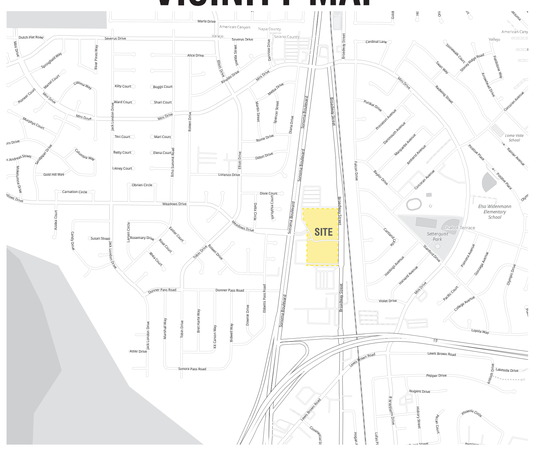
www.salasobrien.com
victor.becerra@salasobrien.com

VICINITY MAP



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PROJECT DATA

SITE INFORMATION	
ASSESSOR PARCEL #	0067-150-280
ADDRESS	5180 Sonoma Boulevard
SITE AREA	548,856 SF
	12.60 AC
TOTAL BUILDING AREA	635,349 SF
TOTAL LANDSCAPE AREA	105,959 SF
LOT COVERAGE	31%

DEVELOPMENT PARAMETERS		PERMITTED/REQUIRED	PROPOSED
ZONING	NORTHERN GATEWAY OPPORTUNITY AREA CENTRAL CORRIDOR COMMERCIAL		
SETBACKS	FRONT	0'-8'	0'-8'
	INTERIOR SIDE	5' FOR FIRST 2 STORIES, 10' ABOVE	5' FOR FIRST 2 STORIES, 10' ABOVE
	REAR	10'	10'
MAX. BLDG HEIGHT	(FT / STORIES)	— / 8	— / 8
NUMBER OF UNITS	(MAX)	630	429
DENSITY	(MIN/MAX)	15 / 50 DU/AC	34 DU/AC
REQ. GROUND FLOOR HT		12'	TBD

UNIT SUMMARY

UNIT TYPE	BALCONY AVG. SF*	Average SF*	Total # Units	Unit Mix	Total Net Rent.
1 Bedroom:					
A1	60	767	25		19,175
A2	62	784	81		63,504
A3	65	820	96		78,720
A4	60	854	32		27,328
SUBTOTAL		807	234	55%	188,727 SF
2 Bedrooms:					
B1	62	1,063	18		19,134
B2	74	1,086	18		19,548
B3	62	1,196	48		57,408
B4	86	1,221	15		18,315
B5	75	1,237	33		40,821
B6	62	1,328	33		43,824
SUBTOTAL		1,206	165	38%	199,050 SF
3 Bedrooms:					
C1	79	1,637	30		49,110
SUBTOTAL		1,637	30	7%	49,110 SF
TOTAL		1018	429		436,887 SF

* Square footage is taken from centerline of parti walls and outside of exterior walls, excluding all decks

**Unit plans are conceptual and subject to change including, but not limited to square footage.

BUILDING UNIT MIX

BUILDING TYPE	QTY IN PROJECT	UNIT TYPE	UNIT NRSF	QTY PER BLDG	BLDG NRSF	Project TOTAL
BUILDING A	6	A1	767	2*	1534	10
		A2	784	6	4704	36
		A3	820	6	4920	36
		A4	854	2	1708	12
		SUBTOTAL		16	12,866 SF	94
		B1	1,063	3	3189	18
		B2	1,086	3	3258	18
		B3	1,196	3	3588	18
		B5	1,237	3	3711	18
		B6	1,328	3	3984	18
		SUBTOTAL		15	17,730 SF	90
		BLDG TOTAL		31	30,596 SF	184
BUILDING B	5	A1	767	3	2,301	15
		A2	784	9	7,056	45
		A3	820	12	9,840	60
		A4	854	4	3,416	20
		SUBTOTAL		28	22,613 SF	140
		B3	1,196	6	7176	30
		B4	1,221	3	3663	15
		B5	1,237	3	3711	15
		B6	1,328	3	3984	15
		SUBTOTAL		15	18,534 SF	75
		C1	1,637	6	9822	30
		SUBTOTAL		6	9,822 SF	30
		BLDG TOTAL		49	50,969 SF	245

* Two Units removed at BLDG No. 10 for maintenance room — TOTAL UNITS 429

BUILDING SUMMARY

BUILDING TYPE	BLDG NUMBERS	QTY IN PROJECT	UNITS PER BUILDING	TOTAL UNITS PER BLDG TYPE	NRSF PER BUILDING	*GROSS AREA PER BUILDING	NRSF PROJECT TOTAL	PROJECT TOTAL BUILDING AREA
BUILDING A	1, 2, 7, 9, 10, 11	6	31	184	30,596 SF	44,846 SF	182,042*	269,076 SF
BUILDING B	3, 4, 5, 6, 8,	5	49	245	50,969 SF	71,772 SF	254,845 SF	358,860 SF
TOTAL		11		429			436,887 SF	627,936 SF

*Maintenance room at BLDG No. 10 excluded from NRSF
**Floor area is calculated per the city of Vallejo zoning code section 16.104 to be the sum of the gross horizontal area of all floors of a building measured from the interior face of the exterior walls, excluding stairways and elevator shafts (except at ground level), and unenclosed balconies, mechanical and maintenance rooms

PARKING SUMMARY

REQUIRED PARKING

# UNITS	Ratio	Total
429	1.0	429
RESIDENTIAL REQ.	1.0	429

ACCESSILBE PARKING

REQUIRED

	RATIO		TOTAL PARK'G	TOTAL REQ.
Assigned	2%	X	648	13
Van Accessible	(9'x18')			2
Standard Accessible	(9'x18')			11
SUBTOTAL				13
Unassigned	5%	X	81	5
Van Accessible	(9'x18')			1
Standard Accessible	(9'x18')			4
SUBTOTAL				5
TOTAL				18

EV CHARGING STALLS

REQUIRED

RATIO		TOTAL PARK'G	TOTAL REQ.
10%	X	698	70

PARKING SUMMARY

PROVIDED PARKING

Covered			
Garage	9'-0" x 18'-0"		265
Carport	9'-0" x 18'-0"		145
Accessible Van	9'-0" x 18'-0"		2
Accessible	9'-0" x 18'-0"		10
SUBTOTAL			422
Open			
Standard	9'-0" x 18'-0"		107
EV	9'-0" x 18'-0"		72
Accessible Van	9'-0" x 18'-0"		1
Accessible	9'-0" x 18'-0"		5
Reciprocal	9'-0" x 18'-0"		91
SUBTOTAL			276
TOTAL			698
			1.63 RATIO

BIKE PARKING

REQUIRED

Short Term

Units	Ratio	Total
429	1/20	21
	+	1*
		22

*1 stall based required per section 16.508.12

Long Term

Units	Ratio	Total
429	1.0	429
		429

PROVIDED

Short Term	22
Long Term	429

AMENITY BUILDING AREA SUMMARY

LEVEL 1	3,883 SF
Leasing Offices, mail room, pool restrooms and equipment	
LEVEL 2	3,530 SF
Clubroom and Fitness	
TOTAL	7,413 SF

OPEN SPACE SUMMARY

Required		RATIO	UNITS	TOTAL
Common		200 SF/UNIT	429	85,800 SF
Private		60 SF/UNIT	429	25,740 SF
Provided				**TOTAL**
Common				87,300 SF
*Private				28,287 SF

*Project average private open space provide. Private open space to be minimum of 60 SF. Refer to Unit Summary for unit specific avg. areas.

GOVERNING CODES

2019 CBC, 2019 CRC, 2019 CA Mechanical Code, 2019 CA Plumbing Code, 2019 CA Electrical Code, 2019 CA Energy Code, 2019 CALGreen,
City of Vallejo Zoning Code

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

VIEW OF PROJECT ENTRY

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VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

VIEW OF POOL COURTYARD AND PASEO

1) VIEW FROM SOUTHWEST

2) VIEW FROM WEST

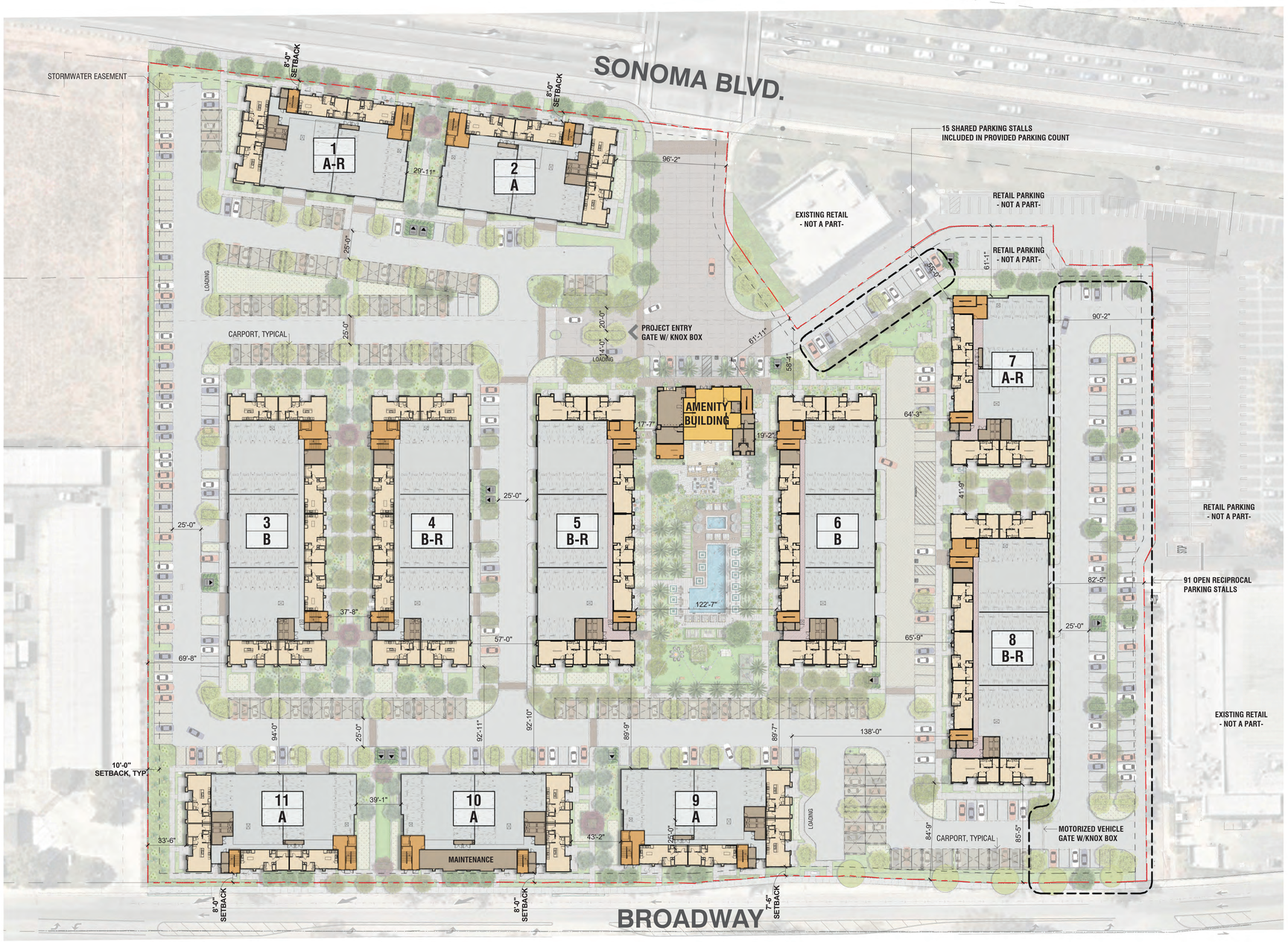
3) VIEW FROM NORTHWEST

4) VIEW FROM SOUTHEAST

5) VIEW FROM EAST

6) VIEW FROM SOUTHEAST

KEY PLAN



BUILDING SUMMARY

BUILDING TYPE	BLDG NUMBERS	QTY IN PROJECT	UNITS PER BUILDING	TOTAL UNITS PER BLDG TYPE	NRSF PER BUILDING	*GROSS AREA PER BUILDING	NRSF PROJECT TOTAL	PROJECT TOTAL BUILDING AREA
BUILDING A	1, 2, 7, 9, 10, 11	6	31	184	30,596 SF	44,846 SF	182,042*	269,076 SF
BUILDING B	3, 4, 5, 6, 8,	5	49	245	50,969 SF	71,772 SF	254,845 SF	358,860 SF
TOTAL		11		429			436,887 SF	627,936 SF

*Maintenance room at BLDG No. 10 excluded from NRSF

**Floor area is calculated per the city of Vallejo zoning code section 16.104 to be the sum of the gross horizontal area of all floors of a building measured from the interior face of the exterior walls, excluding stairways and elevator shafts (except at ground level), and unenclosed balconies, mechanical and maintenance rooms

BUILDING UNIT MIX

BUILDING TYPE	QTY IN PROJECT	UNIT TYPE	UNIT NRSF	QTY PER BLDG	BLDG NRSF	Project TOTAL
BUILDING A	6	A1	767	2*	1534	10
		A2	784	6	4704	36
		A3	820	6	4920	36
		A4	854	2	1708	12
		SUBTOTAL		16	12,866 SF	94
		B1	1,063	3	3189	18
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		B3	1,196	3	3588	18
		B5	1,237	3	3711	18
		B6	1,328	3	3984	18
		SUBTOTAL		15	17,730 SF	90
		BLDG TOTAL		31	30,596 SF	184
BUILDING B	5	A1	767	3	2,301	15
		A2	784	9	7,056	45
		A3	820	12	9,840	60
		A4	854	4	3,416	20
		SUBTOTAL		28	22,613 SF	140
		B3	1,196	6	7176	30
		B4	1,221	3	3663	15
		B5	1,237	3	3711	15
		B6	1,328	3	3984	15
		SUBTOTAL		15	18,534 SF	75
		C1	1,637	6	9822	30

PARKING SUMMARY

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TOTAL				18

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TOTAL		698
		1.63 RATIO

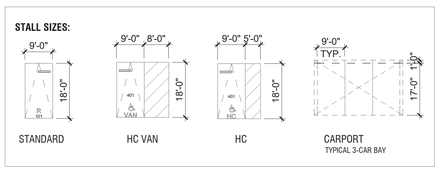
LEGEND

X / X-R — BUILDING NUMBER

INDICATES REVERSE BUILDING BUILDING TYPE

PARKING STALL LEGEND

STALL SIZES:



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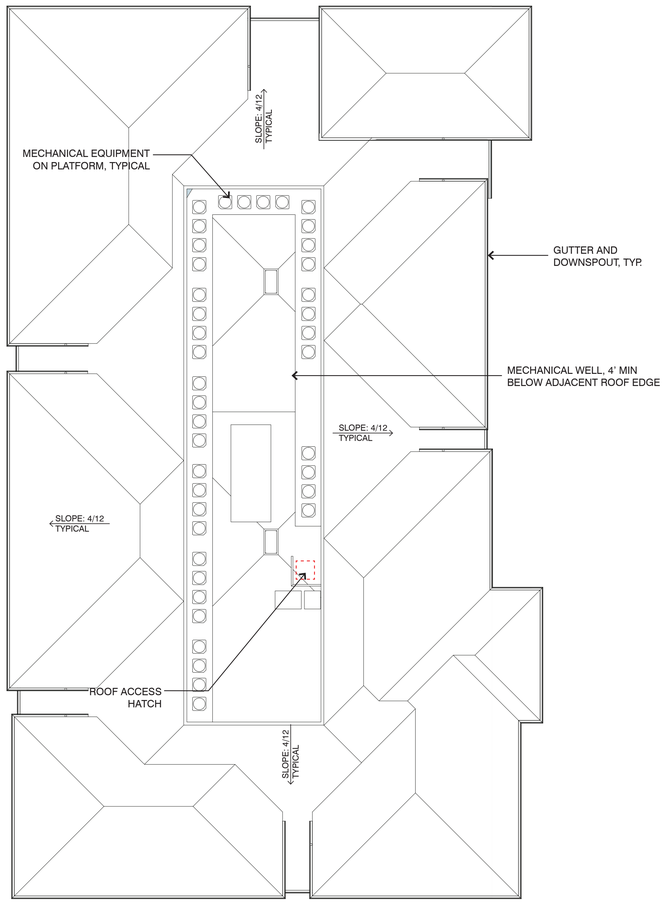
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

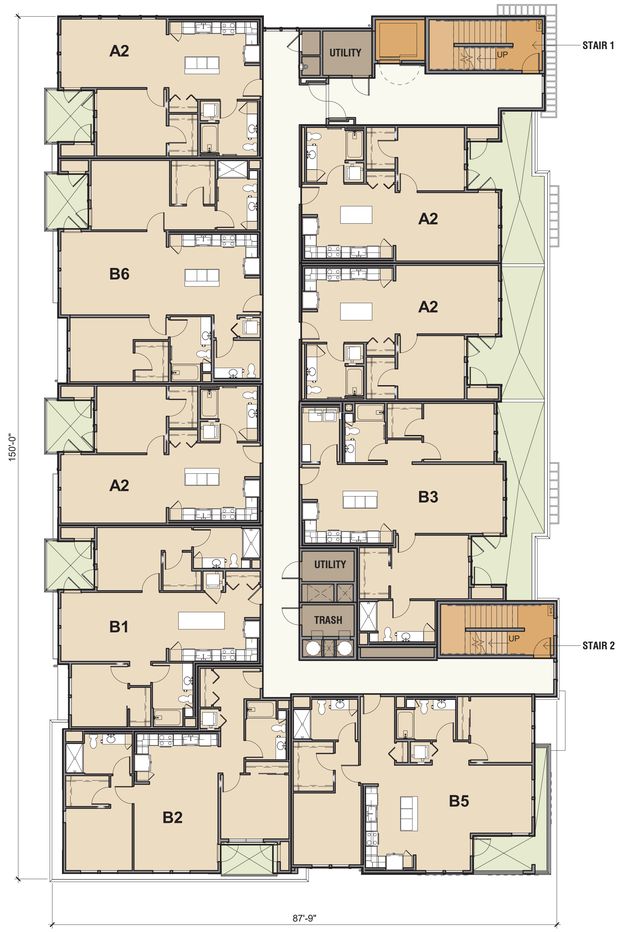
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

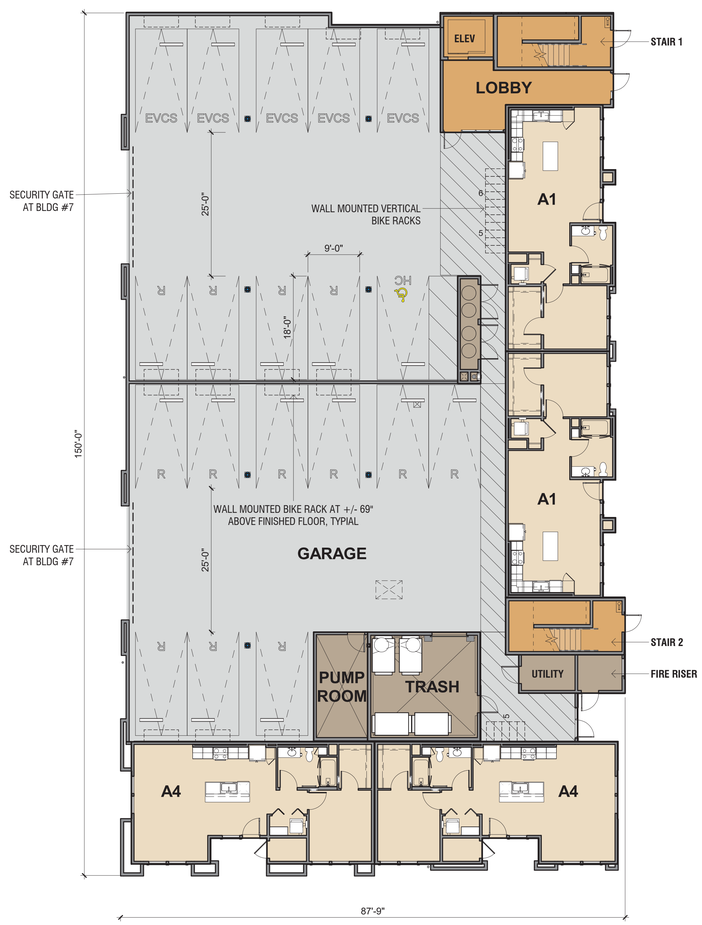
0' 40' 80' 160'



ROOF PLAN



LEVELS 2-4



LEVEL 1
29 GARAGE STALLS

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

BUILDING TYPE A (BLDG NO. 1, 2, 7, 9, 10, 11)
- FLOOR PLANS -

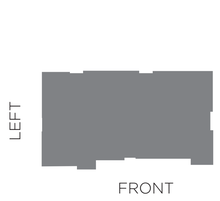
FRONT

LEFT

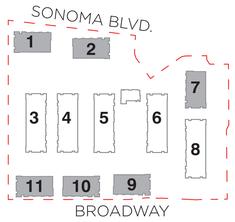
PERSPECTIVE

MATERIAL LEGEND

ST-1	STUCCO
SV-1	STONE VENEER
S-1	SMOOTH HORIZONTAL LAP SIDING
S-2	SMOOTH REVEAL PANEL
RM-1	METAL RAILING
A-1	METAL AWNING
W-1	VINYL WINDOW
R-1	ASPHALT SHINGLE ROOFING
R-2	STANDING SEAM METAL ROOFING



ELEVATION KEY MAP



SITE KEY MAP

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

BUILDING TYPE B (BLDG NO. 1, 2, 7, 9, 10, 11)
- ELEVATIONS -

A-1.2

REAR

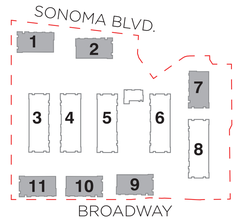
RIGHT

PERSPECTIVE

MATERIAL LEGEND

ST-1	STUCCO
SV-1	STONE VENEER
S-1	SMOOTH HORIZONTAL LAP SIDING
S-2	SMOOTH REVEAL PANEL
RM-1	METAL RAILING
A-1	METAL AWNING
W-1	VINYL WINDOW
R-1	ASPHALT SHINGLE ROOFING
R-2	STANDING SEAM METAL ROOFING

KEY MAP



SITE KEY MAP

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

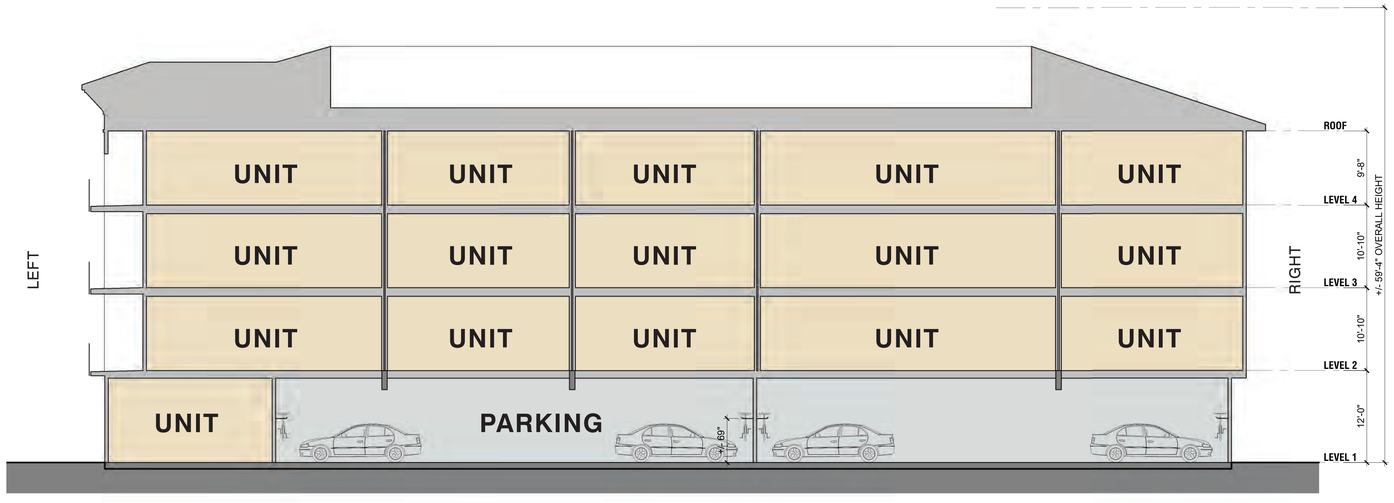
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

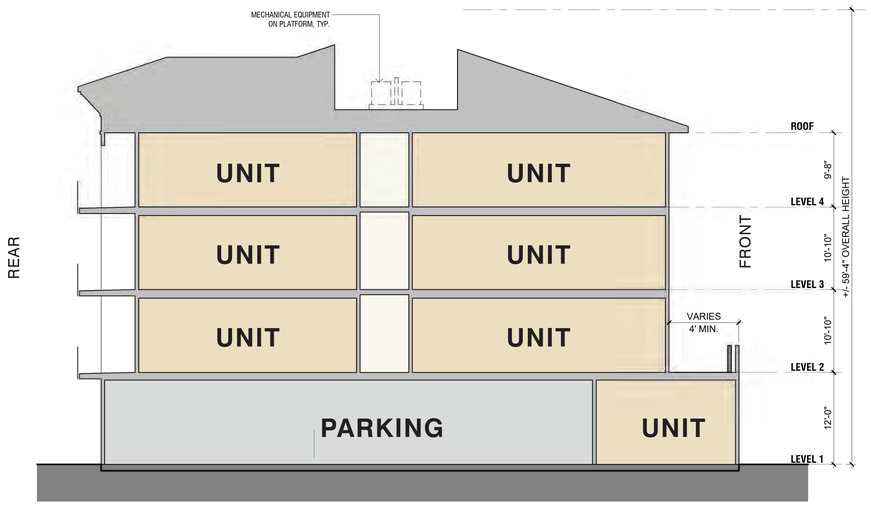
0' 8' 16' 32'

BUILDING TYPE A (BLDG NO. 1, 2, 7, 9, 10, 11)
- ELEVATIONS -

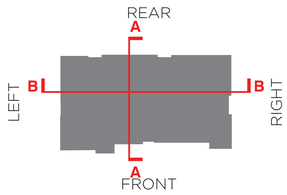
A-1.3



SECTION B



SECTION A



KEY MAP

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

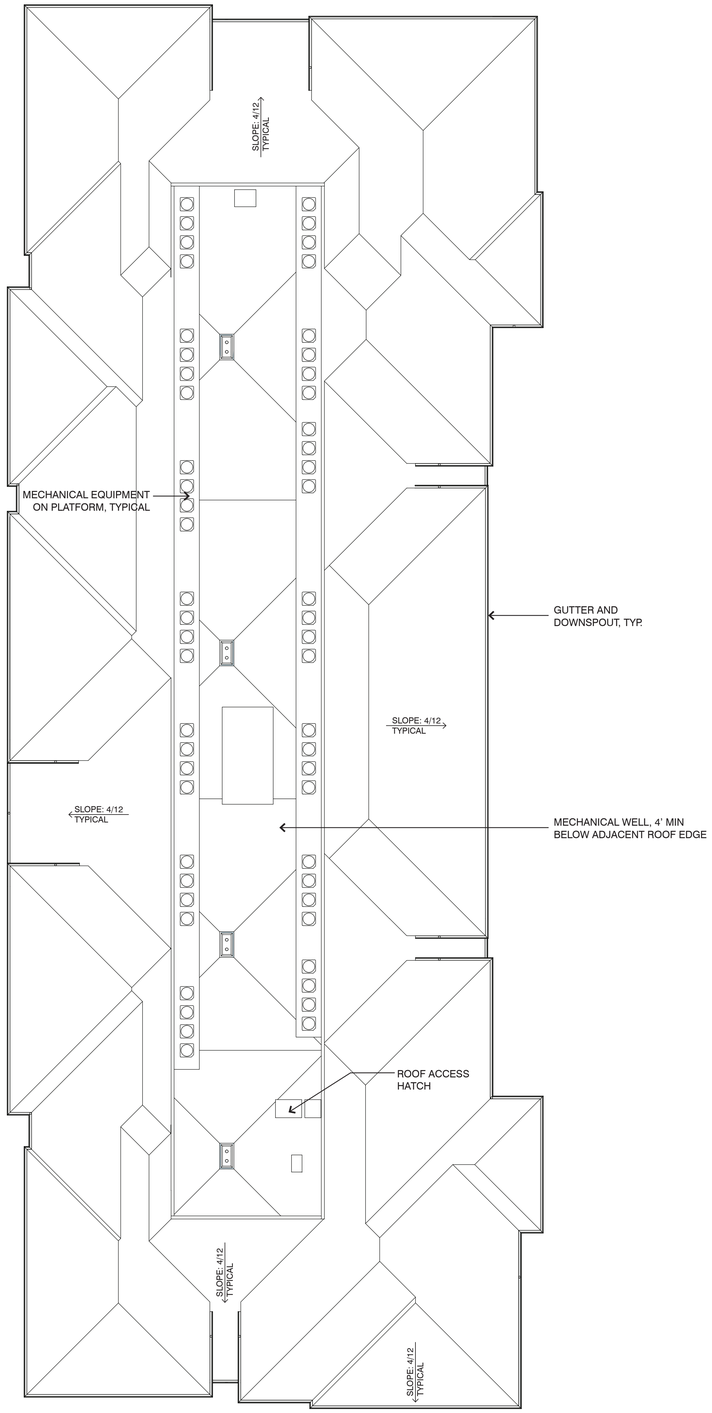
TCA ARCHITECTS

RSC VALLEJO

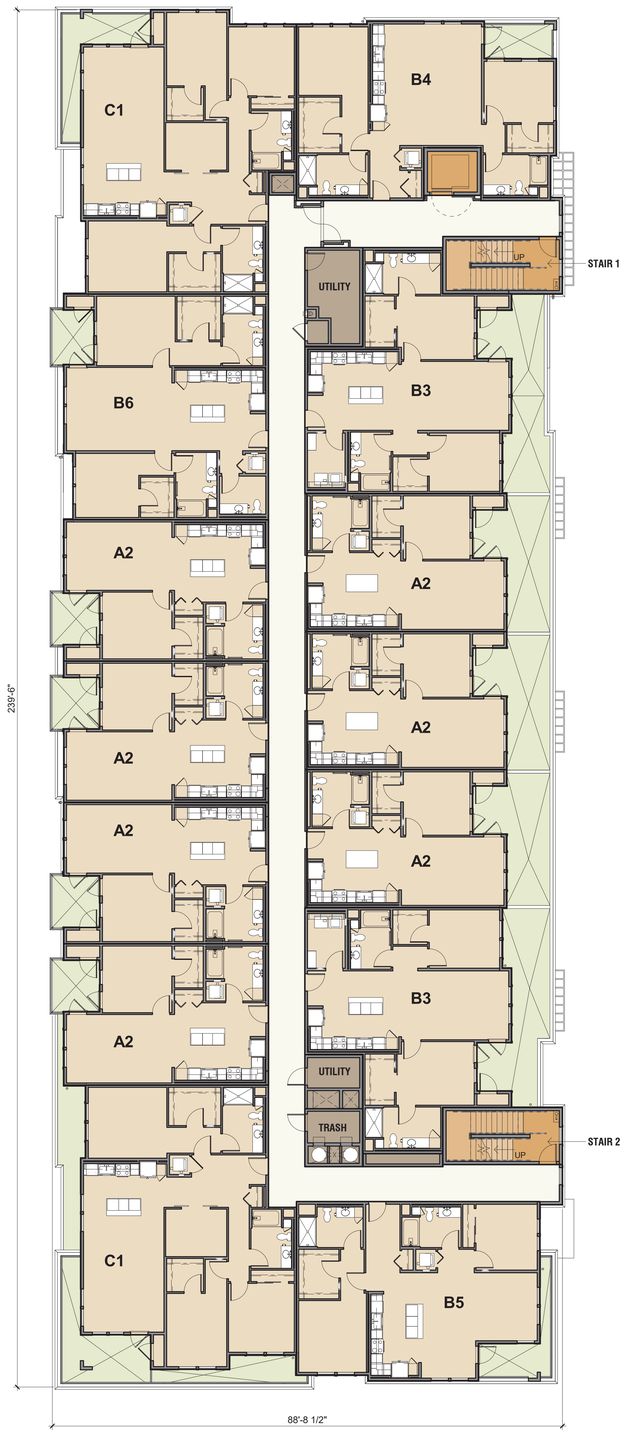
SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

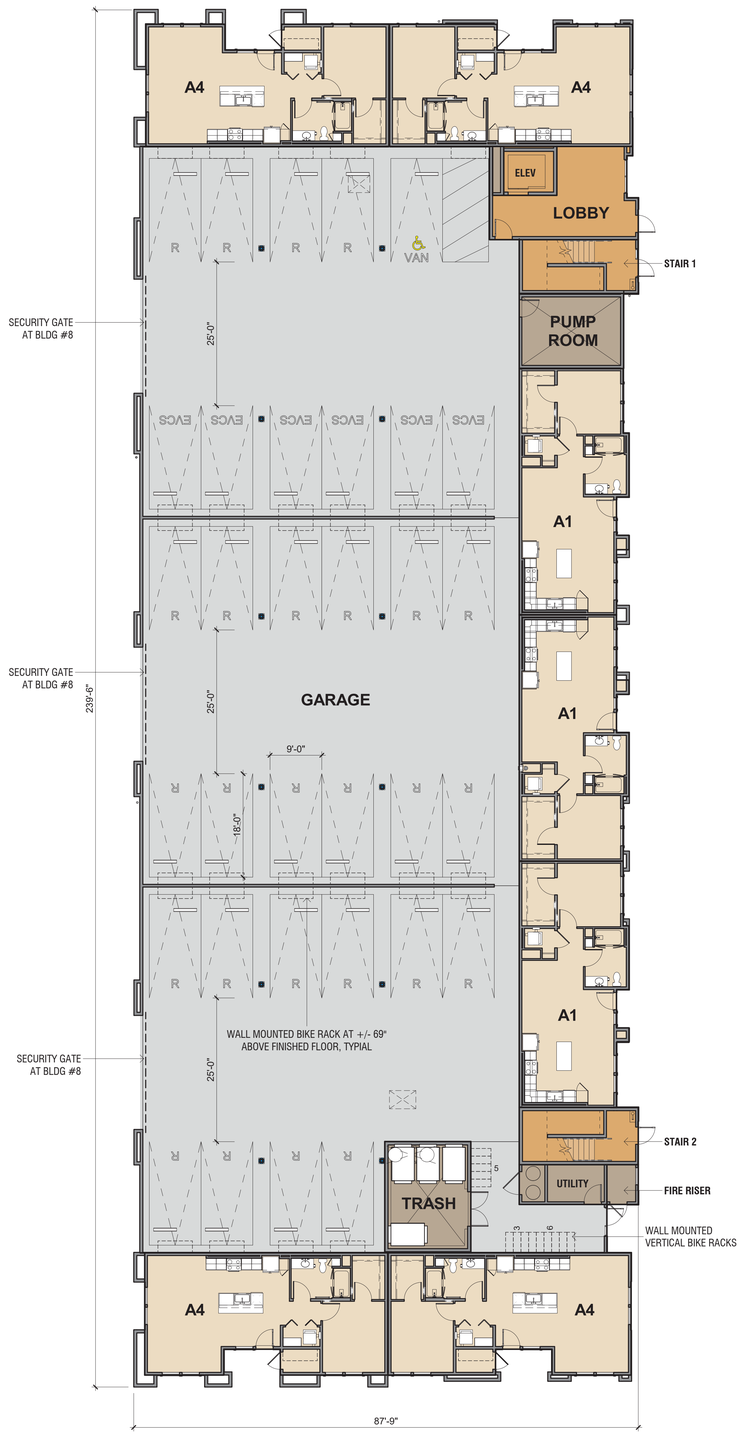
BUILDING TYPE A (BLDG NO. 1, 2, 7, 9, 10, 11)
- SECTIONS -



ROOF PLAN



LEVELS 2-4



LEVEL 1
33 GARAGE STALLS

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS | RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

BUILDING TYPE B (BLDG NO. 3, 4, 5, 6, 8)
- FLOOR PLANS -

A-2.1

FRONT

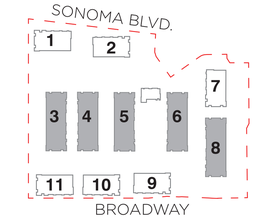
LEFT

PERSPECTIVE

MATERIAL LEGEND

ST-1	STUCCO
SV-1	STONE VENEER
S-1	SMOOTH HORIZONTAL LAP SIDING
S-2	SMOOTH REVEAL PANEL
RM-1	METAL RAILING
A-1	METAL AWNING
W-1	VINYL WINDOW
R-1	ASPHALT SHINGLE ROOFING
R-2	STANDING SEAM METAL ROOFING

ELEVATIONS KEY MAP



SITE KEY MAP

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

BUILDING TYPE B (BLDG NO. 3, 4, 5, 6, 8)
- ELEVATIONS -

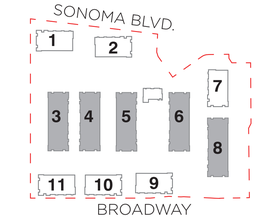
A-2.2

REAR

MATERIAL LEGEND

ST-1	STUCCO
SV-1	STONE VENEER
S-1	SMOOTH HORIZONTAL LAP SIDING
S-2	SMOOTH REVEAL PANEL
RM-1	METAL RAILING
A-1	METAL AWNING
W-1	VINYL WINDOW
R-1	ASPHALT SHINGLE ROOFING
R-2	STANDING SEAM METAL ROOFING

ELEVATIONS KEY MAP



SITE KEY MAP

RIGHT

PERSPECTIVE

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

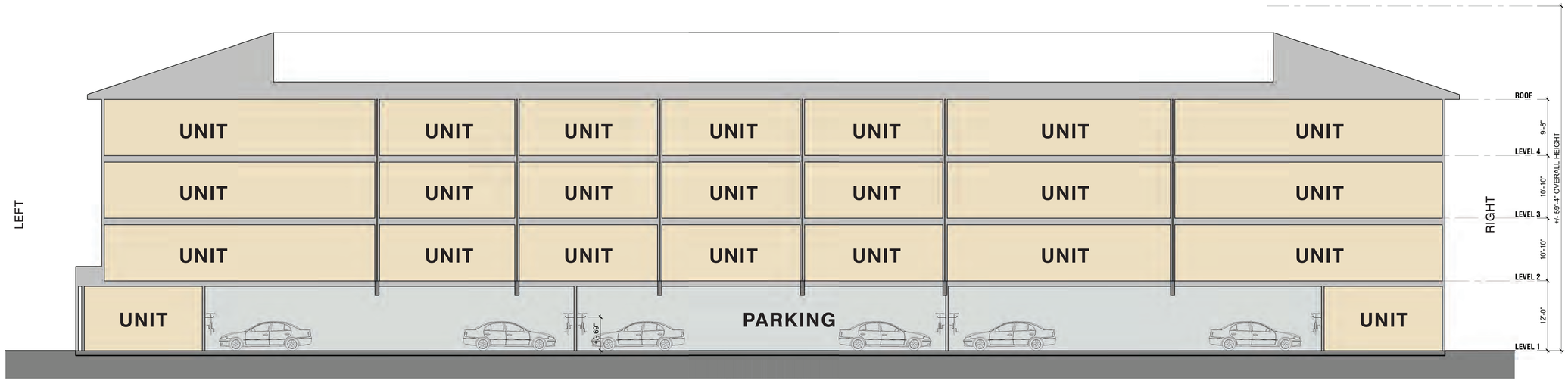
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

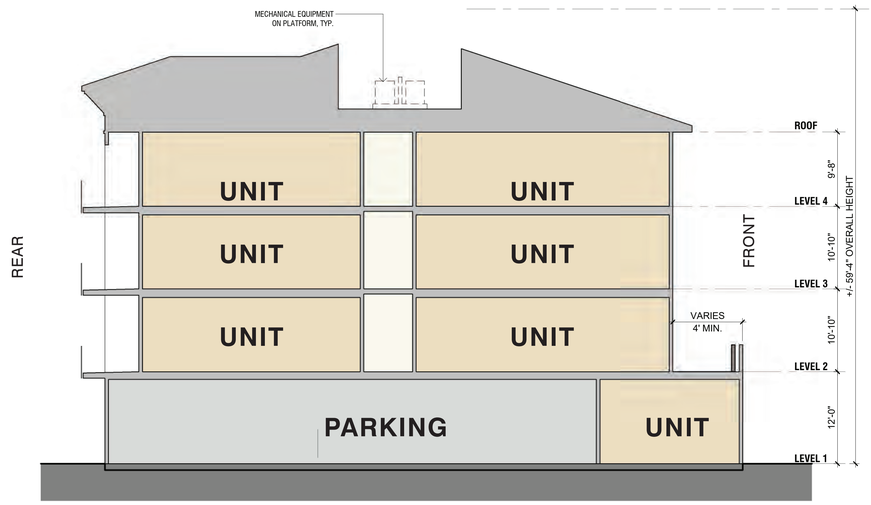
0' 8' 16' 32'

BUILDING TYPE B (BLDG NO. 3, 4, 5, 6, 8)
- ELEVATIONS -

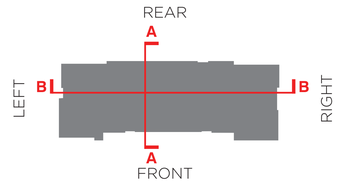
A-2.3



SECTION B



SECTION A



KEY MAP

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

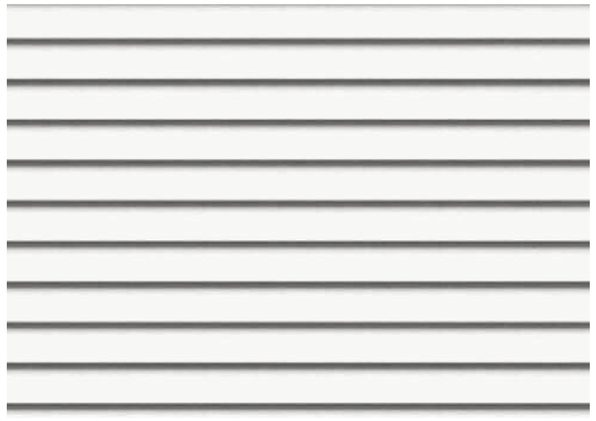
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

BUILDING TYPE B (BLDG NO. 3, 4, 5, 6, 8)
- SECTIONS -

STONE VENEER **SV-1**
CHOPLEDGE CREATIVE MINES LIGHTHOUSE OR SIM.



CEMENTITIOUS LAP SIDING **S-1**
HARDIE PLANK SMOOTH SIDING OR SIM.

CEMENTITIOUS REVEAL PANEL **S-2**
HARDIE PANEL SMOOTH REVEAL PANEL OR SIM.

STANDING SEAM METAL ROOFING **R-2**
METALSALES VERTICAL SEAM OR SIM.

ASPHALT SHINGLE ROOFING **R-1**
GAF TIMBERLINE CHARCOAL OR SIM.

EXTERIOR STUCCO **ST-1**
20/30 SAND FINISH

MATERIALS

*NOTE IMAGES ARE CONCEPTUAL AND REPRESENTATIVE OF DESIGN INTENT ONLY

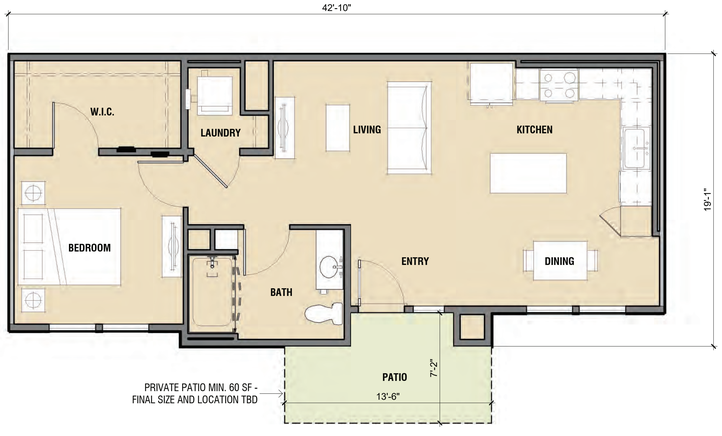
PEPPERCORN SW 7674 OR SIM.

GRAY MAATTERS SW 7066 OR SIM.

PURE WHITE SW 7005 OR SIM.

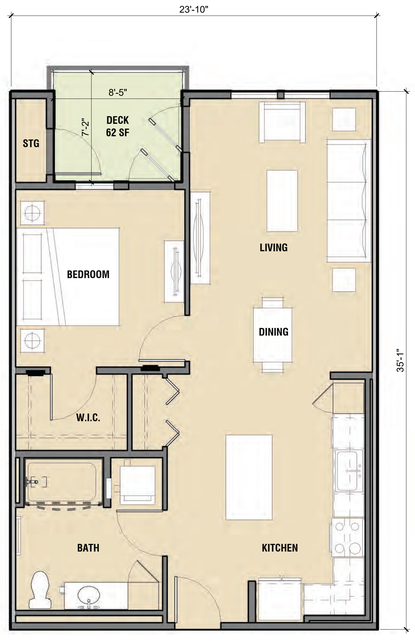
COLORS

*NOTE DIGITAL COLORS MAY NOT BE ACCURATELY REPRESENT OF REAL WORLD COLORS



UNIT A1

767 SF

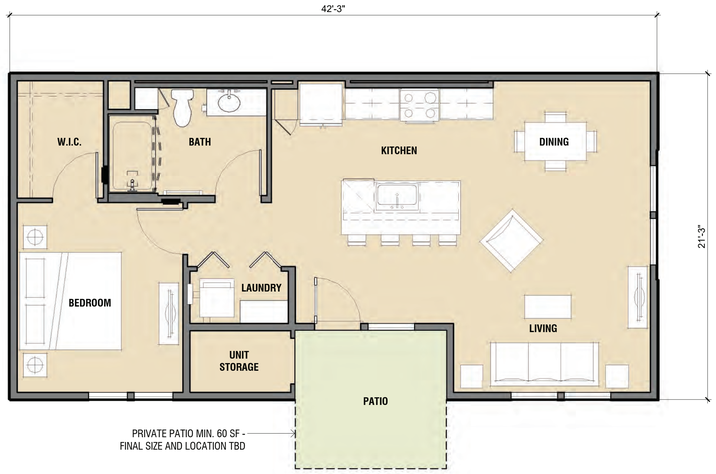


UNIT A2

784 SF

UNIT A3

820 SF



UNIT A4

954 SF

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 4' 8' 16'

ONE BEDROOM UNITS

UNIT B1

1,063 SF

UNIT B2

1,086 SF

UNIT B3

1,196 SF

UNIT B4

1,221 SF

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

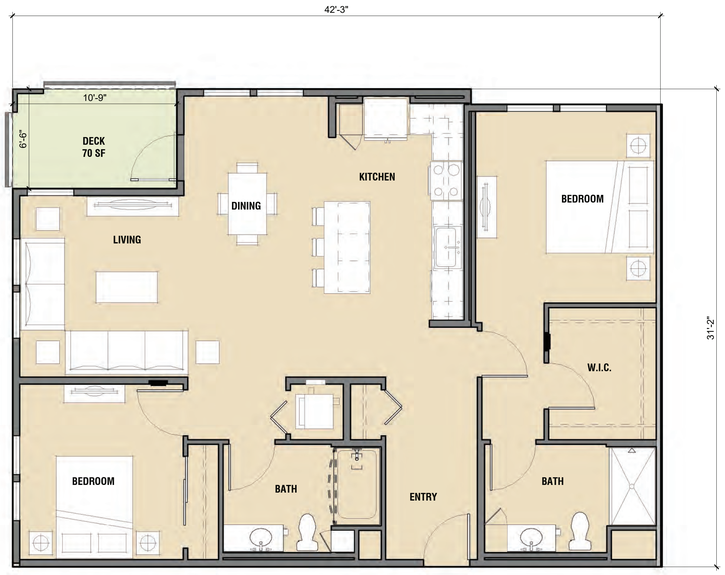
TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 4' 8' 16'

TWO BEDROOM UNIT PLANS



UNIT B5

1,237 SF

UNIT B6

1,328 SF

UNIT C1

1,637 SF

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

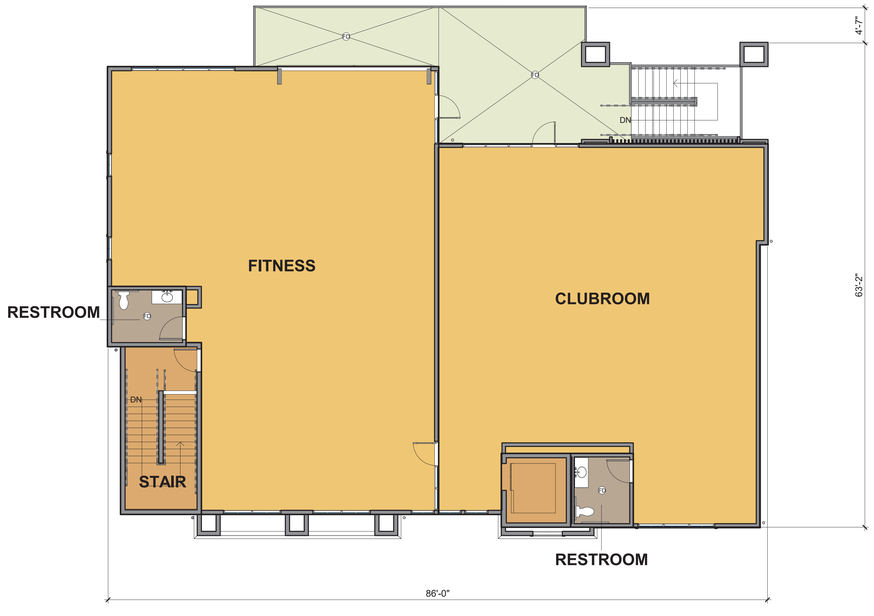
TCA ARCHITECTS

RSC VALLEJO

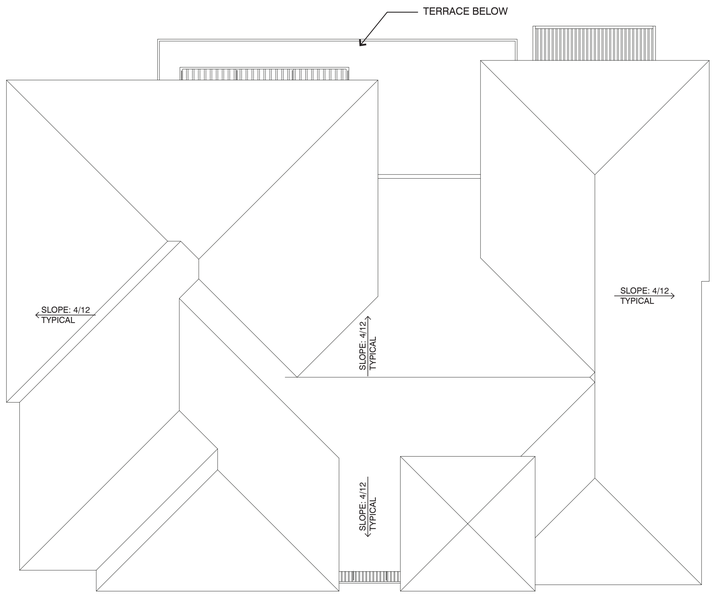
SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 4' 8' 16'

TWO & THREE BEDROOM UNIT PLANS



LEVEL 2 - FLOOR PLAN



ROOF PLAN

LEVEL 1 - FLOOR PLAN

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

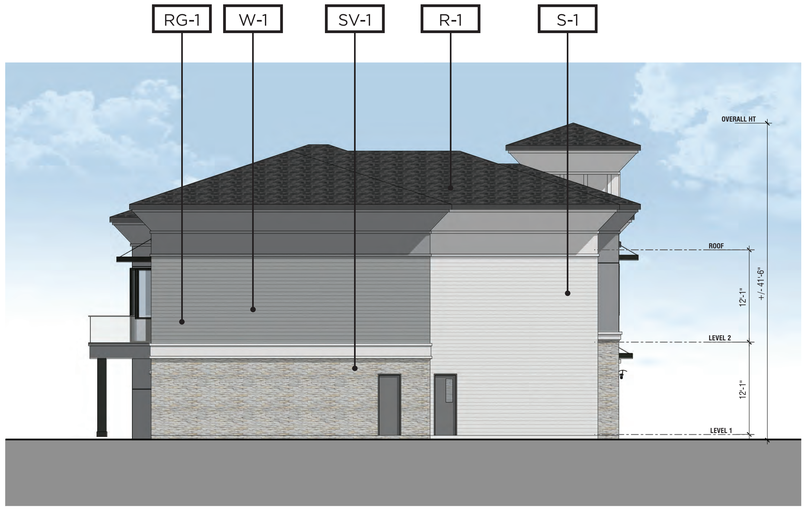
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 8' 16' 32'

AMENITY BUILDING PLANS & ROOF PLAN

A-5.1



LEFT

REAR

RIGHT

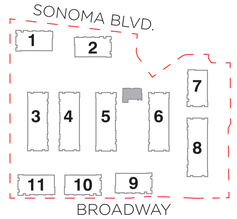
FRONT

PERSPECTIVE

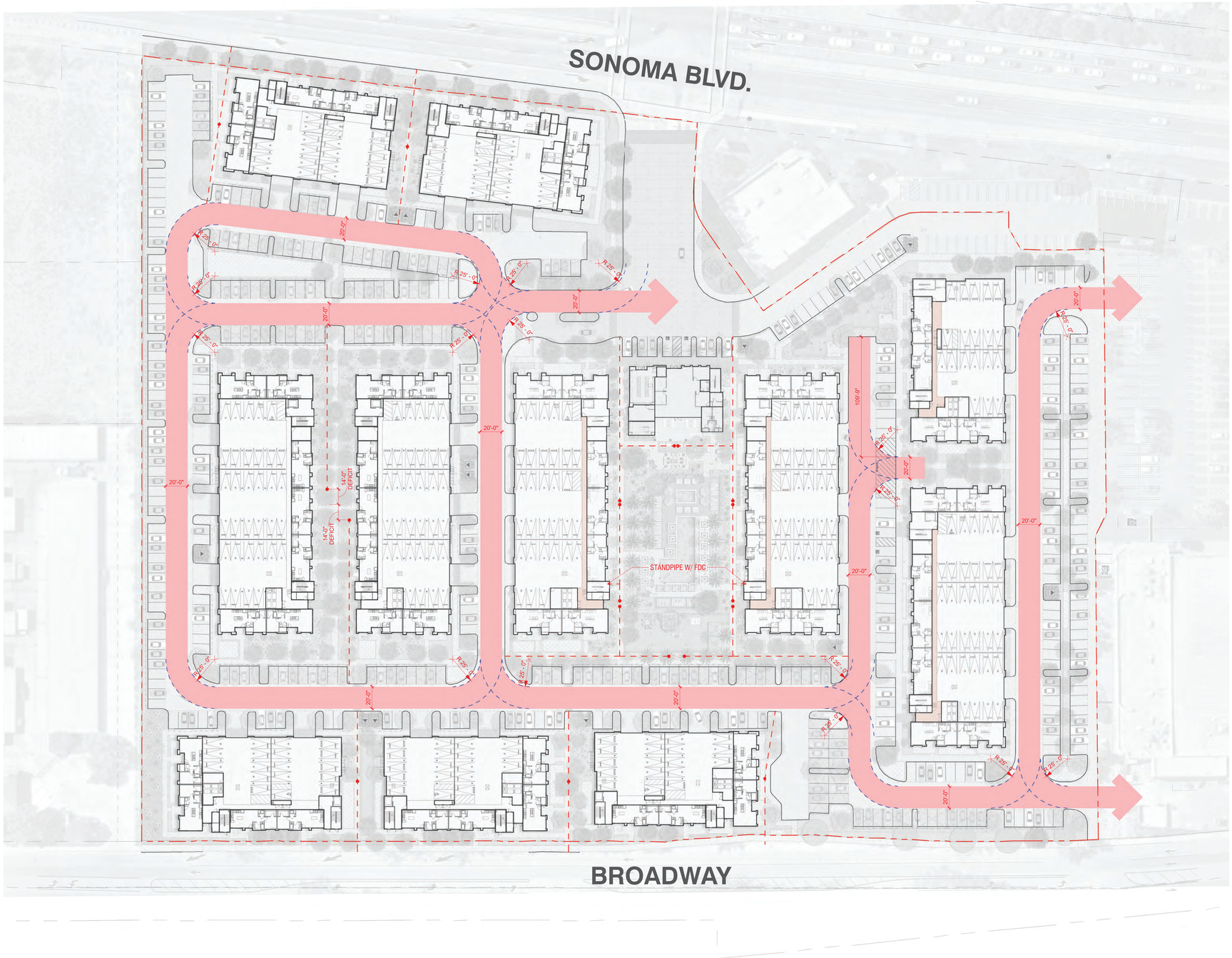
PERSPECTIVE

MATERIAL LEGEND

ST-1	STUCCO
SV-1	STONE VENEER
S-1	SMOOTH HORIZONTAL LAP SIDING
S-2	SMOOTH REVEAL PANEL
RG-1	GLASS RAILING
A-1	METAL AWNING
W-1	VINYL WINDOW
SF-1	STOREFRONT WINDOW
R-1	ASPHALT SHINGLE ROOFING



SITE KEY MAP



LEGEND

- 20' FIRE ACCESS LAND
- FIRE APPARATUS TURNING RADIUS
- 150' MAX HOSE PULL DISTANCE

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

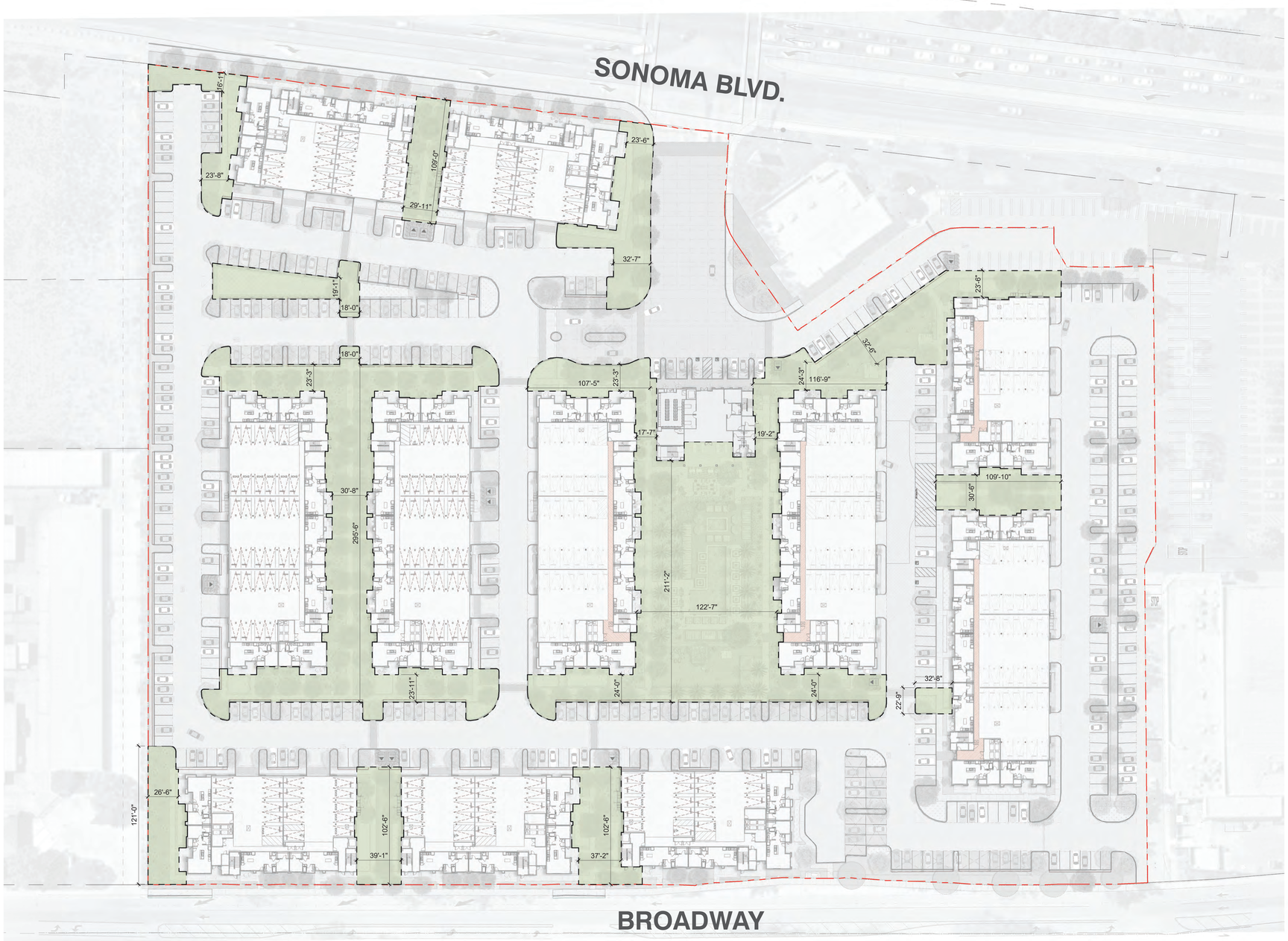
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 40' 80' 160'

FIRE ACCESS EXHIBIT

A-6.3



OPEN SPACE SUMMARY				
Required		**RATIO**	**UNITS**	**TOTAL**
Common		200 SF/UNIT	429	85,800 SF
Private		60 SF/UNIT	429	25,740 SF
Provided				**TOTAL**
Common				87,300 SF
*Private				28,287 SF
*Project average private open space provide. Private open space to be minimum of 60 SF. Refer to Unit Summary for unit specific avg. areas.				

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

TCA ARCHITECTS

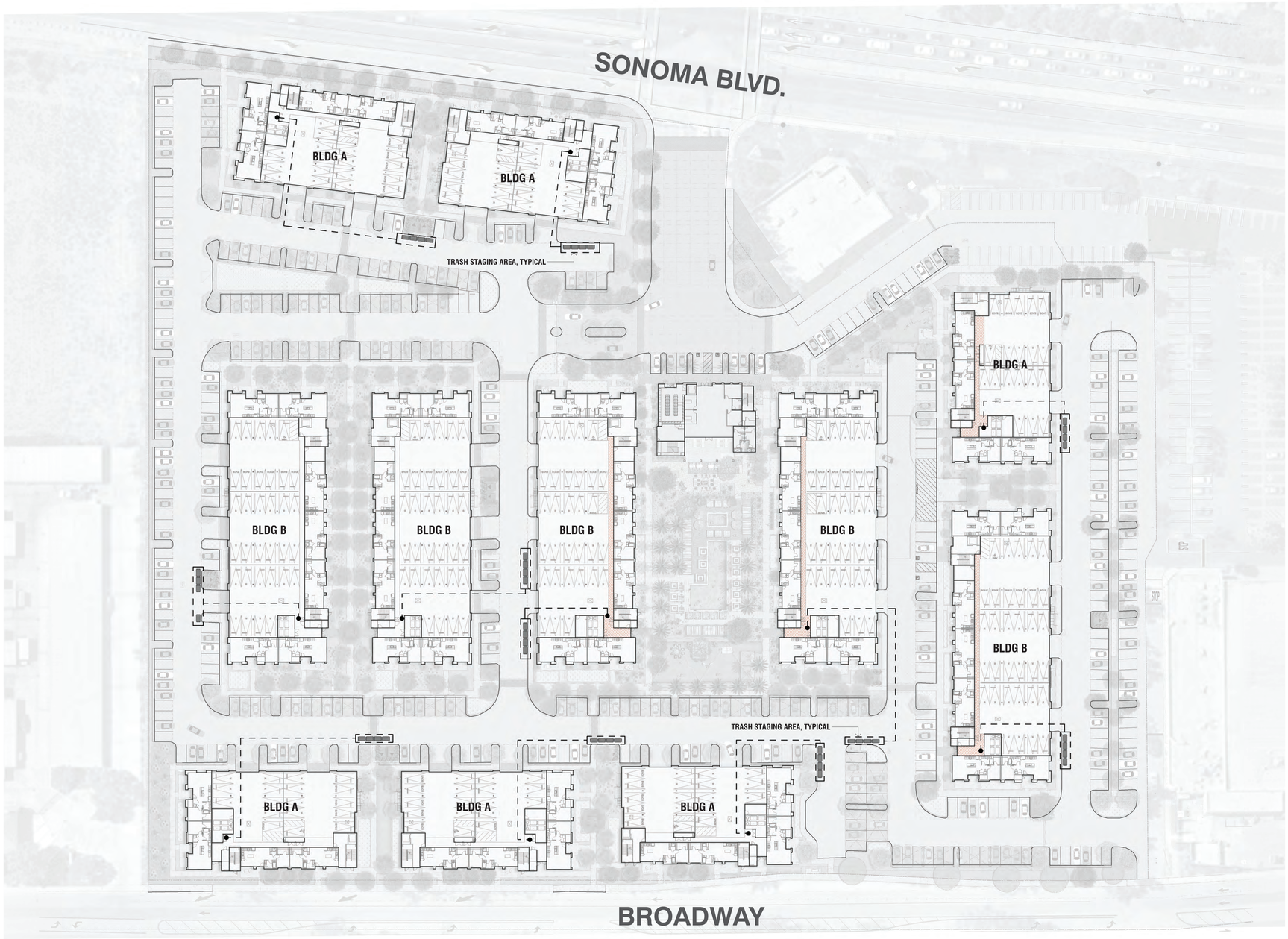
RSC VALLEJO

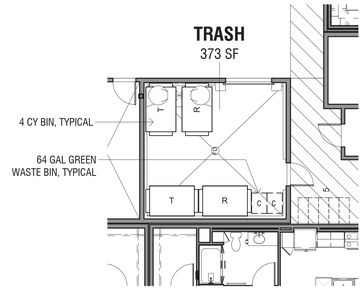
SITE DEVELOPMENT REVIEW
MARCH 21, 2021

0' 40' 80' 160'

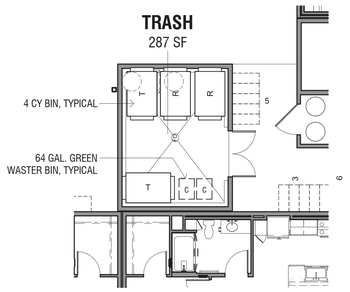
OPEN SPACE EXHIBIT

A-6.4





BLDG A - TRASH ROOM



BLDG B - TRASH ROOM

NOTES:

PROJECT WILL UTILIZE A TRASH MANAGEMENT SERVICE TO REMOVE BINS FROM BUILDING TRASH ROOMS AND STAGE AT NOTED LOCATIONS TO BE PICKED UP. AFTER PICK-UP BINS WILL BE BROUGHT BACK INTO TRASH ROOMS.

CITY OF VALLEJO NOTE:

- LANDSCAPE PLANS TO BE CONSISTENT TO SECTIONS 16.504.04 AND 16.5044.06 OF THE VMC
- LANDSCAPE SYMBOLS PROVIDED ARE SHOWN AT ESTIMATED 3RD YEAR SIZE

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

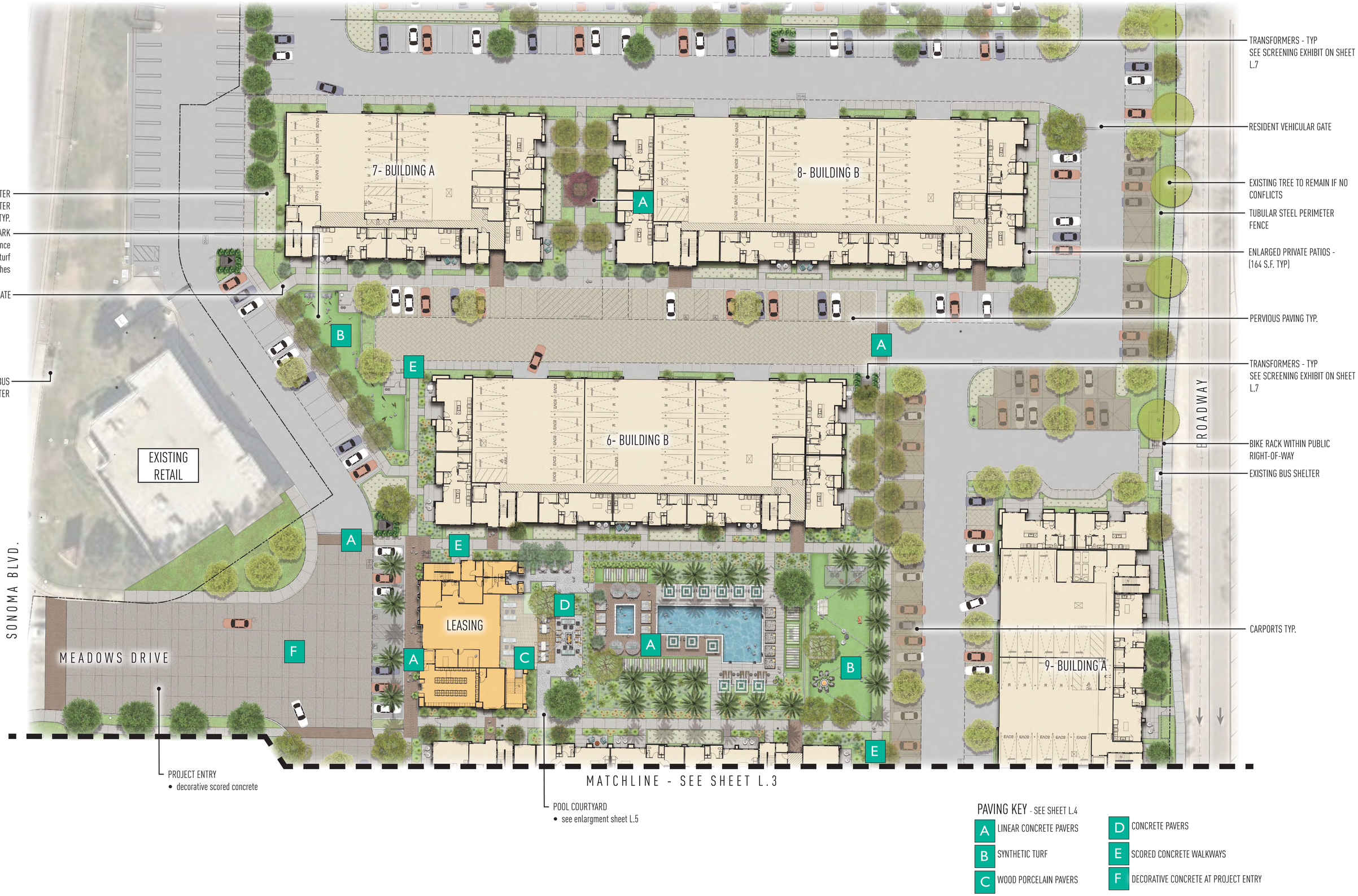
MJS LANDSCAPE ARCHITECTURE

RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 25' 50' 100'

LANDSCAPE SITE PLAN



PAVING KEY - SEE SHEET L.4

- A LINEAR CONCRETE PAVERS
- B SYNTHETIC TURF
- C WOOD PORCELAIN PAVERS
- D CONCRETE PAVERS
- E SCORED CONCRETE WALKWAYS
- F DECORATIVE CONCRETE AT PROJECT ENTRY

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE | RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

CONCEPTUAL LANDSCAPE PLAN - NORTH SECTION

MATCHLINE - SEE SHEET L.2

SONOMA BLVD.

BROADWAY

RESIDENT VEHICULAR GATE

BIKE RACK WITHIN PUBLIC RIGHT-OF-WAY

STORM WATER TREATMENT PLANTER TYP.

UTILITY EASEMENT - NO TREES ALLOWED

PERIMETER WALL

EXISTING SELF STORAGE

PERVIOUS PAVING TYP.

TRANSFORMERS - TYP SEE SCREENING EXHIBIT ON SHEET L.7

PASEO w/ ACCENT TREES

CARPORT TYP.

STORM WATER TREATMENT PLANTER TYP.

1- BUILDING A

2- BUILDING A

3- BUILDING B

4- BUILDING B

5- BUILDING B

10- BUILDING A

11- BUILDING A

PAVING KEY - SEE SHEET L.4

- A LINEAR CONCRETE PAVERS
- B SYNTHETIC TURF
- C WOOD PORCELAIN PAVERS
- D CONCRETE PAVERS
- E SCORED CONCRETE WALKWAYS
- F DECORATIVE CONCRETE AT PROJECT ENTRY

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE

RSC VALLEJO

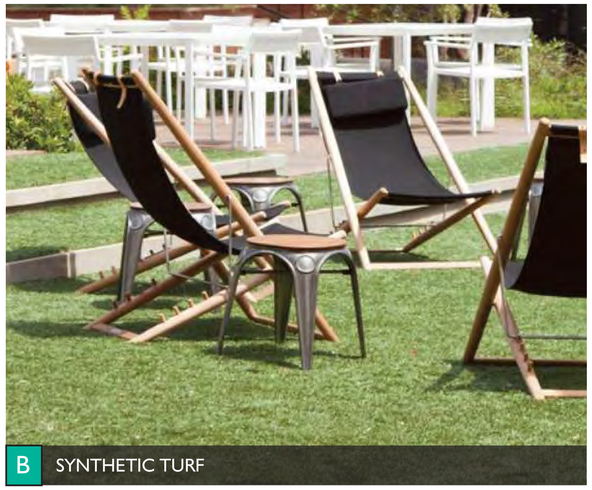
SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

CONCEPTUAL LANDSCAPE PLAN - SOUTH SECTION

L.3

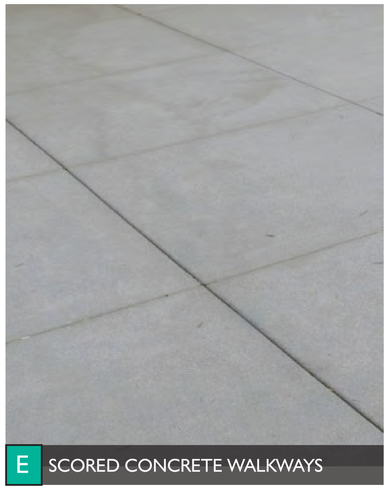
A LINEAR CONCRETE PAVERS



B SYNTHETIC TURF

C WOOD PORCELAIN PAVERS

D CONCRETE PAVERS



E SCORED CONCRETE WALKWAYS

POTTERY

DECORATIVE PEBBLE - SALT & PEP-

BIKE RACK

SHOT BLAST MASONRY WALL

CABANAS AT POOL

RECTANGULAR FIREPIT

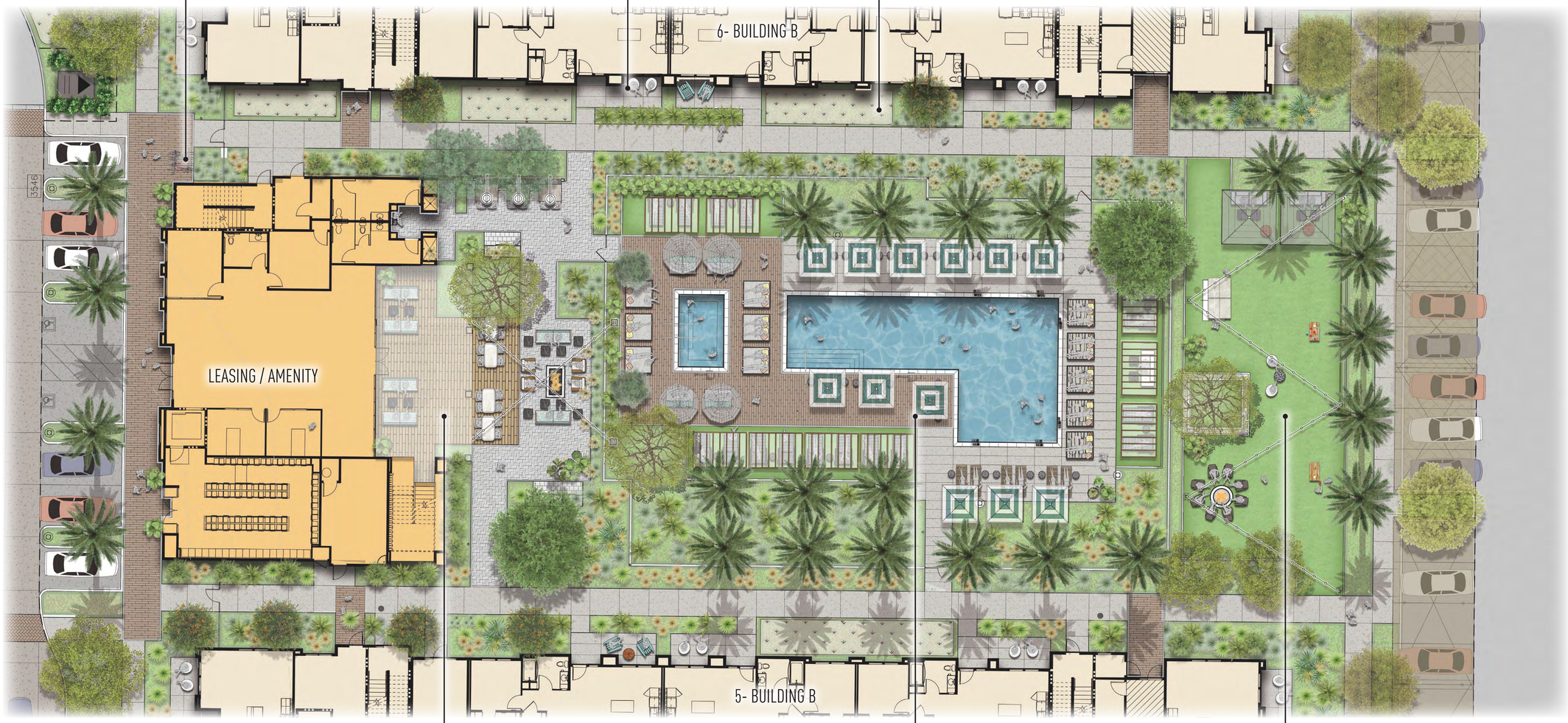
ROUND FIREPIT

PING PONG TABLE

BIKE RACK

ENLARGED PATIOS - TYP.
- low wall and gate
- min. 7' wide
- direct access

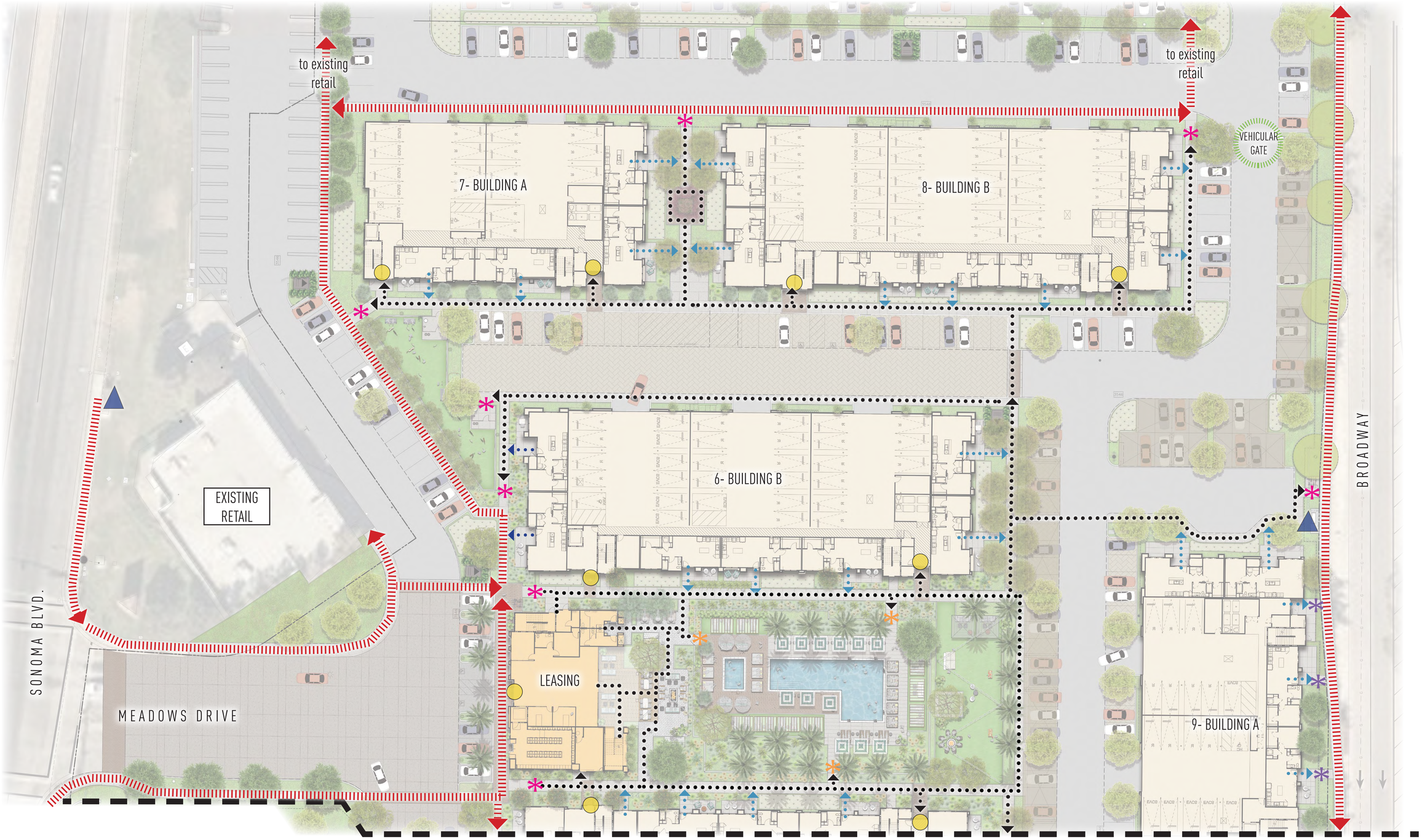
STORM WATER TREATMENT PLANTER TYP.



THE SOCIAL
- firepit with lounge seating
- accent tree
- festival lights above
- (2) bbq counters
- dining tables
- built-in bench with arm lights
- views to pool deck

POOL DECK
- 60' long lap pool
- 10'x14' spa
- cabanas
- lawn sunning area
- chaise lounge chairs
- daybeds

THE LAWN
- synthetic turf - 2,872 s.f.
- lawn games - bocce ball, cornhole, and ping pong
- firepit with lounge chairs
- accent tree
- umbrellas with lounge seating
- festival lights



MATCHLINE - SEE SHEET L.7

LEGEND

- PEDESTRIAN PATH of TRAVEL WITHIN PROJECT
- PRIVATE ACCESS TO APARTMENT HOMES
- PUBLIC PEDESTRIAN PATH
- PEDESTRIAN GATE
- LOBBY/ BUILDING ACCESS
- PUBLIC TRANSIT
- POOL GATE
- PRIVATE GATE TO APARTMENT HOMES

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE | RSC VALLEJO | SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

CIRCULATION PLAN - NORTH SECTION

L.6

MATCHLINE - SEE SHEET L.6

SONOMA BLVD.

BROADWAY

VEHICULAR GATE

1- BUILDING A

2- BUILDING A

3- BUILDING B

4- BUILDING B

5- BUILDING B

10- BUILDING A

11- BUILDING A

EXISTING SELF STORAGE

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE

RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

CIRCULATION PLAN - SOUTH SECTION

LANDSCAPE DESIGN PRINCIPLES

CONCEPTUAL PLANS DEMONSTRATE THAT THIS DEVELOPMENT SATISFIES THE FOLLOWING GUIDELINES.
1. PROVIDES VISUAL SCREENING, PRIVACY, AND NATURAL SURVEILLANCE, WHERE NEEDED
2. DEFINES PEDESTRIAN PATHWAYS AND OPEN SPACE AREAS WITH LANDSCAPE MATERIALS WHERE APPROPRIATE.
3. PROVIDES FOCAL POINTS WITHIN A DEVELOPMENT, SUCH AS SPECIMEN TREES, HEDGES, FLOWERING PLANTS, AND PEDESTRIAN AMENITIES.
4. USES A COMBINATION OF PLANTS FOR YEAR-LONG COLOR AND INTEREST
5. USE LANDSCAPE TREATMENTS TO ENHANCE THE SCREENING OF OUTDOOR STORAGE AND MECHANICAL EQUIPMENT AREAS, AND ENHANCE GRADED AREAS SUCH AS EARTH BERMS

IRRIGATION CONCEPT STATEMENT

IRRIGATION ZONES: IRRIGATION HYDRO-ZONES SHALL HAVE PLANTS GROUPED with SIMILAR WATERING REQUIREMENTS.
DEPTH OF IRRIGATION LINES: ALL ON-GRADE LATERAL LINES SHALL BE BURIED TO A DEPTH OF 18" MIN. ALL ON-GRADE MAINLINES SHALL BE BURIED TO A DEPTH OF 24" MIN.
BACKFLOW PREVENTER: BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (FEBCO 825Y OR EQUAL) TYPE AS APPROVED BY WATER PURVEYOR and SCREENED with LANDSCAPING from PUBLIC VIEW.
IRRIGATION EMITTERS: ALL SHRUB AREAS SHALL BE IRRIGATED USING DRIP TYPE IRRIGATION SYSTEM. ALL TREES SHALL BE IRRIGATED USING BUBBLER AND/OR DRIP IRRIGATION SYSTEM. ALL GROUNDCOVER AREAS SHALL BE IRRIGATED USING DRIP IRRIGATION SYSTEM.
IRRIGATION CONTROLLER: CONTROLLER SHALL BE AUTOMATIC WITH MULTIPLE PROGRAMMING CAPABILITY. CONTROLLER TO BE REPROGRAMMED SEASONALLY TO MINIMIZE RUNOFF AND OVER WATERING. "SMART" CONTROLLER WEATHER TRACKING DEVICES SHALL BE UTILIZED TO CONTROL IRRIGATION CYCLES ACCORDING TO SPECIFIC IRRIGATION REQUIREMENTS.
CLASS OF IRRIGATION PIPE: ALL MAINLINE SHALL BE CLASS 315 PVC. ALL LATERAL LINE SHALL BE CLASS 200 PVC.

THE IRRIGATION DESIGN SHALL COMPLY with THE CRITERIA of CITY of VALLEJO WATER CONSERVATION POLICIES and REQUIREMENTS INCLUDING BUT NOT LIMITED TO:

A. PLANT MATERIALS SHALL BE SELECTED FOR ENERGY EFFICIENCY AND DROUGHT TOLERANCE; ADAPTABILITY AND RELATIONSHIP TO WESTLAKE VILLAGE ENVIRONMENT; COLOR, FORM and PATTERN; ABILITY TO PROVIDE SHADE; SOIL RETENTION, FIRE RESISTIVENSS, ETC. THE OVERALL LANDSCAPE PLAN SHALL BE INTEGRATED WITH ALL ELEMENTS OF THE PROJECT, SUCH AS BUILDINGS, PARKING LOTS AND STREETS, TO ACHIEVE DESIRABLE MICRO-CLIMATE AND MINIMIZE ENERGY DEMAND AND WATER USE.
B. WHERE SHRUBS OR LOW-LEVEL VEGETATION ARE USED, VEGETATIVE MATTER AT MATURITY SHALL COVER AT LEAST 75% OF ACTUAL PLANTED AREA.
C. IRRIGATION SYSTEMS SHALL BE IN ACCORDANCE WITH THE CITY WATER EFFICIENT LANDSCAPE REQUIREMENTS AND THE ARBORICULTURAL STANDARDS AND SPECIFICATIONS ON FILE IN THE DEPARTMENT OF PUBLIC WORKS.

WATER CONSERVATION PRINCIPLES

PURPOSE: TO PROVIDE THE PROPERTY MANAGEMENT STAFF A MECHANICAL DEVICE TO DISTRIBUTE WATER AND ENSURE PLANT SURVIVAL IN THE MOST EFFICIENT MANNER AND WITHIN A TIME FRAME THAT LEAST INTERFERES WITH THE ACTIVITIES OF THE RESIDENTS.
CONCEPT: THE SYSTEM WILL UTILIZE DRIP and BUBBLER IRRIGATION COMPATIBLE WITH THE AREA BEING WATERED AND INFILTRATION RATES OF THE SOIL. THE SYSTEM WILL BE CONTROLLED BY A 'WEATHER TRAK' or 'SMART' CONTROLLER. VALVES PROGRAMMED FROM AUTOMATIC CONTROLLERS WILL MAXIMIZE EFFICIENT WATER APPLICATION.

TO AVOID WATER RUNOFF, THE CONTROLS WILL BE OVERSEEN BY A FLOW MONITOR THAT WILL DETECT ANY BROKEN BUBBLER HEADS or DRIP TUBING TO STOP THAT STATION'S OPERATION, ADVANCING TO THE NEXT WORKABLE STATION. IN THE EVENT OF PRESSURE SUPPLY LINE BREAKAGE, IT WILL COMPLETELY STOP THE OPERATION OF THE SYSTEM. ALL MATERIAL WILL BE NON-FERROUS, WITH THE EXCEPTION OF THE BRASS PIPING INTO AND OUT OF THE BACKFLOW UNITS. ALL WORK WILL BE IN THE BEST ACCEPTABLE MANNER IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS PREVAILING IN THE INDUSTRY.

SCREENING OF UTILITY EQUIPMENT:

ALL ABOVE-GROUND UTILITY EQUIPMENT WILL BE SCREENED FROM PUBLIC VIEW WITH A MINIMUM 3' WIDE PLANTING AREA. PROPOSED SCREEN SHRUB WILL BE 15 GALLON SIZE SPACED TO SCREEN 75% OF UTILITY AT THE TIME OF PLANTING.

EXISTING TREE NOTE:

NO EXISTING TREE TO REMAIN ON-SITE DUE TO PROPOSED CONSTRUCTION. EXISTING STREET TREES ON BROADWAY TO REMAIN WHERE FEASIBLE. ALL EXISTING TREES 6" DIA. OR LARGER ON-SITE TO BE INVENTORIED. REPLACEMENT TREES FOR MITIGATION OF REMOVED TREES TO BE IDENTIFIED IN FINAL LANDSCAPE PLAN.

WATER EFFICIENT LANDSCAPE ORDINANCE (WELO) NOTE

LANDSCAPE PLANS WILL ADHERE TO THE CITY OF VALLEJO WATER EFFICIENT LANDSCAPE ORDINANCE.

LINE-OF-SIGHT NOTE:

SHRUBS TO BE MAINTAINED AT MAXIMUM 24" HIGH WITHIN LINE OF SIGHT AT STREET INTERSECTIONS.

PROPOSED SHRUB LIST for COMMON AREAS

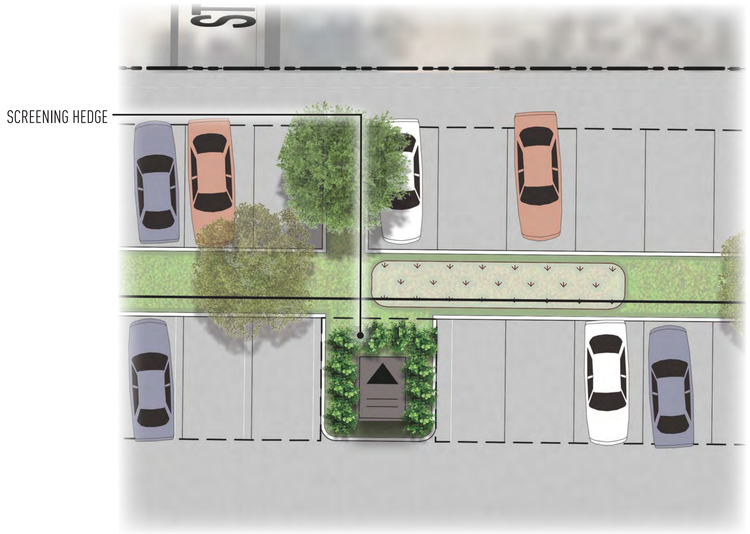
ALL PROPOSED SHRUBS will be COMPLIANT with CITY OF VALLEJO LANDSCAPE STANDARDS and GUIDELINES, CAL GREEN REQUIREMENTS FOR WATER CONSERVING and NON-INVASIVE AS DEFINED BY IPC.

SHRUBS and GROUNDCOVER			
ACACIA COGNATA ' COUSIN ITT'	RIVER WATTLE	5 GAL	Mod.
AEONIUM ARBOREUM 'ATROPURPUREUM'	TREE AEONIUM	5 GAL	Low
AGAVE ATTENUATA 'NOVA'	NOVA AGAVE	15 GAL	Low
ALOE FEROX	BITTER ALOE	15 GAL	Low
ALOE PLICATILIS	FAN ALOE	15 GAL	Low
ALOE STRIATA	CORAL ALUE	5 GAL	Low
ALYOGYNE HUEGELII	BLUE HIBISCUS	15 GAL	Low
ANIGOZANTHOS x 'BUSH GOLD'	KANGAROO PAW	5 GAL	Low
ANIGOZANTHOS X 'ORANGE CROSS'	KANGAROO PAW	5 GAL	Low
ARBUTUS UNEDO 'COMPACTA'	DWARF STRAWBERRY TREE	5 GAL	Low
ARCTOSTAPHYLOS D. 'HOWARD MCMINN'	HOWARD MCMINN MANZANITA	15 GAL	Low
ASPARAGUS DENSIFLORUS 'MYERS'	MYERS ASPARAGUS	5 GAL	Mod.
BOUGAINVILLEA x 'ROSENKA'	BOUGAINVILEA	5 GAL	Low
BUXUS MICROPHYLLA 'GREEN BEAUTY'	GREEN BEAUTY BOXWOOD	5 GAL	Mod.
CALAMAGROSTIS X A. 'KARL FOERSTER'	FEATHER REED GRASS	5 GAL	Mod.
CALLISTEMON CITRINUS 'LITTLE JOHN'	GREEN BEAUTY BOXWOOD	5 GAL	Low
CARISSA MACROCARPA 'GREEN CARPET'	GREEN CARPET NATAL PLUM	5 GAL	Mod.
CARPENTERIA CALIFORNICA	BUSH ANEMONE	15 GAL	Mod.
CEANOTHUS IMPRESSUS 'PUGET BLUE'	SANTA BARBARA CEANOTHUS	15 GAL	Low
CRASSULA ARBORESCENS 'BLUE WAVES'	SILVER DOLLAR PLANT	5 GAL	Low
DIANELLA REVOLUTA 'LITTLE REV'	LITTLE REV DIANELLA	1 GAL	Mod.
DIANELLA TASMANICA 'VARIEGATA'	FLAX LILY	5 GAL	Mod.
DIETES x 'ORANGE DROP'	FORTNIGHT LILY	5 GAL	Low
DODONAEA VISCOSA 'PURPUREA'	PURPLE HOPSEED BUSH	15 GAL	Low
ECHEVERIA X 'AFTERGLOW'	AFTERGLOW ECHEVERIA	1 GAL	Low
FESTUCA GLAUCA 'ELIJAH BLUE'	BLUE FESCUE	1 GAL	Low
FESTUCA MAIREI 'GREENLEE'S FORM'	GREENLEE ATLAS FESCUE	5 GAL	Low
GREVILLEA X 'NOELLII'	GREVILLEA	5 GAL	Low
HEMEROCALLIS X 'STARBURST'	EVERGREEN DAYLILY	5 GAL	Mod.
HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	Low
HETEROMELES ARBUTIFOLIA	TOYON	15 GAL	Low
KNIPHOFIA UVARIA 'MALIBU YELLOW'	MALIBU YELLOW TORCH LILY	5 GAL	Low
LAVANDULA DENTATA	FRENCH LAVENDER	5 GAL	Low
LEUCADENDRON X 'SAFARI SUNSET'	CONEBUSH	15 GAL	Low
LIGUSTRUM TEXANUM (COLUMNS)	TEXAS PRIVET	15 GAL	Mod.
LIRIOPE GIGANTEA	GIANT LILY TURF	5 GAL	Mod.
LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	Mod.
LOMANDRA L. 'PLATINUM BEAUTY'	PLATINUM BEAUTY LOMANDRA	5 GAL	Mod.
MAHONIA X 'SOFT CARESS'	SOFT CARESS MAHONIA	5 GAL	Mod.
OLEA EUROPAEA 'LITTLE OLLIE'	LITTLE OLLIE OLIVE	15 GAL	Low
PHILODENDRON SELLOUM	SPLIT LEAF PHILODENDRON	5 GAL	Mod.
PHILODENDRON X 'XANADU'	PHILODENDRON	5 GAL	Mod.
RHUS INTEGRIFOLIA	LEMONADE BERRY	5 GAL	Low
PITTOSPORUM TENUIFOLIUM 'SILVER SHEEN'	TAWHIWHI	15 GAL	Mod.
PITTOSPORUM TOBIRA	MOCK ORANGE	5 GAL	Mod.
PITTOSPORUM TOBIRA 'VARIEGATA'	VARIEGATED MOCK ORANGE	5 GAL	Low
PITTOSPORUM TOBIRA 'WHEELER'S DWARF'	DWARF MOCK ORANGE	5 GAL	Low
RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	5 GAL	Low
RHAMNUS CALIFORNICA 'EVE CASE'	COFFEEBERRY	5 GAL	Low
ROSA X 'RED CARPET'	CARPET ROSE	5 GAL	Mod.
ROSMARINUS OFFICINALIS 'PROSTRATUS'	DWARF ROSEMARY	5 GAL	Low
SENECIO M. 'BLUE CHALK STICKS'	SENECIO	1 GAL	Low
SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL	Low
STACHYS BYZANTINA	LAMB'S EAR	1 GAL	Low
TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GAL	Mod.
WESTRINGIA FRUTICOSA 'WYNABBIE GEM'	COAST WESTRINGIA	15 GAL	Low
PER CONTRA COSTA CO. C.3 TECHNICAL GUIDEBOOK			
ALYOGYNE HUEGELII	BLUE HIBISCUS	5 GAL	Low
BOUTELOUA GRACILIS ' BLONDE AMBITION'	BLUE GRAMA	1 GAL	Low
CAREX PRAEGRACILIS	CALIFORNIA FIELD SEDGE	PLUGS	Low
CEANOTHUS G. H. 'YANKEE POINT'	CALIFORNIA LILAC	5 GAL	Low
CHONDROPETALUM TECTORUM	CAPE RUSH	5 GAL	Low
FESTUCA CALIFORNICA	CALIFORNIA FESCUE	1 GAL	Low
JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL	Mod.
MAHONIA REPENS	CREEPING BARBERRY	1 GAL	Low
MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	5 GAL	Low
MUHLENBERGIA CAPILLARIS 'REGAL MIST'	MUHLY GRASS	5 GAL	Low
PENSTEMON EATONII	FIRECRACKER PENSTEMON	5 GAL	Mod.
SANTOLINA CHAMAECYPARISSUS	LAVENDER COTTON	1 GAL	Low

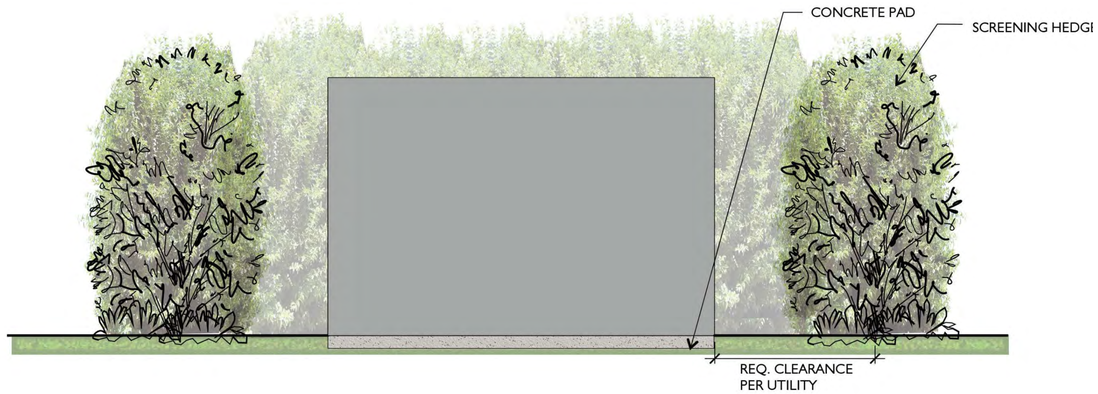
PROPOSED TREE LIST

ALL PROPOSED TREES will be COMPLIANT with CITY OF VALLEJO MUNICIPAL CODE CHAPTER 16.504 & LANDSCAPE STANDARDS and GUIDELINES, CAL GREEN REQUIREMENTS FOR WATER CONSERVING and NON-INVASIVE AS DEFINED BY IPC.

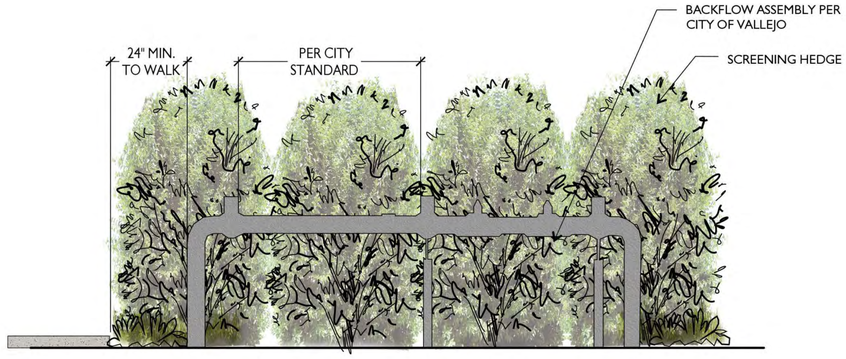
BOTANICAL NAME	COMMON NAME	SIZE	WUCOLS
SONOMA BLVD. LANDSCAPE SETBACK:			
DOMINANT STREET TREE: PYRUS CALLERYANA 'CAPITAL'	CAPITAL PEAR SPACE 30' O.C.	24" BOX	Mod.
BACKGROUND TREE: QUERCUS VIRGINIANA	SOUTHERN LIVE OAK BETWEEN PEAR TREES	24" BOX	Low
BACKGROUND TREE: CERCIS OCCIDENTALIS	WESTERN REDBUD SMALL GROUPINGS	24" BOX	Low
EXISTING TREES: SEQUOIA SEMPERVIRENS	COAST REDWOOD SMALL GROUPINGS	EXT'G.	Mod.
BROADWAY LANDSCAPE SETBACK			
DOMINANT STREET TREE: PLATANUS ACERIFOLIA	PLANE TREE PROTECT EXISTING	EXT'G.	Mod.
BACKGROUND TREE: SEQUOIA SEMPERVIRENS	COAST REDWOOD PROTECT EXISTING	EXT'G.	Mod
BACKGROUND TREE: CERCIS OCCIDENTALIS	WESTERN REDBUD SMALL GROUPINGS	24" BOX	Low
ENTRY DRIVE (south-side only)			
DOMINANT TREE: LAGERSTROEMIA HYBRID	CRAPE MYRTLE 20' O.C.	24" BOX	Mod.
POOL COURTYARD and LEASING PARKING			
PHOENIX DACTYLIFERA 'MEDJOOL'	DATE PALM DIAMOND CUT TRUNK	18' B.T.H. MATCH	Mod.
ACCENT: OLEA EUROPAEA 'SWAN HILL'	FRUITLESS OLIVE MULTI-TRUNK	48" BOX	Mod.
BACKGROUND TREE: LAURUS NOBLIS 'SARATOGA'	SWEET BAY COLUMNS	24" BOX	Low
BACKGROUND TREE: MAGNOLIA 'LITTLE GEM'	SOUTHERN MAGNOLIA LOW BRANCHING	24" BOX	Mod.
COMMON AREA LANDSCAPE			
ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	24" BOX	Mod.
ARBUTUS x 'MARINA'	HYBRID STRAWBERRY TREE	36" BOX	Low
BETULA NIGRA	RIVER BIRCH MULTI-TRUNK	24" BOX	Mod.
AGONIS FLEXUOSA	PEPPERMINT TREE	36" BOX	Mod.
GEIJERA PARVIFLORA	AUSTRALIAN WILLOW	24" BOX	Low
GINKGO BILOBA 'AUTUMN GOLD'	MAIDENHAIR TREE	24" BOX	Mod.
MAGNOLIA G. 'SAMUEL SOMMER'	SOUTHERN MAGNOLIA	36" BOX	Mod.
QUERCUS SHUMARDII	SHUMARDS RED OAK	24" BOX	Mod.
PISTACIA CHINENSIS 'KEITH DAVEY'	CHINESE PISTACHE	24" BOX	Low
COLUMNAR TREES SITEWIDE (NO CLOSER THAN 6' FROM BLDG.)			
CERCIS 'FOREST PANSY'	EASTERN REDBUD LOW BRANCHING	24" BOX	Mod.
HETEROMELES ARBUTIFOLIA	TOYON - SHRUB FORM	24" BOX	Low
LAURUS N. 'SARATOGA'	SWEET BAY - COLUMNAR	24" BOX	Low
PITTOSPORUM T. 'SILVER SHEEN'	SILVER SHEEN TAWHIWHI	24" BOX	Medium
PRUNUS LAUROCERASUS	ENGLISH LAUREL - COLUMNAR	15 GAL.	Medium



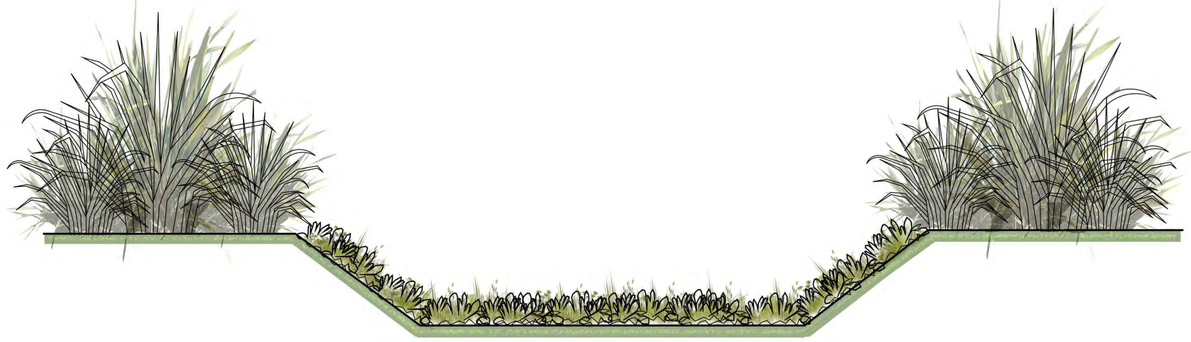
TYP. TRANSFORMER SCREENING PLAN VIEW



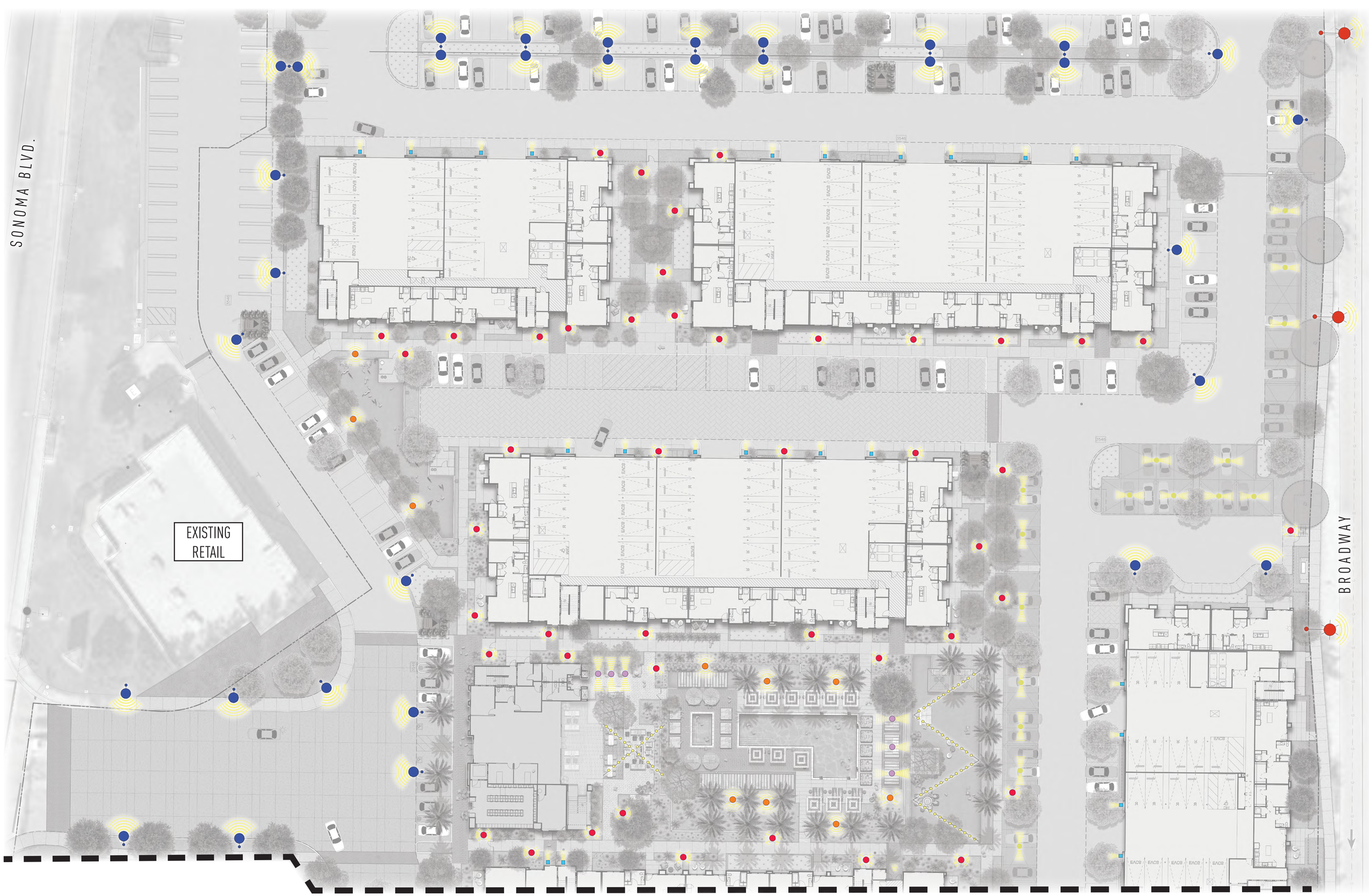
TYP. SECTION AT TRANSFORMER SCREENING



TYP. SECTION AT UTILITY SCREENING



TYP. SECTION AT C.3 BIO-SWALE
locations to be determined by civil engineer



EXTERIOR LIGHTING LEGEND

SYMBOL	TYPE/TECHNIQUE:	LOCATION:	SYMBOL	TYPE/TECHNIQUE:	LOCATION:	SYMBOL	TYPE/TECHNIQUE:	LOCATION:
	STREET LIGHT	PRIVATE STREET		RECESSED LOUVER LIGHTS	WALL MOUNTED		DOWNLIGHT	MOUNTED ON CARPORTS
	THEME POLE LIGHT			OVERHEAD FESTIVAL LIGHTING	ATTACHED TO POLES. MINIMUM 12' ABOVE FINISH SURFACE		WALL MOUNTED	ON GARAGE/BUILDING
	BOLLARD	AT PEDESTRIAN PATH OF TRAVEL		PENDENT LIGHT	MOUNTED ON ARM		SIGN LIGHT	AT MONUMENT SIGNS

LIGHTING CONCEPT:

THE OUTDOOR LIGHTING CONCEPT IS TO PROVIDE LEVELS OF LIGHTING SUFFICIENT TO MEET SAFETY AND ORIENTATION NEEDS.

WITHIN PUBLIC AREAS LIGHTING WILL BE WARM COLORED AND UNOBTRUSIVE. LIGHT SOURCES WILL BE TUNGSTEN OR METAL HALIDE.

LIGHTING SOURCES FOR THE LANDSCAPE AND PAVED AREAS WILL BE CONCEALED AND THE LIGHTING INDIRECT NOT VISIBLE FROM A PUBLIC VIEWPOINT. LIGHT SOURCES SHOULD BE DIRECTED SO THAT IT DOES NOT FALL OUTSIDE THE AREA TO BE LIGHTED.

ALL EXTERIOR SURFACE AND ABOVE-GROUND MOUNTED FIXTURES WILL BE SYMPATHETIC AND COMPLIMENTARY TO THE ARCHITECTURAL THEME.

STREET LIGHT

PER CITY OF VALLEJO STANDARD. LIGHTS TO BE PEDESTRIAN SCALE NOT TO EXCEED 14 FEET IN HEIGHT. LIGHTS TO INCLUDE ATTACHMENTS FROM WHICH TO HANG BANNERS.

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE

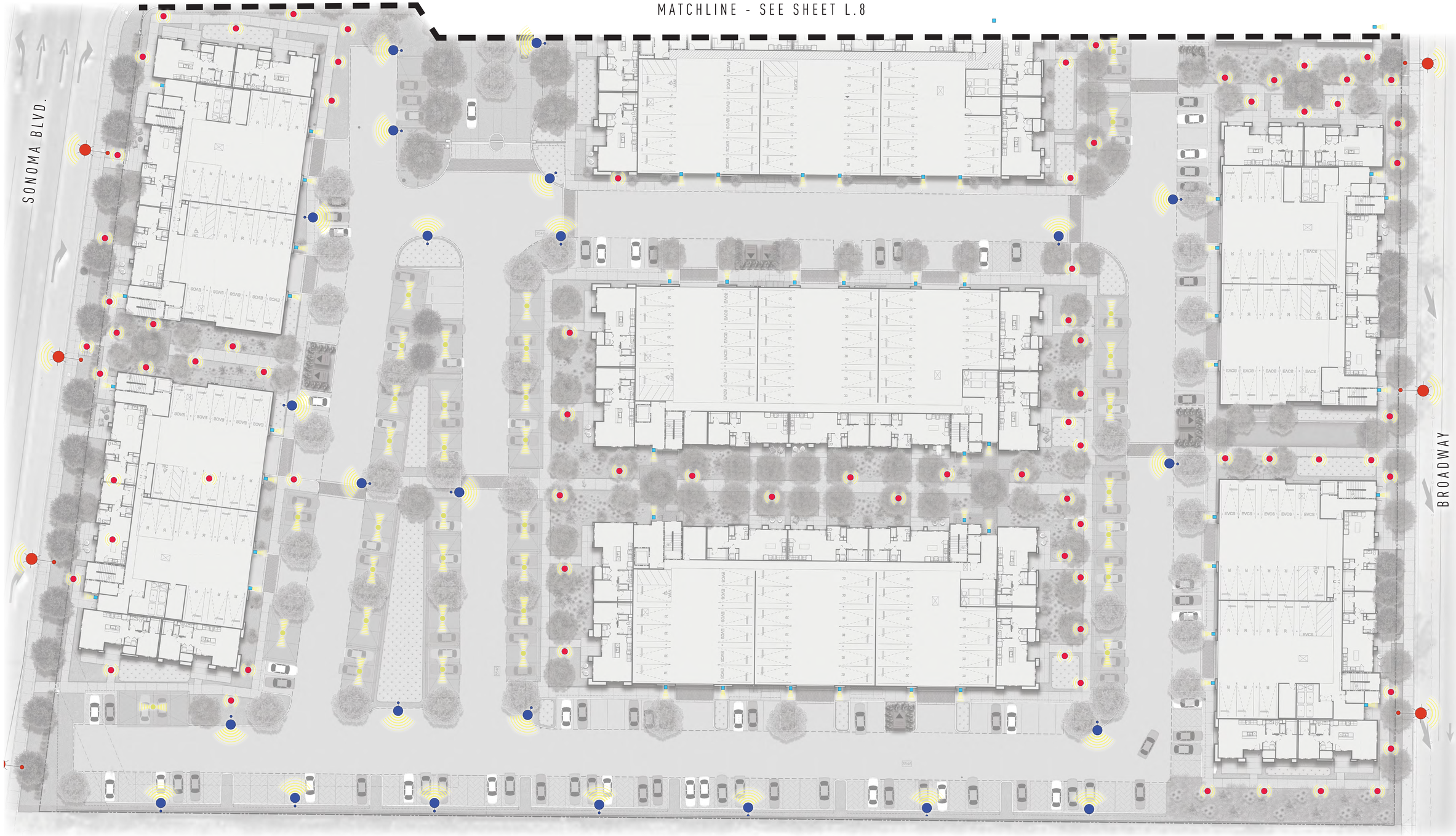
RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

CONCEPTUAL LIGHTING PLAN - NORTH SECTION

MATCHLINE - SEE SHEET L.8



EXTERIOR LIGHTING LEGEND

SYMBOL	TYPE/TECHNIQUE:	LOCATION:	SYMBOL	TYPE/TECHNIQUE:	LOCATION:	SYMBOL	TYPE/TECHNIQUE:	LOCATION:
	STREET LIGHT	PRIVATE STREET		RECESSED LOUVER LIGHTS	WALL MOUNTED		DOWNLIGHT	MOUNTED ON CARPORTS
	THEME POLE LIGHT			OVERHEAD FESTIVAL LIGHTING	ATTACHED TO POLES. MINIMUM 12' ABOVE FINISH SURFACE		WALL MOUNTED	ON GARAGE/BUILDING
	BOLLARD	AT PEDESTRIAN PATH OF TRAVEL		PENDENT LIGHT	MOUNTED ON ARM		SIGN LIGHT	AT MONUMENT SIGNS

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STREET LIGHT

PER CITY OF VALLEJO STANDARD. LIGHTS TO BE PEDESTRIAN SCALE NOT TO EXCEED 14 FEET IN HEIGHT. LIGHTS TO INCLUDE ATTACHMENTS FROM WHICH TO HANG BANNERS.

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VALLEJO, CALIFORNIA
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MJS LANDSCAPE ARCHITECTURE

RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

CONCEPTUAL LIGHTING PLAN - SOUTH SECTION

SONOMA BLVD.

BROADWAY

PEDESTRIAN GATE

PEDESTRIAN GATE

VEHICULAR GATE

PEDESTRIAN GATE

PEDESTRIAN GATE

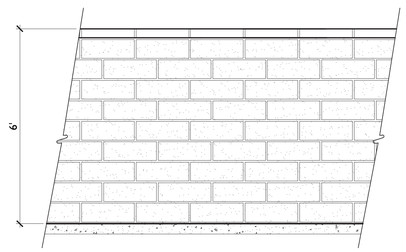
PEDESTRIAN GATE

PEDESTRIAN GATE

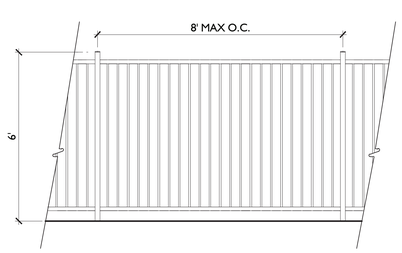
PRIVATE GATE

EXISTING RETAIL

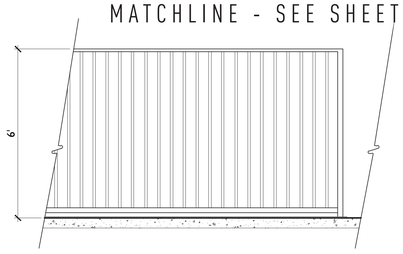
MATCHLINE - SEE SHEET L.11



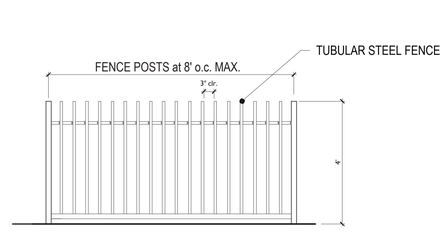
1 SHOT BLAST BLOCK ACCENT WALL
6' HIGH



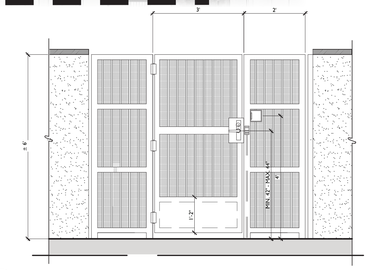
2 TUBULAR STEELPERIMETER FENCE
6' HIGH



3 TUBULAR STEEL POOL ENCLOSURE
6' HIGH



4 4' DOG PARK FENCE
4' HIGH



5 6' TUBULAR STEEL GATE
6' HIGH

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE

RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

WALL and FENCE PLAN - NORTH SECTION

MATCHLINE - SEE SHEET L.10

SONOMA BLVD.

BROADWAY

PEDESTRIAN GATE

VEHICULAR GATE

PEDESTRIAN GATE

PRIVATE GATE

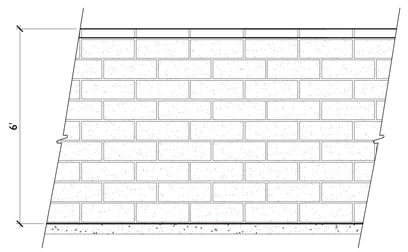
PEDESTRIAN GATE

PEDESTRIAN GATE

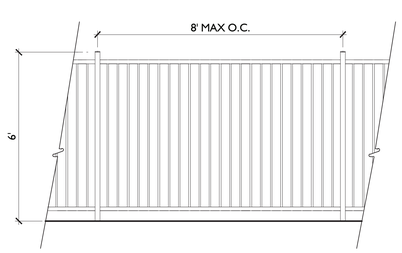
PRIVATE GATE

PEDESTRIAN GATE

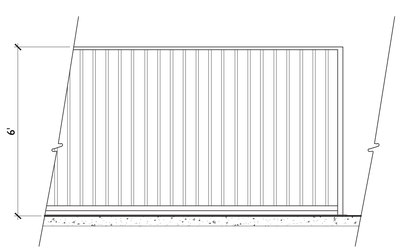
PRIVATE GATE



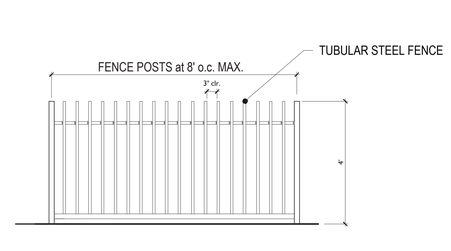
1 SHOT BLAST BLOCK ACCENT WALL
6' HIGH



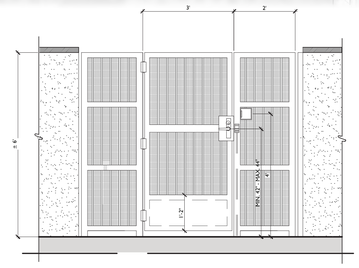
2 TUBULAR STEELPERIMETER FENCE
6' HIGH



3 TUBULAR STEEL POOL ENCLOSURE
6' HIGH



4 4' DOG PARK FENCE
4' HIGH



5 6' TUBULAR STEEL GATE
6' HIGH

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

MJS LANDSCAPE ARCHITECTURE

RSC VALLEJO

SCHEMATIC DESIGN
MARCH 18, 2022

0' 10' 20' 40'

WALL and FENCE PLAN - SOUTH SECTION

L.13

| | | |

SITE LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	MANUFACTURER SPECS	DESCRIPTION	MOUNTING	LAMP INFO	LAMP TYPE CATEGORY PER C.O.V PART V TABLE 16.506.A	LUMEN FACTOR PER C.O.V PART V 16.506.04(J)1,2,3	TOTAL COUNT IN PROJECT	TOTAL LUMENS (SHIELDED)	TOTAL LUMENS (UNSHIELDED)
S1A	A	LITHONIA LIGHTING # DSXO-LED-P1-30K-T3M-MVOLT	POLE MOUNTED AREA LIGHTING TYPE 3 OPTICS TEXTURED BLACK – DIMMABLE	17'-0" AFG TO TOP OF FIXTURE –	38W LED 3000K 4376 LUMENS	CLASS '2' CATEGORY 'F'	100% 4376 LUMENS	7	30632	
S1B	B	LITHONIA LIGHTING # DSXO-LED-P1-30K-T3M-MVOLT-HS	POLE MOUNTED AREA LIGHTING TYPE 3 OPTICS WITH HOUSE SIDE SHIELD TEXTURED BLACK – DIMMABLE	17'-0" AFG TO TOP OF FIXTURE –	38W LED 3000K 4376 LUMENS	CLASS '2' CATEGORY 'F'	100% 4376 LUMENS	9	39384	
S1C	C	LITHONIA LIGHTING # DSXO-LED-P1-30K-T4M-MVOLT	POLE MOUNTED AREA LIGHTING TYPE 4 OPTICS TEXTURED BLACK – DIMMABLE	17'-0" AFG TO TOP OF FIXTURE –	38W LED 3000K 4281 LUMENS	CLASS '2' CATEGORY 'F'	100% 4281 LUMENS	3	12843	
S1D	D	LITHONIA LIGHTING # DSXO-LED-P1-30K-T4M-MVOLT-HS	POLE MOUNTED AREA LIGHTING TYPE 4 OPTICS WITH HOUSE SIDE SHIELD TEXTURED BLACK – DIMMABLE	17'-0" AFG TO TOP OF FIXTURE –	38W LED 3000K 4281 LUMENS	CLASS '2' CATEGORY 'F'	100% 4281 LUMENS	9	38529	
S1E	E	LITHONIA LIGHTING # DSXO-LED-P1-30K-T5W-MVOLT	POLE MOUNTED AREA LIGHTING TYPE 5 OPTICS TEXTURED BLACK – DIMMABLE	17'-0" AFG TO TOP OF FIXTURE –	38W LED 3000K 4576 LUMENS	CLASS '2' CATEGORY 'F'	100% 4576 LUMENS	7	32032	
S2		LITHONIA LIGHTING # KBC8-LED-12C-350-30K-ASY-MVOLT-DMG	PEDESTRIAN 8" ROUND 42"H BOLLARD ASYMMETRIC OPTICS TEXTURED BLACK – DIMMABLE	GROUND MOUNT –	16W LED 3000K 641 LUMENS	CLASS '2' CATEGORY 'F'	100% 641 LUMENS	61	39101	
S3		LITHONIA LIGHTING # DSXSC-LED-10C-700-30K-T5W-MVOLT-DMG	UNDER CANOPY LED STRIP TYPE 5 OPTICS NATURAL ALUMINUM – DIMMABLE	SURFACE MOUNTED UNDER CANOPY CEILING –	26W LED 3000K 2570 LUMENS	CLASS '2' CATEGORY 'F'	X 0.1 257 LUMENS	53	13621	
S4		LITHONIA LIGHTING # WDGE1-LED-P1-30K-90CRI-VF-DMG	ARCHITECTURAL WALL SCONCE TYPE VISUAL COMFORT FORWARD THROW TEXTURED BLACK – DIMMABLE	9'-0" AFG TO BOTTOM FIXTURE –	10W LED 3000K 1161 LUMENS	CLASS '2' CATEGORY 'F'	X 0.25 290 LUMENS	76	22040	
S5		EVERGREEN LIGHTING # BAR2112-12LED-DIM	RESIDENTIAL WALL SCONCE TEXTURED BLACK – DIMMABLE	80" AFG TO BOTTOM FIXTURE –	12W LED 3000K 1200 LUMENS	CLASS '2' CATEGORY 'F'	X 0.25 300 LUMENS	41	12300	
S6		TOKISTAR LIGHTING # EXBK-24-UBIW-S14-C / XFMR T24-300	FESTOON LIGHTS WITH 24" SPACING –	DECORATIVE STRING HUNG WITH 24VAC DIMMABLE TRANSFORMER	1.8W LED 3000K 50 LUMENS	CLASS '3' CATEGORY 'A'	100% 50 LUMENS	110		5500
S7A		AMERICAN ELECTRIC LIGHTING # AVPCL2-P452-30K-R3	POLE MOUNTED THEME LIGHTING TYPE 3 OPTICS TEXTURED BLACK – DIMMABLE	12'-0" AFG TO TOP OF FIXTURE –	110W LED 3000K 12600 LUMENS	SUBJECT TO C.O.V. PART 5 16.506.05(A)(1)	X 0.00 N/A	10	00000	
S7B		AMERICAN ELECTRIC LIGHTING # AVPCL2-P452-30K-R5	POLE MOUNTED THEME LIGHTING TYPE 5 OPTICS TEXTURED BLACK – DIMMABLE	12'-0" AFG TO TOP OF FIXTURE –	110W LED 3000K 12600 LUMENS	SUBJECT TO C.O.V. PART 5 16.506.05(A)(1)	X 0.00 N/A	4	00000	
S8		BARNLIGHT LIGHTING # WHA12-LED11-105	PENDANT HUNG DECORATIVE FIXTURE TEXTURED BLACK – DIMMABLE	PENDANT MOUNT –	11W LED 3000K 850 LUMENS	CLASS '2' CATEGORY 'F'	X 0.25 213 LUMENS	15	3195	

SITE PHOTOMETRICS STATISTICS SUMMARY

AREA	AVG	MAX	MIN	MAX/MIN	AVG/MIN
PARKING – CARPORTS TYPICAL	1.6 fc	2.0 fc	1.0 fc	2.0:1	1.6:1
PARKING – NORTH GENERAL	0.5 fc	1.1 fc	0.3 fc	3.7:1	1.7:1
PARKING – SOUTH GENERAL	0.7 fc	2.6 fc	0.2 fc	13.0:1	3.5:1
PASEO – BLDG 1 & 2	1.8 fc	6.8 fc	0.2 fc	34.0:1	9.0:1
PASEO – BLDG 3 & 4	2.2 fc	7.9 fc	0.2 fc	39.5:1	11.0:1
PASEO – BLDG 7 & 8	2.0 fc	5.2 fc	0.2 fc	26.0:1	10.0:1
PASEO – BLDG 9 & 10	3.3 fc	5.7 fc	0.9 fc	6.3:1	3.7:1
PASEO – BLDG 10 & 11	1.6 fc	4.5 fc	0.2 fc	22.5:1	8.0:1
AMENITY GENERAL COURTYARD	5.7 fc	20.0 fc	1.1 fc	18.2:1	5.2:1
AMENITY POOL DECK	11.7 fc	22.4 fc	3.5 fc	6.4:1	3.3:1
DOG PARK	1.6 fc	2.2 fc	1.0 fc	2.2:1	1.6:1

SITE LIGHTING PROJECT SUMMARY

PROJECT SITE ACREAGE
= 12.6 ACRES

PROJECT SITE LIGHTING ZONE
= CC COMMERCIAL CORRIDOR (RESIDENTIAL)

LUMEN ALLOWANCE PER ACRE (C.O.V. TABLE 16.506–B)
= 20000 LUMENS FULLY SHIELDED
= 5000 LUMENS UNSHIELDED

PROJECT SITE TOTAL LUMEN ALLOWANCE
= 252000 LUMENS FULLY SHIELDED (20000L X 12.6 ACRES)
= 63000 LUMENS UNSHIELDED

TOTAL LUMENS IN PROJECT – SHIELDED FIXTURES
(CLASS '2' / CATEGORY 'F')
= 243677 LUMENS

TOTAL LUMENS IN PROJECT – UNSHIELDED FIXTURES
(CLASS '3' / CATEGORY 'A')
= 5500 LUMENS

SITE LIGHTING SHEET INDEX

E–0.0	SITE LIGHTING COVER SHEET
E–1.0	SITE LIGHTING LAYOUT – AREA NORTH
E–1.1	SITE LIGHTING LAYOUT – AREA SOUTH
E–2.0	SITE LIGHTING PHOTOMETRICS – AREA NORTH
E–2.1	SITE LIGHTING PHOTOMETRICS – AREA SOUTH
E–3.0	SITE LIGHTING FIXTURE CUTSHEETS
E–3.1	SITE LIGHTING FIXTURE CUTSHEETS

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RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

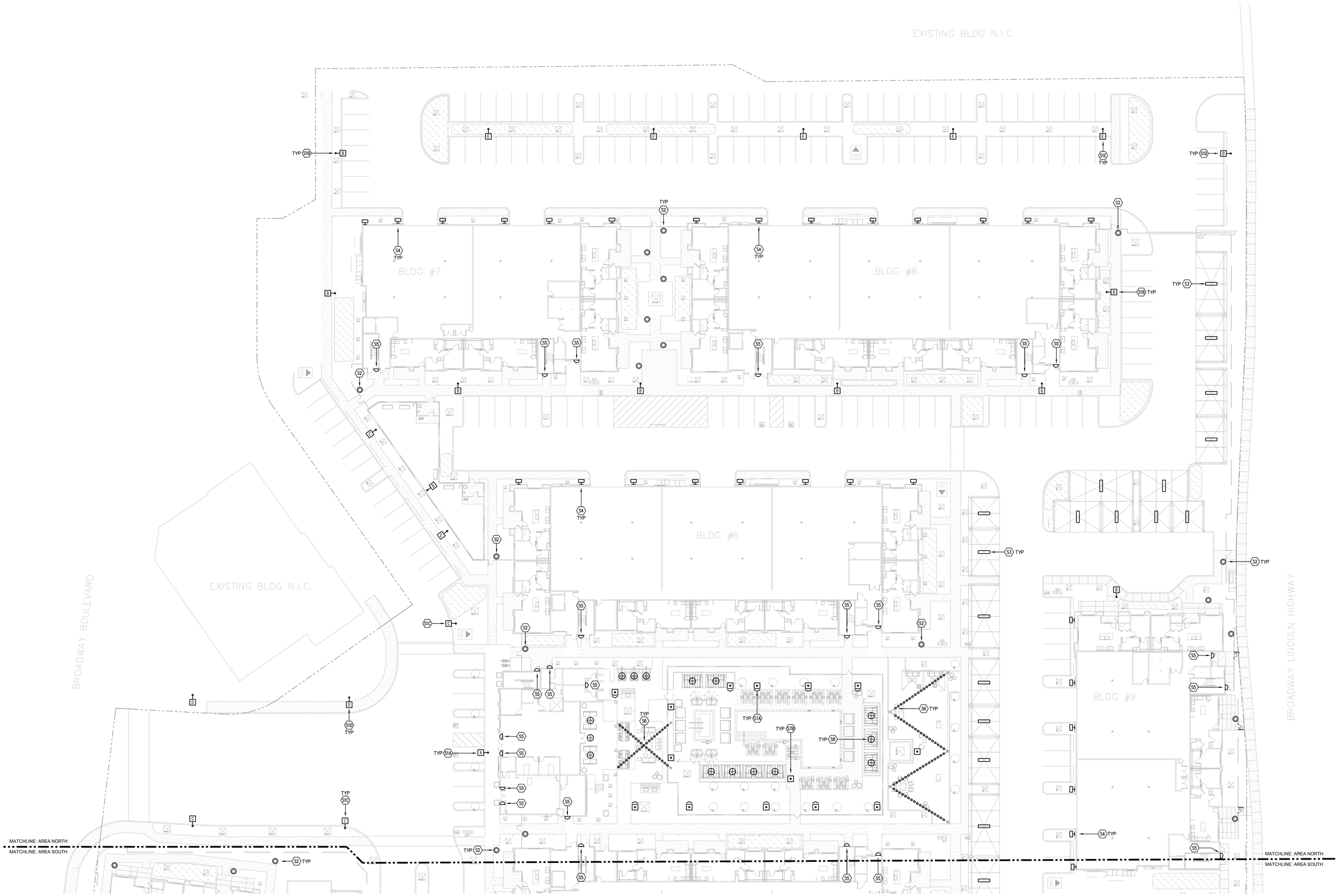
REGISTERED PROFESSIONAL ENGINEER
ROY L. ORR
No. 17842
ELECTRICAL
STATE OF CALIFORNIA

SALAS O'BRIEN
[the art & difference]
4745 N. 7th STREET
SUITE 200
PHOENIX, AZ 85014
TEL: (480) 999-6096
PROJECT #2021-03112
03-18-22
www.salasobrien.com
E-Mail mail@sobengrs.com

TCA ARCHITECTS

RSC VALLEJO | SITE DEVELOPMENT REVIEW
MARCH 18, 2022

SITE LIGHTING COVER SHEET | E-0.0



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RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

REGISTERED PROFESSIONAL ENGINEER — ROLLO DE LA CRUZ — No. E 24161 — ELECTRICAL — STATE OF CALIFORNIA

SALASOBRIEN [request a difference]
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03-18-22
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MEP | FIRE | SBS

TCA ARCHITECTS

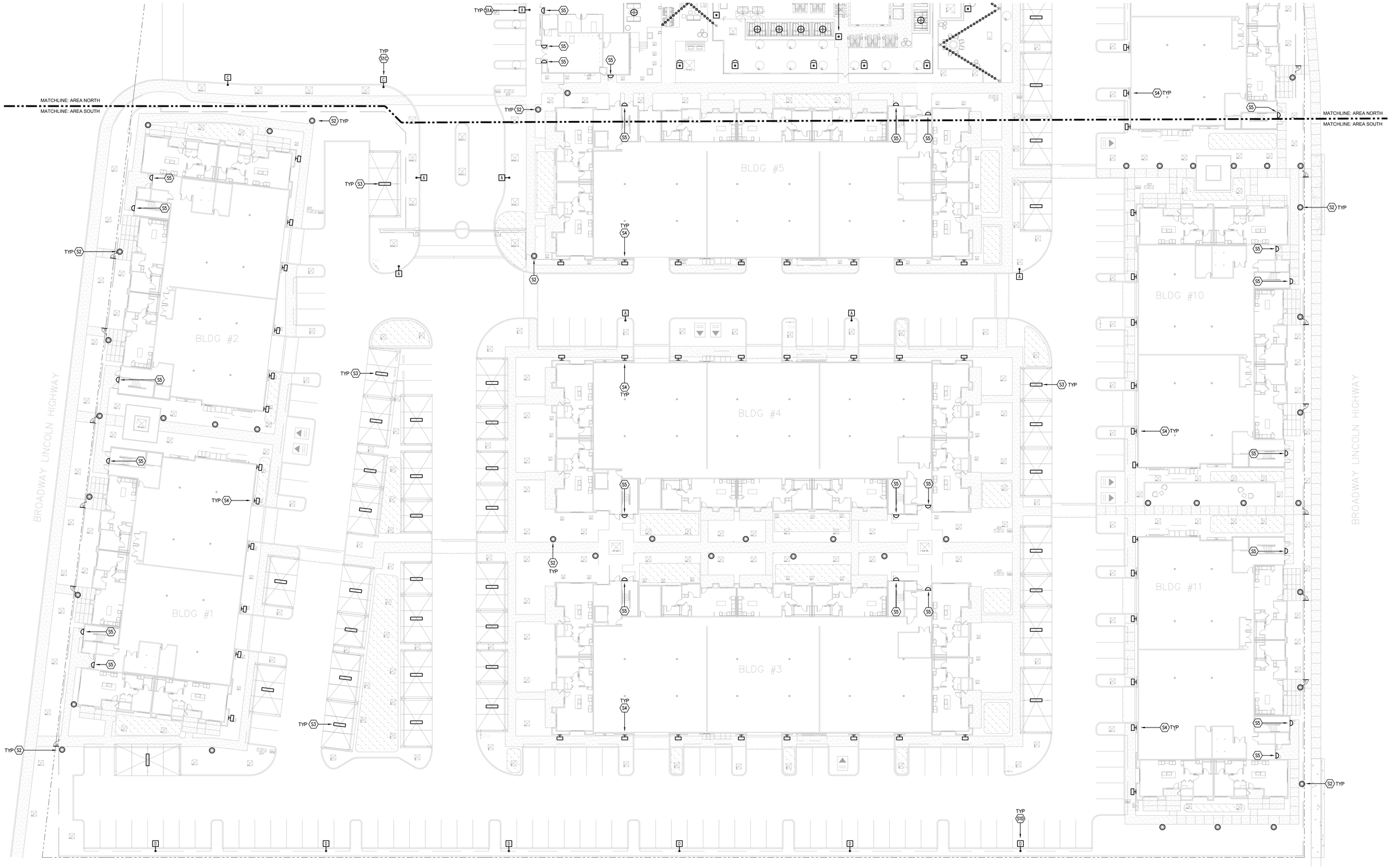
RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 18, 2022

SITE LIGHTING LAYOUT - AREA NORTH
SCALE: 1-0" = 20'-0"

N

E-1.0



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RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

REGISTERED PROFESSIONAL ENGINEER — ROY L. OTT — No. E-17472 — ELECTRICAL — STATE OF CALIFORNIA

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TEL: (480) 966-6266
PROJECT #2021-03112
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E-Mail mail@sobergrs.com

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 18, 2022

SITE LIGHTING LAYOUT - AREA SOUTH
SCALE: 1-0" = 20'-0"

N

E-1.1

EXISTING BLDG N.I.C.

EXISTING BLDG N.I.C.

BROADWAY BOULEVARD

BROADWAY LINCOLN HIGHWAY

MATCHLINE: AREA NORTH
MATCHLINE: AREA SOUTH

MATCHLINE: AREA NORTH
MATCHLINE: AREA SOUTH

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RSC VALLEJO

VALLEJO, CALIFORNIA
TCA # 2021-074

REGISTERED PROFESSIONAL ENGINEER
RONALD L. DEES
No. E 21757
ELECTRICAL
STATE OF CALIFORNIA

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[expect a difference]
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03-18-22
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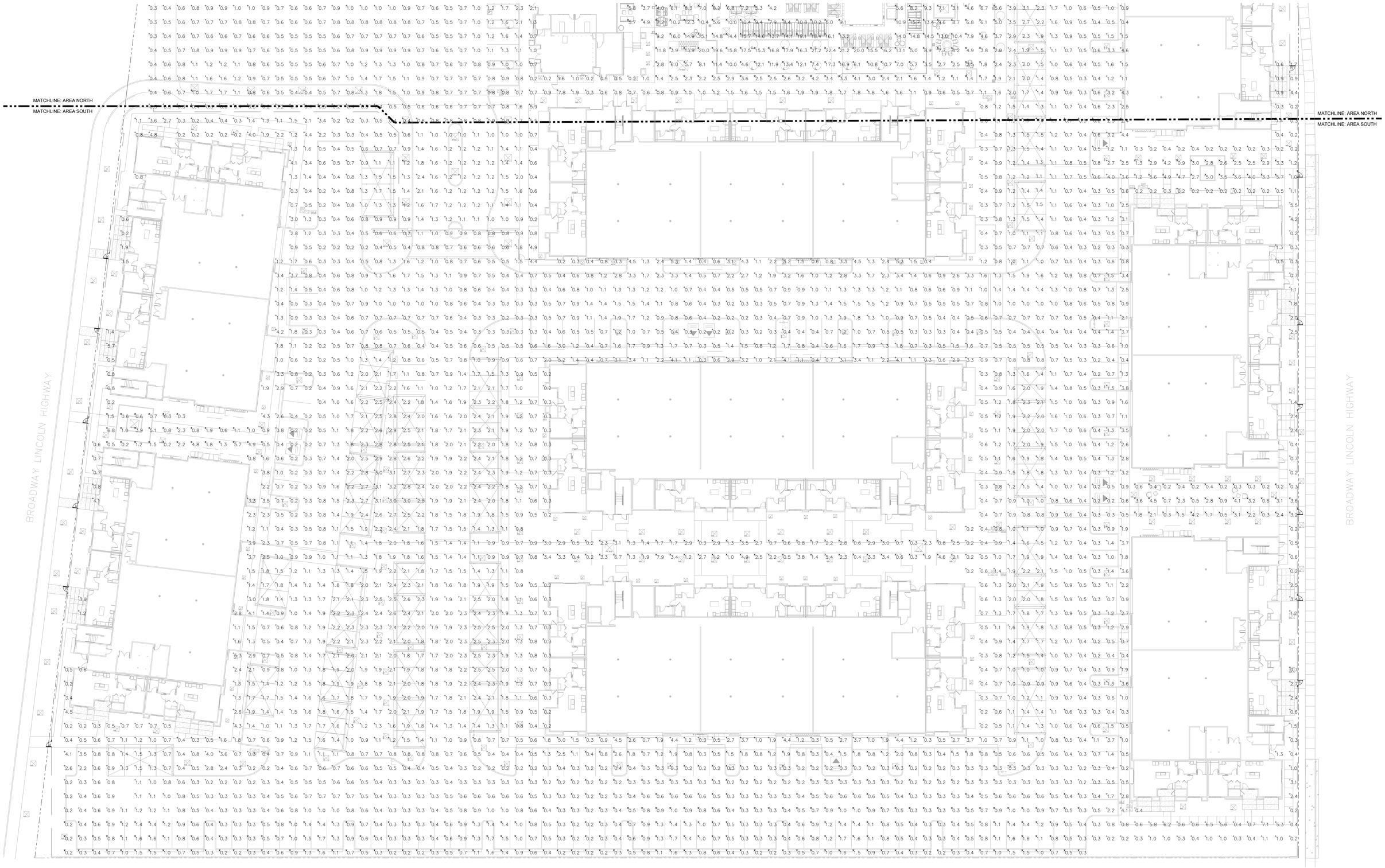
TCA ARCHITECTS

RSC VALLEJO | SITE DEVELOPMENT REVIEW
MARCH 18, 2022

SITE LIGHTING PHOTOMETRICS - AREA NORTH
SCALE: 1-0" = 20'-0"

N

E-2.0



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RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

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PROJECT #2021-03112
03-18-22
www.salasobrien.com
E-Mail mail@sobergrs.com

TCA ARCHITECTS

RSC VALLEJO

SITE DEVELOPMENT REVIEW
MARCH 18, 2022

SITE LIGHTING PHOTOMETRICS - AREA SOUTH
SCALE: 1-0" = 20'-0"

N

E-2.1

TYPE S1A S1B S1C S1D S1E

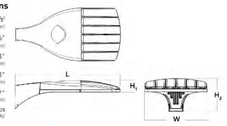
D-Series Size 0
LED Area Luminaire

d*series

Buy American

Specifications

EPA: 0.95 ft² (.09 m²)
Length: 26" (660.4 mm)
Width: 13" (330.2 mm)
Height: 3" (77.0 mm)
Height: 7" (177.8 mm)
Weight (max): 16 lbs (7.26 kg)



Catalog Number	
Notes	
Type	

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P5 P2 P6 P3 P7[1] P4[1] **Rotated optics** P10[1] P12[1] P11[1] P13[1,2]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short[1]	T5S Type I short[1] T5M Type I medium[1] T5W Type I wide[1] BLC Backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4,5] XVOLT (277V-480V)[5,6] 120[7] 208[7] 240[7] 277[7] 347[7] 480[7] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adapter (specify finish)[7]

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[8,9] PIRHN Network, high/low motion/ambient sensor[10] PER NEMA twist-lock receptacle only (control ordered separate)[11] PERS Five-pin receptacle only (control ordered separate)[11] PER7 Seven-pin receptacle only (leads exit historic) (control ordered separate)[11] DMG 0-10V dimming extend out back of housing for external control (control ordered separate)[12] PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[10] PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[10] PIR1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[10] FAO Field adjustable output[13]	**Shipped installed** HS House-side shield[2] SF Single fuse (120, 277, 347V)[7] DF Double fuse (208, 240, 480V)[7] L90 Left rotated optics[1] R90 Right rotated optics[1] DDL Diffused drop lens[1] HA 50°C ambient operation[5] BAA Buy American Act Compliant **Shipped separately** BS Bird spikes[14] EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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TYPE S2

KBC8 LED
LED Specification Bollard

Buy American

Specifications

8" Round (20.3 cm)
Height: 42" (106.7 cm)
Weight (max): 27lbs (12.25 kg)

Catalog Number	
Notes	
Type	

Introduction

The KBC8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBC8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: KBC8 LED 16C 700 40K SYM MVOLT DDBXD

KBC8 LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish (required)
KBC8 LED	**Asymmetric** 12C 12 LEDs[1] **Symmetric** 16C 16 LEDs[1]	350 350 mA 450 450 mA[2,3] 530 530 mA 700 700 mA	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted AMBLW Amber limited wavelength[2,3]	ASY Asymmetric[1] SYM Symmetric[1]	MVOLT 120[1] 208[1] 240[1] 277[1] 347[1]	PE Photoelectric cell, button type DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup, CA Title 20 Mass compliant[1]	**Shipped installed** SF Single fuse (120, 277, 347V)[1] DF Double fuse (208, 240V)[1] HS4 24" overall height HS8 36" overall height FG Ground-fault receptacle[4] L/ABA Without anchor bolts (1 bolt base) L/ABA4 4 bolt, 4 inch bolt base without anchor bolts[1]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.
WAA8 U Anchor bolts for KBC8 LED[4]

NOTES
1 Only available in the 12C, ASY version.
2 Only available in the 16C, SYM version.
3 Only available with 450 AMBCW version.
4 Not available with ELCW.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
6 Not available with MVOLT. Not available with fusing. Not available with 450 AMBSW.
7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
8 WAA8 U not available with L/ABA option.

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TYPE S3

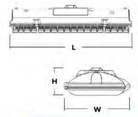
D-Series
LED Surface Canopy

d*series

Buy American

Specifications

Length: 17-3/4" (45.1 cm)
Width: 8-1/2" (21.6 cm)
Height: 3-7/16" (8.7 cm)
Weight (max): 16 lbs (7.3 kg)



Catalog Number	
Notes	
Type	

Introduction

The D-series LED Surface Canopy luminaire is ideal for covered walkways or drive-thrus, semi-covered outdoor aisles, and walk-in coolers and freezers. Its five optical choices provide the design flexibility to potentially reduce luminaire counts while still meeting IES criteria, lowering overall energy consumption.

Its expected service life of over 100,000 hours (20 years of nighttime operation) combined with the available motion/ambient sensor offers an extremely low maintenance solution that yields quick payback.

Ordering Information

EXAMPLE: DSXSC LED 20C 700 40K T5M MVOLT SRM DWHXD

DSXSC LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSXSC LED	10C 10 LEDs (one engine)[1,2] 20C 20 LEDs (two engines) 30C 30 LEDs (three engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted[3]	T5E Type V, entry way[4] T5M Type V, medium T5W Type V, wide T5R Type V, rectangular ASY Asymmetric	MVOLT[5] 277[6] 120[6] 347[6] 208[6] 480[6]	**Shipped included** SRM Surface mount (12-inch knight supply trunk)

Options	Finish (required)
Shipped installed HS House-side shield (housing visor)[7] SF Single fuse (120, 277, 347V)[6] DF Double fuse (208, 240, 480V)[6] SPD Separate surge protection[8] DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR Motion/ambient sensor for 8-15' mounting heights.[9] PIRH Motion/ambient sensor for 15-30' mounting heights.[9] PIR1FC3V Motion/ambient sensor for 8-15' mounting heights and for typical applications requiring daylight harvesting and Title 24 compliance.[9] PIRHFC3V Motion/ambient sensor for emergency circuits for 8-15 mounting heights.[9,10] PIR1FC3V924 Motion/ambient sensor for emergency circuits for 15-30' mounting heights.[9,10] **Shipped separately** BDS Bird shroud.[11]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze

Accessories

Ordered and shipped separately.
DSXSC HS House-side shield (1 per light engine)
DSXSCBDS20 DWHXD U Bird shroud for SRM on surface 1 low only, white (specify finish)

NOTES
1 Available with 700mA or 1000mA option only.
2 Not available with 347 or 480V.
3 AMBPC only available with 530mA or 700mA.
4 DesignLights Consortium qualified.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
6 Not available with any light engine (10C). Only available with 700mA or 1000mA.
7 Also available as a separate accessory; see Accessories information at left.
8 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
9 See the electrical section on page 3 for more details.
10 DMG not available with all PIR options.
11 Dimming driver standard. Available in layouts up to 30'. Not available with 347V or 480V. Not available with fusing.
12 PIR & PIRHFC3V specifies the Acuity Controls SWPIR 1st GenP motion/ambient sensor, the PIRH & PIRHFC3V specifies the Acuity Controls SBGPIR or SDGPIR motion/ambient sensor.

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TYPE S4

WDGE1 LED
Architectural Wall Sconce

Buy American

Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: (without options) 9 lbs

Catalog Number	
Notes	
Type	

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)				
				P1	P2	P3	P4	P5
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347[1]	**Shipped included** SRM Surface mounting bracket ICW Indoor Cover Wiring Master bracket strip (lamp locations only) **Shipped separately** AWS 5.08inch architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) (for wires from in-line junction box available)

Options	Finish (required)
E4WH[2] Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min) PE[3] Photocell, Button Type DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details) DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) BCE Bottom-conduit entry for back box (PBBW). Total of 4 entry points.	DDBXD Dark bronze DBLXD Black DNAXD Textured natural aluminum DWHXD Textured white DSSTD Textured sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured sandstone

Accessories

Ordered and shipped separately.
WDGEWS7DDBXD WDGE 5.08inch Architectural Wall Spacer (specify finish)
WDGEPBBWDDBXD U WDGE1 surface-mounted back box (specify finish)

NOTES
1 SDK not available in 90CRI.
2 347V not available with E4WH. DS or PE.
3 E4WH not available with PE or DS.
4 PE not available with DS.
5 Not available with E4WH.

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Ordering Information

Accessories

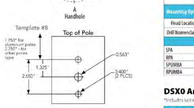
Ordered and shipped separately.
DSX0HS U House-side shield (1 per light engine)
DSX0BDS20 DWHXD U Bird spikes (specify finish)
DSX0EGS U External glare shield

NOTES
1 Not available with P4, P7, and P13.
2 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
3 BLC and LCCO or RCCO cannot be combined, is not available with HS8A.
4 Not available with HS or DDL.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). XVOLT driver operates on any line voltage from 347-480V (50/60 Hz). Not available with fusing (SF or DF).
6 XVOLT only available for use with P4, P7 and P13.
7 XVOLT operates with any voltage between 277V and 480V.
8 XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
9 Suitable for mounting to round poles between 3.5" and 12" diameter.
10 Control ordered separately. Includes nLight AIR generation 2 enabled Wireless Control. See accessories. Shorting Cap included.
11 If ordered with PIRHN, PERS, PER7, PIR, PIRH, PIR1FC3V or PIRHFC3V, FAO.
12 Not available with PIR or PIRH.
13 Reference Motion Sensor Default Table on page 4 to see functionality.
14 Not available with other dimming controls options.
15 Not available with BLC, LCCO and RCCO distribution.
16 Must be ordered with fixture for factory pre-drilling.
17 Must be ordered with fixture for factory pre-drilling. "PERS" option. See Controls Table on page 4.
18 For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

EGS – External Glare Shield

Drilling

HANDHOLE ORIENTATION (from top of pole)



1.750" for 2 poles on poles 4.5" or other pitches type T

Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Shift	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5-190	AS3-5-280	AS3-5-290	AS3-5-390	AS3-5-320	AS3-5-490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Options	Drilling Templates	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	RB	DM19RS	DM28AS	DM29RS	DM39RS	DM32AS	DM49AS

Mounting Options	Drilling Templates	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	RB	DM19RS	DM28AS	DM29RS	DM39RS	DM32AS	DM49AS

Mounting Options Drilling Templates

DM	RB	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	RB	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
VPA98A	PS	2-7/8"	3"	4"	4"	3"	4"
RPA98A	PS	2-7/8"	3.5"	5"	5"	3.5"	5"

DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Does not include accessories, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 LED	0.950	1.980	1.830	2.830	2.950	3.544

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Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engine	Input Wattage	System Watts	5000 K				4000 K				3000 K				Limited Wavelength Amber			
			Lumens	LPW	B	U	Lumens	LPW	B	U	Lumens	LPW	B	U	Lumens	LPW	B	U
Asymmetric 1 Engines (10 LEDs)	350	96	641	45	1	1	1	5	809	51	1	1	1	5	870	54	1	1
	530	22	947	43	1	1	1	1	1,191	54	1	1	1	1	1,282	58	1	1
	700	31	1,214	40	1	1	1	1	1,527	51	1	1	1	1	1,646	55	1	1
	Amber 450	16																
Symmetric 4 Engines (16 LEDs)	350	20	888	44	1	0	0	1	1,116	56	1	0	0	1	1,203	60	1	0
	530	28	1,254	45	1	0	0	1	1,558	57	1	0	0	1	1,739	63	1	0
	700	39	1,608	41	1	0	1	1	2,022	52	1	0	1	1	2,100	56	2	0
	Amber 450	20																

Light Engine	Input Wattage	System Watts	Limited Wavelength Amber			
			Lumens	LPW	B	U
Asymmetric 1 Engines (10 LEDs)	350	96				
	530	22				
	700	31				
	Amber 450	16	324	20	0	1
Symmetric 4 Engines (16 LEDs)	350	20				
	530	28				
	700	39				
	Amber 450	20	374	19	0	0

Note: Available with phosphor-converted amber LEDs (incremicastone AMBPC). These LEDs product light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

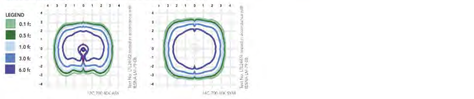
Electrical Load

Drive Current	System Watts	Current (A)				
		120V	208V	240V	277V	347V
350	96W	0.78	0.178	0.174	0.159	0.180
530	22W	0.217	0.146	0.136	0.128	0.118
700	31W	0.296	0.185	0.168	0.153	0.535
Amber 450	16W	0.161	0.128	0.170	0.130	0.186
350	20W	0.197	0.137	0.126	0.125	0.114
530	28W	0.262	0.178	0.162	0.148	0.555
700	39W	0.365	0.231	0.207	0.185	0.743
Amber 450	20W	0.199	0.139	0.130	0.125	0.114

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KBC8 Bollard webpage.

Isofootcandle plots for the KBC8 LED Bollards. Distances are in units of mounting height (0')



FEATURES & SPECIFICATIONS

INTENDED USE
The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

CONSTRUCTION
One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three ½" x 11" anchor bolts with double nuts and washers and 3 ¾" bolt circle template ensure stability. Overall height is 42" standard.

FINISH
Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or pealing. Available in both textured and non-textured finishes.

OPTICS
Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66-sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (+70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL
Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/120,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -22°C minimum ambient.

BUY AMERICAN
This product is assembled in the USA and meets the Buy American government procurement requirements under FARS, DFARS and DOT. Please refer to sustainability.acuitybrands.com/government-solutions for additional information.

WARRANTY
Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Light Engine	Drive Current (mA)	Input Watts	Dist. Type	3K (3000K, 80 CRI)						4K (4000K, 80 CRI)						5K (5000K, 80 CRI)						AMBPC			
				Lumens	LPW	B	U	G	C	Lumens	LPW	B	U	G	C	Lumens	LPW	B	U	G	C	Lumens	LPW	B	U
10C (10 LEDs)	700 mA	209W	ASY	4,459	2,603	0	0	1	186	4,770	2,784	1	0	1	197	4,859	2,836	1	0	1	198	4,253	2,483	1	0
			SYM	4,158	2,428	1	0	1	186	4,450	2,598	1	0	1	197	4,534	2,647	1	0	1	198	3,968	2,317	1	0
	1000 mA	378W	ASY	5,745	2,126	1	0	2	186	6,147	2,275	2	0	2	197	6,262	2,318	2	0	2	198	5,481	2,029	2	0
			SYM	5,360	1,984	1	0	2	186	5,735	2,124	2	0	2	197	5,842	2,164	2	0	2	198	5,113	1,894	2	0
20C (20 LEDs)	350 mA	229W	ASY	8,918	3,894	1	0	2	192	9,541	4,166	2	0	2	203	9,719	4,244	2	0	2	204	8,506	3,714	2	0
			SYM	8,316	3,630	2	0	2	192	8,896	3,884	2	0	2	203	9,062	3,956	2	0	2	204	7,931	3,462	2	0
	530 mA	378W	ASY	13,518	3,576	2	0	3	192	14,463	3,826	2	0	3	203	14,733	3,897	2	0	3	204	12,892	3,410	2	0
			SYM	12,606	3,335	2	0	3	192	13,488	3,568	2	0	3	203	13,739	3,634	2	0	3	204	12,023	3,180	2	0
	700 mA	469W	ASY	17,577	3,747	2	0	3	198	18,806	4,009	2	0	3	209	19,151	4,083	2	0	3	210	16,757	3,573	2	0
			SYM	16,387	3,493	2	0	3	198	17,535	3,738	2	0	3	209	17,860	3,807	2	0	3	210	15,631	3,332	2	0
	1000 mA	749W	ASY	23,437	3,130	2	0	3	198	25,076	3,349	2	0	3	209	25,535	3,410	2	0	3	210	22,343	2,984	2	0
			SYM	21,850	2,918	2	0	3	198	23,383	3,123	2	0	3	209	23,813	3,180	2	0	3	210	20,841	2,783	2	0
30C (30 LEDs)	350 mA	333W	ASY	13,337	3,896	2	0	3	198	14,272	4,169	2	0	3	209	14,535	4,245	2	0	3	210	12,722	3,716	2	0
			SYM	12,424	3,629	2	0	3	198	13,298	3,884	2	0	3	209	13,546	3,956	2	0	3	210	11,855	3,463	2	0
	530 mA	519W	ASY	20,202	3,892	2	0	3	198	21,618	4,165	2	0	3	209	22,013	4,241	2	0	3	210	19,270	3,712	2	0
			SYM	18,816	3,625	2	0	3	198	20,140	3,880	2	0	3	209	20,513	3,952	2	0	3	210	17,954	3,459	2	0
	700 mA	679W	ASY	25,966	3,824	2	0	3	198	27,792	4,093	2	0	3	209	28,305	4,169	2	0	3	210	24,778	3,648	2	0
			SYM	24,188	3,562	2	0	3	198	25,886	3,812	2	0	3	209	26,364	3,883	2	0	3	210	23,076	3,398	2	0
	1000 mA	1079W	ASY	34,662	3,212	2	0	3	198	37,094	3,437	2	0	3	209	37,774	3,500	2	0	3	210	33,072	3,064	2	0
			SYM	32,282	2,991	2	0	3	198	34,547	3,201	2	0	3	209	35,186	3,260	2	0	3	210	30,805	2,854	2	0

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	32°F 1.02
10°C	50°F 1.01
25°C	68°F 1.00
25°C	77°F 1.00
30°C	86°F 1.00
40°C	104°F 0.98

Electrical Load

Drive Current (mA)	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
350	96W	0.85	0.15	0.13	0.11	--	--
530	22W	0.37	0.21	0.16	0.16	--	--
700	31W	0.25	0.33	0.12	0.10	--	--
350	20W	0.23	0.33	0.12	0.10	--	--
530	37W	0.33	0.19	0.17	0.14	--	--
700	46W	0.43	0.25	0.22	0.19	0.15	0.11
1000	74W	0.68	0.39

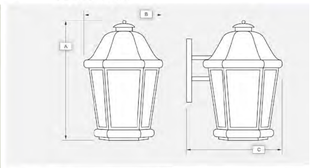
TYPE S5

EVERGREEN LIGHTING

BARCELONA

Catalog #		Type	
Project			
Description		Date	

ARM MOUNT



Standard Features

Material
Paintlok sheet; Standard Powdercoat Finish, White Acrylic Lens; .125 thickness, ETL Wet Location.

Installation
Mounting/wireway hole in center of backplate. Supplied with standard mounting hardware to mount to a 4" J-box or plaster ring.

Optics*
Contact Evergreen Lighting for complete photometrics.

LED Features

LED
Arla LED #AL-R-1W-30LED array to be mounted onto an Aluminum MPCB Board configured to the proper wattage. The LED arrays will be centered within the Lens area and mounted on a white aluminum reflective plate.

Driver
Specific Drivers will be matched with each different LED array configuration/wattage.
Standard Driver Features:
- Constant Current
- 3 / 5 year warranty
- 120/277 multi-voltage power supplies
- Kelvin - 2700K, 3000K, 3500K, 4100K, 5000K

Fluorescent Features

Ballast
SG programmered electronic high power factor ballast, multivoltage 120V/277V. Lamps not included

Finishes

Ballast

Architectural Bronze (AB)	Textured Gold (TG)
Textured Bronze (TBR)	Metallic Nickel (MN)
Matte Black (MBK)	Textured Verde Patina (TVP)
Semi Gloss Black (GBK)	Satin Brass (SB)
Textured Black (TBK)	Copper Vein (CV)
Textured Rust (TR)	Gold Vein (GV)
Matte White (MW)	Silver Vein (SV)
Textured White (TW)	Chrome (CH)
Gloss White (GW)	Oil Rubbed Bronze (ORB)
Metallic Grey (MG)	

Options*

Emergency (EMR)	Special Lens
Photocell (PC)	Incandescent
Lamp Sources	
Size Modifications	
Vandal Proof Enclosure (VPE)	

Sample Spec Number: BAR2103Q-AB-A

Part #	Lamp/Watts	Lumens	A	B	C
BAR2103Q	13Q	800	16	11	12
BAR2105T	26T	1800	16	11	12
BAR2104Q	2-13Q	1600	16	11	12
BAR2105	26Q	1800	16	11	12
BAR2211	32T	2200	19	14	15
BAR2204Q	2-13Q	1600	19	14	15
BAR2206	2-26Q	3600	19	14	15
BAR2222	42T	3200	19	14	15
BAR2106L	6LED	600	16	11	12
BAR2110L	10LED	1000	16	11	12
BAR2112L	12LED	1200	16	11	12
BAR2220L	20LED	2000	19	14	15
BAR2224L	24LED	2400	19	14	15
BAR2240L	40LED	4000	19	14	15
DARK SKY					
BAR2109LS	9LED	900	16	11	12
BAR2115LS	15LED	1500	16	11	12
BAR2220LS	20LED	2000	19	14	15

*Consult Factory

MADE IN CALIFORNIA

Evergreen Lighting
1379 Ridgeway Street, Pomona, CA 91768
Ph: 909-865-5599 Fax: 909-865-5539
www.evergreenlighting.com

TYPE S6

The Basic System

The Exhibitor Series sockets are permanently sealed to flexible cable with shatterproof polycarbonate globes. Fixtures are wet-location listed and rated IP65. When specifying an Exhibitor Lighting System, take into consideration: Socket Spacing, LED Style and Globe Selection.

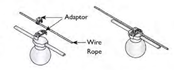
EXBK - 6 - VIWW - S14 - C

Cable / Socket Color		Socket Spacing		LED		Globe Style	Globe Color	
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Style	Code	Color
BK	Black	6	6" (150 mm)	UBLW	2000K White	1.8 W / 24 VAC	G19	G-19	C	Clear
WH	White	12	12" (300 mm)	UBWW	2400K White	1.8 W / 24 VAC	G14	G-14	F	Frosted
		18	18" (450 mm)	UBIW	3000K White	1.8 W / 24 VAC	S14	S-14	G	Green
		24	24" (600 mm)	VILW	2000K White	1.8 W / 24 VAC	G-14 & S-14 n clear and frosted only		A	Amber
			Custom spacing is available.	VIWW	2400K White	1.8 W / 24 VAC			B	Blue
				VIIW	3000K White	1.8 W / 24 VAC			R	Red
				Virtual Incandescent (VILW, VIWW & VIIW) not for use with Frosted Globes					V	Violet
				WW	2500K White	0.48 W / 24 VAC			M	Multi-Color
				WH	5500K White	0.48 W / 24 VAC				
				BL	Blue	0.48 W / 24 VAC				
				GR	Green	0.48 W / 24 VAC				
				OR	Orange	0.48 W / 24 VAC				
				PL	Purple	0.48 W / 24 VAC				
				RD	Red	0.48 W / 24 VAC				
				YG	Yellow-Green	0.48 W / 24 VAC				
				(Any Combination of 0.48 Watt Colors is Possible)						
				Xenon Lamp						
				124	2500K	7.5 W / 24 VAC				
				Xenon lamp not for use with G-14 globes or Exhibitor Pendants						

Mounting Options

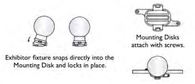
Festoon Mounting

Part# EX-MDA-WH (White)
Part# EX-MDA-BK (Black)
For festoon applications to a catenary cable, our wire-rope adaptors securely hold each socket in place to a 1/16" or 1/8" diameter wire rope. Wire rope and associated mounting hardware is not provided with the system.



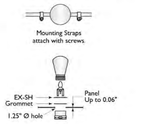
Surface Mounting with Disks

Part# EX-MD-WH (White)
Part# EX-MD-BK (Black)
Exhibitor Series can be surface mounted to structures using mounting disks. One disk is required for mounting each socket. The socket can be snapped into the disk and screwed in place to the structure.



Surface Mounting with Straps

Part# EX-MS-WH (White)
Part# EX-MS-BK (Black)
Exhibitor Series may be surface mounted to structures using our mounting straps. Two straps are required for mounting each socket. Straps are positioned on either side of the socket, and then screwed securely to the structure.



Panel/Extrusion Mounting

Part# EX-SH
For installations to flat panels or extrusions up to 0.06", we offer stainless-steel panel fasteners. The socket assembly is inserted from below, then the panel fastener and grommet are pressed in place from above.

Fixture Lengths

To minimize voltage drop and keep conductors safely within their ratings, do not exceed the maximum lengths shown for each independent fixture.

Maximum Run Lengths			
	0.48 W LEDs	UB & VI LEDs	Xenon Lamp
Socket Spacing	0.48 Watt / 24 VAC	1.8 Watt / 24 VAC	7.5 Watt / 24 VAC
6" (150 mm)	250' (76 M)	125' (38 M)	32' (10 M)
12" (300 mm)	350' (106 M)	200' (60 M)	56' (17 M)
18" (450 mm)	420' (128 M)	225' (68 M)	72' (22 M)
24" (600 mm)	500' (152 M)	250' (76 M)	80' (24 M)

Transformers

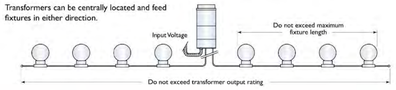
Tokistar transformers operate from a 120 VAC / 60 Hz input and are fully dimmable. They are provided in a Nema 3R enclosure. The secondary outputs are protected by circuit breakers. Transformers should be installed in an accessible location where there is free air circulation.

24 VAC Transformers					
Number	Outputs	D	H	W	Weight
C2-40-24V	1 @ 40 Watt / 24 VAC	2.25"	5.75"	2.25"	2 lbs
C2-96-24V	1 @ 96 Watt / 24 VAC	2.5"	6.5"	3.0"	3 lbs
T24-150	1 @ 150 Watt / 24 VAC	3.0"	9.0"	3.0"	5 lbs
T24-300	1 @ 300 Watt / 24 VAC	3.5"	9.5"	4.5"	8 lbs
T24-600	1 @ 600 Watt / 24 VAC	4.5"	10.5"	4.5"	15 lbs
T24-1200	2 @ 600 Watt / 24 VAC	5.0"	11.5"	7.0"	28 lbs

Exhibitor Pendants are for use with the C2-40-24V and C2-96-24V Class 2 transformers.

Consult factory for transformers with input voltages of 230 or 277 VAC. Sizes and weights shown are approximate and subject to change without notice.

Transformers can be centrally located and feed fixtures in either direction.



Specifications

- **Polycarbonate Globe** with flammability rating UL 94V-2
- **Light Sources** include LED and Xenon lamps
- **Flexible Conductors** #12 AWG stranded and plated wire
- **Two O-Rings** on each globe for weatherproof seal
- **Sockets** permanently fastened to cable with sealant
- **Insulation** is flexible PVC with flammability rating UL 94 HB

Exhibitor Series is ETL Wet-Location Listed to UL Standards and marked in accordance with CE Standards.

TYPE S7A S7B

Valiant™ Full Cutoff LED
Series AVPCL2

PRODUCT OVERVIEW

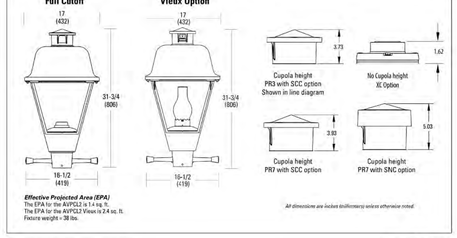
Applications:

Streetscapes
Walkways
Pathways
Parks

Features:

- Colonial LED lantern, replaces up to 250W HID models for street and area lighting applications
- Fourteen (14) LED performance packages deliver just the right amount of light for any given application up to 13,000 lumens
- Available in color temperature choices of 2700K, 3000K and 4000K
- Designed for up-light restrictive applications, AVPCL2 has zero up-light
- Three (3) distinct light distribution options provide design flexibility, available in Type II, Type III and Type V
- Die-cast aluminum housing, engineered for sturdy life-long performance
- Die-cast aluminum hood features a trigger latch (TL) option and captive thumb screws for fast, easy electrical and optical chamber access
- Standard black finish is matte texture. All other finishes are smooth gloss.
- Housing is tenon pole-mounted and designed for use with a 3" tall by 2-3/8" to 3" diameter tenon, and secured by three set screws.
- Rated LED and driver life greater than 100,000 hours at 25°C
- Complies with ANSI C136.2, C136.10, C136.15
- CSA listed and suitable for up to 40°C ambient
- Surge protection device (standard) exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Enhanced (10kV/5kA). 20kV Option exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Extreme (20kV/10kA)
- Equipped with LED electronic 8-10V dimmable driver

DIMENSIONS



Note: Specifications subject to change without notice.
Valiant Full Cutoff LED Series - AVPCL2

AEL American Electric Lighting

TYPE S8

SPS-0457 REV 9.
AVALON INTEGRATED LED SERIES
JOB NAME: FIXTURE TYPE:

BLE - [A] - [B] - [C] - [D] - [E] - [F] - [G] -
[H] - [I] - [J] - [K] - [L]

Order Example: BLE - G - WHA14 - 150 - G15 - 100 - NA - WC - 400 - LED27 - 3000K - DL

A - MOUNTING STYLE
C Cord Hung
CN Chain Hung
F Flush Mount[1]
G Gooseneck
S Stem Mount

B - SHADE SIZE
AVALON:
WHA8 8" Shade[1]
WHA10 10" Shade[1]
WHA12 12" Shade
WHA14 14" Shade
WHA16 16" shade

C - SHADE FINISH
PORCELAIN FINISHES[2]:
150 Black
250 White
350 Vintage Green
355 Jadite
455 Cherry Red
550 Yellow
650 Bronze
750 Cobalt Blue
765 Delphite Blue
850 Graphite
950 Metallic Chrome
POWDER COAT FINISHES[2]:
100 Black
105 Textured Black
106 Matte Black
200 White
206 Matte White
300 Dark Green
307 Emerald Green
311 Jadite
370 Mint
380 Chartreuse
390 Teal
400 Barn Red
420 Orange
470 Watermelon
480 Blush Pink
490 Magenta
495 Sherbet Orange
500 Buttery Yellow
570 Sunflower
600 Bronze
601 Chocolate
605 Rust
615 Oil-Rubbed Bronze
700 Royal Blue
705 Navy
710 Cobalt Blue
715 Delphite Blue
790 Lavender
800 Industrial Grey
805 Charcoal Granite
810 Graphite
975 Galvanized
NATURAL METALS[2]:
995 Raw Copper
996 Weathered Copper
997 Raw Brass
998 Weathered Brass
999 Oil-Rubbed Copper

D - MOUNTING
Please Note: If Flush Mount (F) is selected in Section A, please select NA
NA Not Applicable

CSA LISTED CORDS:
SBK Standard Black
SWH Standard White
CSB Black Cloth
CSW White Cloth
CMG Grey Cloth
CSR Red Cloth
CRZ Red Chevron Cloth
CSBB Black & Brown Cloth
CSBG Red & White Cloth
CSGW Gold & White Cloth
CSBG Black & Gold Cloth
CSBW Black & White Cloth
CSBP Black & Pink Cloth
CSUW Blue & White Cloth
CHAIN MOUNT OPTIONS[2,4]:
CN36 3' of Chain
CN48 4' of Chain
CN60 5' of Chain
CN72 6' of Chain

C - SHADE FINISH (CONTINUED)
POWDER COAT FINISHES[2]:
605 Rust
615 Oil-Rubbed Bronze
700 Royal Blue
705 Navy
710 Cobalt Blue
715 Delphite Blue
790 Lavender
800 Industrial Grey
805 Charcoal Granite
810 Graphite
975 Galvanized
NATURAL METALS[2]:
995 Raw Copper
996 Weathered Copper
997 Raw Brass
998 Weathered Brass
999 Oil-Rubbed Copper

D - MOUNTING (CONTINUED)
GOOSENECK OPTIONS:
G9[1] G10[2] G24[3]
G22[3,4] G11[2] G25[3]
G39[1,2] G12[2] G26[2]
G41[1,2] G13[2] G32[2]
G5[2] G14[2] G34[3,4]
G6[1,2] G15[2] G35[2]
G7[2] G16[2] G36[3,4]
G8[1,2] G17[2] G44[3,4]
G9[2] G22[2] G65[3,5]
STEM MOUNT OPTIONS:
ST506 .5" Stem Mount, 6"[1]
ST512 .5" Stem Mount, 12"[1]
ST518 .5" Stem Mount, 18"[1]
ST524 .5" Stem Mount, 24"[1]
ST536 .5" Stem Mount, 36"[1]
ST548 .5" Stem Mount, 48"[1]
ST706 .75" Stem Mount, 6"[1]
ST712 .75" Stem Mount, 12"[1]
ST718 .75" Stem Mount, 18"[1]
ST724 .75" Stem Mount, 24"[1]
ST736 .75" Stem Mount, 36"[1]
ST748 .75" Stem Mount, 48"[1]

E - MOUNTING FINISH
Please Note: See Section C for Finish Options. 980-Brushed Aluminum is also available for Gooseneck (Not Available with G36, G40, G64 & G65) and Stem mounting styles. If a Porcelain shade finish is selected, mounting will be powder coat painted to match. Porcelain finishes are not available with a Natural Metal mounting finish.
(2) If Cord Hung (C), selections identifies canopy finish
(3) If Chain Hung (CN) Mounting Style, selection identifies chain and canopy finish.
(4) If Gooseneck (G) Mounting Style, selection identifies arm and canopy finish.
(5) If Flush Mount (F) Mounting Style, selection identifies canopy finish.
Natural Metals are not available
980 Brushed Aluminum

F - CORDS[5]
Please Note: See Section D for all applicable CSA Listed Cord Options
NA Not Applicable

G - SHADE ACCESSORIES[1]
NA None
WC Wire Cage
ACR Acrylic Diffuser[6,10]

H - SHADE ACCESSORY FINISH
Please Note: See Section C for Finish Options. Natural Metals not applicable. If Porcelain Finish is selected, accessory will be powder coat painted to match
NA Not Applicable

I - MOUNTING ACCESSORY
Please Note: Mounting Accessories below are only applicable with select Mounting Styles, please refer to product listings on our website for further details.
NA None/Not Applicable
HSC Hang Straight Canopy[6,9]
LDBPC LED Decorative Backing Plate Cover[8,10]
LDCHX LED Decorative Backing Plate Cover & Hex Cover[8,10]

J - LIGHT SOURCE
LED11 850 Lumen, 11W LED
LED16 1250 Lumen, 16W LED
LED27 2000 Lumen, 27W LED[10]
LED38 3000 Lumen, 38W LED[10]
LED43 4000 Lumen, 43W LED[10]

K - COLOR TEMPERATURE
2700K 2700K, Warm White
3000K 3000K, Neutral White
3500K 3500K, Bright White
4000K 4000K, Cool White

L - LED LENS
DL Domed Lens
FL Flat Lens

(IMPORTANT): *(1) Not available with Acrylic Diffuser shade accessory. (2) All Porcelain Enamel finished shades feature a white interior and a black outer rim. (3) All Powder Coat finished shades, Galvanized excluded, feature a white interior. (4) Natural Metals have a longer estimated manufacturing time, please check the website for exact lead time. There are no returns accepted on Natural Metals. (5) Not available in Natural Metals. (6) Not applicable if WHA8 is selected in Section B. (7) Not compatible with 16" shade size. (8) Only applicable if Chain Hung Mounting Style selected in Section A, select NA if another Mounting Style is selected. (9) Acrylic Diffuser limits the maximum lumen selection as well as reduces lumens delivered and LPW. Maximum lumen selection is 2000 lumens for 12" through 16" shades. (10) Not available if Steel Mounting Style is selected in Section A. (11) Only applicable if Gooseneck Mounting Style is selected in Section A. (12) Not Available with G5, G6, G11, G15, G26 & G35 Gooseneck option. (14) Not applicable if WHA8 or WHA10 is selected on Section B.*

Address: 3200 Knox Hollow Drive Trussville, TX 35180 Phone: (800) 451-8744 Email: sales@barnlight.com Website: www.barnlight.com

Valiant™ Full Cutoff LED
Series AVPCL2

ORDERING INFORMATION

Example: AVPCL2 P301 MVOLT 30K R3 BK SCC PR7

Series	Performance Package			Voltage	Color Temperature (CCT)
	Package	Input Watts	Lumens (nominal)		
AVPCL2 Valiant Full Cutoff LED	P101	36	3,200	MVOLT 120-277V	27K 2700K
	P102	48	4,100	HVOLT 347-480V	30K 3000K
	P103	50	4,900	XVOLT 277-480V with enhanced power quality protection	40K 4000K
	P151	58	5,300		
	P152	68	6,300		
	P153	78	7,100		
	P201	78	7,400		
	P202	88	8,200		
	P203	98	8,900		
	P301	78	7,900		
	P302	88	8,900		
	P303	98	9,800		
	P304	100	10,600		
	P451	100	11,600		
	P452	110	12,600		

Distribution	Finish	Cupola	Photocontrol Receptacle
R2 Type II	BK Black matte texture	SCC Standard cupola	NR No photocontrol receptacle
R3 Type III	GY Gray, smooth gloss	SNC Smart node cupola	PR3 3 pin NEMA photocontrol
R5 Type V	DDB Dark Bronze, smooth gloss	XC No cupola	PR7 7 pin NEMA photocontrol
	WH White, smooth gloss		
	BZ Bronze, smooth gloss		

Options

Controls
PCLL Solid state long life photocontrol 120-277V (fail off)
P34 Solid state long life photocontrol, 347 Volt only (fail off)
P48 Solid state long life photocontrol, 480 Volt only (fail off)
PCSS Solid state photocontrol, 120-277V (incl CSA Listed) (fail on)
SH Shorting cap
A0 Field adjustable output module
DALI DALI driver (HID required)

Miscellaneous
SS Stainless steel hardware
TL Tool-less trigger latch entry
NL1Y1 1" x 1" NEMA label
NL2X2 2" x 2" NEMA label
XL Not CSA Listed
LDR Ladder Rest
CR Epoxy Pre-Coat Finish
20KV 20kV/10kA surge protection device
VX Vieux Option
VACA VX option with Clear Acrylic lens

House-Side Shields
HSS House Side Shield

Prewired leads
L1R 1.5 ft. prewired leads
L03 3 ft. prewired leads
L10 10 ft. prewired leads
L20 20 ft. prewired leads
L25 25 ft. prewired leads
L30 30 ft. prewired leads

Accessory
House Side Shield shipped separately and installed in the field
FHSSLEM10-15R2/R5 P10x or P15x package, R2 or R5 optic
FHSSLEM16-15R3 P10x or P15x package, R3 optic
FHSSLEM20-30R2/R5 P20x or P30x package, R2 or R5 optic
FHSSLEM20-30R3 P20x or P30x package, R3 optic
FHSSLEM45R2/R5 P45x package, R2 or R5 optic
FHSSLEM45R3 P45x package, R3 optic

Note: Check the OPTIONS MATRIX on Page 3 for compatibility & restrictions

AEL American Electric Lighting

AEL Headquarters, 3825 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com
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Warranty Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions
Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.
Please contact your sales representative for the latest product information.

BARN LIGHT ELECTRIC CO. AVALON INTEGRATED LED SERIES SPS-0457 REV 9.

MOUNTING STYLE

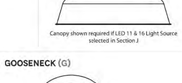
HIGH LUMEN CANOPY FOR PENDANT & FLUSH MOUNT

Required if LED 27, 38, 43 Light Source selected in Section J

FLUSH MOUNT (F)

Canopy shown required if LED 11 & 16 Light Source selected in Section J

STEM MOUNT PENDANT (S)



Canopy shown required if LED 11 & 16 Light Source selected in Section J

CHAIN HUNG PENDANT (CN)

Canopy shown required if LED 11 & 16 Light Source selected in Section J

GOOSENECK (G)

CORD HUNG PENDANT (C)

Canopy shown required if LED 11 & 16 Light Source selected in Section J

LUMINAIRE DIMENSIONS

SHADE CODE	HEIGHT (A)	DIAMETER (B)
WHA8	5.25"	8"
WHA10	6"	10"
WHA12	6.75"	12"
WHA14	7.75"	14"
WHA16	8.50"	16"

Address: 3200 Knox Hollow Drive Trussville, TX 35180 Phone: (800) 451-8744 Email: sales@barnlight.com Website: www.barnlight.com

Last saved by ramon.benjamin Layout1 P:\2021\2021-03112\Cad\1_ENTITLEMENT\P21037_E31.dwg 03/18/2022 09:37
Last plotted by ramon.benjamin Layout1 P:\2021\2021-03112\Cad\1_ENTITLEMENT\P21037_E31.dwg 03/18/2022 11:24

RSC VALLEJO
VALLEJO, CALIFORNIA
TCA # 2021-074

REGISTERED PROFESSIONAL ENGINEER — ROY C. SALAS — No. 17837 — ELECTRICAL — STATE OF CALIFORNIA

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PHOENIX, AZ 85014
TEL: (480) 906-6200
PROJECT #2021-03112
03-18-22
www.salasobrien.com
E-Mail mail@sobergs.com

TCA ARCHITECTS

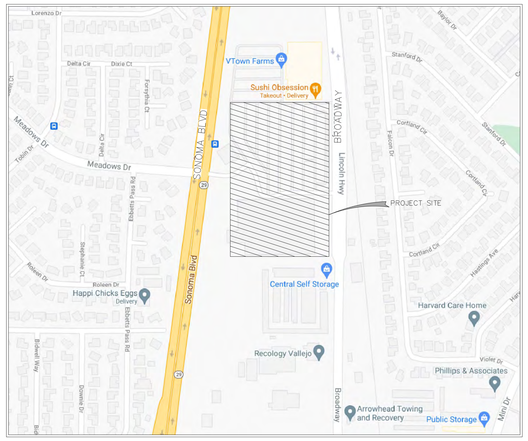
RSC VALLEJO | SITE DEVELOPMENT REVIEW
MARCH 18, 2022

SITE LIGHTING FIXTURE CUTSHEETS

E-3.1

RSC VALLEJO

5180 SONOMA BOULEVARD
VALLEJO, SOLANO COUNTY, CALIFORNIA



VICINITY MAP
N.T.S.

GENERAL NOTES

1. CITY'S APPROVAL OF PLANS DOES NOT RELIEVE THE OWNER OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS OR OMISSIONS CONTAINED THEREIN.
2. ALL WORK SHALL CONFORM TO THE CURRENTLY ADOPTED EDITIONS OF THE STANDARD PLANS AND SPECIFICATIONS OF THE CITY OF VALLEJO UNLESS OTHERWISE NOTED.
3. "CITY ENGINEER" SHALL MEAN THE CITY ENGINEER OR HIS/HER DESIGNEE ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY.
4. THE DEVELOPER SHALL TELEPHONE THE CITY OF VALLEJO ENGINEERING SERVICES DEPARTMENT INSPECTION HOTLINE AT (XXX) XXX–XXXX, AT LEAST TWO (2) WORKING DAYS PRIOR TO STARTING CONSTRUCTION WORK.
5. ALL CONTRACTORS WILL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD. ALL CONTRACTORS SHALL CALL U.S.A. (CA. 1–800–277–2600) 48 HOURS BEFORE DIGGING. EXCAVATION FOR UNDERGROUND FACILITIES SHALL NOT BE PERMITTED PRIOR TO CONTACTING UNDERGROUND SERVICE ALERT. UNDER NO CIRCUMSTANCES WILL EXCAVATION COMMENCE BEFORE BEING ISSUED AN IDENTIFICATION NUMBER FROM U.S.A. (SECTION 4210.1 OF THE GOVERNMENT CODE).
6. HAZARDOUS MATERIALS:
   UPON DISCOVERY OF HAZARDOUS MATERIAL, THE CONTRACTOR SHALL STOP THE WORK PROMPTLY AND NOTIFY THE FIRE DEPARTMENT, DEPARTMENT OF ENVIRONMENTAL SERVICES AND PUBLIC WORKS INSPECTION FOLLOWED BY WRITTEN NOTICE OF ANY:
   A. MATERIAL THAT THE CONTRACTOR BELIEVES MAY BE HAZARDOUS WASTE, AS DEFINED IN SECTION 25117 OF THE HEALTH AND SAFETY CODE, THAT IS REQUIRED TO BE REMOVED TO A CLASS I, CLASS II, OF CLASS III DISPOSAL SITE IN ACCORDANCE WITH PROVISIONS OF EXISTING LAW.
   B. SUBSURFACE OR LATENT PHYSICAL CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED ON THE PLANS, NOTES, OR SOILS REPORT.
   C. UNKNOWN PHYSICAL CONDITIONS AT THE SITE OF ANY UNUSUAL NATURE, DIFFERING MATERIALLY FROM THOSE ORDINARILY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE CONTRACT. THE DEVELOPER'S AGENT SHALL PROMPTLY INVESTIGATE THE SUSPECTED CONDITION AND, AS NECESSARY, INITIATE FURTHER ANALYSIS OF THE PROBLEM. IF REMEDIATION IS REQUIRED, THE OWNER SHALL SUBMIT A REMEDIATION PLAN TO THE DIRECTOR OF PUBLIC WORKS AND, UPON APPROVAL BY THE DIRECTOR, SHALL IMPLEMENT THE PLAN AT THE DEVELOPER'S SOLE EXPENSE.
7. IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT–RELATED CONSTRUCTION SHALL CEASE WITHIN A 100–FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE SOLANO COUNTY CORONER IMMEDIATELY.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY TO PERFORM THE IMPROVEMENTS IN THESE PLANS FROM THE APPROPRIATE AGENCIES AND TO COMPLY WITH THE AGENCIES' REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL LAWS.
9. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
10. WHEN IT IS FOUND THAT FIELD CONDITIONS ARE NOT AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO FURTHER CONSTRUCTION.
11. CONTRACTOR SHALL CAREFULLY PRESERVE THE SURROUNDING PROPERTY BY CONFINING OPERATION WITHIN THE LIMITS OF WORK AREA. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER.

GRADING NOTES

1. CONTRACTOR SHALL GRADE TO THE LINE AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION AS INDICATED.

	HORIZONTAL	VERTICAL	COMPACTION
PAVEMENT SUBGRADE	0.1'±	+0.1' TO –0.1'	95%

2. NON–CRYSTALLIZING TYPE WEED KILLER SHALL BE SPREAD OVER THE AGGREGATE BASE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL ADJUST ALL NEW INLETS, VALVE BOXES, AND OTHER UTILITY STRUCTURES, AND ALL EXISTING UTILITY STRUCTURES WHICH ARE TO REMAIN, TO THE NEW FINISH GRADE.
4. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

EARTHWORK QUANTITIES

1. IT IS ASSUMED THAT THE ROUGH GRADING WILL BE PER A SEPARATE PERMIT AND ONLY MINIMAL EARTHWORK WILL BE REQUIRED FOR BUILDING FOOTINGS AND UTILITY TRENCHING.
2. BIDDERS ARE RESPONSIBLE FOR DOING THEIR OWN QUANTITY TAKEOFF.

TREE/PLANT PROTECTION NOTES

1. PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
2. PROVIDE 6 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNATED TO REMAIN.
3. WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK VEHICLES WITH IDLE RUNNING ENGINES UNDER DRIP LINE OF TREES.
4. PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN CONSULT WITH THE CONSTRUCTION PROJECT MANAGER.
5. ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE LANDSCAPE ARCHITECT/CIVIL ENGINEER.
6. PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIAL; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE CITY'S ENGINEER/INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
7. PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATED TREES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES THAT DIE DUE TO LACK OF MAINTENANCE.

EROSION AND SEDIMENT CONTROL MAINTENANCE NOTES

1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
   A. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END OF EACH WORKING DAY.
   B. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
   C. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
   D. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1 FOOT.
   E. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
   F. RILLS AND GULLIES MUST BE REPAIRED.
2. SAND BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE SAND BAG.
3. SEDIMENT DAMS AND TRAPS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED FROM THESE DEVICES WHEN IT HAS ACCUMULATED TO A DEPTH OF 1 FOOT.
4. DAMAGED EROSION CONTROL DEVICES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS SOON AS PRACTICAL AFTER THE DAMAGE OCCURS.
5. DURING PERIODS WHEN STORMS ARE FORECAST –
   A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.
   B. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.
   C. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH FIBER ROLLS OR OTHER RUNOFF CONTROLS.
   D. USE INLET CONTROLS (E.G. FILTER MAT) FOR STORM DRAINS ADJACENT TO STOCKPILED SOIL.
   E. THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
6. DURING PERIODS WHEN STORMS ARE NOT FORECAST –
   A. PREVENT STOCKPILED MATERIAL FROM ENTERING THE STORM DRAIN SYSTEM.
   B. THOROUGHLY REMOVE LOOSE SOIL VIA SWEEPING FOLLOWING REMOVAL OF DIRT.

SHEET INDEX:

1	C0.0	TITLE SHEET
2	C1.0	EXISTING CONDITIONS PLAN
3	C2.0	OVERALL PRELIMINARY SITE PLAN
4	C2.1	PRELIMINARY SITE PLAN
5	C2.2	PRELIMINARY SITE PLAN
6	C2.3	PRELIMINARY SITE PLAN
7	C3.0	OVERALL PRELIMINARY GRADING & DRAINAGE PLAN
8	C3.1	PRELIMINARY GRADING & DRAINAGE PLAN
9	C3.2	PRELIMINARY GRADING & DRAINAGE PLAN
10	C3.3	PRELIMINARY GRADING & DRAINAGE PLAN
11	C3.4	GRADING SECTIONS
12	C4.0	OVERALL PRELIMINARY UTILITY PLAN
13	C4.1	PRELIMINARY UTILITY PLAN
14	C4.2	PRELIMINARY UTILITY PLAN
15	C4.3	PRELIMINARY UTILITY PLAN
16	C5.0	OVERALL PRELIMINARY STORMWATER CONTROL PLAN
17	C5.1	PRELIMINARY STORMWATER CONTROL PLAN
18	C5.2	PRELIMINARY STORMWATER CONTROL PLAN
19	C5.3	PRELIMINARY STORMWATER CONTROL PLAN
20	C5.4	PRELIMINARY STORMWATER CONTROL PLAN
21	C6.0	OVERALL PRELIMINARY EASEMENT PLAN

PROJECT CONTACTS

PROPERTY OWNER:

RUSSELL SQUARE CONSULTING
ATTN: BLAISE HILTON
700 WATERFRONT WAY, #301
VANCOUVER, WA 98660

CIVIL ENGINEER:

BKF ENGINEERS
300 FRANK OGAWA H. PLAZA, #380
OAKLAND, CA 94612
CONTACT: COLE GAUMNITZ
925–396–7700

CONTRACTOR:

NAME:
ADDRESS:

PHONE:
CONTACT:

ENGINEER'S STATEMENT

THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

COLE GAUMNITZ, P.E. DATE
BKF ENGINEERS
R.C.E. NO. 75787

1–800–642–2444 CALL BEFORE YOU DIG USA UNDERGROUND SERVICE ALERT

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5180 SONOMA BLVD, VALLEJO, CA

RUSSELL SQUARE CONSULTING
700 WATERFRONT WAY, SUITE 301, VANCOUVER, WA 98660

DRAWING CONTENTS
TITLE SHEET

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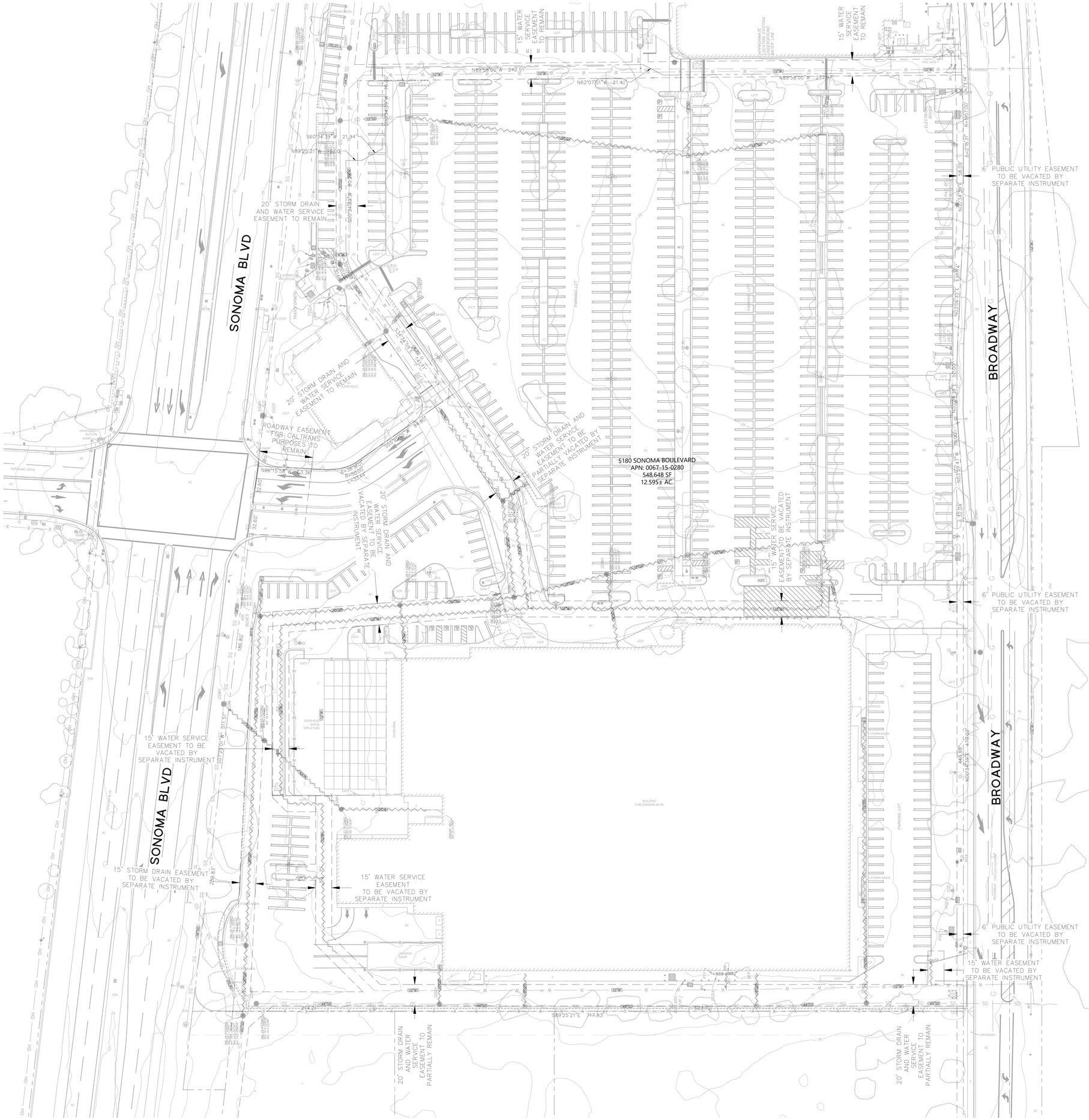

SURVEY NOTES

1. BENCHMARK:
   POINT #1 (LOCATION SHOWN HEREON), BEING A MAG NAIL & WASHER, ELEVATION = 27.04'
2. BASIS OF BEARING:
   THE BEARING OF NORTH 0°34'39" EAST BETWEEN THE TWO FOUND STREET MONUMENTS ALONG BROADWAY, AS SHOWN ON THAT CERTAIN MAP FILED IN BOOK 12 OF SURVEYS, AT PAGE 35, SOLANO COUNTY RECORDS, WAS TAKEN AS THE BASIS OF BEARING FOR THIS SURVEY.
3. EASEMENTS:
   SEE SHEETS C2.0–C2.4 AND C6.0 FOR PROPOSED EASEMENTS TO COMPLETE THE EXISTING EASEMENTS INDICATED HEREON TO BE PARTIALLY VACATED/QUIT CLAIMED BY SEPARATE INSTRUMENT.

ABBREVIATIONS

AB	ASPHALT BERM
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSORS PARCEL NUMBER
CB	CATCH BASIN
CLDR	CENTERLINE OF DOOR
COM	COMMUNICATIONS PULLBOX
CONC	CONCRETE
DI	DROP INLET
DW	DRIVEWAY
E	EAST
EB	ELECTRIC PULLBOX
EP	EDGE OF PAVEMENT
EV	ELECTRIC VAULT
EX.	EXISTING
FL	FLOW LINE
FOC	FACE OF CURB
FNC	FENCE
FH	FIRE HYDRANT
GM	GAS METER
GV	GAS VALVE
INV	INVERT
JP	JOINT POLE
LG	LIP OF GUTTER
LSCP	LANDSCAPING
M–M	MONUMENT TO MONUMENT
MH	MANHOLE
ML	MONUMENT LINE
N	NORTH
PL	PROPERTY LINE
ROW	RIGHT OF WAY
S	SOUTH
S.F.	SQUARE FEET
S.F.N.F.	SEARCHED FOR, NOT FOUND
SD	STORM DRAIN
SDAD	STOR DRAIN AREA DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDDI	STORM DRAIN DROP INLET
SDJB	STORM DRAIN JUNCTION BOX
SDMH	STORM DRAIN MANHOLE
SJWC	SAN JOSE WATER COMPANY
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STD.	STANDARD
TC	TOP OF CURB, AT FACE
TMH	TELEPHONE MANHOLE
TSB	TRAFFIC SIGNAL BOX
UMH	UNKNOWN MANHOLE
UNK	UNKNOWN MATERIAL
W	WEST
WM	WATER METER
WV	WATER VALVE

LEGEND

BOUNDARY LINE
LOT LINE
EASEMENT LINE
ROADWAY CENTER LINE
BUILDING WALL LINE
FENCE LINE
DRIVEWAY (EXISTING DRIVEWAY)
SIDEWALK (CC SW)
OVERHEAD LINE
COMMUNICATION LINE
ELECTRICAL LINE
GAS LINE
STORM DRAIN LINE
SANITARY SEWER LINE
WATER LINE
ELEVATION (TC XX.X±)
BOLLARD
COMMUNICATION BOX (COM)
ELECTRIC BOX (EB)
FIRE HYDRANT
GAS METER (GM)
GUY WIRE
JOINT POLE (JP)
SANITARY SEWER CLEANOUT (SSCO)
SANITARY SEWER MANHOLE
STORM DRAIN CATCH BASIN
STORM DRAIN DROP INLET
STORM DRAIN MANHOLE
STREET LIGHT BOX (SLB)
SURVEY IRON PIPE
SURVEY STREET MONUMENT
TRAFFIC SIGNAL
TRAFFIC SIGNAL BOX (TSB)
UNKNOWN MANHOLE
WATER METER (WM)
WATER VALVE (WV)
REMOVE UTILITY LINE

NORTH

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

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RUSSELL SQUARE CONSULTING
700 WATERFRONT WAY, SUITE 301, VANCOUVER, WA 98660

DRAWING CONTENTS
EXISTING CONDITIONS PLAN

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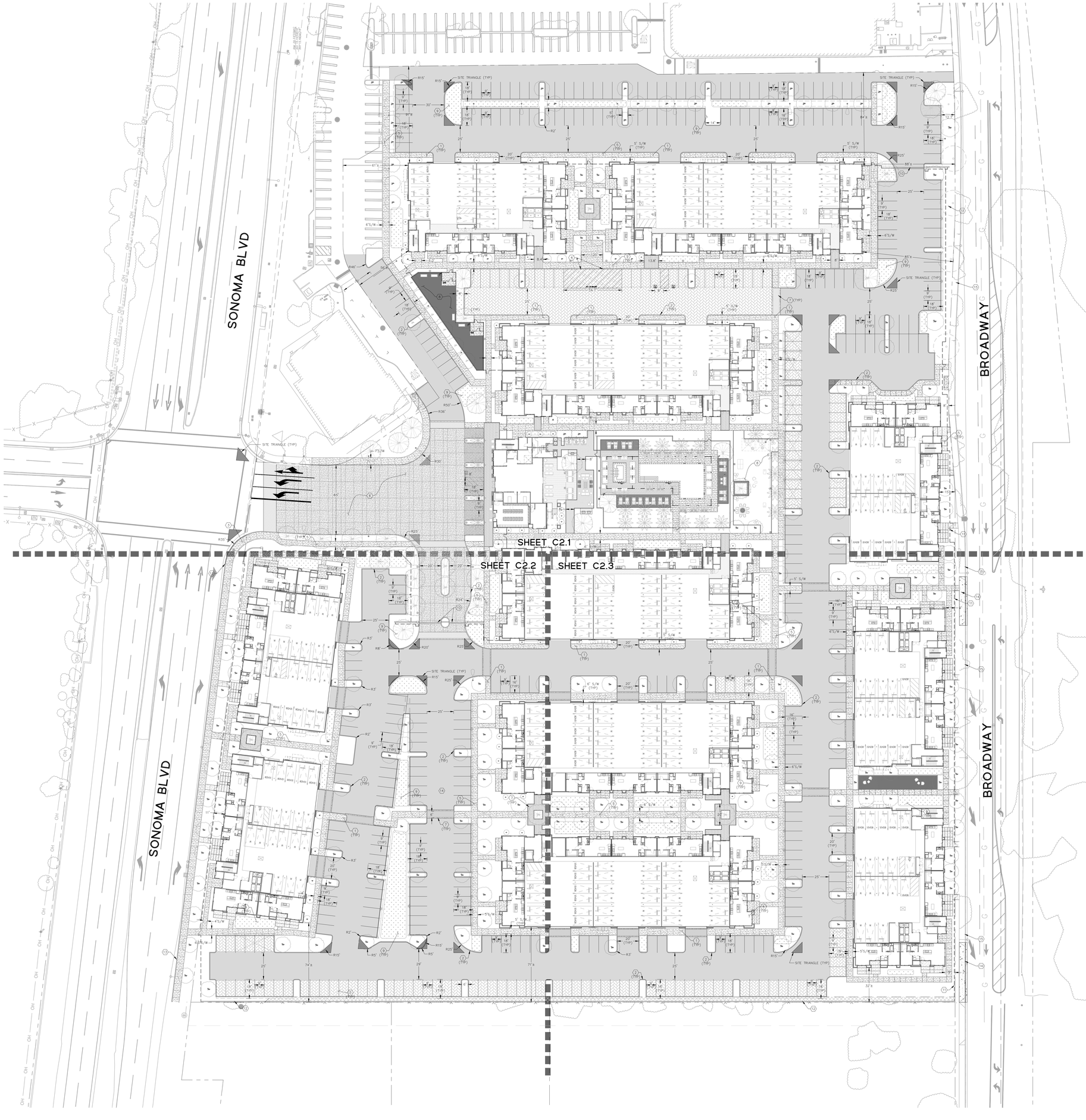

KEY NOTES

1. CURB RAMP
2. VERTICAL CURB
3. CITY STANDARD SIDEWALK
4. MOUNTABLE CURB FOR FIRE TRUCK TURNAROUND
5. PRIVATE CONCRETE SIDEWALK
6. DECORATIVE CONCRETE AT PROJECT ENTRY, SLP
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ABBREVIATIONS

AC	ASPHALT CONCRETE
(E)	EXISTING
ESMT	EASEMENT
R	RADIUS
SLP	SEE LANDSCAPE PLAN
S/W	SIDEWALK
(TYP)	TYPICAL

SITE PLAN NOTES

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NORTH

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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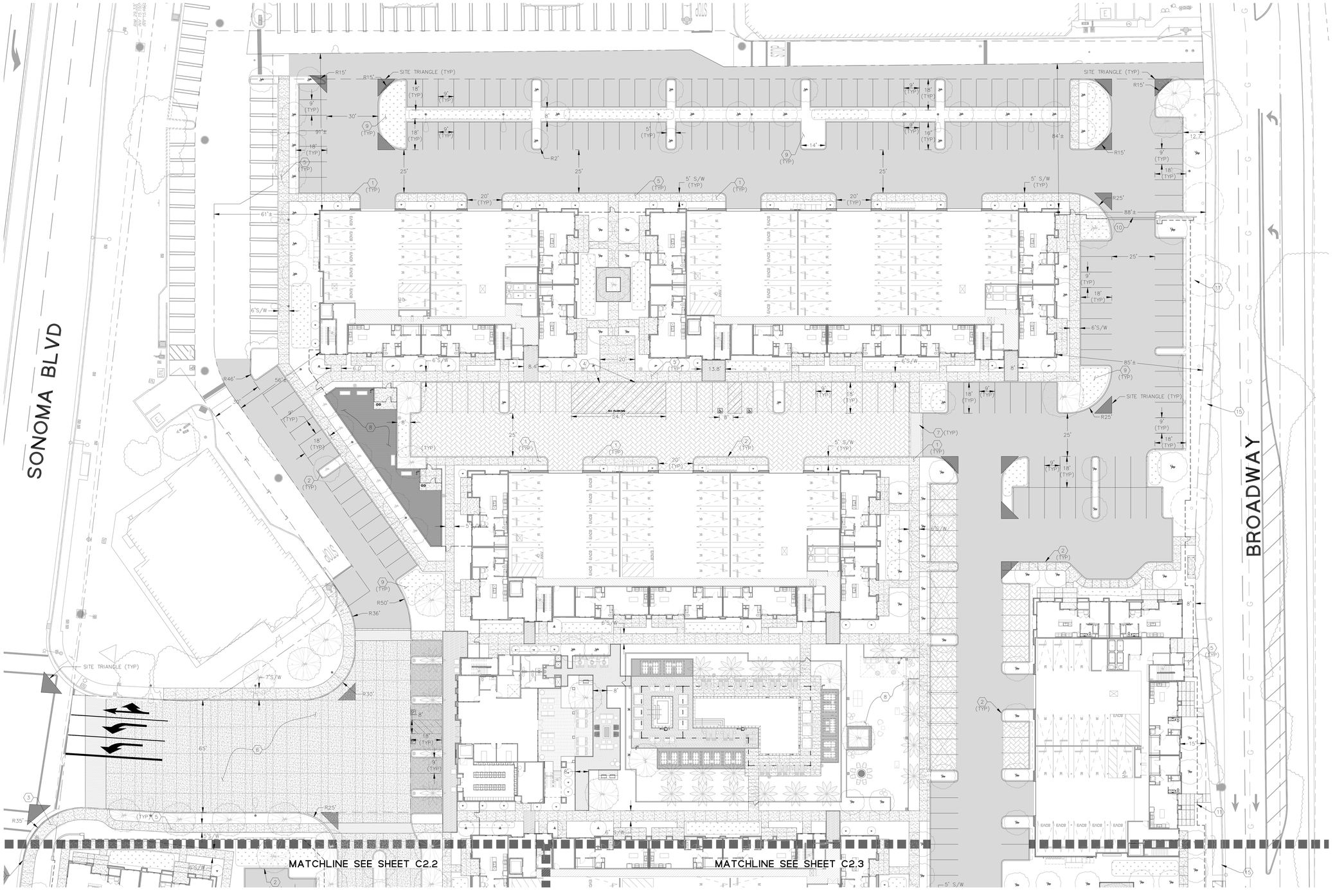

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- VERTICAL CURB
- SITE VISION TRIANGLE

NORTH

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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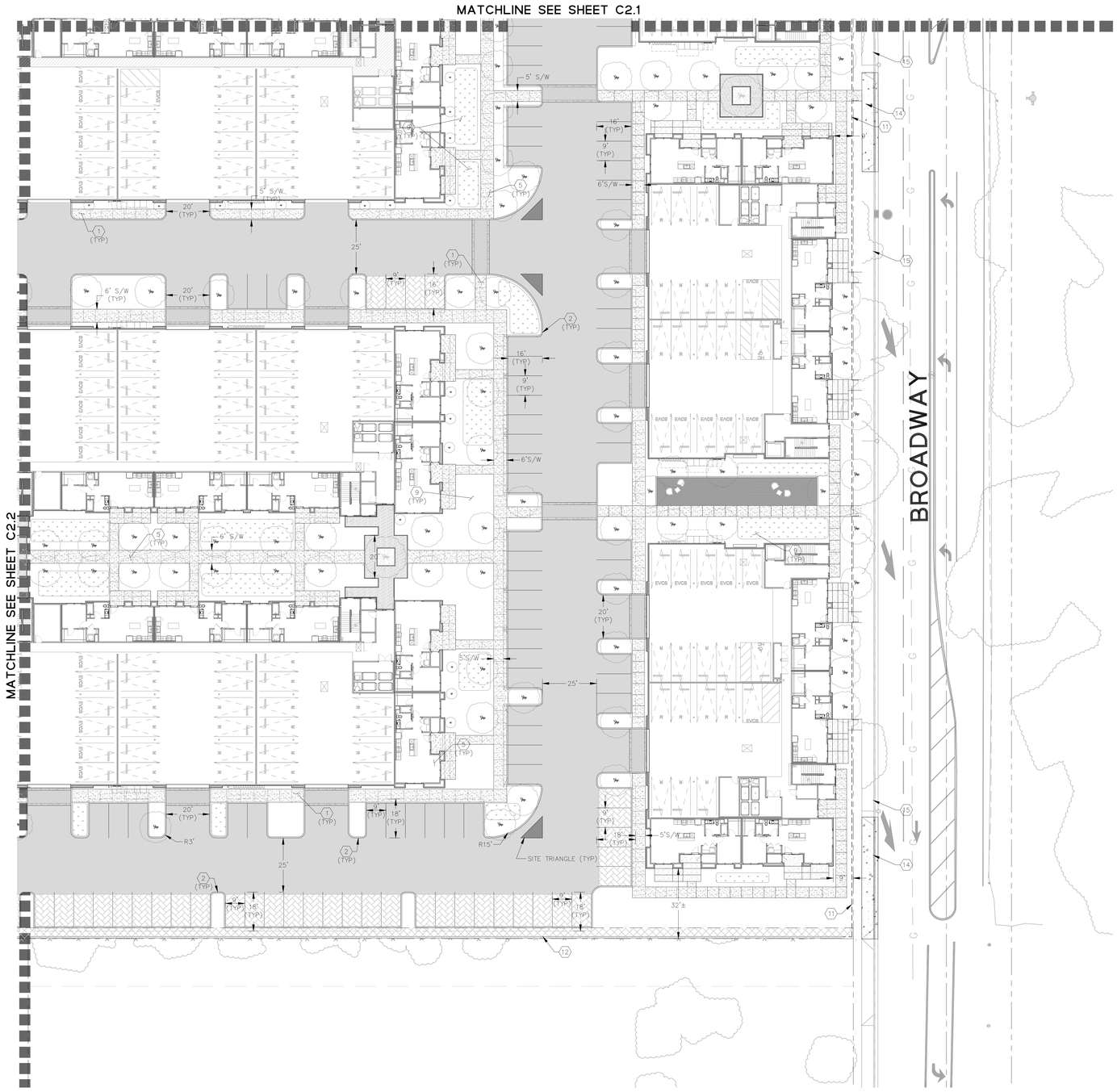

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NORTH

GRAPHIC SCALE

(IN FEET)
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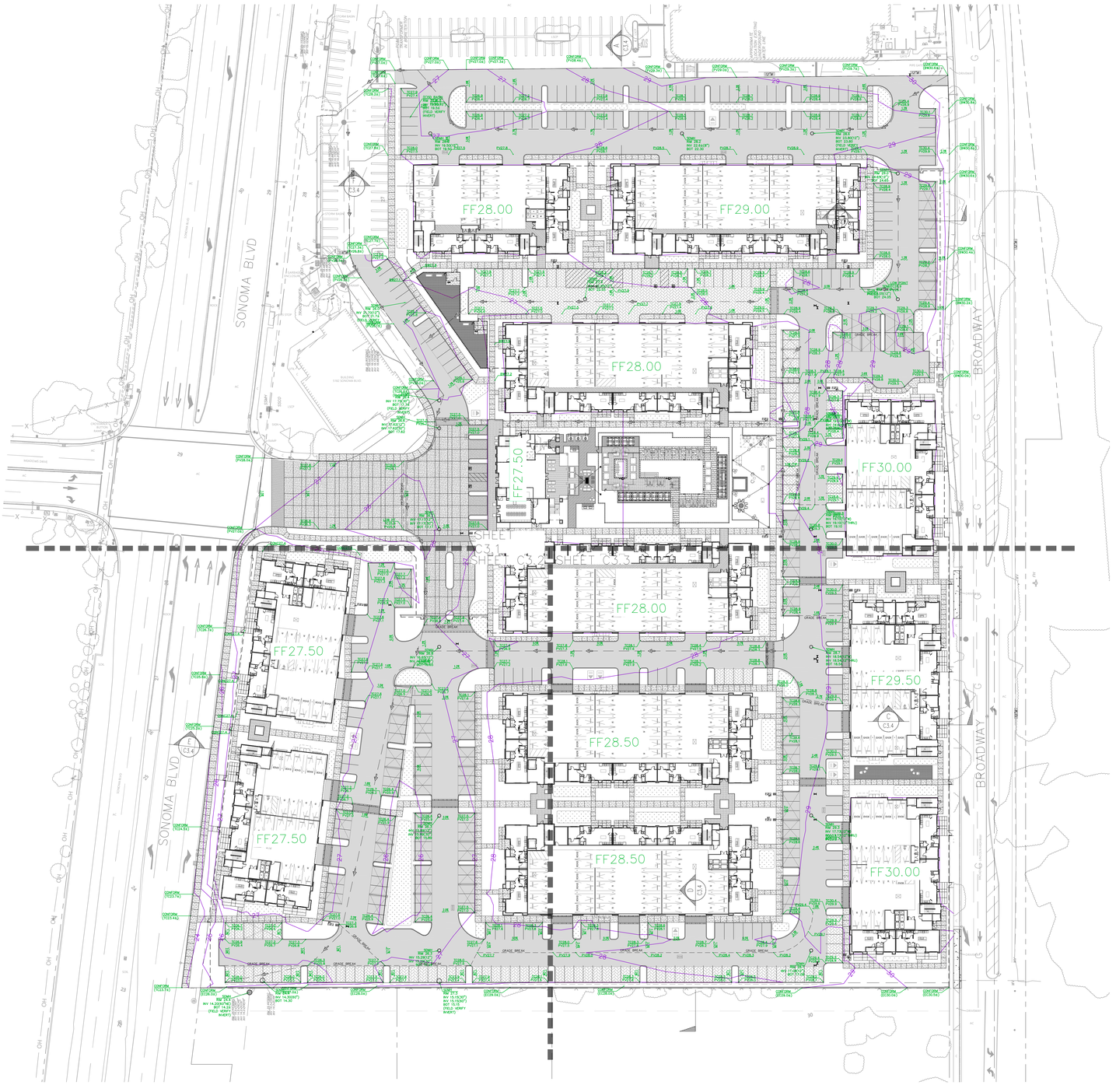

ABBREVIATIONS

BW	BACK OF WALK
C	CONCRETE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
HP	HIGH POINT
LG	LIP OF GUTTER
LP	LOW POINT
P/PV	PAVEMENT
SLD	SEE LANDSCAPE DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
TC	TOP OF CURB
TTS	TOP OF TREATMENT SOIL
TW	TOP OF WALL
(X.X±)	EXISTING ELEVATION
	FLOW ON HARDSCAPE
	FLOW ON SOFTSCAPE
	OVERLAND RELEASE PATH

GRADING AND DRAINAGE NOTES

1. ALL PAVED AREAS ARE TO SLOPE A MINIMUM OF 0.5%. ACCESSIBLE STALLS AND LOADING ZONES ARE TO SLOPE AT A MAXIMUM OF 2% IN ALL DIRECTIONS. ACCESSIBLE PATHWAYS ARE TO SLOPE AT A MAXIMUM OF 5% IN THE DIRECTION OF TRAVEL AND THE SLOPE CROSSWAYS TO THE DIRECTION OF TRAVEL SHALL BE AT A MAXIMUM OF 2%. ANY AREAS ON THE SITE NOT CONFORMING TO THESE BASIC RULES DUE TO EXISTING CONDITIONS AR DISCREPANCIES IN THE DOCUMENTS ARE TO BE REPORTED TO THE ENGINEER/ARCHITECT PRIOR TO PROCEEDING WITH PLACEMENT OF BASE ROCK, FORM WORK AND/OR FLATWORK.
2. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05'. HOWEVER, CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN NOTE 1.
3. WALKWAYS ALONG ADA ACCESSIBLE PATHS OF TRAVEL:
   - CONTINUOUSLY ACCESSIBLE
   - MAXIMUM 1/2" CHANGES IN ELEVATION OR PROVIDE CURB RAMPS COMPLYING WITH LATEST CBC SECTION 1127B.5
   - MINIMUM 48" IN WIDTH
   - WHERE SLOPE EXCEEDING 5% SHALL HAVE PEDESTRIAN RAMPS COMPLYING WITH CBC SECTION 1127B.5 AND 1133B.7

LEGEND

- PROPERTY LINE
- VERTICAL CURB
- PROPOSED CONTOUR
- OVERLAND RELEASE PATH
- DRAIN INLET
- STORM DRAIN CLEANOUT
- STORM DRAIN JUNCTION BOX
- STORM DRAIN MANHOLE
- BUBBLE UP BOX
- LANDSCAPE AREA DRAIN
- AC PAVEMENT
- BIORETENTION BASIN
- PERVIOUS PAVERS

NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

TCA ARCHITECTS
LOS ANGELES | IRVINE | OAKLAND

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REVISION

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5180 SONOMA BLVD, VALLEJO, CA

RUSSELL SQUARE CONSULTING
700 WATERFRONT WAY, SUITE 301, VANCOUVER, WA 98660

DRAWING CONTENTS
OVERALL PRELIMINARY GRADING & DRAINAGE PLAN

NOT FOR CONSTRUCTION

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C3.0

2021-074
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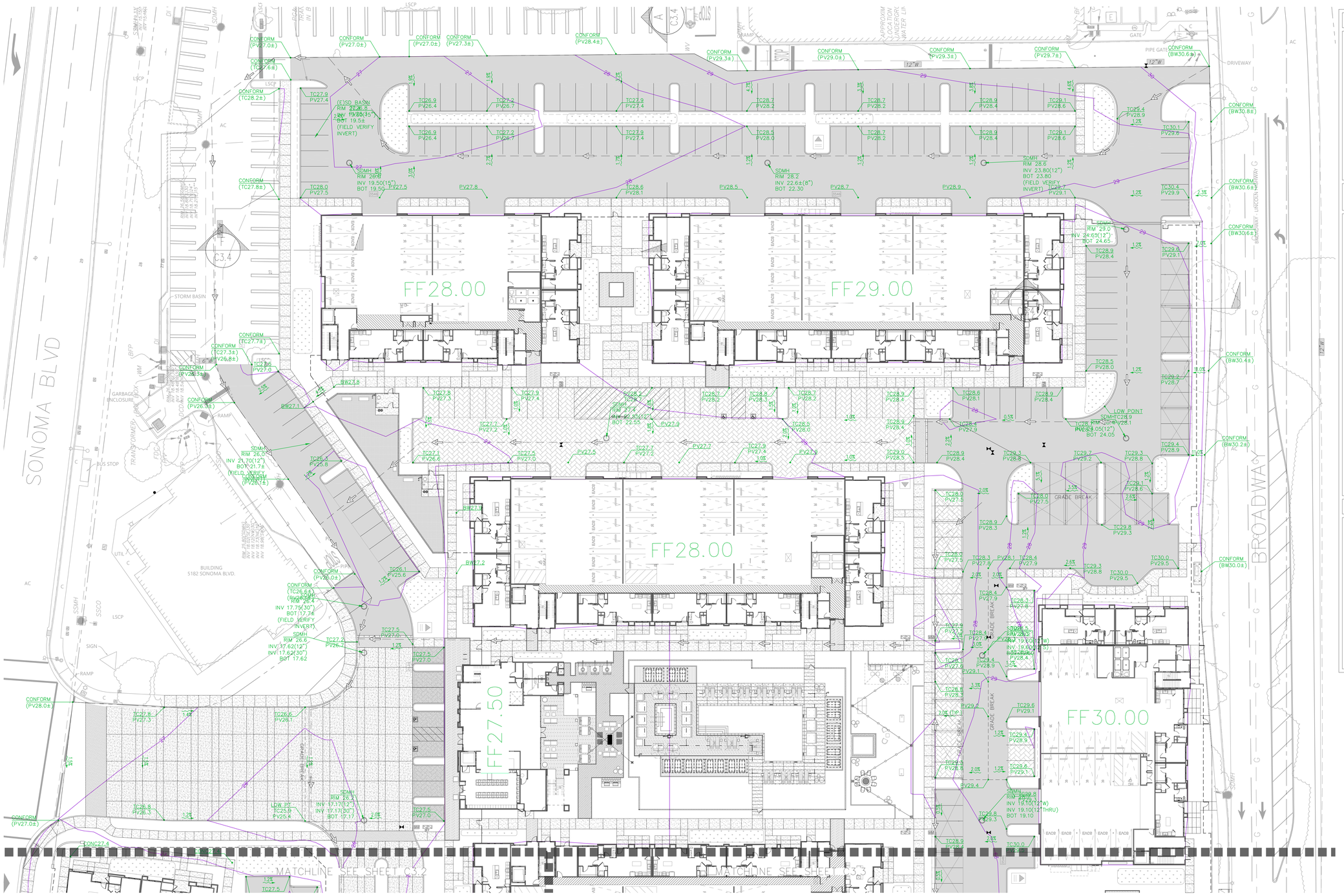
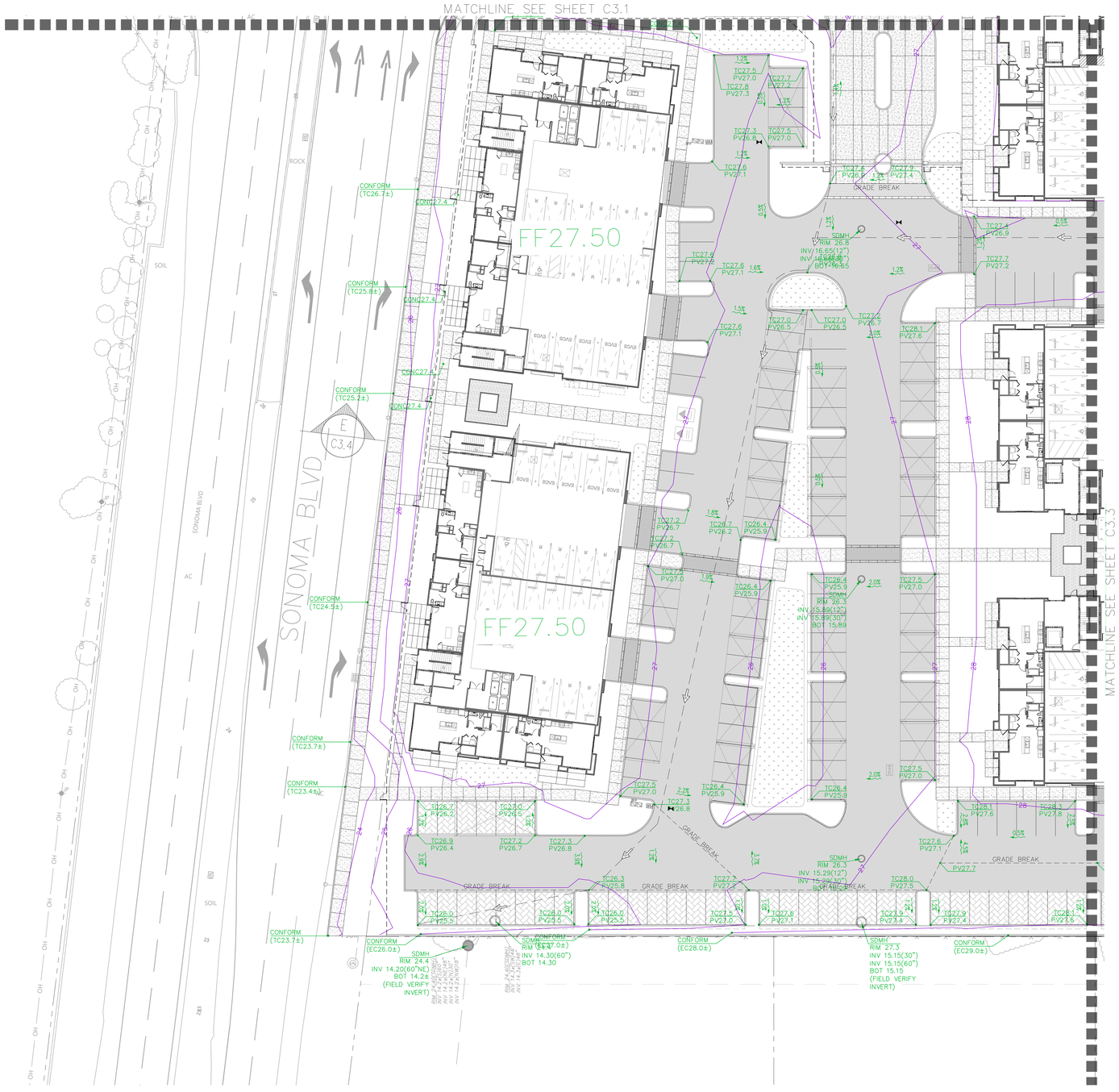

SONOMA BLVD
BROADWAY
BROADWAY - LINCOLN HIGHWAY
FF28.00
FF29.00
FF28.00
FF27.50
FF30.00
STORM BASIN
GARBAGE ENCLOSURE
BUS STOP
RAMP
BUILDING
5182 SONOMA BLVD.
DRIVEWAY
GRADE BREAK
LOW POINT
MATCHLINE SEE SHEET C3.2
MATCHLINE SEE SHEET C3.2
(E)SD BASIN
RIM 26.6
24" W 19.80(45°)
BOT 19.5±
(FIELD VERIFY INVERT)
SDMH
RIM 26.6
INV 19.50(15")
BOT 19.50
SDMH
RIM 28.2
INV 22.6±(8")
BOT 22.30
SDMH
RIM 28.6
INV 23.60(12")
BOT 23.80
(FIELD VERIFY INVERT)
SDMH
RIM 29.0
INV 24.65(12")
BOT 24.65
LOW POINT
SDMH
RIM 27.7
INV 22.55(12")
BOT 22.55
SDMH
RIM 26.0
INV 21.70(12")
BOT 21.7±
(FIELD VERIFY INVERT)
SDMH
RIM 26.6
INV 17.75(30")
BOT 17.7±
(FIELD VERIFY INVERT)
SDMH
RIM 26.6
INV 17.62(12")
INV 17.62(30")
BOT 17.62
LOW PT
SDMH
RIM 28.2
INV 17.17(12")
INV 17.17(30")
BOT 17.17
SDMH
RIM 29.8
INV 19.10(12"W)
INV 19.10(12"THRU)
BOT 19.10
SDMH
RIM 29.8
INV 19.60(12"W)
INV 19.60(12"S)
BOT 19.60
LOW PT
SDMH
RIM 28.9
INV 24.05(12")
BOT 24.05
CONFORM (PV27.0±)
CONFORM (TC27.6±)
CONFORM (TC28.2±)
CONFORM (TC28.8±)
CONFORM (PV28.4±)
CONFORM (PV29.3±)
CONFORM (PV29.0±)
CONFORM (PV29.7±)
CONFORM (BW30.6±)
CONFORM (BW30.8±)
CONFORM (BW30.6±)
CONFORM (BW30.6±)
CONFORM (BW30.4±)
CONFORM (BW30.2±)
CONFORM (BW30.0±)
CONFORM (TC27.8±)
CONFORM (TC27.3±)
CONFORM (PV26.8±)
CONFORM (PV26.3±)
CONFORM (PV26.0±)
CONFORM (PV28.0±)
CONFORM (PV27.0±)
CONFORM (TC26.6±)
CONFORM (BW30.0±)
CONC27.4
CONC27.4
BW27.8
BW27.1
BW27.5
BW27.2
TC27.9 PV27.4
TC26.9 PV26.4
TC27.2 PV26.7
TC27.9 PV27.4
TC28.7 PV28.2
TC28.7 PV28.2
TC28.9 PV28.4
TC29.1 PV28.6
TC29.4 PV28.9
TC30.1 PV29.6
TC28.0 PV27.5
PV27.8
TC28.6 PV28.1
PV28.5
PV28.7
PV28.9
TC29.7 PV29.1
TC30.4 PV29.9
TC28.5 PV28.0
TC29.2 PV28.7
TC29.6 PV29.1
TC28.9 PV28.4
TC27.8 PV27.3
TC27.9 PV27.4
TC28.2 PV28.7
TC28.7 PV28.2
TC28.8 PV28.3
TC28.7 PV28.2
TC28.9 PV28.4
TC28.6 PV28.1
TC28.9 PV28.4
TC27.7 PV27.2
TC28.5 PV28.0
TC28.9 PV28.4
TC28.4 PV27.9
TC27.1 PV26.6
TC27.5 PV27.0
PV27.5
TC27.7 PV27.2
TC27.9 PV27.4
PV27.7
TC29.0 PV28.5
TC28.9 PV28.4
TC29.3 PV28.8
TC29.7 PV29.2
TC29.3 PV28.8
TC29.4 PV28.9
TC26.3 PV25.8
TC26.1 PV25.6
TC28.0 PV27.5
TC28.9 PV28.3
TC29.1 PV28.6
TC29.8 PV29.3
TC28.0 PV27.5
TC28.3 PV27.8
TC28.1 PV27.6
TC28.4 PV27.9
TC29.3 PV28.8
TC30.0 PV29.5
TC30.0 PV29.5
TC28.4 PV27.9
TC28.1 PV27.6
TC28.4 PV27.9
TC27.5 PV27.0
TC28.1 PV27.6
TC28.4 PV27.9
TC28.6 PV28.1
TC28.9 PV28.4
TC29.4 PV28.9
TC29.1 PV28.6
TC28.1 PV27.6
TC28.4 PV27.9
TC28.6 PV28.1
TC28.9 PV28.4
TC29.4 PV28.9
TC29.1 PV28.6
TC27.8 PV27.3
TC26.6 PV26.1
TC26.8 PV26.3
TC25.9 PV25.4
TC27.5 PV27.0
TC29.6 PV29.1
TC29.4 PV28.9
TC29.1 PV28.6
TC29.6 PV29.1
TC29.4 PV28.9
TC29.8 PV29.3
TC28.9 PV28.4
TC30.0 PV29.5
TC30.0 PV29.5
PV29.4
PV29.2
2.0% (TYP.)
GRADE BREAK
GRADE BREAK
GRADE BREAK
GRADE BREAK
EACB
EACB
EACB



ABBREVIATIONS

BW	BACK OF WALK
C	CONCRETE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOW LINE
GB	GRADE BREAK
HP	HIGH POINT
LG	LIP OF GUTTER
LP	LOW POINT
P/PV	PAVEMENT
SLD	SEE LANDSCAPE DRAWINGS
SSD	SEE STRUCTURAL DRAWINGS
TC	TOP OF CURB
TTS	TOP OF TREATMENT SOIL
TW	TOP OF WALL
(X.X±)	EXISTING ELEVATION
	FLOW ON HARDSCAPE
	FLOW ON SOFTSCAPE
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- LANDSCAPE AREA DRAIN
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- BIORETENTION BASIN
- PERVIOUS PAVERS

NORTH

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

TCA ARCHITECTS
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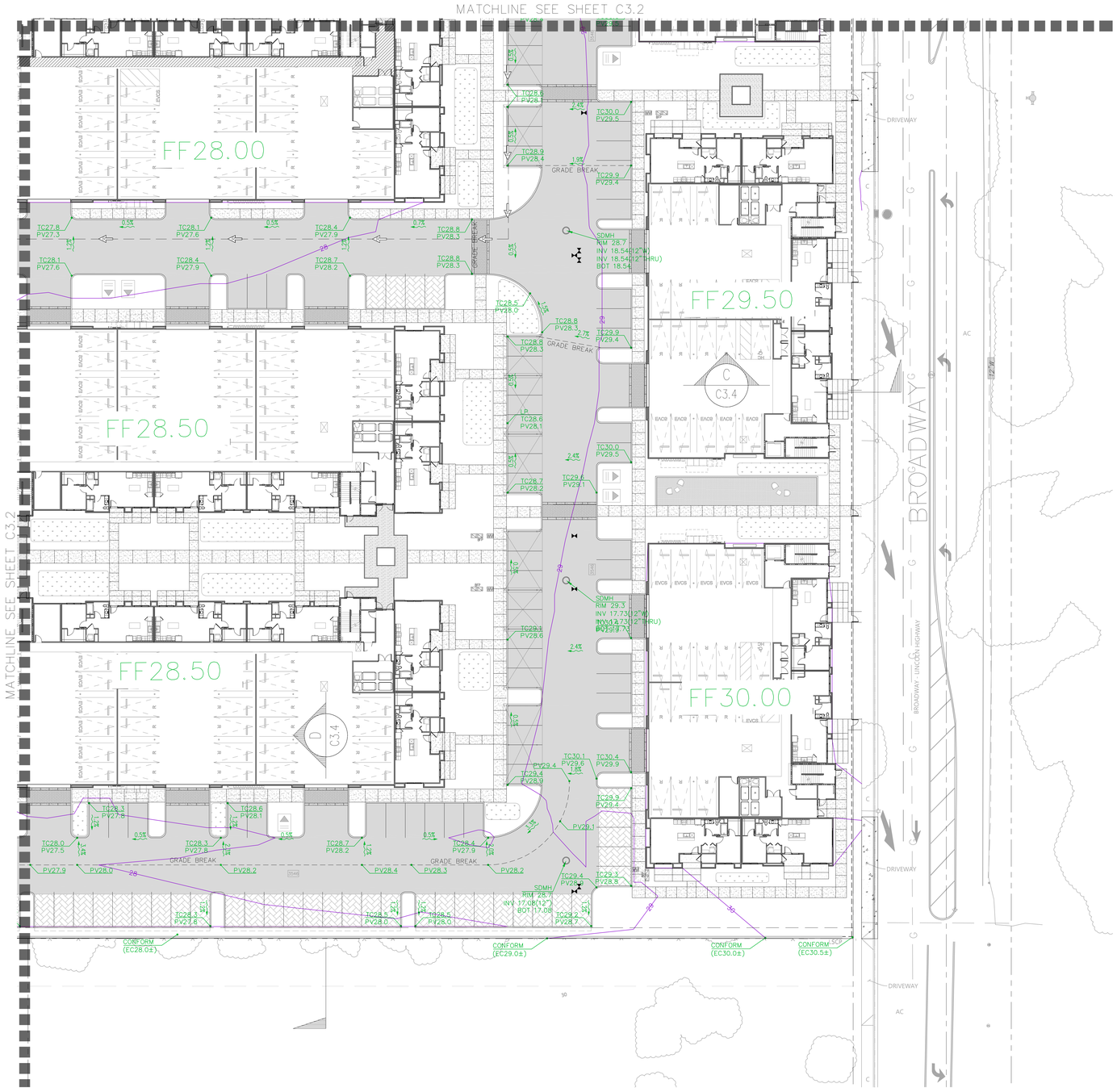

ABBREVIATIONS

BW	BACK OF WALK
C	CONCRETE
FF	FINISH FLOOR
FG	FINISH GRADE
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GB	GRADE BREAK
HP	HIGH POINT
LG	LIP OF GUTTER
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SLD	SEE LANDSCAPE DRAWINGS
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LEGEND

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- LANDSCAPE AREA DRAIN
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- BIORETENTION BASIN
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NORTH

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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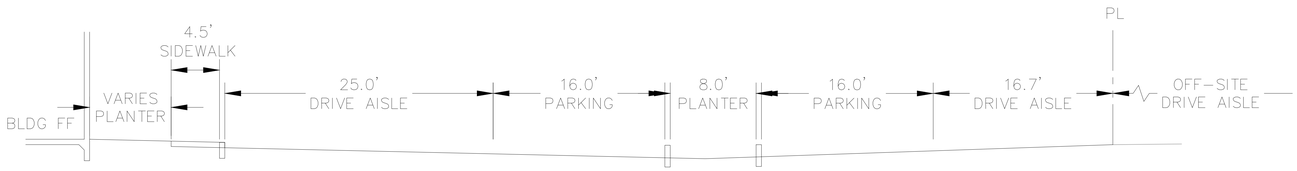
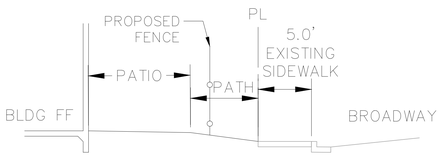


SECTION A

NTS

SECTION B

NTS

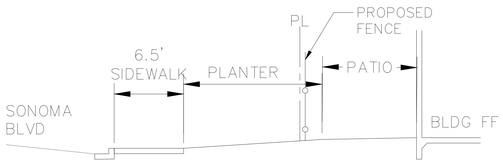


SECTION C

NTS

SECTION D

NTS



SECTION E

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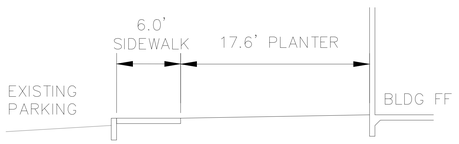

SECTION E

NTS

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DRAWING CONTENTS
GRADING SECTIONS

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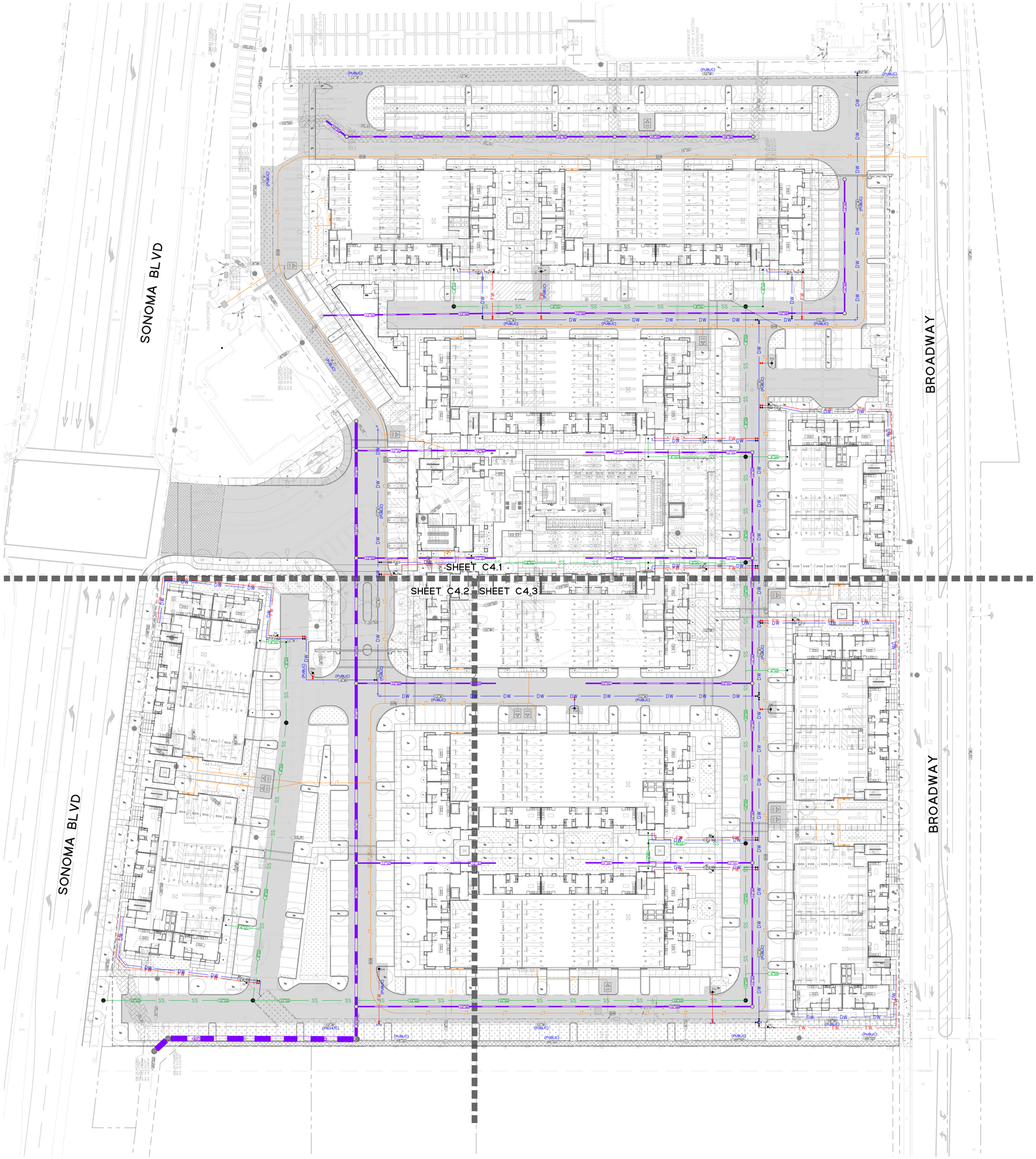

KEY NOTES

1. CONNECT TO EXISTING WATER MAIN
2. CONNECT TO EXISTING SD SYSTEM
3. CONNECT TO EXISTING SS SYSTEM
4. INSTALL (N) SDMH
5. INSTALL (N) OFD
6. INSTALL (N) SDJB
7. INSTALL (N) SSCO/SDCO
8. INSTALL (N) SSMH
9. (E) FH TO REMAIN
10. (E) FH TO BE REMOVED
11. INSTALL (N) FH
12. INSTALL (N) TRANSFORMER
13. INSTALL (N) GAS METER
14. INSTALL (N) BUBBLE UP BOX
15. INSTALL (N) SDCB
16. INSTALL (N) WATER METER
17. INSTALL (N) BACK FLOW PREVENTER
18. INSTALL (N) SDCB WITH SUBMERSIBLE PUMPS

ABBREVIATIONS

(E)	EXISTING
FH	FIRE HYDRANT
INV	INVERT ELEVATION
(INV XX.X±)	(E) INVERT ELEVATION
JT	JOINT TRENCH
OFD	OVER FLOW DRAIN
PERF	PERFORATED
RTG	RIM TO GRADE
S	SLOPE
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDJB	STORM DRAIN JUNCTION BOX
SDMH	STORM DRAIN MANHOLE
SED	SEE ELECTRICAL DRAWINGS
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE

UTILITY NOTES

1. SANITARY SEWER SEWER SYSTEMS AND LATERALS ARE PRIVATELY OWNED AND MAINTAINED BY THE PROPERTY OWNER AS WELL AS WATER LINES AND APPURTENANCES DOWNSTREAM OF DOMESTIC AND IRRIGATION METERS AND FIRE BACKFLOWS.
2. TELEPHONE/COMMUNICATION, GAS, ELECTRICAL, AND STREET LIGHT LINES & STRUCTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND JOINT TRENCH PLANS FOR MORE INFORMATION.
3. CONTRACTOR SHALL MAINTAIN 12" VERTICAL CLEARANCE ABOVE OR BELOW EXISTING AND NEW UTILITIES CROSSING.
4. HORIZONTAL DIMENSION ARE TAKEN FROM CENTER OF PIPE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED. RIM ELEVATIONS ARE SPECIFIED AT THE CENTER OF THE FRAME.
5. CONTRACTOR TO ADJUST ALL EXISTING UTILITY VAULTS, LIDS, AND GRATES TO REMAIN, INCLUDING THE NEWLY INSTALLED UTILITY VAULTS, LIDS, AND GRATES INSTALLED UNDER PHASE 1 SITE UTILITIES TO NEW PROPOSED FINISHED GRADE.
6. UTILITY TRENCHES TO BE PER THE GEOTECHNICAL REPORT.
7. PIPE MATERIAL:
   A) PRIVATE SD: PVC SDR-26, UNLESS OTHERWISE NOTED.
   B) PRIVATE SS: PVC SDR-26.
   C) WATER: PVC AWWA C900, DR 14, CLASS 350.
8. REQUIRED HORIZONTAL CLEARANCE BETWEEN SS MAINS AND WATER MAINS SHALL BE 10' AND BETWEEN WATER MAINS AND SD MAINS SHALL BE 5'.
9. ALL LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS MUST BE TRAFFIC-RATED.
10. MINIMUM COVER FOR WATER MAIN SHALL BE 3'.
11. MINIMUM COVER FOR SEWER MAIN SHALL BE 3'.
12. PER THE GEOTECHNICAL REPORT THE SOILS ARE XXXX. SEE CORROSIVE SOILS ENGINEER'S RECOMMENDATIONS FOR PIPE WRAPS AND CATHODIC PROTECTION OF BURIED METALLIC PIPES AND ELEMENTS.
13. ALL PUBLIC WATER AND SANITARY SEWER CONSTRUCTION SHALL BE PER CITY OF VALLEJO STANDARDS.
14. ALL EXISTING UTILITY BOXES SHALL BE ADJUSTED TO NEW FINISHED GRADE UNLESS NOTED OTHERWISE ON PLANS.
15. SEE JOINT TRENCH PLANS FOR DRY UTILITY ROUTING.
16. EXISTING PUBLIC UTILITY, WATER, AND/OR STORM DRAIN EASEMENTS THAT ARE PROPOSED TO BE VACATED, WILL REQUIRE WRITTEN APPROVAL FROM EACH UTILITY COMPANY THAT THEY HAVE NO ISSUES WITH THE VACATION.
17. WATER SERVICE TO THE EXISTING RETAIL SHALL BE MAINTAINED AND DISRUPTION SHALL BE KEPT TO A MINIMAL DURING CONSTRUCTION.

LEGEND

- STORM DRAIN LINE (TREATED)
- SD — STORM DRAIN LINE (UNTREATED)
- SS — SANITARY SEWER LINE
- JT — JOINT TRENCH (JT) LINE
- G — GAS LINE
- IRR — IRRIGATION LINE
- DW — DOMESTIC WATER LINE
- FW — FIRE WATER LINE, PVC C900 CLASS 200
- PERFORATED PIPE
- STORM DROP INLET (DI) OR OVERFLOW DRAIN (OFD). SEE PLAN
- STORM DRAIN JUNCTION BOX
- STORM DRAIN CLEANOUT
- SANITARY SEWER CLEANOUT
- BUBBLE UP BOX
- CHECK VALVE IN BOX.
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- WATER VALVE
- LATERAL CONTINUATION S.P.D.
- UTILITY CROSSING NUMBER. SEE UTILITY CROSSING TABLE THIS SHEET.
- LANDSCAPE AREA DRAIN. SEE LANDSCAPE DRAWINGS FOR DETAILS AND RIM ELEVATIONS.
- TRANSFORMER, SEE JT PLANS
- GAS METER
- WATER METER
- BACK FLOW PREVENTER
- STORM DRAIN CATCH BASIN WITH SUBMERSIBLE PUMPS
- EMERGENCY VEHICLE ACCESS EASEMENT (EVAE), PUBLIC ACCESS EASEMENT (PAE), PUBLIC UTILITY EASEMENT (PUE)
- STORM DRAIN EASEMENT (SDE)
- STORM DRAIN AND WATER SERVICE EASEMENT (SDE & WSE)
- EXISTING UTILITY EASEMENT TO REMAIN

NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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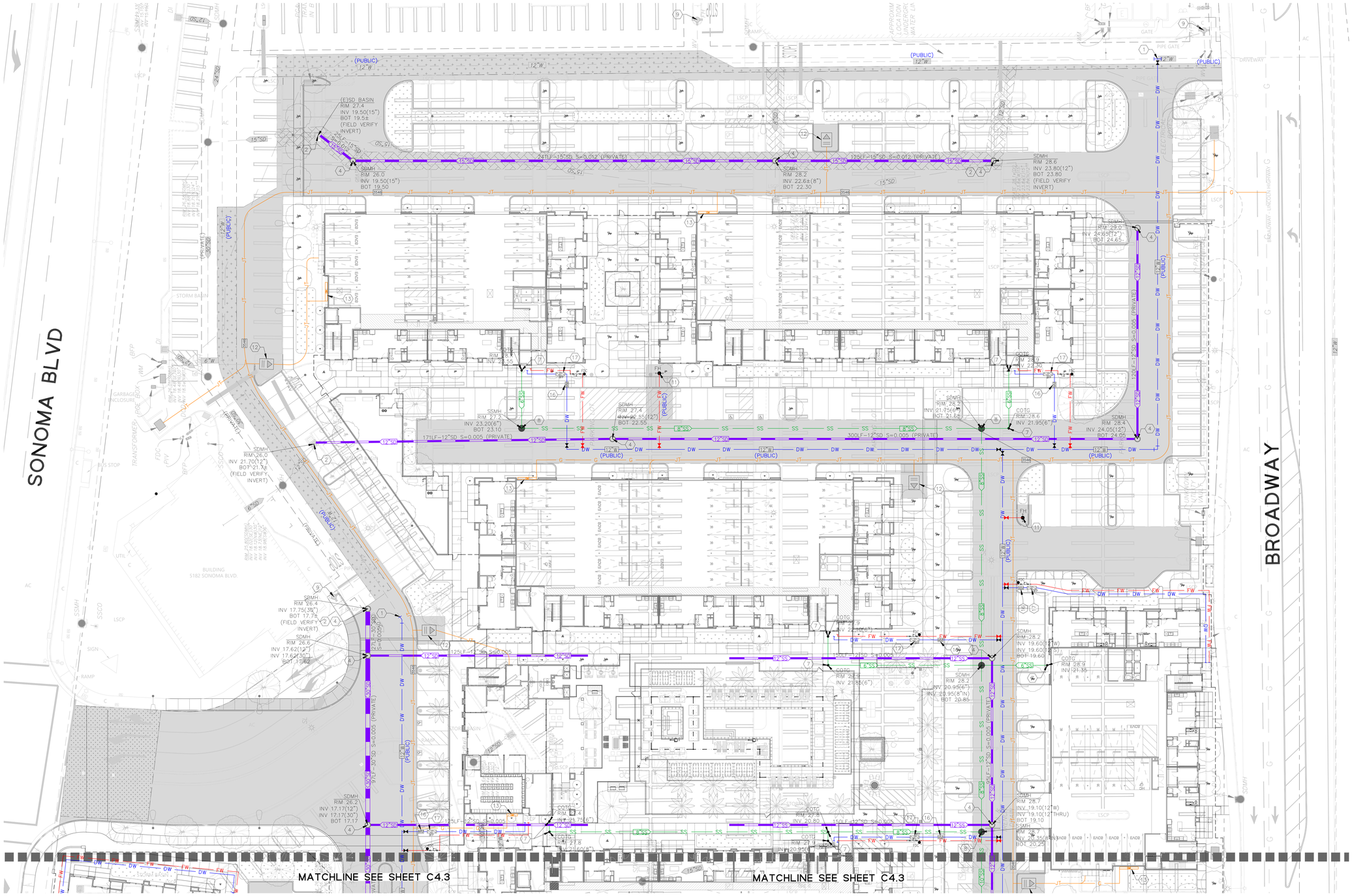

KEY NOTES

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9	(E) FH TO REMAIN
10	(E) FH TO BE REMOVED
11	INSTALL (N) FH
12	INSTALL (N) TRANSFORMER
13	INSTALL (N) GAS METER
14	INSTALL (N) BUBBLE UP BOX
15	INSTALL (N) SDCB
16	INSTALL (N) WATER METER
17	INSTALL (N) BACK FLOW PREVENTER
18	INSTALL (N) SDCB WITH SUBMERSIBLE PUMPS

ABBREVIATIONS

(E)	EXISTING
FH	FIRE HYDRANT
INV	INVERT ELEVATION
(INV XX.X±)	(E) INVERT ELEVATION
JT	JOINT TRENCH
OFD	OVER FLOW DRAIN
PERF	PERFORATED
RTG	RIM TO GRADE
S	SLOPE
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDJB	STORM DRAIN JUNCTION BOX
SDMH	STORM DRAIN MANHOLE
SED	SEE ELECTRICAL DRAWINGS
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE

UTILITY NOTES

1. SANITARY SEWER SEWER SYSTEMS AND LATERALS ARE PRIVATELY OWNED AND MAINTAINED BY THE PROPERTY OWNER AS WELL AS WATER LINES AND APPURTENANCES DOWNSTREAM OF DOMESTIC AND IRRIGATION METERS AND FIRE BACKFLOWS.
2. TELEPHONE/COMMUNICATION, GAS, ELECTRICAL, AND STREET LIGHT LINES & STRUCTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND JOINT TRENCH PLANS FOR MORE INFORMATION.
3. CONTRACTOR SHALL MAINTAIN 12" VERTICAL CLEARANCE ABOVE OR BELOW EXISTING AND NEW UTILITIES CROSSING.
4. HORIZONTAL DIMENSION ARE TAKEN FROM CENTER OF PIPE TO CENTER OF PIPE, UNLESS OTHERWISE NOTED. RIM ELEVATIONS ARE SPECIFIED AT THE CENTER OF THE FRAME.
5. CONTRACTOR TO ADJUST ALL EXISTING UTILITY VAULTS, LIDS, AND GRATES TO REMAIN, INCLUDING THE NEWLY INSTALLED UTILITY VAULTS, LIDS, AND GRATES INSTALLED UNDER PHASE 1 SITE UTILITIES TO NEW PROPOSED FINISHED GRADE.
6. UTILITY TRENCHES TO BE PER THE GEOTECHNICAL REPORT.
7. PIPE MATERIAL:
   A) PRIVATE SD: PVC SDR-26, UNLESS OTHERWISE NOTED.
   B) PRIVATE SS: PVC SDR-26.
   C) WATER: PVC AWWA C900, DR 14, CLASS 350.
8. REQUIRED HORIZONTAL CLEARANCE BETWEEN SS MAINS AND WATER MAINS SHALL BE 10' AND BETWEEN WATER MAINS AND SD MAINS SHALL BE 5'.
9. ALL LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS MUST BE TRAFFIC-RATED.
10. MINIMUM COVER FOR WATER MAIN SHALL BE 3'.
11. MINIMUM COVER FOR SEWER MAIN SHALL BE 3'.
12. PER THE GEOTECHNICAL REPORT THE SOILS ARE XXXX. SEE CORROSIVE SOILS ENGINEER'S RECOMMENDATIONS FOR PIPE WRAPS AND CATHODIC PROTECTION OF BURIED METALLIC PIPES AND ELEMENTS.
13. ALL PUBLIC WATER AND SANITARY SEWER CONSTRUCTION SHALL BE PER CITY OF VALLEJO STANDARDS.
14. ALL EXISTING UTILITY BOXES SHALL BE ADJUSTED TO NEW FINISHED GRADE UNLESS NOTED OTHERWISE ON PLANS.
15. SEE JOINT TRENCH PLANS FOR DRY UTILITY ROUTING.
16. EXISTING PUBLIC UTILITY, WATER, AND/OR STORM DRAIN EASEMENTS THAT ARE PROPOSED TO BE VACATED, WILL REQUIRE WRITTEN APPROVAL FROM EACH UTILITY COMPANY THAT THEY HAVE NO ISSUES WITH THE VACATION.
17. WATER SERVICE TO THE EXISTING RETAIL SHALL BE MAINTAINED AND DISRUPTION SHALL BE KEPT TO A MINIMAL DURING CONSTRUCTION.

LEGEND

- STORM DRAIN LINE (TREATED)
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- SANITARY SEWER LINE
- JOINT TRENCH (JT) LINE
- GAS LINE
- IRRIGATION LINE
- DOMESTIC WATER LINE
- FIRE WATER LINE, PVC C900 CLASS 200
- PERFORATED PIPE
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- STORM DRAIN JUNCTION BOX
- STORM DRAIN CLEANOUT
- SANITARY SEWER CLEANOUT
- BUBBLE UP BOX
- CHECK VALVE IN BOX.
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- FIRE HYDRANT
- WATER VALVE
- LATERAL CONTINUATION S.P.D.
- UTILITY CROSSING NUMBER. SEE UTILITY CROSSING TABLE THIS SHEET.
- LANDSCAPE AREA DRAIN. SEE LANDSCAPE DRAWINGS FOR DETAILS AND RIM ELEVATIONS.
- TRANSFORMER, SEE JT PLANS
- GAS METER
- WATER METER
- BACK FLOW PREVENTER
- STORM DRAIN CATCH BASIN WITH SUBMERSIBLE PUMPS

LEGEND

- EMERGENCY VEHICLE ACCESS EASEMENT (EVAE), PUBLIC ACCESS EASEMENT (PAE), PUBLIC UTILITY EASEMENT (PUE)
- STORM DRAIN EASEMENT (SDE)
- STORM DRAIN AND WATER SERVICE EASEMENT (SDE & WSE)
- EXISTING UTILITY EASEMENT TO REMAIN

NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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REVISION

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5180 SONOMA BLVD, VALLEJO, CA

RUSSELL SQUARE CONSULTING
700 WATERFRONT WAY, SUITE 301, VANCOUVER, WA 98660

DRAWING CONTENTS
PRELIMINARY UTILITY PLAN

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C4.1

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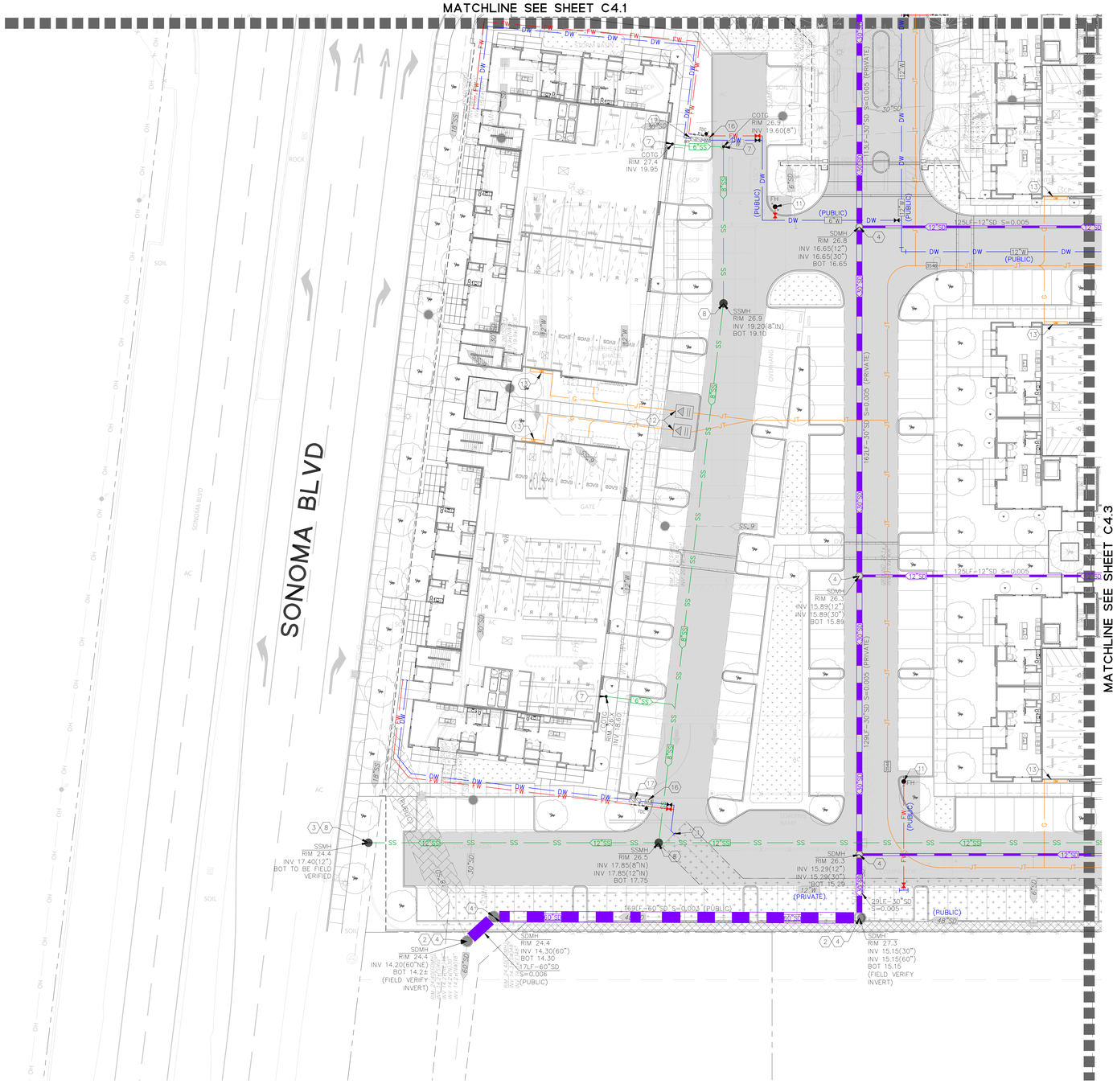

KEY NOTES

1	CONNECT TO EXISTING WATER MAIN
2	CONNECT TO EXISTING SD SYSTEM
3	CONNECT TO EXISTING SS SYSTEM
4	INSTALL (N) SDMH
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NORTH

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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RUSSELL SQUARE CONSULTING
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PRELIMINARY UTILITY PLAN

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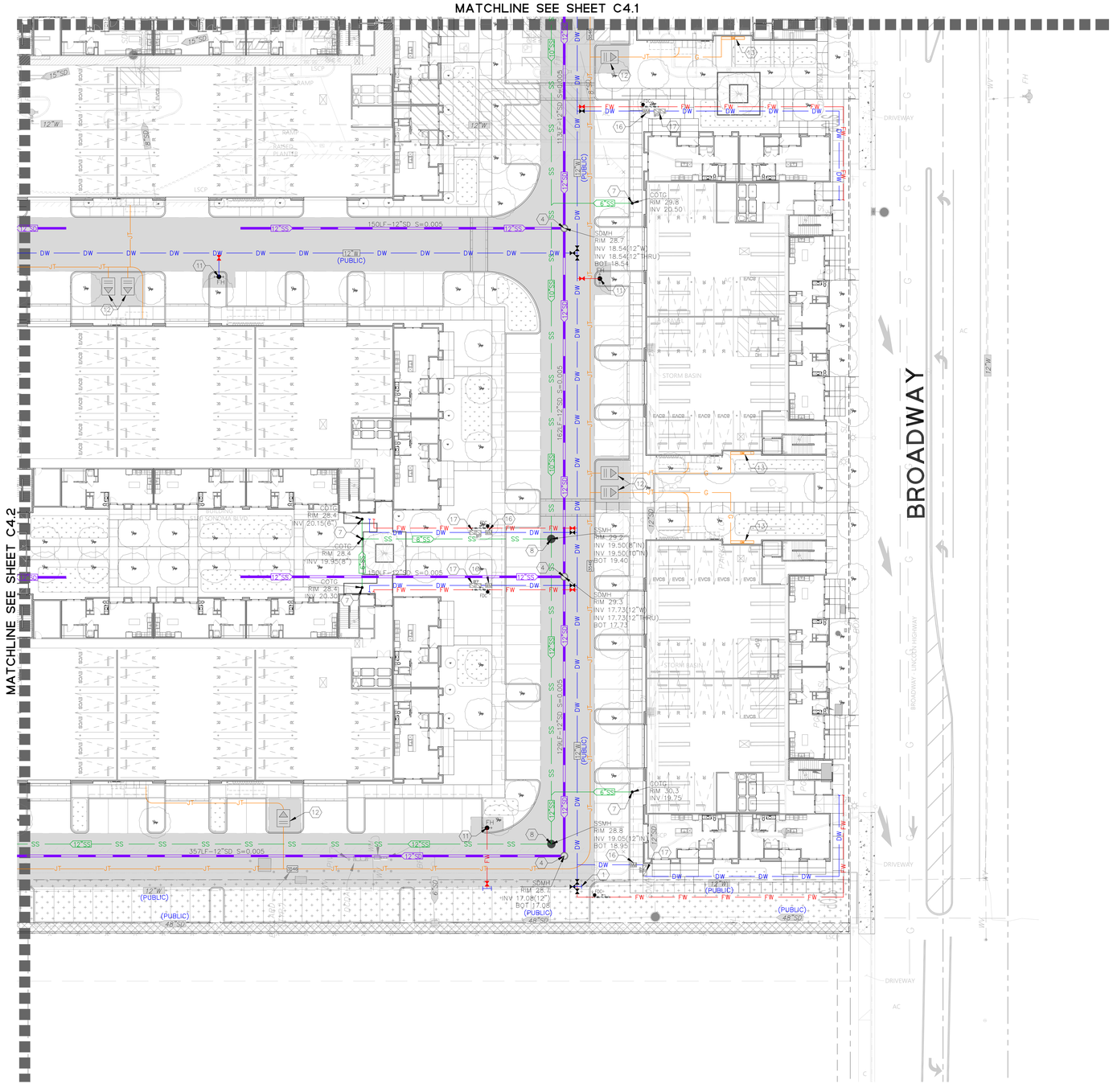

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- TRANSFORMER, SEE JT PLANS
- GAS METER
- WM — WATER METER
- BFP — BACK FLOW PREVENTER
- STORM DRAIN CATCH BASIN WITH SUBMERSIBLE PUMPS

NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

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RUSSELL SQUARE CONSULTING
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DRAWING CONTENTS
PRELIMINARY UTILITY PLAN

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C4.3

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RUSSELL SQUARE CONSULTING
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NOT FOR CONSTRUCTION

OVERALL PRELIMINARY STORMWATER CONTROL PLAN

DRAWING CONTENTS

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C5.0

2021-074	JOB NUMBER
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05-19-2022	ISSUED DATE

ABBREVIATIONS

DMA	DRAINAGE MANAGEMENT AREA
SF	SQUARE FEET
TM	TREATMENT MEASURE

STORMWATER CONTROL PLAN NOTES

1. SEE DRAFT STORMWATER CONTROL REPORT FOR NARRATIVE AND PERFORMANCE CALCULATIONS OF STORMWATER TREATMENT MEASURES AND HYDROMODIFICATION.
2. SEE SHEET C5.4 FOR TREATMENT CONTROL MEASURE SUMMARY TABLE.

LIST OF POTENTIAL POLLUTANTS:
- –LITTER
- –MOTOR OIL
- –GASOLINE
- –HYDROCARBONS
- –HEAVY METALS
- –PESTICIDES

LEGEND

- PROPERTY LINE
- DMA-X — DRAINAGE AREA BOUNDARY
- BIORETENTION BASIN
- DRAIN INLET
- STORM DRAIN CLEANOUT
- STORM DRAIN JUNCTION BOX
- STORM DRAIN MANHOLE
- BUBBLE UP BOX
- PERVIOUS PAVERS

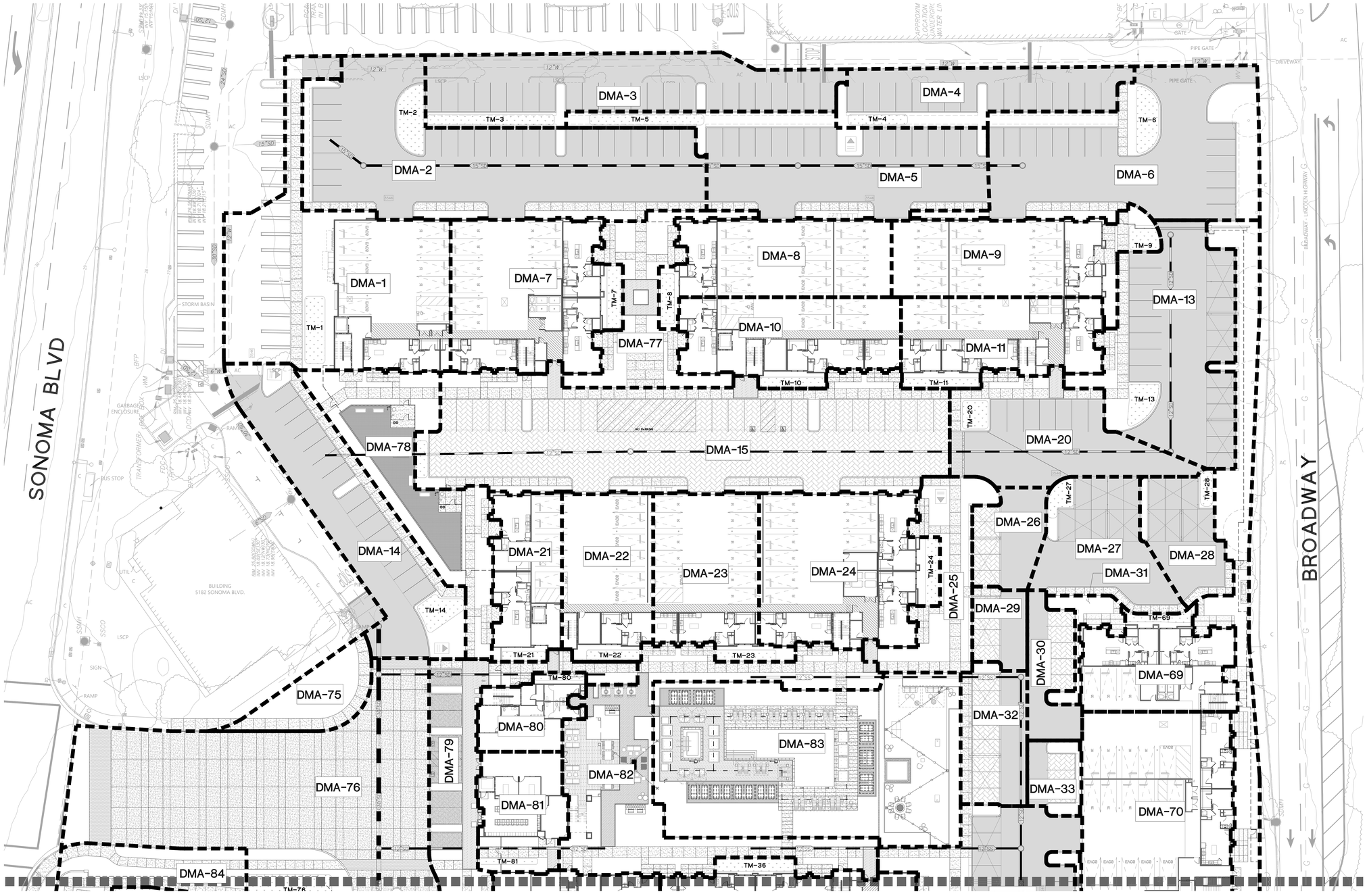
NORTH

GRAPHIC SCALE
1 INCH = 50 FT.
0 25 50 100 200

BROADWAY

SONOMA BLVD

SHEET C5.1
SHEET C5.2
SHEET C5.3



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2021-074 (JOB NUMBER)

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DRAWING CONTENTS: PRELIMINARY STORMWATER CONTROL PLAN

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RSC VALLEJO
5180 SONOMA BLVD, VALLEJO, CA

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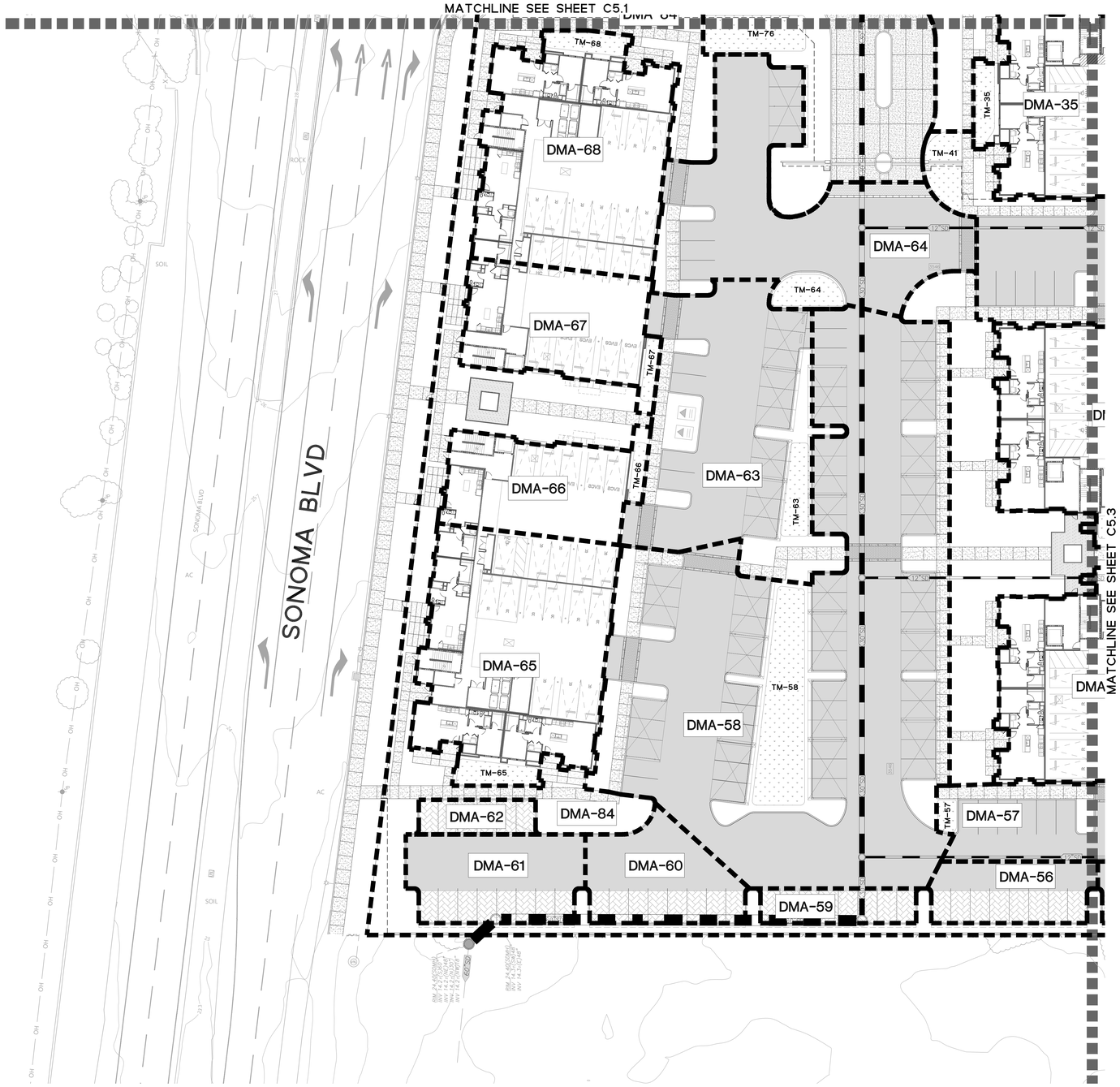

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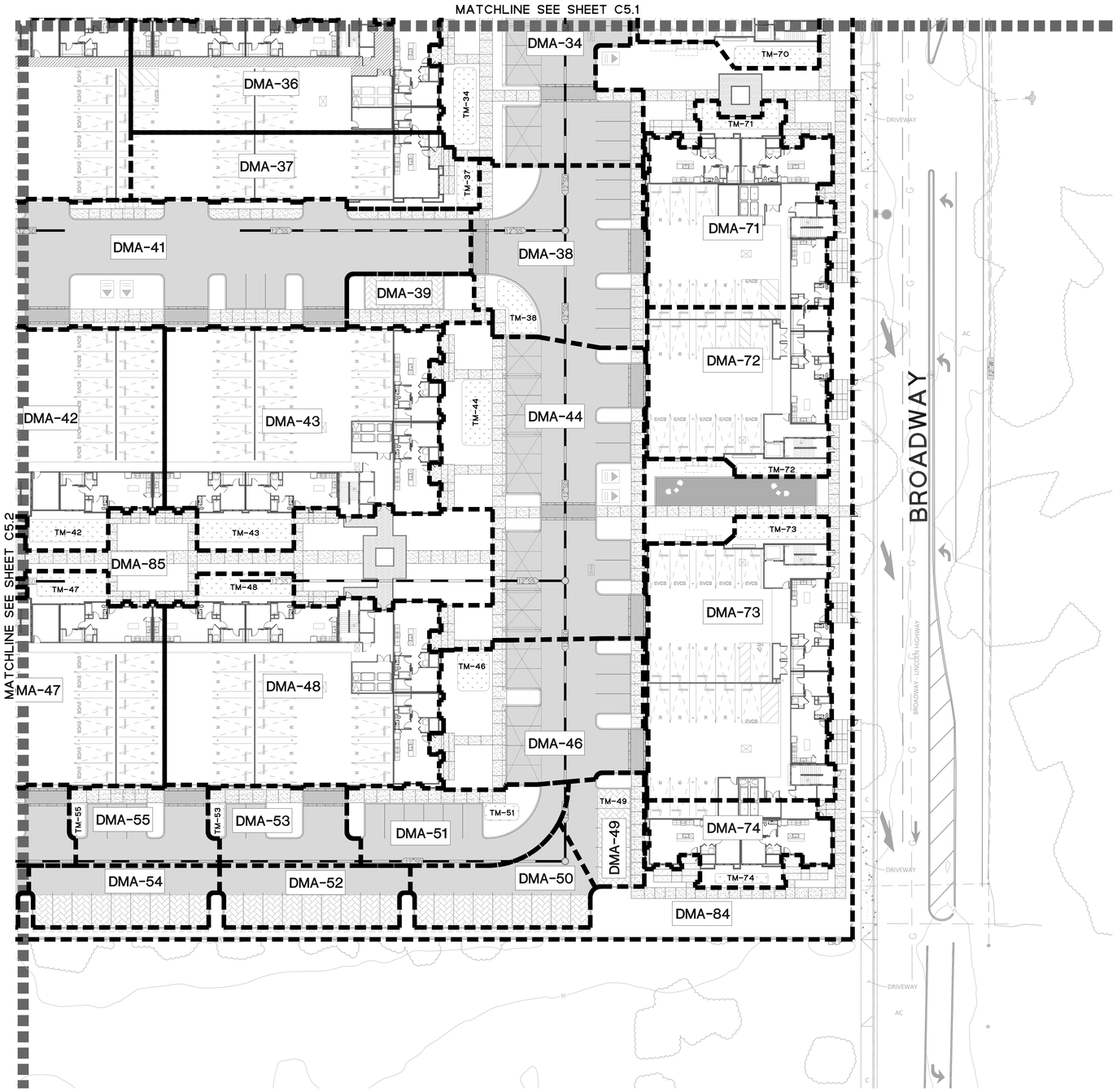

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LEGEND

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- DMA-X — DRAINAGE AREA BOUNDARY
- BIORETENTION BASIN
- DRAIN INLET
- STORM DRAIN CLEANOUT
- STORM DRAIN JUNCTION BOX
- STORM DRAIN MANHOLE
- BUBBLE UP BOX
- PERVIOUS PAVERS

NORTH

GRAPHIC SCALE

0 10 20 40 60

(IN FEET)
1 inch = 20 ft.

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RUSSELL SQUARE CONSULTING
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DRAWING CONTENTS
PRELIMINARY STORMWATER CONTROL PLAN

NOT FOR CONSTRUCTION

THIS SET OF CONSTRUCTION DOCUMENTS HAS BEEN PREPARED FOR THE CONSTRUCTION OF AN APARTMENT PROJECT.

C5.3

2021-074
JOB NUMBER

SCALE

100% DD
ISSUED AS

03-18-2022
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TREATMENT CONTROL MEASURE SUMMARY								
DRAINAGE AREAS	DRAINAGE AREA SIZE (SF)	EXISTING CONDITION		PROPOSED CONDITION		TREATMENT MEASURE SIZE		TREATMENT MEASURE TYPE
		PERVIOUS SURFACE (SF)	IMPERVIOUS SURFACE (SF)	PERVIOUS SURFACE (SF)	IMPERVIOUS SURFACE (SF)	REQUIRED (SF)	PROVIDED (SF)	
DMA-1	11988	0	11988	1721	10267	411	416	BIORETENTION BASIN
DMA-2	13440	0	13440	1550	11890	476	500	BIORETENTION BASIN
DMA-3	7599	0	7599	818	6781	271	419	BIORETENTION BASIN
DMA-4	4575	0	4575	839	3736	149	194	BIORETENTION BASIN
DMA-5	9072	0	9072	1703	7369	295	377	BIORETENTION BASIN
DMA-6	11069	0	11069	3161	7908	316	395	BIORETENTION BASIN
DMA-7	7406	0	7406	421	6985	279	294	BIORETENTION BASIN
DMA-8	5448	0	5448	375	5073	203	217	BIORETENTION BASIN
DMA-9	6046	0	6046	622	5424	217	218	BIORETENTION BASIN
DMA-10	5435	0	5435	348	5087	203	214	BIORETENTION BASIN
DMA-11	5008	0	5008	398	4610	184	207	BIORETENTION BASIN
DMA-12 (VOID)	-	-	-	-	-	-	-	-
DMA-13	8462	0	8462	856	7606	304	315	BIORETENTION BASIN
DMA-14	7581	0	7581	808	6773	271	307	BIORETENTION BASIN
DMA-15	17906	0	17906	14037	3869	1935	12662	SELF-RETAINING
DMA-16 (VOID)	-	-	-	-	-	-	-	-
DMA-17 (VOID)	-	-	-	-	-	-	-	-
DMA-18 (VOID)	-	-	-	-	-	-	-	-
DMA-19 (VOID)	-	-	-	-	-	-	-	-
DMA-20	5768	0	5768	436	5332	213	225	BIORETENTION BASIN
DMA-21	3483	0	3483	248	3235	129	130	BIORETENTION BASIN
DMA-22	4638	0	4638	344	4294	172	176	BIORETENTION BASIN
DMA-23	5339	0	5339	397	4942	198	200	BIORETENTION BASIN
DMA-24	7815	0	7815	472	7343	294	302	BIORETENTION BASIN
DMA-25	3534	0	3534	1852	1682	841	1852	SELF-RETAINING
DMA-26	1995	0	1995	675	1320	660	675	SELF-RETAINING
DMA-27	4262	0	4262	314	3948	158	201	BIORETENTION BASIN
DMA-28	2733	0	2733	326	2407	96	128	BIORETENTION BASIN
DMA-29	1319	0	1319	540	779	390	540	SELF-RETAINING
DMA-30	2000	0	2000	675	1325	663	675	SELF-RETAINING
DMA-31	870	0	870	626	244	122	626	SELF-RETAINING
DMA-32	2828	0	2828	1172	1656	828	1080	SELF-RETAINING
DMA-33	1190	0	1190	517	673	337	405	SELF-RETAINING
DMA-34	8795	0	8795	1856	6939	278	367	SELF-RETAINING
DMA-35	8297	0	8297	457	7840	314	320	BIORETENTION BASIN
DMA-36	7932	0	7932	408	7524	301	304	BIORETENTION BASIN
DMA-37	5088	0	5088	463	4625	185	195	BIORETENTION BASIN
DMA-38	6351	0	6351	1154	5197	208	301	BIORETENTION BASIN
DMA-39	1479	0	1479	1000	479	240	540	SELF-RETAINING
DMA-40 (VOID)	-	-	-	-	-	-	-	-
DMA-41	14775	0	14775	2536	12239	490	500	BIORETENTION BASIN
DMA-42	9864	0	9864	700	9164	367	371	BIORETENTION BASIN
DMA-43	11448	0	11448	793	10655	426	442	BIORETENTION BASIN
DMA-44	12352	0	12352	2887	9465	379	409	BIORETENTION BASIN
DMA-45 (VOID)	-	-	-	-	-	-	-	-
DMA-46	6155	0	6155	1647	4508	180	255	BIORETENTION BASIN
DMA-47	9738	0	9738	577	9161	366	374	BIORETENTION BASIN
DMA-48	11247	0	11247	592	10655	426	439	BIORETENTION BASIN
DMA-49	1698	0	1698	776	922	461	675	SELF-RETAINING
DMA-50	2636	0	2636	1215	1421	711	1215	SELF-RETAINING
DMA-51	3337	0	3337	513	2824	113	117	BIORETENTION BASIN
DMA-52	2398	0	2398	1215	1183	592	1215	SELF-RETAINING
DMA-53	2364	0	2364	118	2246	90	90	BIORETENTION BASIN
DMA-54	2398	0	2398	1215	1183	592	1215	SELF-RETAINING
DMA-55	2374	0	2374	236	2138	86	87	BIORETENTION BASIN
DMA-56	2102	0	2102	1215	887	444	1215	SELF-RETAINING
DMA-57	3352	0	3352	277	3075	123	125	BIORETENTION BASIN
DMA-58	28993	0	28993	4587	24406	976	1790	BIORETENTION BASIN
DMA-59	1154	0	1154	1080	74	37	1080	SELF-RETAINING
DMA-60	2875	0	2875	1080	1795	898	1080	SELF-RETAINING
DMA-61	3229	0	3229	1080	2149	1075	1080	SELF-RETAINING
DMA-62	866	0	866	810	56	28	810	SELF-RETAINING
DMA-63	9919	0	9919	1830	8089	324	443	BIORETENTION BASIN
DMA-64	9303	0	9303	682	8621	345	401	BIORETENTION BASIN
DMA-65	9253	0	9253	485	8768	351	367	BIORETENTION BASIN
DMA-66	3888	0	3888	273	3615	145	158	BIORETENTION BASIN
DMA-67	4409	0	4409	270	4139	166	171	BIORETENTION BASIN
DMA-68	8690	0	8690	439	8251	330	332	BIORETENTION BASIN
DMA-69	4238	0	4238	315	3923	157	167	BIORETENTION BASIN
DMA-70	9065	0	9065	566	8499	340	350	BIORETENTION BASIN
DMA-71	7079	0	7079	499	6580	263	266	BIORETENTION BASIN
DMA-72	6241	0	6241	400	5841	234	235	BIORETENTION BASIN
DMA-73	10541	0	10541	582	9959	398	409	BIORETENTION BASIN
DMA-74	2846	0	2846	383	2463	99	109	BIORETENTION BASIN
DMA-75	2139	0	2139	1340	799	400	1340	SELF-RETAINING
DMA-76	22130	0	22130	3034	19096	764	777	BIORETENTION BASIN
DMA-77	4033	0	4033	1796	2237	1119	1796	SELF-RETAINING
DMA-78	6463	0	6463	2412	4051	2026	2412	SELF-RETAINING
DMA-79	5614	0	5614	2908	2706	1353	2908	SELF-RETAINING
DMA-80	2103	0	2103	186	1917	77	89	BIORETENTION BASIN
DMA-81	3126	0	3126	495	2631	105	107	BIORETENTION BASIN
DMA-82	9844	0	9844	3785	6059	3030	3785	SELF-RETAINING
DMA-83	14865	0	14865	5895	8970	4485	5895	SELF-RETAINING
DMA-84	36737	0	36737	17500	19237	9619	17500	SELF-RETAINING
DMA-85	13946	0	13946	8258	5688	2844	8258	SELF-RETAINING

ABBREVIATIONS

DMA	DRAINAGE MANAGEMENT AREA
SF	SQUARE FEET
TM	TREATMENT MEASURE

STORMWATER CONTROL PLAN NOTES

1. SEE DRAFT STORMWATER CONTROL REPORT FOR NARRATIVE AND PRELIMINARY CALCULATIONS OF STORMWATER TREATMENT MEASURES AND HYDROMODIFICATION.
2. SEE SHEET C5.4 FOR TREATMENT CONTROL MEASURE SUMMARY TABLE.

LIST OF POTENTIAL POLLUTANTS:

- LITTER
- MOTOR OIL
- GASOLINE
- HYDROCARBONS
- HEAVY METALS
- PESTICIDES

LEGEND

- PROPERTY LINE
- DMA-X — DRAINAGE AREA BOUNDARY
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PRELIMINARY STORMWATER CONTROL PLAN

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DRAWING CONTENTS
OVERALL PRELIMINARY
EASEMENT PLAN

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C6.0

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LEGEND

- EMERGENCY VEHICLE ACCESS EASEMENT (EVAE), PUBLIC ACCESS EASEMENT (PAE), PUBLIC UTILITY EASEMENT (PUE)
- RECIPROCAL ACCESS EASEMENT (RAE)
- STORM DRAIN EASEMENT (SDE)
- STORM DRAIN AND WATER SERVICE EASEMENT (SDE & WSE)
- EXISTING UTILITY EASEMENT TO REMAIN
- EXISTING UTILITY EASEMENT TO BE VACATED OR PARTIALLY VACATED

EASEMENT VACATION NOTE:
EXISTING PUBLIC UTILITY, WATER AND/OR STORM DRAIN EASEMENTS THAT ARE TO BE VACATED SHALL REQUIRE WRITTEN APPROVAL FROM EACH UTILITY COMPANY THAT THEY HAVE NO ISSUES WITH THE VACATION.

NORTH

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

BROADWAY
BROADWAY - LINCOLN HIGHWAY
LINCOLN HIGHWAY
SONOMA BLVD
SONOMA BLVD
MADONNA DRIVE

6' PUBLIC UTILITY EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
6' PUBLIC UTILITY EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
6' PUBLIC UTILITY EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
15' WATER EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
15' WATER SERVICE EASEMENT TO REMAIN
15' WATER SERVICE EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
20' STORM DRAIN AND WATER SERVICE EASEMENT TO PARTIALLY REMAIN
20' STORM DRAIN AND WATER SERVICE EASEMENT TO PARTIALLY REMAIN
20' STORM DRAIN AND WATER SERVICE EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
20' STORM DRAIN AND WATER SERVICE EASEMENT TO REMAIN
20' STORM DRAIN AND WATER SERVICE EASEMENT TO REMAIN
ROADWAY EASEMENT FOR CALTRANS PURPOSES TO REMAIN
20' STORM DRAIN AND WATER SERVICE EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
20' STORM DRAIN AND WATER SERVICE EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
15' WATER SERVICE EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT
15' STORM DRAIN EASEMENT TO BE VACATED BY SEPARATE INSTRUMENT