Kimley»Horn

TECHNICAL MEMORANDUM

To: Matt Chang and Susana Martinez, City of South Pasadena

From: Jessie Fan, Project Manager

Date: July 22, 2022

Subject: Fairview Court Project – Class 32 Categorical Exemption

---

1.0 INTRODUCTION & PURPOSE

Kimley-Horn and Associates, Inc. has been retained to evaluate the Fairview Court Project (Project) concerning California Environmental Quality Act (CEQA) compliance. This Technical Memorandum (TM) was prepared to present the findings of the CEQA compliance review, as described below. This TM was also prepared to present the recommendations concerning the appropriate CEQA compliance documentation.

The Project's CEQA compliance review relied on the following documentation:

- Conceptual Site Plan; see **Appendix A: Conceptual Site Plans.**
- Gibson Transportation Consulting, Inc., *Transportation Study for the Fairview Court Project.* December 2021, Revised April 2022; see **Appendix B: Transportation Study**.
- EcoTierra Consulting, Inc., *1020 El Centro Street Noise Analysis.* January 2022, Revised July 2022; see **Appendix C: Noise Analysis**.
- EcoTierra Consulting, Inc., *1020 El Centro Street Air Quality, Global Climate Change, and Energy Analysis.* December 2021, Revised July 2022; see **Appendix D: Air Quality, Global Climate Change, and Energy Analysis**.
- Joseph Catalano AIA, Historic Preservation Consultant, *Historic Resource Evaluation: 1020 El Centro Street.* December 2021, Revised June 30, 2022; see **Appendix E: Historic Resource Evaluation.**

2.0 STATUTORY AUTHORITY & REQUIREMENTS

CEQA Guidelines Section 15061 – Review for Exemption

Once it has determined that an activity is a project subject to CEQA, it is then determined whether a project is exempt from CEQA. Pursuant to CEQA Guidelines Section 15061, a project is exempt from CEQA if:

1) The project is exempt by statute; see CEQA Guidelines Article 18, commencing with Section 15260.

2) The project is exempt pursuant to a Categorical Exemption (see CEQA Guidelines Article 19, commencing with Section 15300) and the application of that Categorical Exemption is not barred by one of the exceptions set forth in CEQA Guidelines Section 15300.2.

3) The activity is covered by the commonsense exemption that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

4) The project will be rejected or disapproved by a public agency.

5) The project is exempt pursuant to the provisions of Article 12.5 - Exemptions for Agricultural Housing, Affordable Housing, and Residential Infill Projects.

CEQA Guidelines Article 19 - Categorical Exemptions

CEQA Guidelines Article 19 includes a list of classes of projects, which have been determined not to have a significant effect on the environment and, therefore, are exempt from CEQA. The class of projects that is relevant to the Project is presented below.

CEQA Guidelines Section 15332 – Infill Development. Class 32 consists of projects characterized as in-fill development meeting the conditions described below.

(a) The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations.

(b) The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.

(c) The project site has no value as habitat for endangered, rare, or threatened species.

(d) Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.

(e) The site can be adequately served by all required utilities and public services.

CEQA Guidelines Section 15300.2 - Exceptions. The following conditions are exceptions that bar the application of a Categorical Exemption:

(a) *Location*. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

(b) *Cumulative Impact*. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

(c) *Significant Effect*. A Categorical Exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

(d) *Scenic Highways*. A Categorical Exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.

(e) *Hazardous Waste Sites*. A Categorical Exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

(f) *Historical Resources*. A Categorical Exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

3.0 PROJECT DESCRIPTION

FSM Sopas LLC (the Applicant) proposes a mixed-use development (Project) on an approximately 1.9-acre (82,762 square feet) site (Project Site) located at 1020 El Centro Street within the City of South Pasadena (City). The Project Site (Los Angeles County Assessor Parcel Number [APN] 5315-008-047) is bound by Mission Street to the north, Fairview Avenue to the east, El Centro Street to the south, and Diamond Avenue to the west. The Project Site is currently developed with an existing school administrative office building and auditorium and a surface parking lot.

The Project would construct up to 108 multi-family dwelling units, including 19 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of the existing buildings on the Project Site as part of its proposed commercial space. The total commercial space would include approximately 22,032 square feet of floor area. A detailed description of the Project Site characteristics and Project are provided below.

Project Location and Surrounding Uses

As shown in **Figure 1: Project Vicinity Map**, the Project Site is located south of the State Route 110 (SR 110) Freeway. The Project Site is located in the central area of the City at the northwestern corner of El Centro Street and Fairview Avenue. The Project Site is located in the Mission Street Specific Plan (MSSP) zoning district.

This page intentionally left blank.

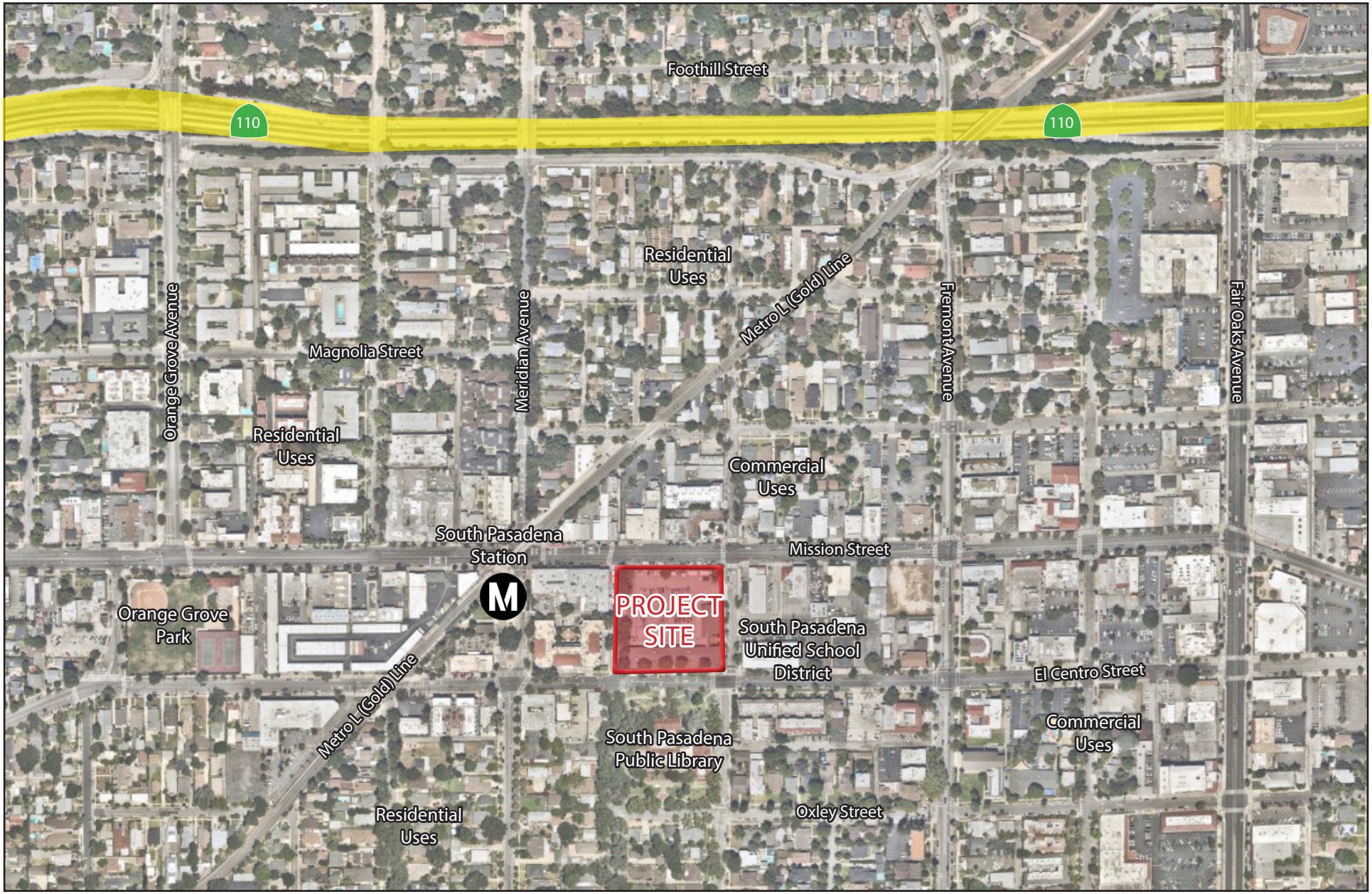


FIGURE 1: Project Vicinity Map
Fairview Court Project
City of South Pasadena

Not to Scale

Kimley»Horn
Expect More. Experience Better.

This page intentionally left blank

The Project Site has a General Plan land use designation of Mission Street Specific Plan (MSSP)[1] and is zoned MSSP-District A.[2] The Project Site is currently developed with an existing school administrative office building that housed the former South Pasadena Unified School District, an auditorium and a surface parking lot. The school administrative office building and auditorium total 11,435 square feet and are located in the southeastern corner of the Project Site. The school administrative building was constructed in 1928; the auditorium and the connecting loggia[3] were constructed between 1928 and 1932. The school administrative building, auditorium, and the loggia were included as a Contributor to a National Register Historic District in 1977 based on the administrative buildings' exterior characteristics. A Bell Tower was removed in 1949; however, it was determined that the Bell Tower did not contribute to the significance of the administrative building and did not affect the building's inclusion as a Contributor.

The Project Site is in an urbanized area that is developed with a mix of residential and commercial uses. The surrounding land uses include commercial uses to the north; commercial uses and the South Pasadena Unified School District building to the east; the South Pasadena Public Library and other community uses to the south; and commercial and multi-family residential uses to the west. Additional single-family and multi-family residences are located farther south across El Centro Street. The Project Site is primarily accessed by Fairview Avenue from both Mission Street and El Centro Street, with a singular driveway located on Fairview Avenue.

The Project Site is located approximately 635 feet east of the Los Angeles County Metropolitan Transportation Authority (Metro) L (Gold) Line South Pasadena Station; therefore, the Project is in a Transit Priority Area (TPA). The Metro L Line provides services between Azusa and East Los Angeles, and would connect to the Metro B (Red) Line and D (Purple) Line, Metrolink, Amtrak, and other public transit at Union Station. Metro Local 258 travels east-west on Mission Street, with stops at Meridian Avenue and Fremont Avenue, and travels from Highland Park/South Pasadena to Paramount.

Project Characteristics

The Project Site plans are provided in **Attachment A: Conceptual Site Plans** of this TM. The Project would construct a new four-story building comprising up to 108 multi-family residential units, including 19 affordable housing units, and 10,597 square feet of new ground-floor commercial space. The Project would provide 7 studios, 90 one-bedroom units, and 11 two-bedroom units. The Project would adaptively reuse the existing school administrative office building and auditorium

[1] City of South Pasadena, Land Use Policy Map. Available at https://www.southpasadenaca.gov/home/showpublisheddocument/211/636721709083330000. Accessed June 1, 2022.

[2] City of South Pasadena, Mission Street Specific Plan, April 1996. Available at: https://www.southpasadenaca.gov/home/showpublisheddocument/9763/636721709083330000. Accessed June 1, 2022.

[3] A Loggia is a covered exterior gallery or corridor, with outer walls open to the elements.

on the southeastern corner of the Project Site. As part of the adaptive reuse, the existing 11,435 square feet of school administrative office building and auditorium would be converted to commercial space. No modifications are proposed for the administrative office building and auditorium, and all character defining features that contributed to the administrative office buildings' designation as a Contributor would not be removed. The building would be remediated per the Secretary of the Interior's Standards to ensure that any existing defects (e.g., windows that are in fair to poor condition due to weather exposure) would be preserved or repaired.

The total commercial space would include 11,016 square feet of retail space and 11,016 square feet of restaurant, resulting in a total of 22,032 square feet. The Project's commercial areas are approved as a shell; each restaurant or retail tenant would be required to submit a tenant improvement and signage design under a separate permit. The existing surface parking lot (approximately 56,628 square feet) would be removed to accommodate the development of the Project. The Project would result in a total developed floor area of approximately 96,542 square feet (inclusive of the adaptively reused space) and a floor area ratio (FAR) of 1.17:1.

The Project would be required to provide 29,700 square feet of open space across the Project Site. The Project would provide 65,773 square feet of open space, comprised of 20,564 square feet of public open space; 8,422 square feet of semi-public open space; 12,027 square feet of private open space; and 24,760 square feet of communal private open space. The residential units on the ground floor fronting Diamond Avenue would have private yards with yard gates to access the street. The residential units facing the courtyard would have private gardens with low walls in front of the front doors. The residential units on the upper floors would have balconies and private roof gardens. Approximately 20,471 square feet of open space would be landscaped. The Project would provide a 13,437 square foot courtyard on the ground floor of the new building. The courtyard would include elevated planters for trees and at-grade planters for planting. A dining patio would be located on the northeastern corner of the Project Site. Lawns would be provided on the El Centro Street frontage. The existing trees on the Project Site would be protected wherever possible. Approximately 70 trees would be provided on the Project Site. No outdoor events or special events would occur on the Project Site.

Based on the MSSP requirements, the Project would be required to provide 185 vehicle parking spaces.[4] The Project's residential component would have a reduced parking requirement from the State's Density Bonus Requirement, which would reduce the Project's total required parking to 128 spaces. The Project would include 249 vehicle parking spaces, consisting of 108 residential spaces, 66 commercial spaces, and 75 additional spaces for public uses. Of the 249 vehicle parking spaces, 4 spaces would be designated for electric vehicles (EV). The Project would also provide 17 bicycle parking spaces. Project parking and bicycle storage spaces would be provided within two levels of

[4] Based on MSSP requirements, the commercial uses would be required to provide 3 spaces per 1,000 square feet. Each residential dwelling unit with two or more bedrooms would be required to provide 2 parking spaces, and each single or one-bedroom unit would be required to provide 1 parking space.

subterranean parking.

The residential units on the ground floor would be accessible from Mission Street or Diamond Avenue or from the courtyard through a private yard. The retail spaces along Mission Street would be accessible from Fairview Avenue and El Centro Street. The parking would be accessed via one driveway proposed at the approximate location of the existing driveway on Fairview Avenue. Elevators and stairs in the subterranean parking garage would bring pedestrians back to the courtyard. Pedestrian and bicycle access to the Project Site would be provided via entrances along all street frontages around the Project Site boundaries.

The subterranean garage entrance would be gated to control entry from the public between 2 AM and 5 AM. Residential parking would be separated from the commercial parking by a gate; the residents would be able to access their parking area via keyless remote entry transmitter or controller. The Project would be fully sprinklered. The Project would include security lighting and fencing of open spaces where appropriate. The Project would also include modern security devices (e.g., security cameras) rather than barriers, where applicable. Signage and secure gate access would separate resident parking from retail and guest parking.

Construction

The Project is anticipated to be built in one phase. Project construction is anticipated to begin as early as 2023 and would be completed and operational in 2024. Construction of the Project is estimated to require approximately 21 months. Project construction would include the demolition of the existing surface parking lot, rehabilitation of the existing buildings, grading to prepare the Project Site for the new construction, excavation to accommodate the subterranean parking level, concrete pouring for the building foundation, building construction, and architectural coatings. Demolition activities would include the removal of the surface parking on-site and would require the use of haul trucks. Heavy-duty equipment, vendor supply trucks and concrete trucks would be used during construction of foundations and the parking structure. Landscaping and architectural coating would occur during the finishing activities. The Project would export approximately 37,420 cubic yards (cy) of cut (export) and approximately 56,628 square feet (equivalent) of hardscape (pavement material).

4.0 FINDINGS CONCERNING CEQA COMPLIANCE

Kimley-Horn has completed the Project's CEQA compliance review and summarized the findings below.

Exemption Justification Under Class 32 – Infill Development

Land Use Consistency. The Project Site is located in the MSSP zoning district. The Project Site has a General Plan land use designation of Mission Street Specific Plan (MSSP)[5] and is zoned MSSP-District A.[6] District A is intended to include convenience retail and services, restaurants, and specialty retail uses on the ground floor uses on street frontages, while also allowing for housing units, offices, studios, and other lodging uses.

The Project proposes a mixed-use development, which would include residential units and ground floor retail/commercial space; therefore, the Project would be consistent with the applicable General Plan designation, zoning designation, and all applicable policies and regulations.

Location and Size. The Project Site totals approximately 1.90 acres and is located entirely within the City's limits. The surrounding land uses include commercial uses to the north, commercial uses and the South Pasadena Unified School District building to the east, the South Pasadena Public Library and other community uses to the south, and commercial and multi-family residential uses to the west. Therefore, the Project would occur entirely within City limits on a Project Site that is no more than five acres substantially surrounded by urban uses.

Biological Resources. The Project Site is currently developed with an existing school administrative office building and auditorium and the associated surface parking lot. The Project Site is bordered by existing residential and commercial uses and well-utilized roadways. There are no regional resources or habitats nearby that could contain sensitive species, and all nearby habitat is disturbed with little-to-no native vegetation. Therefore, the Project would not result in any significant effects relating to biological resources. The Project Site would have no value as a habitat for endangered, rare, or threatened species.

Traffic. The City adopted its Transportation Impact Analysis Methodology (TIA Guidelines) on May 20, 2020. As shown in **Table 1: Summary of Project Trip Generation**, the Project would generate more than 100 daily trips; therefore, a detailed CEQA Transportation Impact Analysis is necessary (see **Appendix B**).

[5] City of South Pasadena, Land Use Policy Map. Available at https://www.southpasadenaca.gov/home/showpublisheddocument/211/636721709083330000. Accessed June 28, 2022.

[6] City of South Pasadena, Mission Street Specific Plan, April 1996. Available at: https://www.southpasadenaca.gov/home/showpublisheddocument/9763/636721709083330000. Accessed June 28, 2022.

Table 1: Summary of Project Trip Generation

Land Use[1]	Quantity	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Multifamily Housing (Mid-Rise)	108 dwelling units	588	10	29	39	29	19	48
Internal Capture Reduction[2]		*-156*	*-1*	*-6*	*-7*	*-11*	*-6*	*-17*
Transit/Walk-In Reduction - 15%[3]		*-65*	*-1*	*-3*	*-4*	*-3*	*-2*	*-5*
Strip Retail Plaza (< 40,000 square feet)	11,016 square feet	235	5	3	8	7	8	15
Internal Capture Reduction[2]		*-139*	*0*	*-1*	*-1*	*-12*	*-12*	*-24*
Transit/Walk-In Reduction - 15%[3]		*-42*	*-1*	*0*	*-1*	*-1*	*-2*	*-3*
High-Turnover (Sit-Down) Restaurant	11,106 square feet	893	45	41	86	48	22	70
Internal Capture Reduction[2]		*-185*	*-7*	*-1*	*-8*	*-10*	*-15*	*-25*
Transit/Walk-In Reduction - 15%[3]		*-158*	*-8*	*-7*	*-15*	*-9*	*-4*	*-13*
Project Trips		**1,495**	**58**	**64**	**122**	**70**	**41**	**111**
Office (School Administrative Building)	11,435 square feet	111	11	2	13	2	11	13
Transit/Walk-In Reduction - 15%[3]		*-17*	*-2*	*0*	*-2*	*0*	*-2*	*-2*
Existing to be Removed		**94**	**9**	**2**	**11**	**2**	**9**	**11**
Total - Net New Project Trips		**1,401**	**49**	**62**	**111**	**68**	**32**	**100**

1 Trip generation rates are from Trip Generation Manual, 10th Edition (Institute of Transportation Engineers [ITE], 2017) and are based on developments located in "General Urban/Suburban" area.
2 Internal capture reductions account for person trips made between distinct land uses within a mixed-use development without using an off-site road system, per the NCHRP 8-51 Internal Trip Capture Estimation Tool (National Cooperative Highway Research Program Report 684 – Enhancing Internal Trip Capture Estimation for Mixed-Use Developments, Transportation Research Board and National Research Council, 2011).
3 The Project Site is located within 400 feet of a major transit station (Metro L Line South Pasadena Station); thus, a 15 percent transit/walk-in reduction was applied to account for transit usage and walking visitor arrivals from the surrounding neighborhoods and adjacent commercial developments.

Source: Gibson Transportation Consulting, Inc., Transportation Study for the Fairview Court Project, April 2022. See Appendix B.

The City's TIA Guidelines include a screening evaluation to determine whether the Project would be expected to have a less-than-significant vehicle miles traveled (VMT) impact or if further VMT analysis is required. In accordance with the City's TIA Guidelines and as stated in the Transportation Study, the Project is located in a TPA. Therefore, the Project would not be required to conduct further detailed VMT transportation analysis pursuant to the screening thresholds in the TIA Guidelines. Therefore, no significant CEQA transportation impact is anticipated with the development of the Project.

Noise. As concluded in the Project's Noise Analysis (see **Appendix C**), the Project's construction and operational noise and vibration levels would not exceed applicable City or Federal Transit Administration standards. The Project would result in less than significant construction and

operational noise and vibration impacts. Therefore, the Project's approval would not result in any significant noise and vibration effects pursuant to CEQA Guidelines Section 15332(d).

Air Quality. As concluded in the Project's Air Quality, Global Climate Change, and Energy Analysis (see **Appendix D**), the Project's construction and net increase in operational emissions would not exceed applicable South Coast Air Quality Management District (SCAQMD) emissions thresholds, above which the SCAQMD has indicated that a project's contribution to increased regional ambient pollutant levels may be considerable. Thus, the Project would result in less than significant construction and operational air quality impacts. In addition, the Project would comply with applicable SCAQMD Rules, which would further minimize the Project's construction-related emissions. Therefore, the Project's approval would not result in significant air quality effects pursuant to CEQA Guidelines Section 15332(d).

Water Quality. The Project would not involve the extraction of groundwater. Historically high groundwater in the Project Site vicinity is estimated to be deeper than 100 feet below ground surface.[7] Fluctuations in the groundwater level may occur due to variations in rainfall, temperature, and other factors. However, due to the depth of groundwater anticipated on the Project Site, Project construction and operation would not interfere with groundwater. Impacts to groundwater would be less than significant.

The Project's construction-related activities would include ground-disturbing activities, which would displace soils and temporarily increase the potential for soils to be subject to wind and water erosion. Construction-related erosion effects would be addressed through compliance with the National Pollutant Discharge Elimination System (NPDES) Program's Construction General Permit, which would be issued by the Los Angeles Regional Water Quality Control Board (LARWQCB). The Construction General Permit requires development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) and monitoring plan, which must include erosion-control and sediment-control best management practices (BMPs) that would meet or exceed measures required by the Construction General Permit to control potential construction-related pollutants. Following compliance with NPDES and City requirements, the Project's construction-related activities would not violate any water quality standards or otherwise substantially degrade surface or groundwater quality.

Stormwater discharge is generated by rainfall that runs off the land and impervious surfaces, and can include pollutants of concern which would affect stormwater quality. The Project is not anticipated to produce any pollutants that would result in a violation of water quality standards or waste discharge requirements. The Project would be required to comply with the applicable requirements of SPMC Chapter 23, Stormwater and Urban Runoff Pollution Control, Section 23.14,

[7] California Department of Conservation Division of Mines and Geology, Seismic Hazard Zone Report for the Los Angeles 7.5-Minute Quadrangle, Seismic Hazard Zone Report SHZR-029, 1998, Plate 1.2, Historically Highest Ground Water Contours and Borehole Log Data Locations, Los Angeles Quadrangle.

Stormwater pollution control measures for development planning and planning and construction activities. The Project would require a stormwater mitigation plan that complies with the most recent LARWQCB-approved SUSMP. Any pollutants or waste would be discharged according to all appropriate local, State, and federal rules and regulations. Compliance with applicable SUSMP and long-term water quality requirements would be reviewed by the South Pasadena Department of Public Works during the plan check phase of the Project. Therefore, Project operation would not violate any water quality standards or waste discharge requirements.

In conclusion, the Project's approval would not result in any significant effects relating to water quality pursuant to CEQA Guidelines Section 15332(d).

Utilities and Public Services. The Project would occur within an urbanized area where there is available water, sewer, storm drain, natural gas, electricity, telecommunications services. Further, the existing school administrative office building and auditorium would be retained and converted to commercial space. Additionally, the Project would be consistent with the site's intended land uses, as concluded in the *Land Use* Section above; thus, the demands for utilities and public services associated with the property have been accounted for. The City would also require the Applicant to provide a sewer study during the plan check phase to ensure that the proposed sewer outlet on adjacent streets is sufficient to handle the proposed sewage flow and to clarify the Applicant's responsibility for any upsizing or other improvements that may be required to handle the Project's flow. The Project Site can be adequately served by all required utilities and public services. Therefore, the Project's approval would not result in any significant effects relating to utilities and public services pursuant to CEQA Guidelines Section 15332(d).

Exceptions to Categorical Exemptions

As previously noted, a project is exempt from CEQA pursuant to a Categorical Exemption provided the application of that Categorical Exemption is not barred by one of the exceptions set forth in CEQA Guidelines Section 15300.2. The following demonstrates the Project does not meet any of the exceptions that would bar a Categorical Exemption.

Exception A, Location. The Project would qualify for a Categorical Exemption under Class 32; therefore, because this exception pertains to Classes 3, 4, 5, 6, and 11, it is not applicable to the proposed Project.

Exception B, Cumulative Impact. Other proposed projects within the Project area would be required to demonstrate consistency with the City's General Plan policies and SPMC regulations. There are no successive projects similar to the Project proposed on the Project Site. Additionally, as concluded above, the Project would result in no environmental impact or less than significant impacts. Therefore, no significant cumulative impact would occur.

Exception C, Significant Effect. The proposed Project is not expected to have a significant effect on the environment due to unusual circumstances; see *Exemption Justification* above for biological resources, traffic, noise and vibration, air quality, and water quality.

Exception D, Scenic Highways. There are no State-designated scenic highways in the Project site vicinity.[8] The closest State-designated scenic highway is State Route 110 (Arroyo Seco Historic Parkway Scenic Byway), located approximately 0.30 miles north of the Project Site. Moreover, there are no scenic resources present on the Project Site. Therefore, the Project would not damage scenic resources within a State scenic highway.

Exception E, Hazardous Waste Sites. Government Code Section 65962.5 refers to the Hazardous Waste and Substances Site List, commonly known as the Cortese List, maintained by the Department of Toxic Substances Control. The Project Site is not included on the Cortese List.[9]

Exception D, Historical Resources. As detailed in the Historic Resource Evaluation (see **Appendix E**), the Project Site is within both a National Register Historic District and within the City's MSSP. The existing school administrative office building is a Contributor within the Historic District. As part of the Project, the existing school administrative office building and auditorium would be retained and adaptively reused. The adaptive reuse of the building would follow the Secretary of the Interior's Standards and Guidelines for the treatment category of Adaptive Reuse. The existing school administrative office building and auditorium would also be seismically upgraded to meet the present California Building Code for purposes of its proposed new Occupancy use.[10] As the building exterior would remain unaltered and would be restored with no significant negative impacts, the Project would not cause a substantial adverse change in the significance of a historical resource.

5.0 CONCLUSION

As is evidenced by the discussions presented above, the Project qualifies as being exempt from CEQA under Class 32. Moreover, it has been determined that the Project is not barred from the application of a Categorical Exemption, pursuant to CEQA Guidelines Section 15300.2. Therefore,

---

[8] California Department of Transportation, California State Scenic Highway System Map. Available at https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed June 26, 2022.

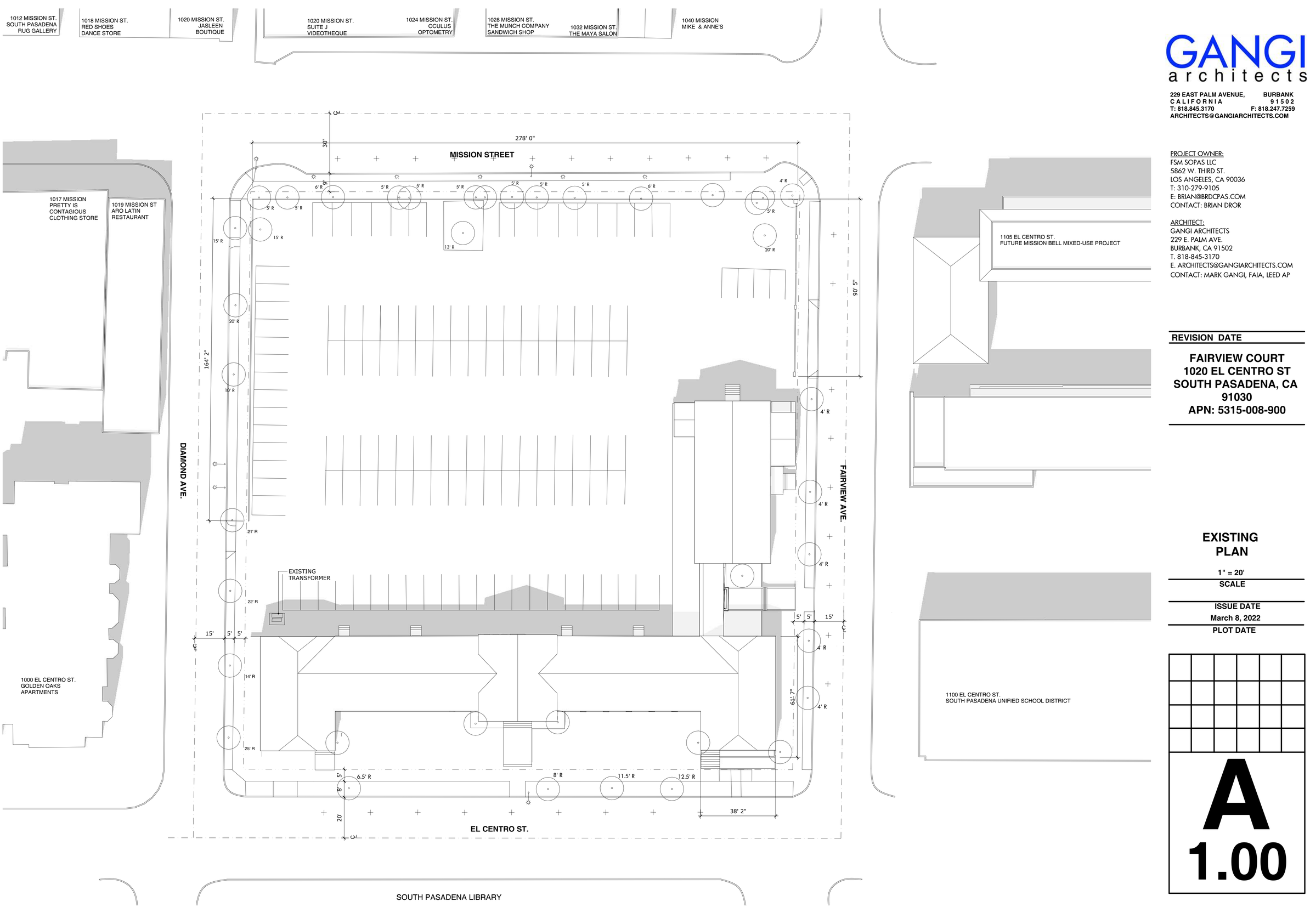
[9] Department of Toxic Substance Control, Hazardous Waste and Substances Site List. Available at https://www.envirostor.dtsc.ca.gov/public/search?cmd=search&reporttype=CORTESE&site_type=CSITES,FUDS&status=ACT,BKLG,COM&reporttitle=HAZARDOUS+WASTE+AND+SUBSTANCES+SITE+LIST. Accessed June 26, 2022.

[10] As stated in the Historic Resources Evaluation (see **Appendix E**), the adaptive reuse of the building itself into commercial uses would qualify for a CEQA Class 31 Categorical Exemption, which requires rehabilitation of the building consistent with the Secretary of the Interior's Standards and Guidelines.

it has been determined that the Project would not have a significant effect on the environment, and a Categorical Exemption is the appropriate CEQA documentation.

Appendix A

Conceptual Site Plans



GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

EXISTING PLAN

1" = 20'
SCALE

ISSUE DATE
March 8, 2022
PLOT DATE

A
1.00













GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

EXISTING SITE

SCALE

ISSUE DATE
March 8, 2022
PLOT DATE

A 1.10

1012 MISSION ST.
SOUTH PASADENA
RUG GALLERY

1018 MISSION ST.
RED SHOES
DANCE STORE

1020 MISSION ST.
JASLEEN
BOUTIQUE

1020 MISSION ST.
SUITE J
VIDEOTHEQUE

1024 MISSION ST.
OCULUS
OPTOMETRY

1028 MISSION ST.
THE MUNCH COMPANY
SANDWICH SHOP

1032 MISSION ST.
THE MAYA SALON

1040 MISSION
MIKE & ANNE'S

MISSION STREET

120' 0"

120' 0"

30'

9'

PL

CENTER OF THE NEAREST TRAVEL LANE

1017 MISSION
PRETTY IS
CONTAGIOUS
CLOTHING STORE

1019 MISSION ST
ARO LATIN
RESTAURANT

PRIVATE
ROOFTOP
DECK

PRIVATE
ROOFTOP
DECK

PRIVATE
ROOFTOP
DECK

PROPOSED RESIDENTIAL

PROPOSED
RESIDENTIAL

PROPOSED
RESIDENTIAL

PROPOSED
RESIDENTIAL

PL

PL

106' 9"

1105 EL CENTRO ST.
FUTURE MISSION BELL MIXED-USE PROJECT

20' 0"

EXISTING
DOWNSPOUT

EXISTING
DOWNSPOUT

EXISTING
BUILDING

PROPOSED
RETAIL/ COMMERCIAL

EXISTING
DOWNSPOUT

EXISTING
DOWNSPOUT

EXISTING
DOWNSPOUT

295' 0"

DIAMOND AVE.

FAIRVIEW AVE.

21' 8"

7' 10"

TRASH ENCLOSURE 170 SF
98 SF REQ. PER SPMC 36.300.060 TABLE 3-4

EXISTING
TRANSFORMER

EXISTING
DOWNSPOUT

PLANTERS PER
LANDSCAPE
SEE L001

15'

5'

5'

15'

EXISTING
DOWNSPOUT

EXISTING
DOWNSPOUT

EXISTING BUILDING

PROPOSED
RETAIL/ COMMERCIAL

EXISTING DOWNSPOUT

EXISTING DOWNSPOUT

EXISTING DOWN SPOUT

EXISTING DOWN SPOUT

EXISTING
DOWNSPOUT

1000 EL CENTRO ST.
GOLDEN OAKS
APARTMENTS

1100 EL CENTRO ST.
SOUTH PASADENA UNIFIED SCHOOL DISTRICT

5'

8'

20'

PL

EL CENTRO ST.

280' 0"

GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

NOTE: AIR CONDITIONING CONDENSORS ARE TO BE LOCATED IN THE CENTER OF THE ROOFS BEHIND THE PARAPETS. IF ANY UNITS ARE VISIBLE SCREENING WILL BE PROVIDED

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

KEY:
SOLAR PANEL

DRAIN AND OVERFLOW
MODEL # ZURN Z165
NO EXPOSED DOWNSPOUTS

NOTE: ON-SITE LOADING AREA NOT REQUIRED PER MSSP 6.2.3

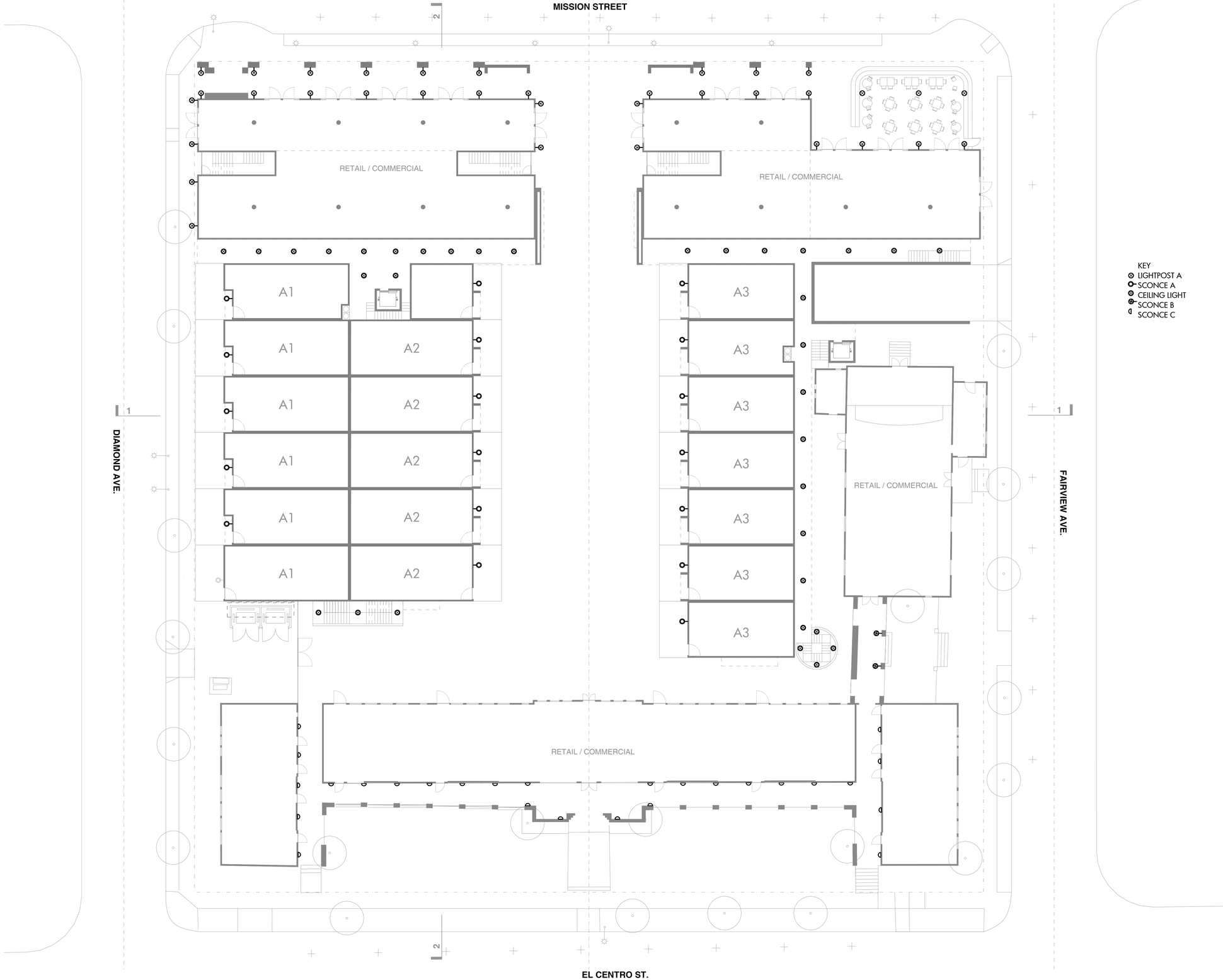
PROPOSED SITE PLAN

N

1" = 20'
SCALE

ISSUE DATE
April 18, 2022
PLOT DATE

A
1.20



KEY
- LIGHTPOST A
- SCONCE A
- CEILING LIGHT
- SCONCE B
- SCONCE C

GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

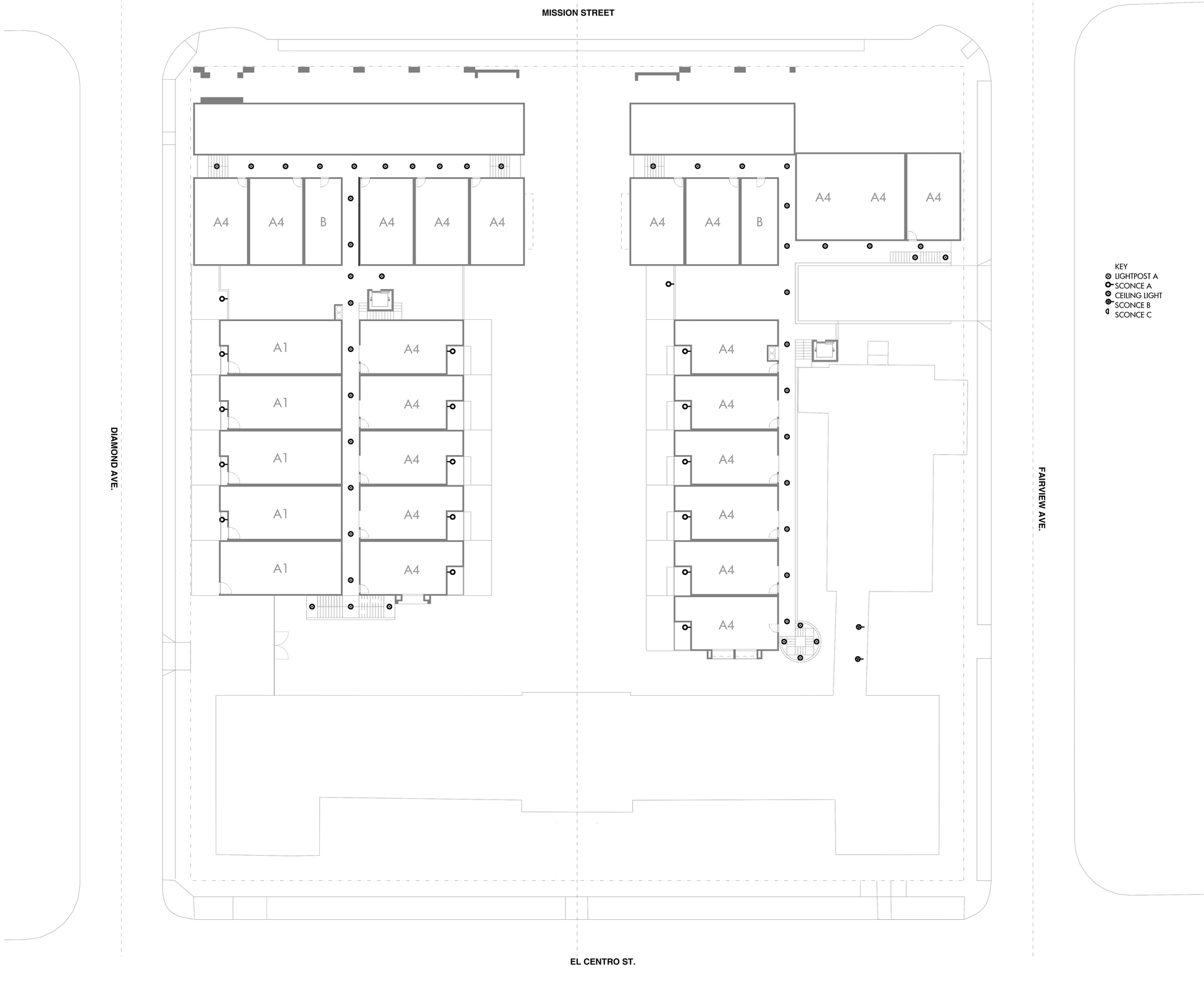
FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

LIGHTING PLAN LEVEL 01

SCALE

ISSUE DATE
December 16, 2021
PLOT DATE

A
1.30



KEY
- LIGHTPOST A
- SCONCE A
- CEILING LIGHT
- SCONCE B
- SCONCE C

GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

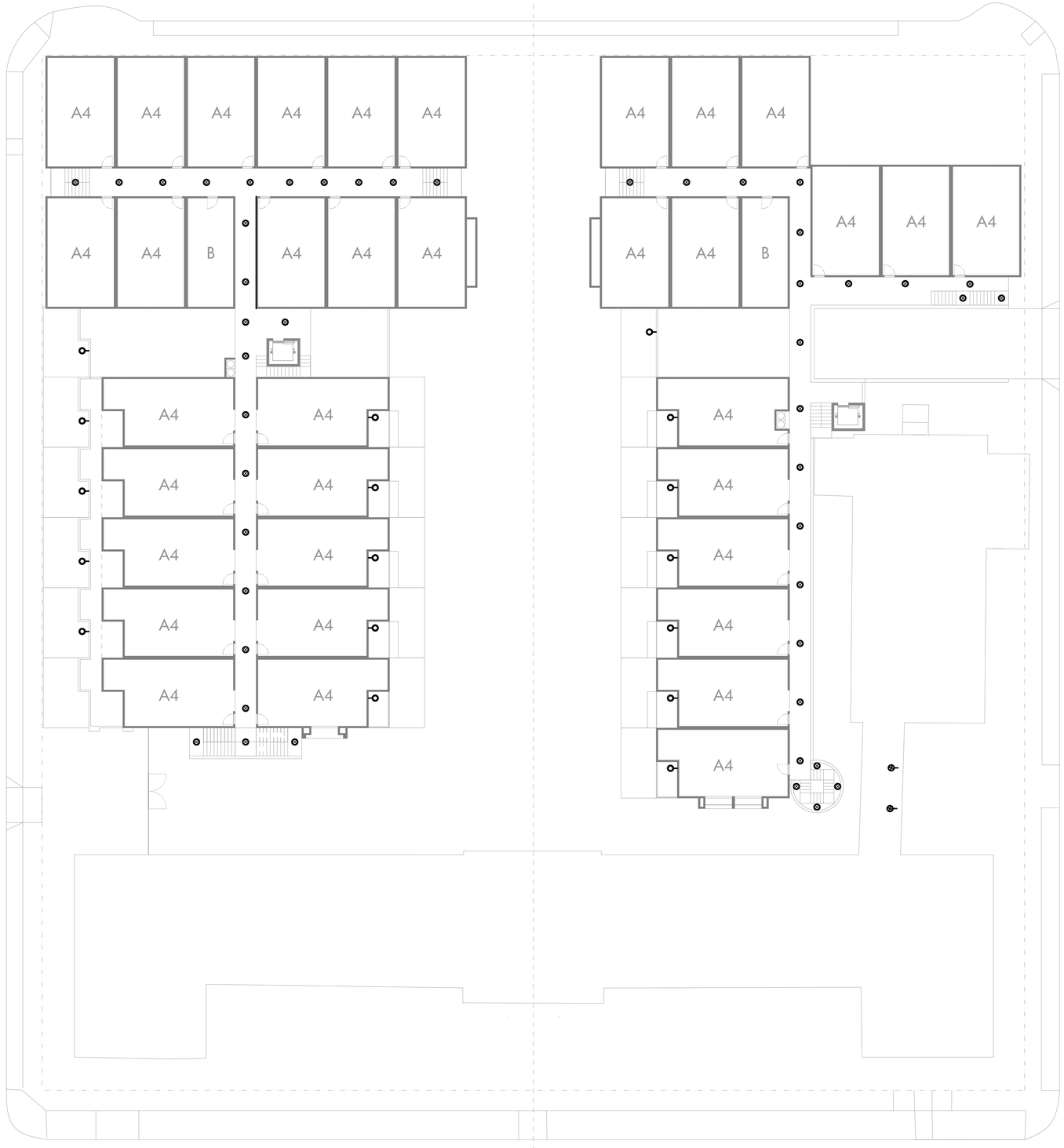
FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

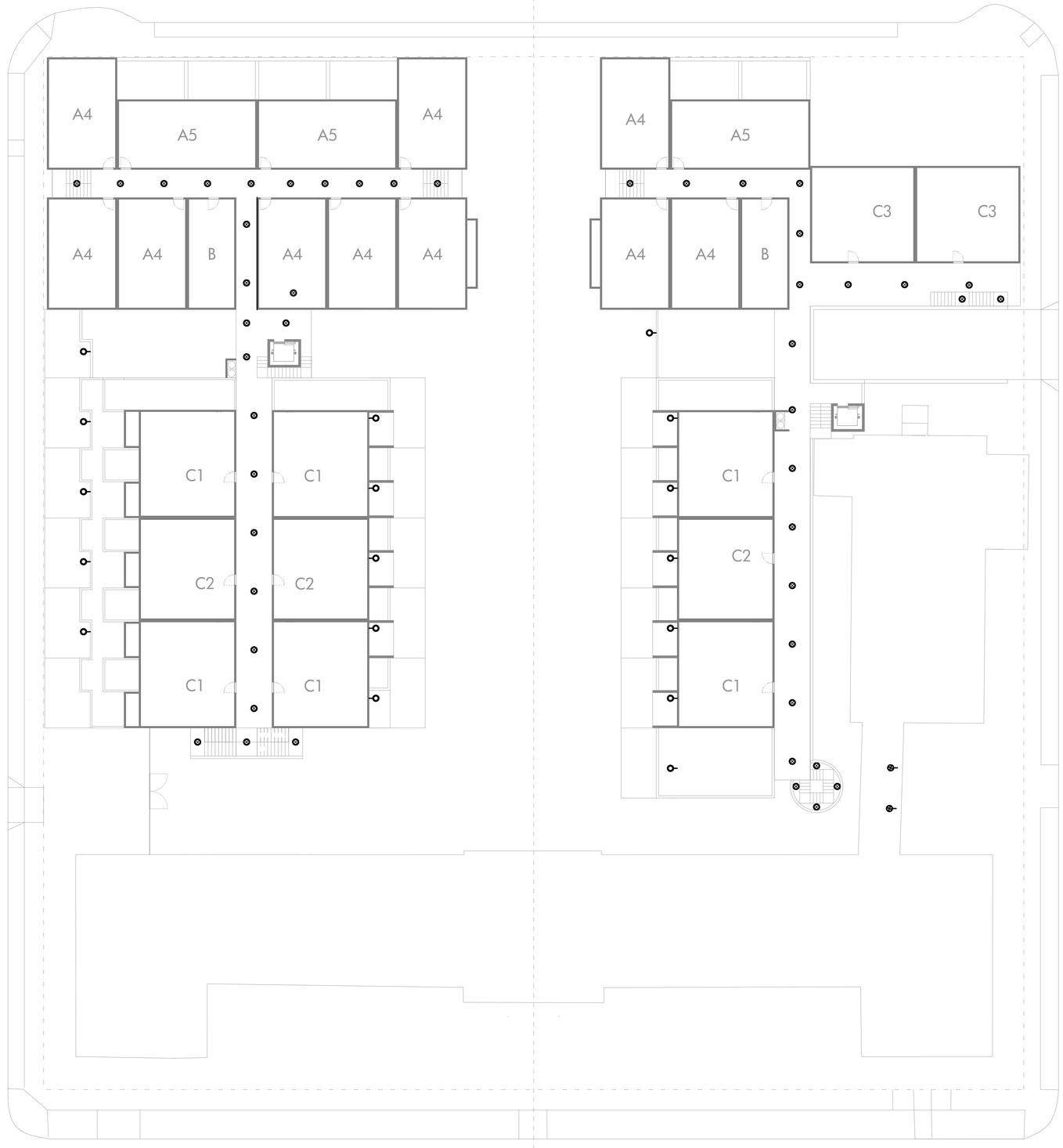
LIGHTING PLAN LEVEL 02

SCALE

ISSUE DATE
December 16, 2021
PLOT DATE

A
1.40


A4
A4
A4
A4
A4
A4
A4
A4
B
A4
A4
A4
A4
A4
A4
A4



KEY
- LIGHTPOST A
- SCONCE A
- CEILING LIGHT
- SCONCE B
- SCONCE C

GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

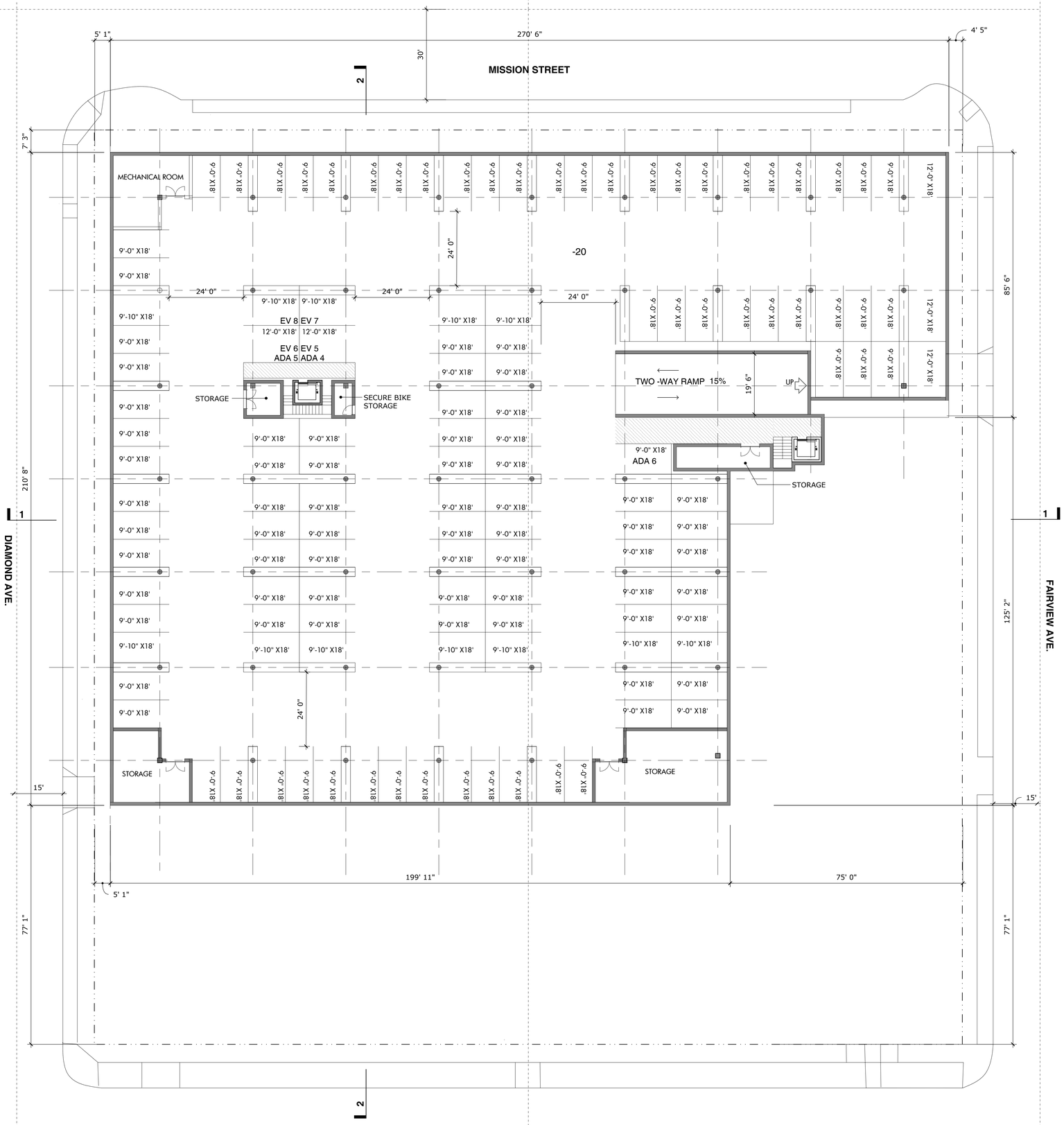
FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

LIGHTING PLAN
LEVEL 04

SCALE

ISSUE DATE
December 16, 2021
PLOT DATE

A
1.60



GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

PARKING SPACES PROVIDED

	B1	B2	TOTAL
STANDARD	100	107	207
ADA ONLY	1	1	2
EV ONLY	2	2	4
ADA & EV	2	2	4
TANDEM	16	16	32
TOTAL	121	128	249

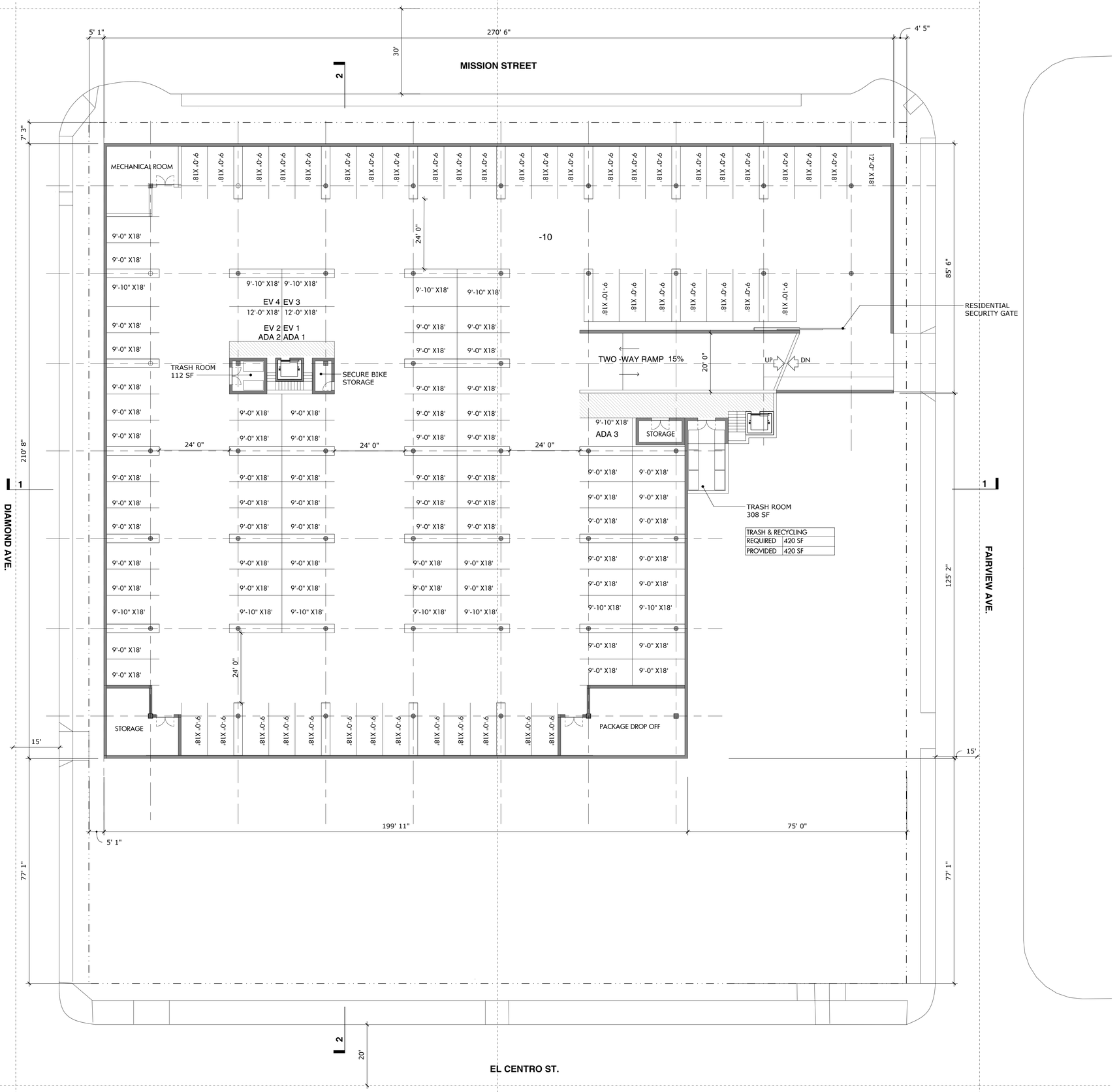
108 RESIDENTIAL
66 COMMERCIAL
75 ADDITIONAL

PARKING B2

1/16"= 1'-0
SCALE

ISSUE DATE
April 18, 2022
PLOT DATE

A
2.00



GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

PARKING SPACES PROVIDED

	B1	B2	TOTAL
STANDARD	100	107	207
ADA ONLY	1	1	2
EV ONLY	2	2	4
ADA & EV	2	2	4
TANDEM	16	16	32
TOTAL	121	128	249

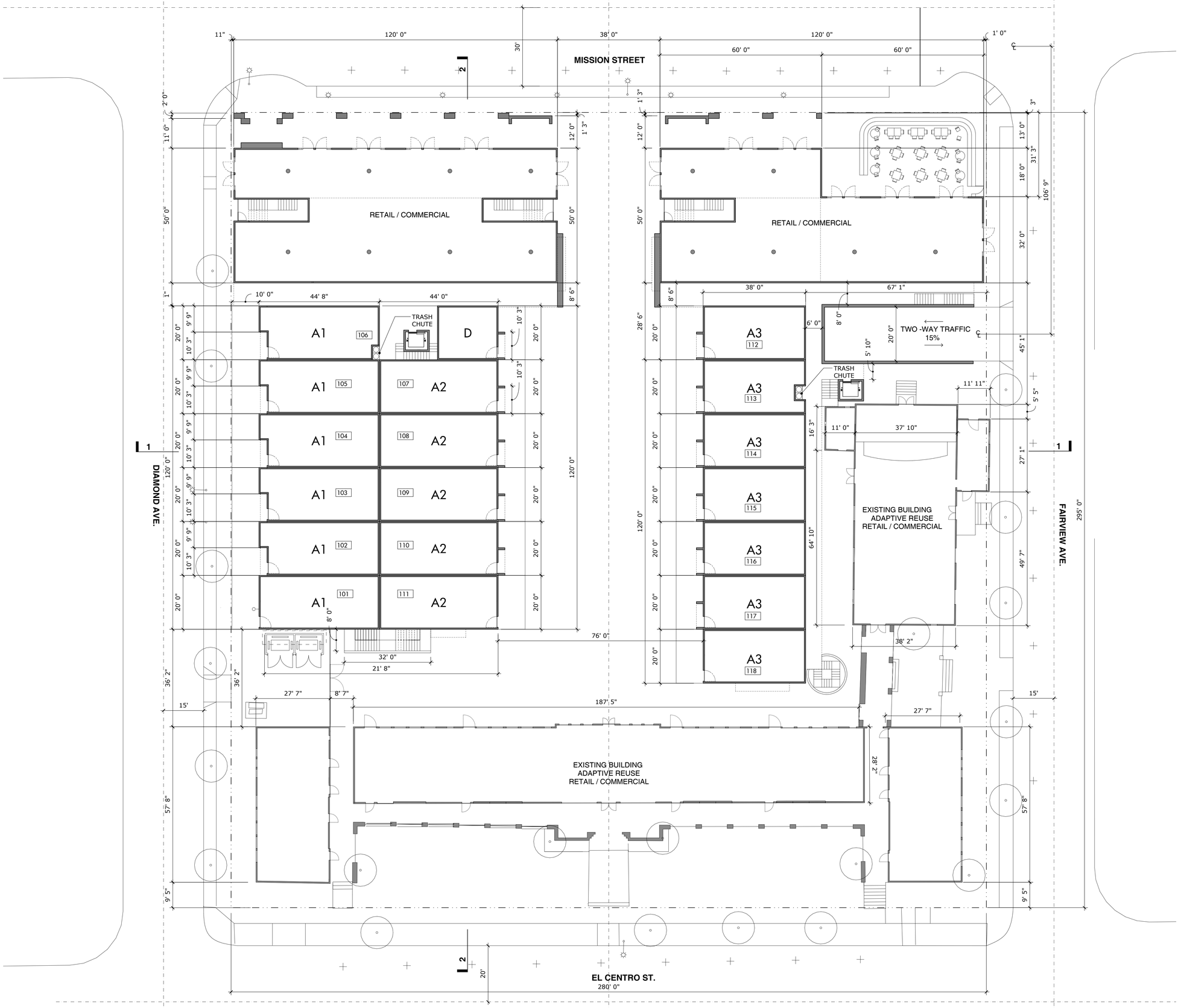
108 RESIDENTIAL
66 COMMERCIAL
75 ADDITIONAL

PARKING B1

1/16"= 1'-0
SCALE

ISSUE DATE
April 18, 2022
PLOT DATE

A 2.10



GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

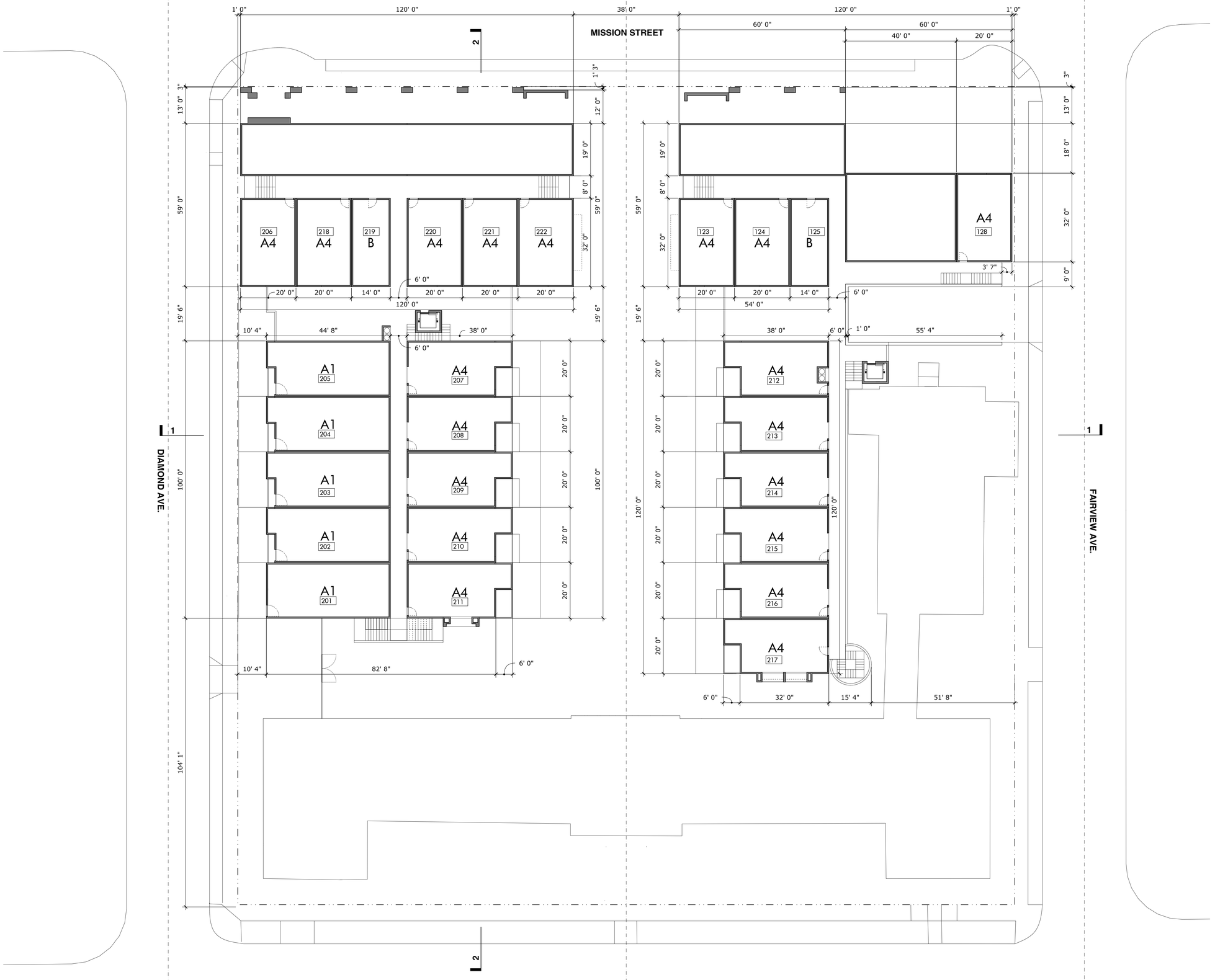
NOTES:
1. EXISTING BUILDING IS A CONTRIBUTOR TO A HISTORIC DISTRICT
2. SEE A0.00 FOR UNIT TYPE BREAKDOWN PER FLOOR
3. THE AFFORDABLE UNITS MAY ONLY BE 10% SMALLER (OF EACH TYPE) THAN MARKET RATE UNITS NOT THE OVERALL UNIT AVERAGE OR GREATEST SIZE.

GROUND FLOOR

1/16"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

A
2.20



GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

NOTES:
1. EXISTING BUILDING IS A CONTRIBUTOR TO A HISTORIC DISTRICT
2. SEE A0.00 FOR UNIT TYPE BREAKDOWN PER FLOOR
3. THE AFFORDABLE UNITS MAY ONLY BE 10% SMALLER (OF EACH TYPE) THAN MARKET RATE UNITS NOT THE OVERALL UNIT AVERAGE OR GREATEST SIZE.

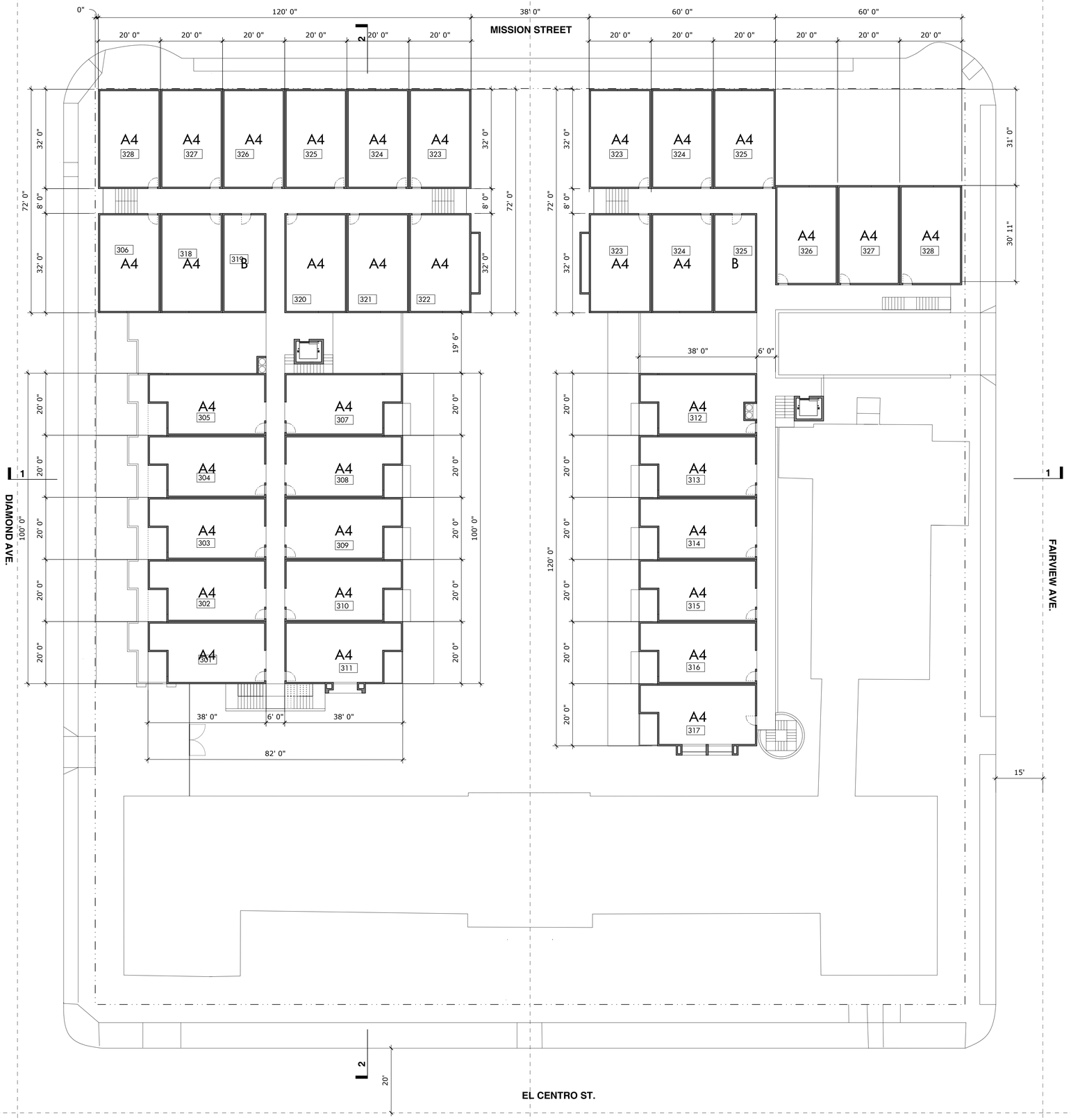
N

LEVEL 02

1/16"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

A
2.30



GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

NOTES:
1. EXISTING BUILDING IS A CONTRIBUTOR TO A HISTORIC DISTRICT
2. SEE A0.00 FOR UNIT TYPE BREAKDOWN PER FLOOR
3. THE AFFORDABLE UNITS MAY ONLY BE 10% SMALLER (OF EACH TYPE) THAN MARKET RATE UNITS NOT THE OVERALL UNIT AVERAGE OR GREATEST SIZE.

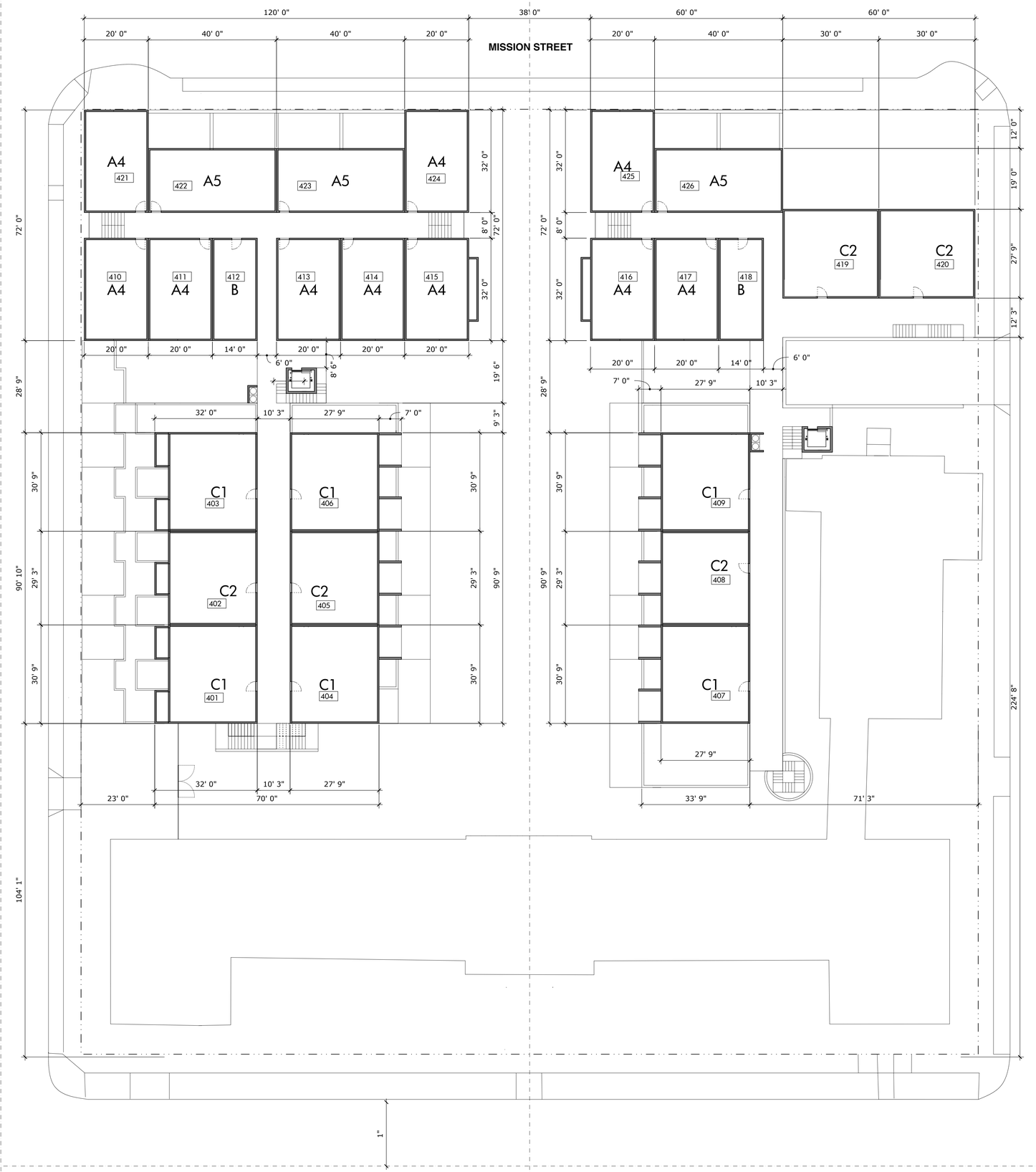
N

LEVEL 03

1/16"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

A
2.40



GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

NOTES:
1. EXISTING BUILDING IS A CONTRIBUTOR TO A HISTORIC DISTRICT
2. SEE A0.00 FOR UNIT TYPE BREAKDOWN PER FLOOR
3. THE AFFORDABLE UNITS MAY ONLY BE 10% SMALLER (OF EACH TYPE) THAN MARKET RATE UNITS NOT THE OVERALL UNIT AVERAGE OR GREATEST SIZE.

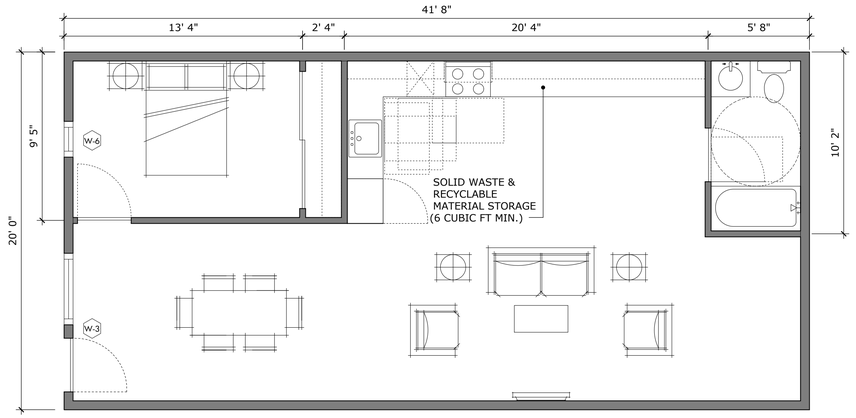
N

LEVEL 04

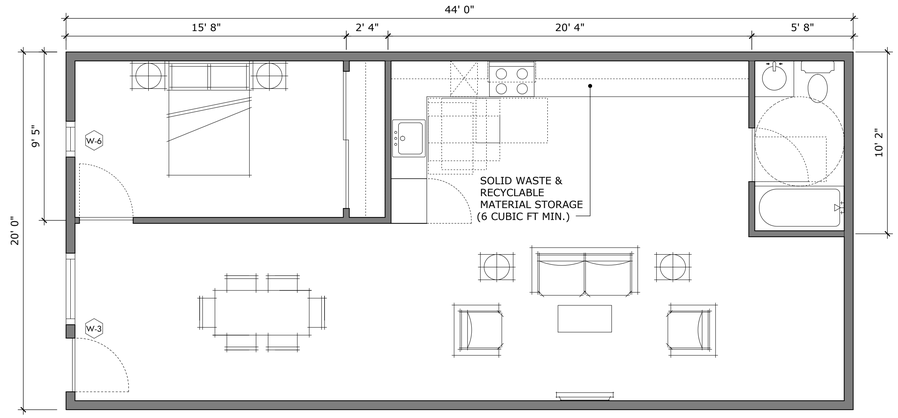
1/16"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

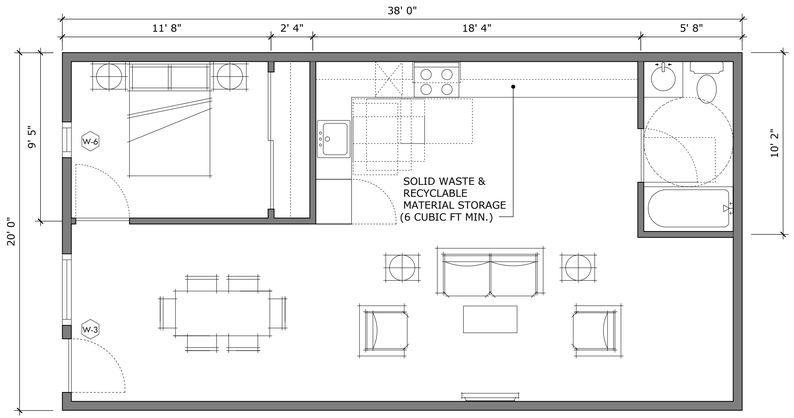
A 2.50



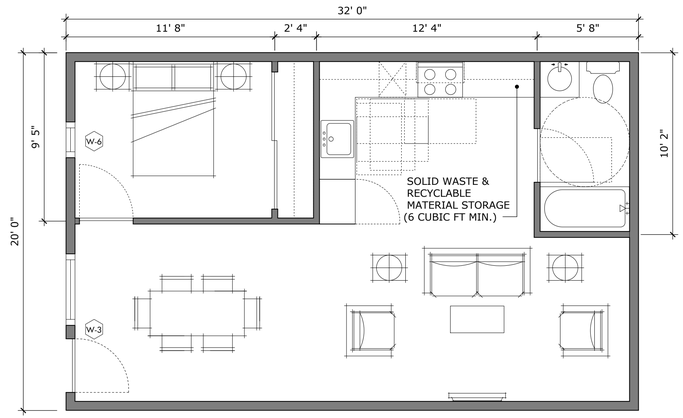
UNIT A1 - 1 BEDROOM
(11)@ 830 SF= 9,130 SF



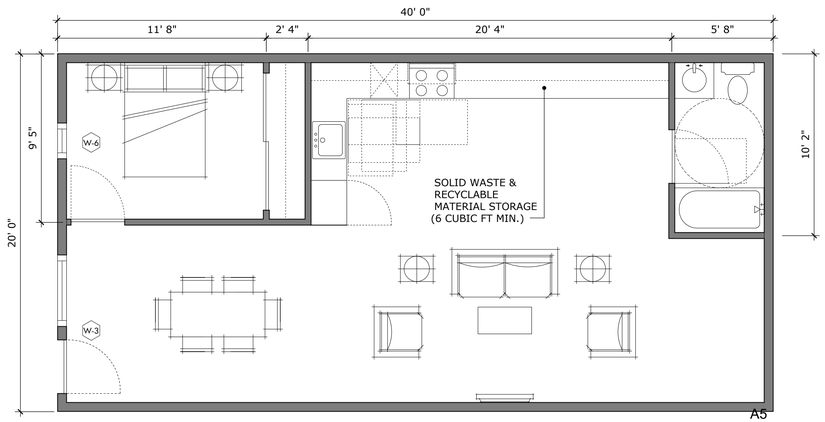
UNIT A2 - 1 BEDROOM
(5)@ 880 SF= 4,400 SF



UNIT A3 - 1 BEDROOM
(7)@ 760 SF= 5,320 SF



UNIT A4 - 1 BEDROOM
(66)@ 640 SF= 42,240 SF



UNIT A5 - 1 BEDROOM
(3)@ 800 SF= 2,400 SF

GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

UNIT A TOTAL = 63,490 SF

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

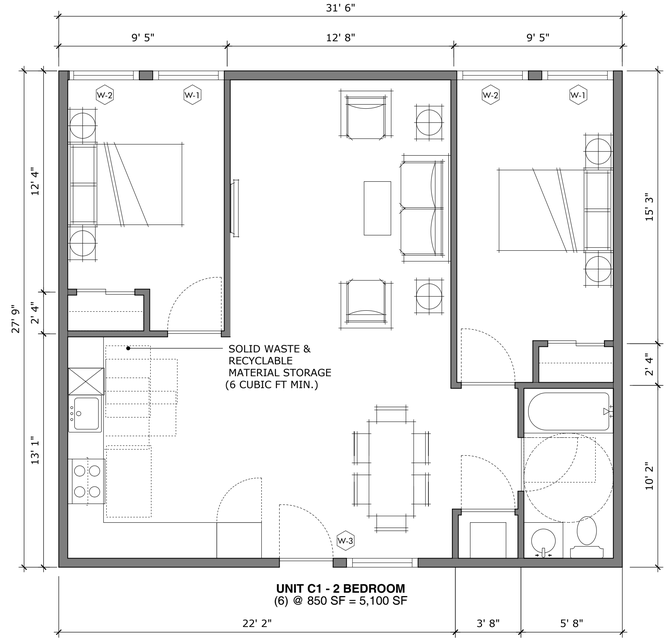
NOTES:
1. EXISTING BUILDING IS A CONTRIBUTOR TO A HISTORIC DISTRICT
2. SEE A0.00 FOR UNIT TYPE BREAKDOWN PER FLOOR
3. THE AFFORDABLE UNITS MAY ONLY BE 10% SMALLER (OF EACH TYPE) THAN MARKET RATE UNITS NOT THE OVERALL UNIT AVERAGE OR GREATEST SIZE.

ENLARGED UNIT PLANS

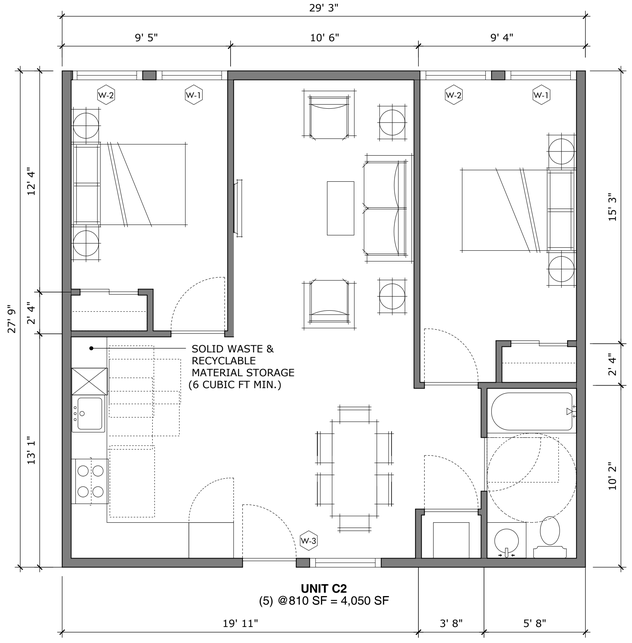
1/4"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

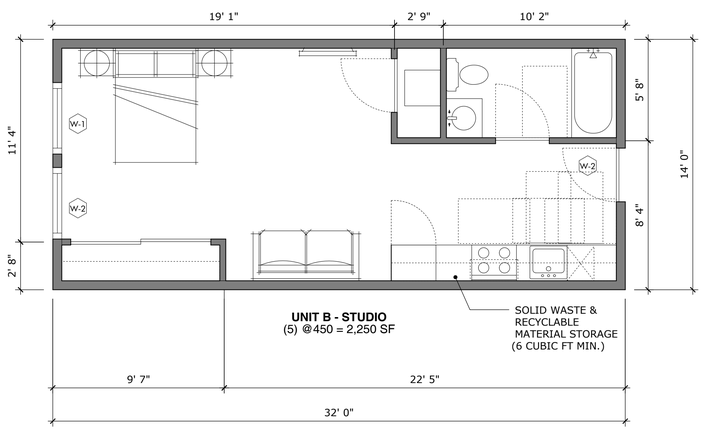
A
2.60



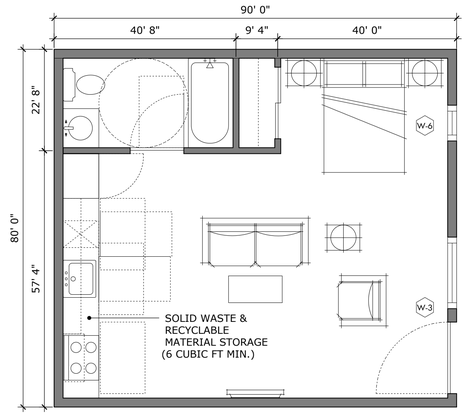
UNIT C1 - 2 BEDROOM
(6) @ 850 SF = 5,100 SF



UNIT C2
(5) @810 SF = 4,050 SF



UNIT B - STUDIO
(5) @450 = 2,250 SF



UNIT D - STUDIO
(1) @450 = 450 SF

GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

UNIT B TOTAL = 2,250 SF
UNIT C TOTAL = 9,150 SF
UNIT D TOTAL = 450 SF

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

NOTES:
1. EXISTING BUILDING IS A CONTRIBUTOR TO A HISTORIC DISTRICT
2. SEE A0.00 FOR UNIT TYPE BREAKDOWN PER FLOOR
3. THE AFFORDABLE UNITS MAY ONLY BE 10% SMALLER (OF EACH TYPE) THAN MARKET RATE UNITS NOT THE OVERALL UNIT AVERAGE OR GREATEST SIZE.

ENLARGED UNIT PLANS

1/4"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

A 2.70

GANGI
architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM



SOUTH ELEVATION
EL CENTRO ST.



NORTH ELEVATION
MISSION STREET

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

ELEVATIONS

1/16"= 1'-0
SCALE

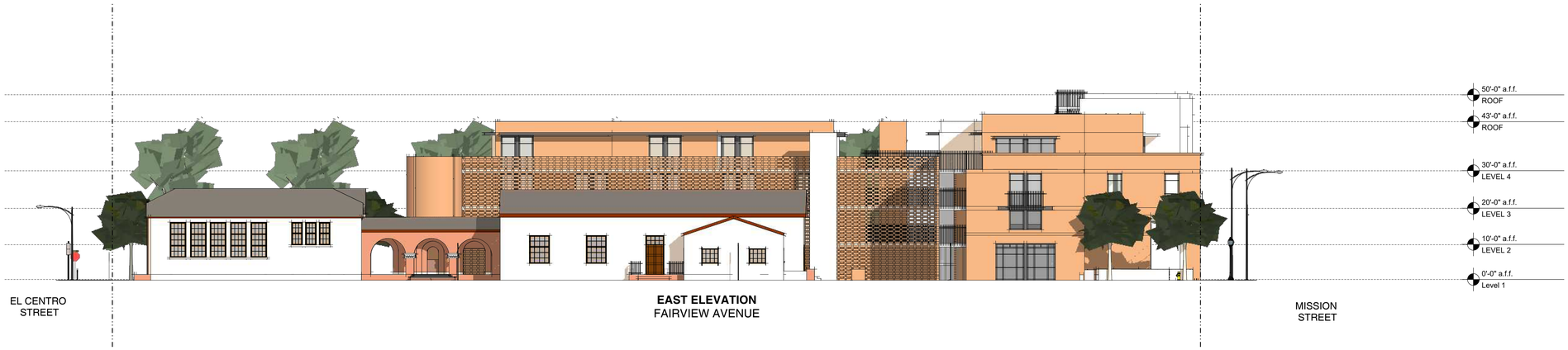
ISSUE DATE
March 1, 2022
PLOT DATE

A
3.00

GANGI
architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM



WEST ELEVATION
DIAMOND AVENUE



EAST ELEVATION
FAIRVIEW AVENUE

REVISION DATE

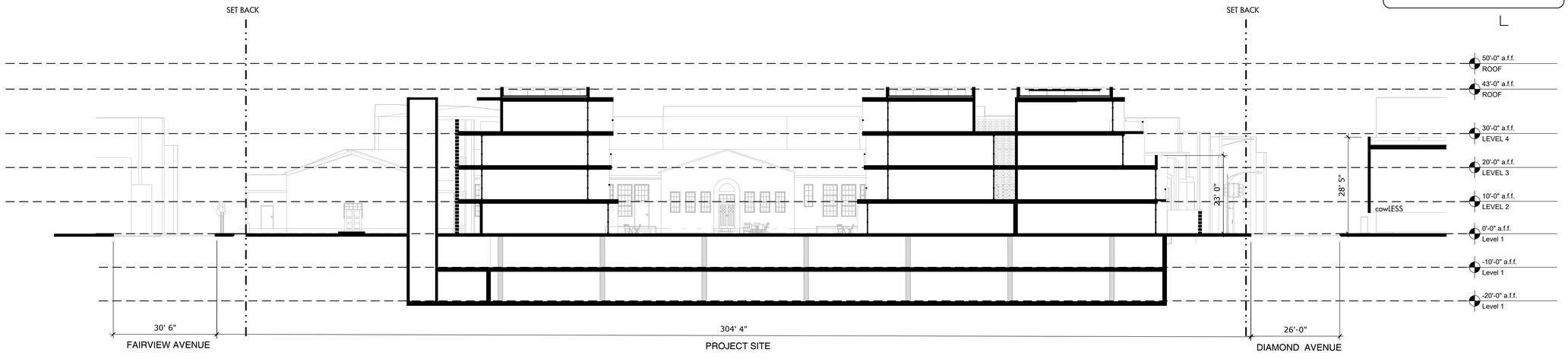
FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

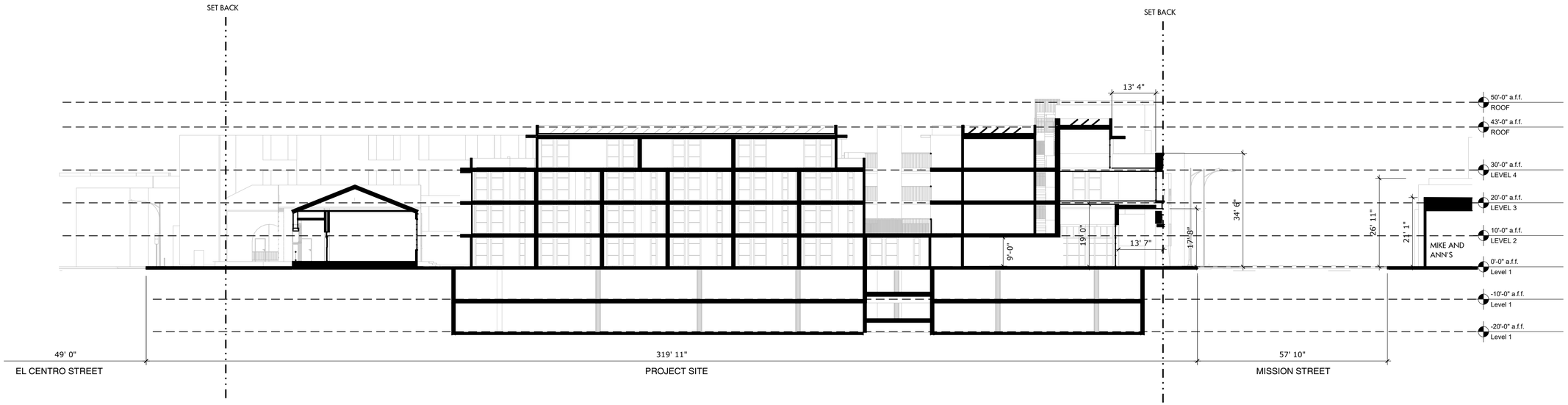
ELEVATIONS

1/16"= 1'-0
SCALE

ISSUE DATE
March 1, 2022
PLOT DATE

A
3.10





GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

SECTIONS

1/16"= 1'-0
SCALE

ISSUE DATE
December 16, 2021
PLOT DATE

A
4.00



AERIAL RENDERING FROM EL CENTRO ST/ DIAMOND AVE



AERIAL RENDERING FROM EL CENTRO ST/ FAIRVIEW AVE.



VIEW 1



VIEW 2



VIEW 3



VIEW 4



VIEW 5



VIEW 6



VIEW 7



VIEW 8

GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

EXTERIOR VIEWS

SCALE
November 1, 2021
ISSUE DATE
March 22, 2022
PLOT DATE

A
5.10



AERIAL RENDERING FROM MISSION ST/ DIAMOND AVE



AERIAL RENDERING FROM EL CENTRO ST/ DIAMOND AVE.


VIEW 1


VIEW 2


VIEW 3


VIEW 4



VIEW 5


VIEW 6


VIEW 7


VIEW 8

GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

EXTERIOR VIEWS

SCALE
November 1, 2021
ISSUE DATE
March 22, 2022
PLOT DATE

A
5.20



MISSION STREET



EL CENTRO STREET

GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

SCALE
November 1, 2021
ISSUE DATE
March 22, 2022
PLOT DATE

A
5.30



MISSION STREET MERIDIAN AVE



MISSION STREET FAIRVIEW AVE



EL CENTRO ST FAIRVIEW AVE



MISSION STREET FROM MIKE & ANNE'S

GANGI
architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

SITE CONTEXT RENDERINGS

SCALE
November 1, 2021
ISSUE DATE
March 22, 2022
PLOT DATE

A
5.40



CALLOUT
EXT-R-001
MANUFACTURER
Superior Awning
PRODUCT
Storefront Awning
FINISH
COLOR
Custom Color to match Legendary Gray DE6369
NOTES



CALLOUT
EXT-R-002
MANUFACTURER
GAF
PRODUCT
EverGuard TPO Membrane
FINISH
COLOR
NOTES

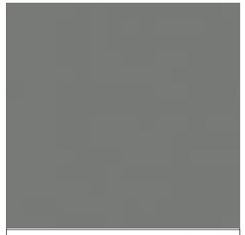
CALLOUT
EXT-W-001
MANUFACTURER
La Habra Stucco
PRODUCT
Steel Troweled Plaster
FINISH
Smooth Texture
COLOR
86 Sandstone Integral Color
NOTES



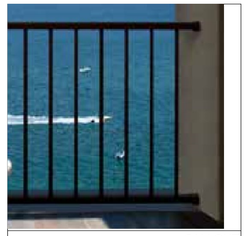
CALLOUT
EXT-W-002
MANUFACTURER
Angelus Block
PRODUCT
Quick-Brik Veneer, 2" x 4" x 16" Size
FINISH
COLOR
Promenade Blend
NOTES



CALLOUT
EXT-W-003
MANUFACTURER
Angelus Block
PRODUCT
Quick-Brik Structural Units, 8" x 4" x 16" Size
FINISH
COLOR
Promenade Blend
NOTES



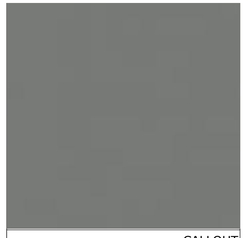
CALLOUT
EXT-W-004
MANUFACTURER
Western States Metal Roofing
PRODUCT
Metal Flat Sheets, 24 Gauge
FINISH
COLOR
Custom Color to match Legendary Gray DE6369
NOTES



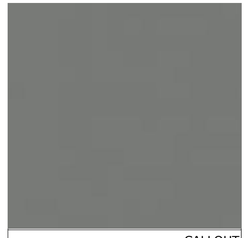
CALLOUT
EXT-MTL-002
MANUFACTURER
Westbury Aluminum Railing
PRODUCT
Tuscany C10
FINISH
COLOR
Satin Black
NOTES



CALLOUT
EXT-MTL-003
MANUFACTURER
Sunbrella
PRODUCT
Sunbrella Mayfield
FINISH
COLOR
Beaufort Classic
NOTES



CALLOUT
EXT-W-004
MANUFACTURER
Western States Metal Roofing
PRODUCT
Metal Flat Sheets, 24 Gauge
FINISH
COLOR
Custom Color to match Legendary Gray DE6369
NOTES



CALLOUT
EXT-P-001
MANUFACTURER
Dunn Edwards
PRODUCT
Legendary Gray DE6369
FINISH
COLOR
NOTES



CALLOUT
EXT-G-001
MANUFACTURER
Awake Windows & Doors
PRODUCT
Residential Glazing
FINISH
COLOR
Custom Color to match Legendary Gray DE6369
NOTES



CALLOUT
EXT-G-002
MANUFACTURER
Awake Windows & Doors
PRODUCT
Commercial Glazing
FINISH
COLOR
Custom Color to match Legendary Gray DE6369
NOTES



CALLOUT
EXT-DB-001
MANUFACTURER
Pli-Dek
PRODUCT
Pli-Dek System
FINISH
COLOR
Dark Grey
NOTES

EXTERIOR MATERIAL NOTES

ROOFING: 1. Metal Awning
2. TPO Roofing

EXT-R

EXTERIOR WALLS:
1. Painted Stucco
2. Brick Veneer
3. Brick Lattice
4. Decorative Sheet Metal

EXT-W

EXTERIOR MATERIALS:
1. See signage plan.
2. Metal Railing
3. Canvas
4. Storefront

EXT-MTL

EXTERIOR PAINT: 1. Legendary Gray

EXT-P

EXTERIOR GLAZING:
1. Residential
2. Commercial

EXT-G

EXTERIOR DOOR:
1. Wooden Gate
2. Metal Gate

EXT - D

DECK BALCONY: 1. Elastomeric Decking

EXT - DB

GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

EXTERIOR FINISHES

SCALE

ISSUE DATE
December 16, 2021
PLOT DATE

A 6.00



EL CENTRO STREET



MISSION STREET

EXTERIOR MATERIAL NOTES

ROOFING: EXT-R	1.	Metal Awning TPO Roofing	**EXTERIOR WALLS:** EXT-W	1. 2. 3. 4.	Painted Stucco Brick Veneer Brick Lattice Decorative Sheet Metal	**EXTERIOR MATERIALS:** EXT-MTL	1. 2. 3. 4.	See signage plan. Metal Railing Canvas Storefront	**EXTERIOR PAINT:** EXT-P	1.	Legendary Gray	***EXTERIOR GLAZING:*** EXT-G	1. 2.	Residential Commercial	**EXTERIOR DOOR:** EXT - D **DECK BALCONY:** EXT - DB	1. 2. 1.	Wooden Gate Metal Gate Elastomeric Decking

GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

REVISION DATE

FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

SCALE

ISSUE DATE
December 16, 2021
PLOT DATE

A
6.10



EL CENTRO STREET



MISSION STREET

EXTERIOR MATERIAL NOTES

ROOFING:	1.	Metal Awning	**EXTERIOR WALLS:**	1.	Painted Stucco	**EXTERIOR MATERIALS:**	1.	See signage plan.	**EXTERIOR PAINT:**	1.	Legendary Gray
	2.	TPO Roofing		2.	Brick Veneer		2.	Metal Railing			
EXT-R				3.	Brick Lattice		3.	Canvas			
			EXT-W	4.	Decorative Sheet Metal	EXT-MTL	4.	Storefront	EXT-P		

EXTERIOR GLAZING:	1.	Residential	**EXTERIOR DOOR:**	1.	Wooden Gate
	2.	Commercial		2.	Metal Gate
EXT-G			EXT - D		
			DECK BALCONY:	1.	Elastomeric Decking
			EXT - DB		

GANGI architects

229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

PROJECT OWNER:
FSM SOPAS LLC
5862 W. THIRD ST.
LOS ANGELES, CA 90036
T: 310-279-9105
E: BRIAN@BRDCPAS.COM
CONTACT: BRIAN DROR

ARCHITECT:
GANGI ARCHITECTS
229 E. PALM AVE.
BURBANK, CA 91502
T. 818-845-3170
E. ARCHITECTS@GANGIARCHITECTS.COM
CONTACT: MARK GANGI, FAIA, LEED AP

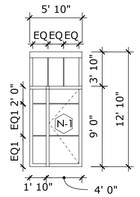
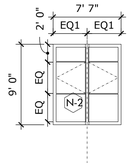
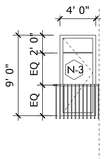
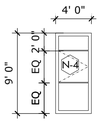
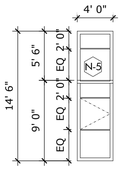
REVISION DATE

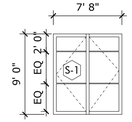
FAIRVIEW COURT
1020 EL CENTRO ST
SOUTH PASADENA, CA 91030
APN: 5315-008-900

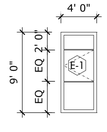
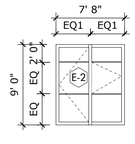
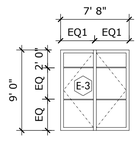
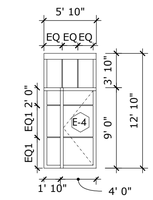
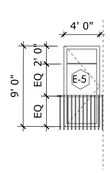
SCALE

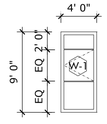
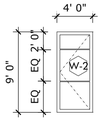
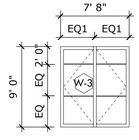
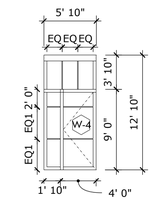
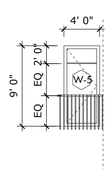
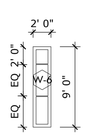
ISSUE DATE
December 16, 2021
PLOT DATE

A 6.20

ID	N-1	N-2	N-3	N-4	N-5
NORTH ELEVATIONS - EXTERIOR ELEVATIONS					
QUANTITY	18	12	10	25	1
ROUGH OPENING	6'-0" X 12'-11"	7'-9" X 9'-1"	4'-2" X 9'-1"	4'-2" X 9'-1"	4'-0" X 14'-7"
NOTES	FIXED, TEMERED, MULLED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED
L1 COMMERICAL: ARCADIA ALUMINUM STOREFRONT DOUBLE GLAZED LOW-E WINDOWS AND DOORS, TEMPERED ARE NOTED; RESIDENTIAL UNTS L1+L2 L3+L4 LEVEL WINDOWS: JELDWEN ALUMINUM WINDOWS, AND DOORS, DOUBLE GLAZED, LOW-E, TEMPERED ARE NOTED, WITH NAIL FIN					

ID	S-1
SOUTH ELEVATIONS - EXTERIOR ELEVATIONS	
QUANTITY	08
ROUGH OPENING	7'-10" X 9'-1"
NOTES	FIXED, TEMERED, MULLED
L1 COMMERICAL: ARCADIA ALUMINUM STOREFRONT DOUBLE GLAZED LOW-E WINDOWS AND DOORS, TEMPERED ARE NOTED; RESIDENTIAL UNTS L1+L2 L3+L4 LEVEL WINDOWS: JELDWEN ALUMINUM WINDOWS, AND DOORS, DOUBLE GLAZED, LOW-E, TEMPERED ARE NOTED, WITH NAIL FIN	

ID	E-1	E-2	E-3	E-4	E-5
SOUTH ELEVATIONS - EXTERIOR ELEVATIONS					
QUANTITY	08	13	2	2	2
ROUGH OPENING	4'-2" X 9'-1"	7'-10" X 9'-1"	7'-10" X 9'-1"	6'-0" X 12'-11"	4'-2" X 9'-1"
NOTES	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED, TEMPERED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED
L1 COMMERICAL: ARCADIA ALUMINUM STOREFRONT DOUBLE GLAZED LOW-E WINDOWS AND DOORS, TEMPERED ARE NOTED; RESIDENTIAL UNTS L1+L2 L3+L4 LEVEL WINDOWS: JELDWEN ALUMINUM WINDOWS, AND DOORS, DOUBLE GLAZED, LOW-E, TEMPERED ARE NOTED, WITH NAIL FIN					

ID	W-1	W-2	W-3	W-4	W-5	W-6
SOUTH ELEVATIONS - EXTERIOR ELEVATIONS						
QUANTITY	20	20	2	2	2	10
ROUGH OPENING	4'-2" X 9'-1"	4'-2" X 9'-1"	7'-10" X 9'-1"	6'-0" X 12'-11"	4'-2" X 9'-1"	2'-0" X 9'-1"
NOTES	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED, TEMPERED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED	FIXED, CASEMENT, MULLED
L1 COMMERICAL: ARCADIA ALUMINUM STOREFRONT DOUBLE GLAZED LOW-E WINDOWS AND DOORS, TEMPERED ARE NOTED; RESIDENTIAL UNTS L1+L2 L3+L4 LEVEL WINDOWS: JELDWEN ALUMINUM WINDOWS, AND DOORS, DOUBLE GLAZED, LOW-E, TEMPERED ARE NOTED, WITH NAIL FIN						

GANGI architects
229 EAST PALM AVENUE, BURBANK
CALIFORNIA 91502
T: 818.845.3170 F: 818.247.7259
ARCHITECTS@GANGIARCHITECTS.COM

REVISION DATE

1020 EL CENTRO ST
SOUTH PASADENA, CA
91030
APN: 5315-008-900

DOOR AND WINDOW SCHEDULE

SCALE

ISSUE DATE
November 23, 2021
PLOT DATE

A
8.10

Appendix B

Transportation Study

Kimley»Horn

TRANSPORTATION STUDY FOR THE FAIRVIEW COURT PROJECT

SOUTH PASADENA, CALIFORNIA

DECEMBER 2021
REVISED APRIL 2022

PREPARED FOR

FSM SOPAS, LLC

PREPARED BY

Gibson
transportation consulting, inc.

TRANSPORTATION STUDY
FOR THE
FAIRVIEW COURT PROJECT

SOUTH PASADENA, CALIFORNIA

December 2021
Revised April 2022

Prepared for:

FSM SOPAS, LLC

Prepared by:

GIBSON TRANSPORTATION CONSULTING, INC.
555 West 5th Street, Suite 3375
Los Angeles, California 90013
(213) 683-0088

Ref: J1938

Table of Contents

1. Introduction 1
   - Project Description 1
   - Project Location 1
   - Study Scope 2
   - Organization of Report 3

2. Project Context 6
   - Study Area 6
   - Existing Transportation Conditions 7
   - Future Cumulative Transportation Conditions 12

3. Project Traffic 30
   - Project Description 30
   - Project Trip Generation 30
   - Project Trip Distribution 31
   - Project Trip Assignment 32

4. CEQA Transportation Impact Analysis 38
   - Methodology 38
   - Project Screening Analysis 39

5. Local Traffic Assessment 42
   - Site Access Overview 42
   - Analysis Conditions 43
   - Methodology 44
   - Local Impact Criteria and Thresholds 44
   - Local Traffic Impact Analysis 45
   - Driveway Analysis 48
   - Conclusion 49

6. Parking 56
   - Parking Supply 56
   - Automobile Parking Code Requirements 56
   - Bicycle Parking Code Requirements 57

7. Summary of Conclusions 60

References

Appendix A: Memorandum of Understanding (MOU)
Appendix B: Traffic Volume Data
Appendix C: Highway Capacity Manual (HCM) Analysis Worksheets
Appendix D: Signal Warrant Analysis Worksheets

List of Figures

NO.

1	Project Site Plan	4
2	Project Site Location	5
3	Study Area & Analyzed Intersections	17
4	Existing Intersection Lane Configurations	18
5	Existing Intersection Mobility Facilities	19
6	General Plan Street Classifications	20
7	Existing Transportation Facilities	21
8	Existing Transit Service	22
9	Existing Conditions (Year 2021) Peak Hour Traffic Volumes	23
10	Locations of Related Projects	24
11	Related Project-Only Peak Hour Traffic Volumes	25
12	Future without Project Conditions (Year 2024) Peak Hour Traffic Volumes	26
13	Future Transportation Facilities	27
14A	Project Trip Distribution - Residential	33
14B	Project Trip Distribution - Commercial	34
15	Existing Trip Distribution - Office	35
16	Net New Project-Only Peak Hour Traffic Volumes	36
17	Existing with Project Conditions (Year 2021) Peak Hour Traffic Volumes	50
18	Future with Project Conditions (Year 2024) Peak Hour Traffic Volumes	51

List of Tables

NO.

1	Study Intersections	28
2	Related Projects	29
3	Trip Generation	37
4	CEQA Transportation Impact Analysis Screening Analysis	41
5	Intersection Level of Service Definitions	52
6	Existing with Project Conditions (Year 2021) Intersection Levels of Service Analysis	53
7	Future with Project Conditions (Year 2024) Intersection Levels of Service Analysis	54
8	Future with Project Conditions (Year 2024) Intersection Queues	55
9	Automobile Parking Code Requirements	58
10	Bicycle Parking Code Requirements	59

Chapter 1
Introduction

This study presents the transportation analysis for the proposed mixed-use development project (Project) located at 1020 El Centro Street (Project Site) in the City of South Pasadena, California (City). The methodology and base assumptions used in the analysis were established in accordance with the City's guidelines.

PROJECT DESCRIPTION

The Project includes the construction of up to 108 multi-family housing units, including 22 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium located along the southern and eastern boundaries of the Project Site as part of its proposed commercial space. The total commercial space would include approximately 22,032 square feet (sf) of floor area. The Project would provide up to 251 automobile parking spaces, including 108 residential spaces, 66 commercial spaces, and up to 77 additional spaces for public use. Access would be provided via one driveway at the approximate location of the existing driveway on Fairview Avenue. Pedestrian and bicycle access to the Project Site would be provided via entrances along all street frontages around the Project Site perimeter. The existing surface parking lot would be removed to accommodate the development of the Project. The Project is anticipated to be completed and operational by Year 2024.

The conceptual Project site plan is shown in Figure 1.

PROJECT LOCATION

As shown in Figure 2, the Project Site is bounded by Mission Street to the north, Fairview Avenue to the east, El Centro Street to the south, and Diamond Avenue to the west. The approximately 1.90-acre Project Site is located within the City's *Mission Street Specific Plan* (April 1996) area and consists of Assessor Parcel Number 5351-008-900. Most nearby uses include local-serving commercial and residential, as well as the South Pasadena Public Library. The Project Site is also located approximately 0.12 miles, or 635 feet, east of the Los Angeles County Metropolitan Transportation Authority (Metro) L Line (formerly Gold Line) South Pasadena Station and approximately 0.28 miles south of the Arroyo Seco Parkway (SR 110). The Project Site is primarily served by Fairview Avenue from both Mission Street and El Centro Street, with a single driveway located on Fairview Avenue.

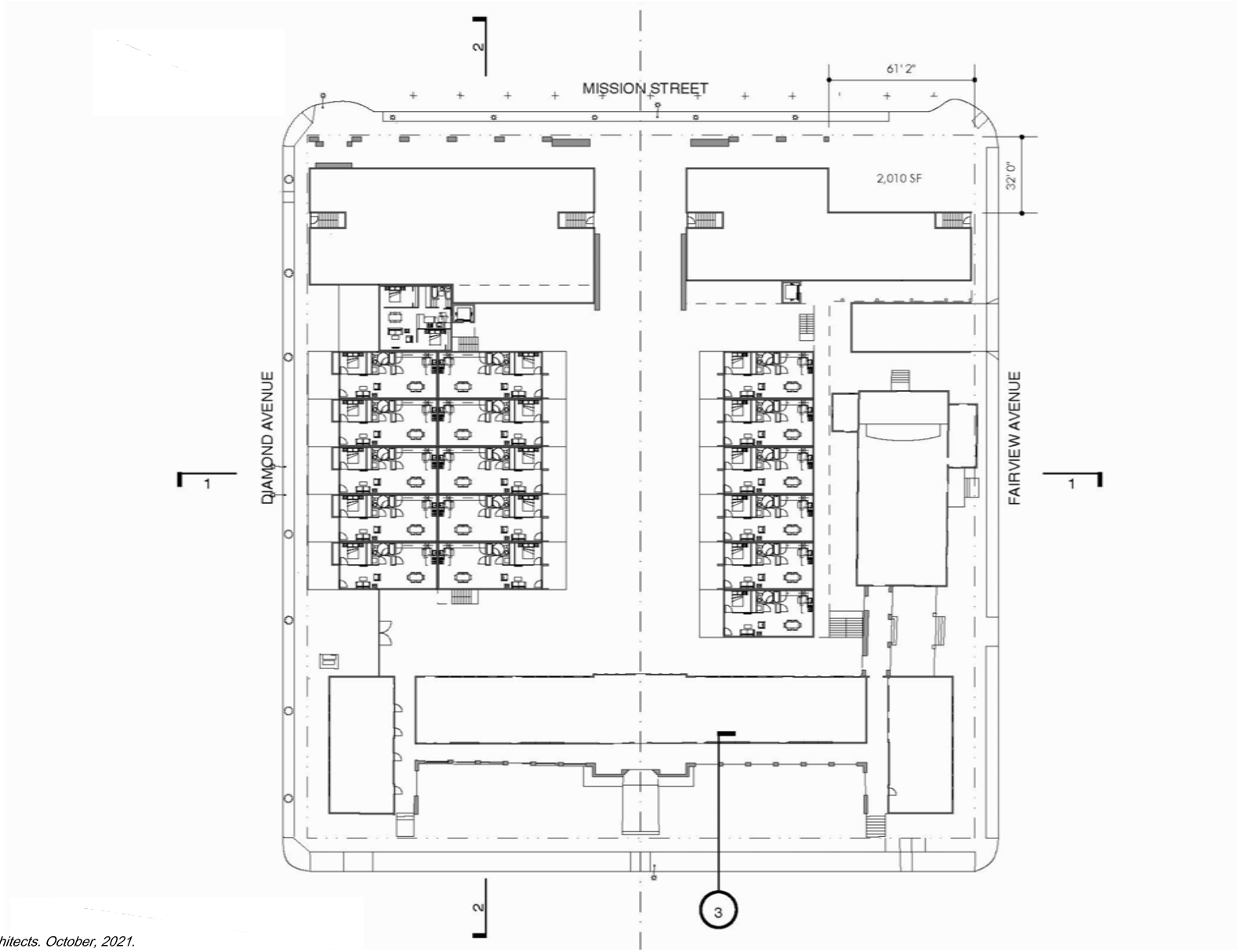
STUDY SCOPE

The scope of analysis for this study was developed in consultation with City staff and is consistent with *Transportation Impact Analysis Methodology Guidelines* (City of South Pasadena, May 6, 2020) (TIA Guidelines) and in compliance with the California Environmental Quality Act (CEQA) Guidelines (California Code of Regulations, Title 14, Section 15000 and following). The base assumptions and technical methodologies (i.e., trip generation, study locations, analysis methodology, etc.) were identified as part of the study approach and were outlined in a Memorandum of Understanding (MOU), which is provided in Appendix A.

Per the TIA Guidelines, this study includes two categories of transportation analyses. The first category relates to potential transportation impacts under CEQA. The TIA Guidelines identify specific screening criteria to determine whether a detailed CEQA transportation analysis is required for a particular project. The screening criteria for land development projects were applied to the Project and are detailed in Chapter 4. The second category includes a local traffic assessment separate from CEQA and includes non-CEQA transportation components relating to access and congestion as they may be affected by the operation of a project. The TIA Guidelines identify project-related local impact thresholds for signalized and unsignalized intersections to determine if adverse operational impacts would occur. The local traffic impact evaluation for the Project is detailed in Chapter 5.

ORGANIZATION OF REPORT

This report is divided into seven chapters, including this introduction. Chapter 2 describes the Project context, including the existing and future circulation system, traffic volumes, and traffic conditions in the Project area. Chapter 3 presents the Project traffic including the Project trip generation, trip distribution, and trip assignment. Chapter 4 presents the CEQA transportation impact analysis, and Chapter 5 details the local traffic assessment. Chapter 6 reviews the proposed parking plan and the City's parking requirement for the Project. Chapter 7 summarizes the analyses and study conclusions. The appendices contain supporting documentation and additional details of the technical analyses.



Srouce: GANGI Architects. October, 2021.

PROJECT SITE PLAN

FIGURE 1



PROJECT SITE LOCATION

FIGURE 2

Chapter 2
Project Context

A data collection effort was undertaken to develop a description of existing and future conditions in the Project area. The Existing Conditions analysis includes an assessment of the existing transportation infrastructure and conditions within the Project area, including freeway and street systems, intersection traffic volumes and operating conditions, and transit service, as well as pedestrian and bicycle circulation. An inventory of lane configurations, signal phasing, parking restrictions, etc., for the analyzed intersections was also collected. In addition, this Chapter contains a discussion detailing the assumptions used to develop the Future without Project Conditions in Year 2024, which correspond to the anticipated occupancy year of the Project.

STUDY AREA

The Study Area includes a geographic area generally bounded by Mission Street to the north, Fremont Avenue to the east, El Centro Street to the South, and Meridian Avenue to the west. A Study Area generally comprises those intersections with the greatest potential to experience substantial local traffic impacts due to the Project, including intersections that are:

1. Signalized and/or unsignalized intersections that are adjacent to the Project Site and are expected to be integral to the Project's site access and circulation plan
2. Signalized intersections in proximity to the Project Site where 10 or more Project trips would be added

As listed in Table 1 and shown in Figure 3, a total of five study intersections, including three signalized and two unsignalized intersections, were identified for detailed analysis. The existing lane configurations at each study intersection are provided in Figure 4.

Other intersections were considered but were not selected for analysis as they did not meet the criteria outlined above, since they (1) are located a great distance from the Project Site, (2) have

relatively lower traffic volumes on the side street and minor approach to the intersection, and/or (3) accommodate nominal, if any, Project-related traffic.

EXISTING TRANSPORTATION CONDITIONS

Existing Street System

The existing street system in the Study Area consists of a regional roadway system including Arterial Streets, Collector Streets, and Local Residential Streets that provide regional, sub-regional, or local access and circulation to the Project Site. These transportation facilities generally provide two to four travel lanes and generally allow parking on either side of the street. Typically, the speed limits in the Study Area range between 25 and 35 miles per hour (mph).

Street classifications are detailed in the Circulation & Accessibility Element of *City of South Pasadena General Plan* (City of South Pasadena, Amended February 2001) (General Plan) and are defined as follows:

- Arterial Streets are generally the commercial arteries that carry the majority of traffic within the City. Arterials serve two primary functions: to move vehicles within the City and to serve adjacent commercial uses. Driveways and other curb cuts along arterials are generally limited to minimize disruption to traffic flow. Arterials are divided into two categories:
    - Major Arterials provide either four or six travel lanes for through traffic, plus left-turn lanes at key intersections.
    - Minor Arterials provide four travel lanes for through traffic and may or may not have separate left-turn lanes.
- Collector Streets are intended to carry traffic between residential neighborhoods and the Arterial Street network. They generally provide two or four travel lanes for through traffic and have a mixture of residential and commercial uses along the roadway. Higher density residential land uses or side yards of single-family homes may be located adjacent to Collector Streets. Higher traffic volumes may be acceptable on certain Collector Streets such as those fronting commercial uses.
- Local Residential Streets are designed to serve adjacent residential land uses only. They provide access to residential driveways and often provide parking for the neighborhood. These roadways are not intended to serve through traffic.

Additionally, freeways are high-volume, high-speed roadways that provide inter-regional access and do not provide local access to adjacent land uses. Owned and operated by the California Department of Transportation (Caltrans), their primary function is to move vehicles between cities and provide eight to 12 travel lanes. Primary regional access to the Project Site is provided by SR 110, which is located 0.28 miles north of the Project Site, outside of the Study Area. The Arterial Street providing regional and sub-regional access to the Project Site is Mission Street.

A comprehensive review of existing transportation infrastructure and conditions was conducted within the Project Site vicinity. The existing mobility facilities at the study intersections are illustrated in Figure 5. The following is a brief description of the major roadways in the Study Area and their street classifications in the General Plan, as illustrated in Figure 6.

Roadways

- Mission Street – Mission Street is a classified Minor Arterial Street. It is a four-lane undivided roadway that travels in the east-west direction and is located along the northern boundary of the Project Site. On-street parking is typically permitted on both sides of the street within the Study Area, with a two-hour limit from 7:00 AM to 7:00 PM. The posted speed limit is 30 mph.

- El Centro Street – El Centro Street is a classified Collector Street. It is a two-lane undivided roadway that travels in the east-west direction and is located along the southern boundary of the Project Site. On-street parking is typically permitted on both sides of the street within the Study Area, with a two-hour limit from 7:00 AM to 7:00 PM. The posted speed limit is 25 mph.

- Meridian Avenue – Meridian Avenue is a classified Collector Street. It is generally a two-lane undivided roadway that travels in the north-south direction and is located approximately 300 feet west of the Project Site. On-street parking is typically permitted on both sides of the street within the Study Area, with a two-hour limit from 7:00 AM to 7:00 PM. The posted speed limit is 25 mph.

- Diamond Avenue – Diamond Avenue is a classified Local Residential Street. It is a two-lane undivided roadway that travels in the north-south direction and is located along the western boundary of the Project Site. Adjacent to the Project Site, Diamond Avenue serves two-way traffic. From Oxley Street north to El Centro Street, Diamond Avenue is a one-way northbound road. This configuration allows for a one-way, clockwise loop from Fairview Avenue around the South Pasadena Public Library. The roadway terminates at Mission Street. On-street parking is typically permitted on both sides of the street within the Study Area, with a two-hour limit from 7:00 AM to 7:00 PM. The posted speed limit is 25 mph.

- Fairview Avenue – Fairview Avenue is a classified Local Residential Street. It is a two-lane undivided roadway that travels in the north-south direction and is located along the eastern boundary of the Project Site. Adjacent to the Project Site, Fairview Avenue serves two-way traffic. From El Centro Street south to Oxley Street, Fairview Avenue is a one-way southbound road. This configuration allows for a one-way, clockwise loop toward Diamond Avenue around the South Pasadena Public Library. The roadway terminates at Monterey Road. On-street parking is typically permitted on both sides of the street within the Study Area, with a two-hour limit from 7:00 AM to 7:00 PM. The posted speed limit is 25 mph. Vehicular access to the Project Site is proposed along Fairview Avenue.

- Fremont Avenue – Fremont Avenue is a classified Minor Arterial Street. It is a two-lane undivided roadway that travels in the north-south direction with left-turn lanes at most intersections and is located 600 feet east of the Project Site. North of Hope Street, Fremont Avenue transitions to a two-lane undivided road. Unrestricted on-street parking is generally permitted on both sides of the street within the Study Area. The posted speed limit is 30 mph.

Existing Pedestrian Facilities

An inventory was collected of existing transportation facilities serving pedestrians, bicyclists, and transit riders within the Project Site vicinity and is illustrated in Figure 7. As shown, pedestrian facilities, such as curb ramps, high-visibility crosswalk striping, and Americans with Disabilities Act (ADA) accessible curb ramps, are also provided in the immediate vicinity. The walkability of existing facilities is based on the availability of pedestrian routes necessary to accomplish daily tasks without the use of an automobile. These attributes are quantified by WalkScore.com and assigned a score out of 100 points. Located near mass transit, and with the various commercial businesses and institutional facilities adjacent to residential neighborhoods, the walkability of the area is 94 points[1]. This compares to the average walk score of 67 points for the City.

The sidewalks that serve as routes to the Project Site provide proper connectivity and adequate widths for a comfortable and safe pedestrian environment. Along the Project frontages, 14-foot wide sidewalks/parkways are provided on Mission Street and El Centro Street and 10-foot wide sidewalks/parkways are provided on Diamond Avenue and Fairview Avenue. The sidewalks are

[1] Walk Score (www.walkscore.com) rates the Project Site with a score of 94 of 100 possible points (scores accessed on October 7, 2021, for 1020 El Centro Street). Walk Score calculates the walkability of specific addresses by taking into account the ease of living in the neighborhood with a reduced reliance on automobile travel.

linked to pedestrian crossings at the adjacent study intersections. The intersections located around the Project Site perimeter provide continental crosswalks, or high visibility crosswalks characterized by wide “zebra” striping patterns, at the following approaches:

- Diamond Avenue & Mission Street – south and west legs of the intersection
- Fairview Avenue & Mission Street – all legs of the intersection except for the east leg
- Diamond Avenue & El Centro Street – all legs of the intersection except for the west leg
- Fairview Avenue & El Centro Street – all legs of the intersection

Existing Bicycle System

As shown in Figure 7, Class III bicycle routes are provided along Mission Street and El Centro Street within the Study Area. Class III bicycle routes are those where motorists and cyclists share the roadway and there is no separated striping for bicycle travel. Bicycle routes are preferably placed on Collector and lower volume Arterial Streets. Bicycle routes with shared lane markings, or “sharrows”, remind bicyclists to ride farther from parked cars to prevent collisions, increase awareness of motorists that bicycles may be in the travel lane, and show bicyclists the correct direction of travel. Additionally, bike boxes are provided at the northbound and southbound approaches of Fremont Avenue & Mission Street (Intersection #3). Bike boxes are designated areas located in front of vehicles at signalized intersections, which allow bicyclists to position themselves in a visible location for making a right or left turn and reduce vehicular-bicycle conflict through visual enhancement.

Existing Transit System

Figure 8 illustrates the existing transit service and stop locations within the Study Area, including bus lines and fixed-rail service operated by Metro. As shown, Metro Local 258 travels east-west on Mission Street, with stops at Meridian Avenue and Fremont Avenue. This is a local line that travels from Highland Park/South Pasadena to Paramount, with average headways of approximately 45 minutes during the weekday. The Metro L Line provides a transit stop at the South Pasadena Station, located approximately 635 feet west of the Project Site. The Metro L Line provides service between Azusa and East Los Angeles, connecting to the Metro B Line and

D Line, Metrolink, Amtrak and other public transit at Union Station. The Metro L Line provides peak hour service with 10-minute headways and off-peak service with 12-minute headways.

Existing Traffic Volumes

Traffic count data collection is generally conducted during times with typical travel demand patterns (i.e., when local schools are in session, businesses in full operation, weeks without holidays, etc.) Due to atypical traffic conditions as a result of the State and County's current response to COVID-19, older traffic count data at the study locations with application of an adjustment factor were utilized for this study. Intersection turning movement counts for typical weekday morning (7:00 AM to 9:00 AM) and afternoon (4:00 PM to 6:00 PM) commuter peak periods were available at two of the five study intersections.[2] These counts were collected in December 2016 and were acquired from a local traffic study document[3]. A growth factor of 1% per year was applied to these intersections to estimate Year 2021 (pre-COVID-19 pandemic) traffic volumes.

To estimate the traffic volumes at the three remaining study intersections, traffic counts representing pandemic-condition traffic volumes were collected in October 2021. Historical traffic volume data, including the December 2016 traffic counts collected at the two study intersections and additional January 2020 traffic counts collected at the nearby intersection of Meridian Avenue & El Centro Street[4] were totaled for each peak hour and a comparison was made between the October 2021 traffic counts and the historical counts adjusted to simulate Year 2021 (pre-COVID-19 pandemic) traffic volumes. This difference represents the pre-pandemic traffic adjustment factor. The traffic volume comparison is provided in Appendix B. As detailed therein, the comparison conservatively indicated that the projected traffic volumes based on historical counts were, on average, 23% higher in the morning peak hour and 17% higher in the afternoon peak hour than the October 2021 counts, which, as expected, were lower due to State and County

[2] At the intersection of Meridian Avenue & Mission Street (Intersection #1), signage for turn restrictions during the afternoon peak hour are posted on the eastbound and westbound approaches. This study evaluates all traffic volumes at the turning movements to reflect the observed traffic patterns at this location.

[3] *Traffic Study for the Mission View Mixed-Use Development Project* (Gibson Transportation Consulting, Inc., January 2017).

[4] Traffic volume count data at this location were acquired from *Seven Patios Mixed-Use Residential/Commercial Retail Project Traffic Impact Analysis* (Ganddini Group Inc., February 26, 2020).

restrictions. Based on this comparison, the October 2021 traffic counts for the three remaining intersections were utilized and increased by 23% in the morning peak hour and 17% in the afternoon peak hour to simulate Year 2021 traffic volumes under typical traffic conditions (pre-COVID-19 pandemic).

The existing intersection peak hour traffic volumes, representing Existing Conditions in Year 2021, are illustrated in Figure 9. Traffic volume data is provided in Appendix B.

FUTURE CUMULATIVE TRANSPORTATION CONDITIONS

The forecast of Future without Project Conditions was prepared in accordance with procedures outlined in the CEQA Guidelines. Specifically, two options are provided for developing the cumulative traffic volume forecast:

> "(A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the [lead] agency, or
>
> "(B) A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan. Such projections may be supplemented with additional information such as a regional modeling program. Any such planning document shall be referenced and made available to the public at a location specified by the lead agency."

As described in detail below, this analysis of future conditions includes both increases to traffic generated by ongoing or entitled projects near or within the Study Area (option "A" above, the "Related Projects") and from regional growth and development outside the Study Area (option "B" above, or ambient growth). The ambient growth factor likely captures some traffic increases resulting from the Related Projects. Therefore, due to inherent double-counting of vehicles, the traffic analysis provides a conservative estimate of Future without Project traffic volumes.

Ambient Traffic Growth

Existing traffic levels have historically been projected to increase as a result of regional growth and development; however, the COVID-19 pandemic may influence future traffic growth patterns. Nevertheless, to provide a conservative estimate of future background traffic conditions, this analysis used an ambient growth factor of 1% per year to adjust the existing traffic volumes to simulate the effects of regional growth and development by Year 2024. The total adjustment applied over the three-year period corresponding to the buildout year of the Project was 3%. This growth factor accounts for increases in traffic due to potential projects plus others not yet proposed and those located outside the Study Area.

Related Projects

In accordance with the CEQA Guidelines, this study also considered the effects of the Project in relation to the Related Projects. The Related Projects are detailed in Table 2 and their general locations shown in Figure 10. The development of estimated traffic volumes added to the Study Area as a result of Related Projects involves the use of a three-step process: trip generation, trip distribution, and trip assignment.

Trip Generation. Trip generation estimates for the Related Projects were estimated using previous study findings. As shown in Table 2, Related Projects trip generation estimates are conservative in that they do not in every case account for either the existing uses to be removed or the likely use of other travel modes (transit, bus, bicycling, walking, carpool, etc.) Further, in many cases, they do not account for the internal capture trips within a multi-use development, nor the interaction of trips between multiple Related Projects within the Study Area, in which one Related Project serves as the origin for a trip destined for another Related Project.

Trip Distribution. The geographic distribution of the traffic generated by the Related Projects is dependent on several factors. These include the type and density of the proposed land uses, the geographic distribution of the population from which the employees/residents and potential patrons of the proposed developments are drawn, and the location of these projects in relation to the surrounding street system. These factors are considered along with logical travel routes through the street system to develop a reasonable pattern of trip distribution. Table 2 identifies

the Related Projects in which existing traffic studies were used to determine the patterns attributable for each project to remain consistent with those results.

Trip Assignment. The trip generation estimates for the Related Projects were assigned to the local street system using the trip distribution pattern described above. Figure 11 shows the peak hour traffic volumes associated with these Related Projects at the study intersections.

Future without Project Traffic Volumes

The Related Project volumes were then added to the existing traffic volumes after adjustment for ambient growth through the projected buildout year of 2024. As discussed above, this is a conservative approach as many of the Related Projects may already be reflected in the ambient growth rate. These volumes represent the Future without Project Conditions (i.e., ambient traffic growth and Related Project traffic added to existing traffic volumes) at the study intersections and are shown in Figure 12.

Future Roadway and Street Improvements

The analysis of Future Conditions considered improvements that were funded and reasonably expected to be implemented prior to the buildout of the Project. Any improvement that would result in changes to the physical configuration at the study intersections would be incorporated into the analysis. Other proposed traffic / trip reduction strategies such as transportation demand management programs for individual buildings and developments were omitted from the Future Conditions analyses. Figure 13 illustrates the locations of proposed transportation facilities improvements, including any future transit, bicycle, and pedestrian facilities within the Study Area. The following projects and plans were evaluated for their potential effects on the future roadway configurations and for consideration in the Future without Project Conditions:

NextGen Bus Plan. Metro's NextGen Bus Plan project would restructure the current Metro bus routes and schedules into a new competitive bus system that would provide fast, frequent, reliable, and accessible service. The plan was approved by Metro in October 2020 and would be implemented with a three-phase roll-out through the end of 2021. As part of the NextGen

Bus Plan, Metro proposes increases in frequency and potential route consolidation on all bus routes within the Study Area. These transit operational improvements would not affect the lane configurations at the study intersections.

Flashing Crosswalk Project. A flashing crosswalk project is proposed as part of the City's upcoming Capital Improvement Projects. The original scope of the project included the installation of in-roadway warning light systems at crosswalks to alert vehicles of oncoming pedestrians. The scope has since been modified, and the City is currently in the design phase to install rectangular rapid flashing beacons (RRFB) at Diamond Avenue and Fairview Avenue on Mission Street within the Study Area, with a completion year of 2023. The pedestrian facilities were assumed under Future Conditions, as illustrated in Figure 13. The addition of the RRFBs would not affect the lane configurations at the study intersections.

Future Bicycle System. *Cycle South Pasadena: Bicycle Master Plan Update* (City of South Pasadena, Leslie Scott Consulting and MJB Consulting, August 17, 2011) details a comprehensive network of proposed bikeways comprised of approximately 22.80 miles of facilities, including a mix of Class I bicycle paths, Class II bicycle lanes, and Class III bicycle routes. Within the Study Area, Mission Street is proposed as a "Green Lane" Class III bicycle facility as part of the Pasadena/Mission Bikeway project. The Green Lane would include painted pavement treatment (five-foot width) within the curb lane and signed as a bike route. The Green Lane designation would provide enhanced visibility to increase safety between bicycles and vehicles on high activity corridors. Additionally, bike boxes are proposed at all approaches at Meridian Avenue & Mission Street (Intersection #1) and Fremont Avenue & Mission Street (Intersection #3).

Class III bicycle routes are also proposed along Meridian Avenue, with bike boxes on all approaches at Meridian Avenue & Mission Street (Intersection #1), as part of the Meridian Bikeway project and along Fremont Avenue, with bike boxes on the northbound and southbound approaches at Fremont Avenue & El Centro Street (Intersection #5), as part of the Fremont Bikeway project. As part of the Diamond Bikeway project, Class III bicycle routes are also proposed along southbound Fairview Avenue between El Centro Street and Oxley Street, westbound Oxley Street between Fairview Avenue and Diamond Avenue, northbound Diamond Avenue between Oxley Street and El Centro Street, and along Diamond Avenue south of Oxley Street.

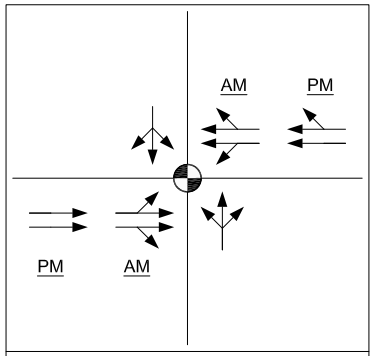
Although there is no schedule for implementation of the proposed bicycle facilities, such improvements would not affect the lane configurations at the study intersections. Figure 13 illustrates the proposed bicycle facilities within the Study Area.



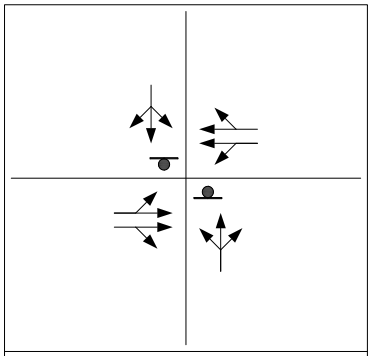
STUDY AREA & ANALYZED INTERSECTIONS

FIGURE 3

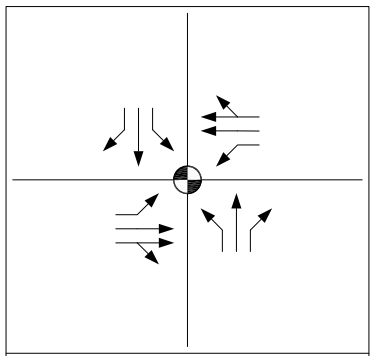




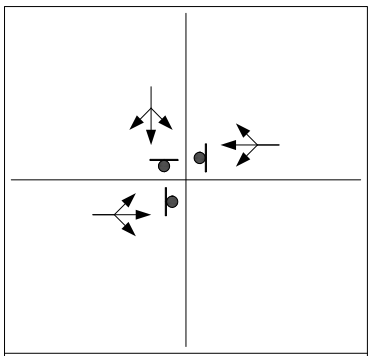
1. Meridian Avenue & Mission Street



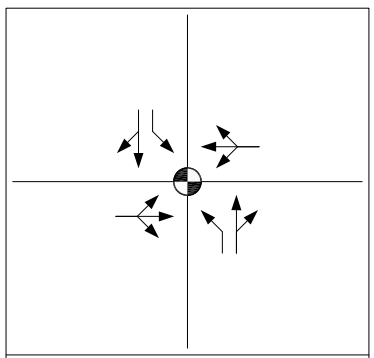
2. Fairview Avenue & Mission Street



3. Fremont Avenue & Mission Street



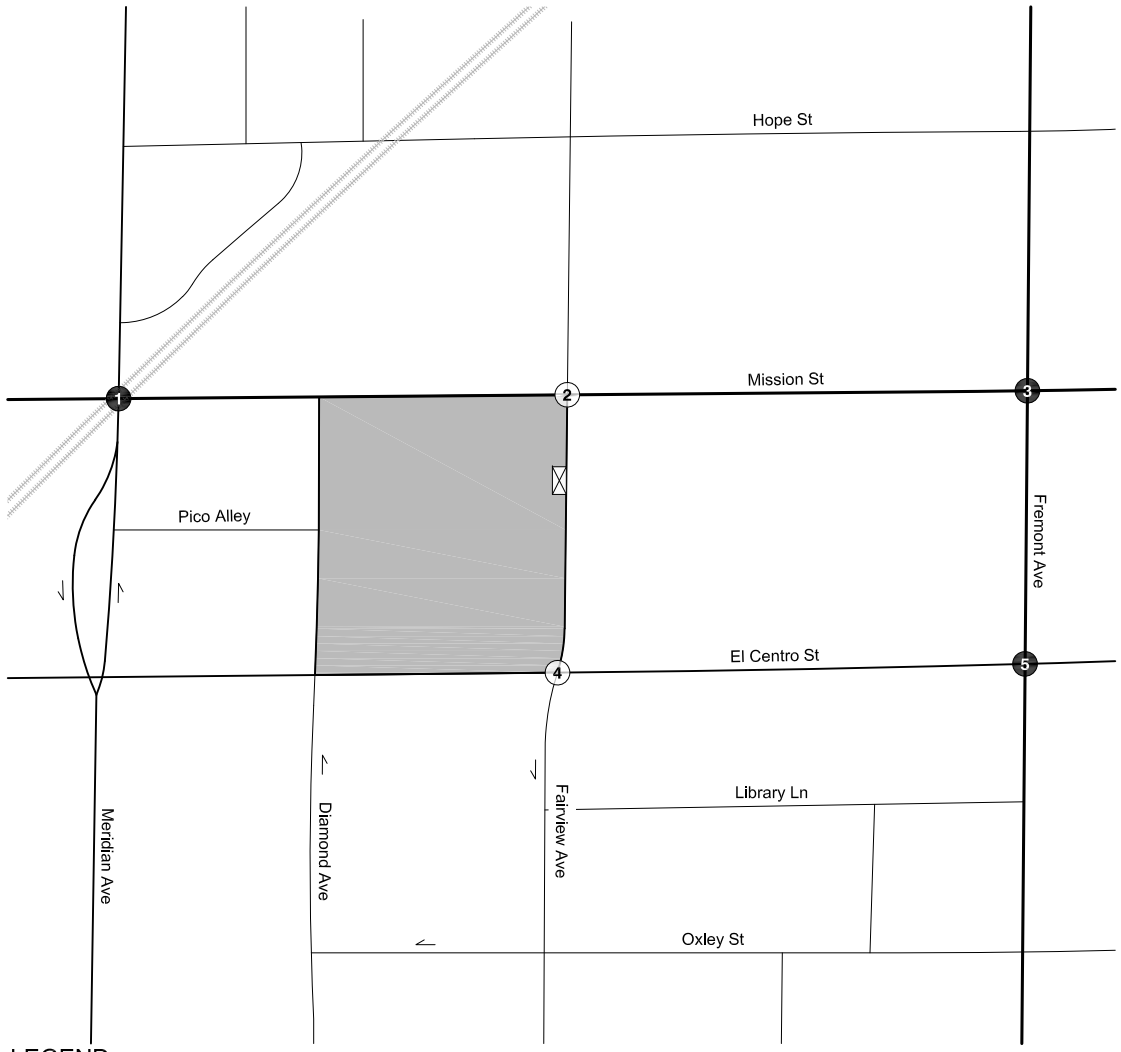
4. Fairview Avenue & El Centro Street

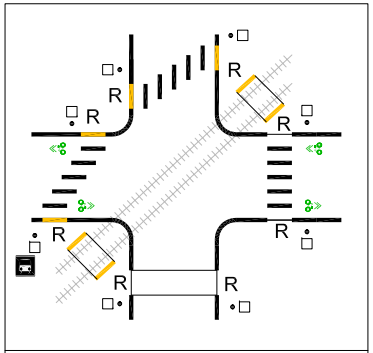


5. Fremont Avenue & El Centro Street

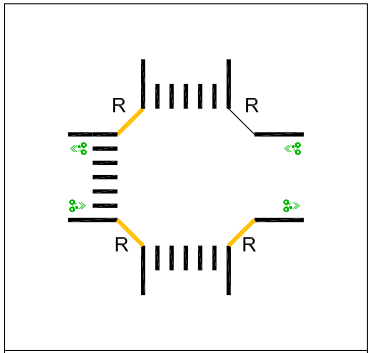
EXISTING INTERSECTION LANE CONFIGURATIONS

FIGURE 4

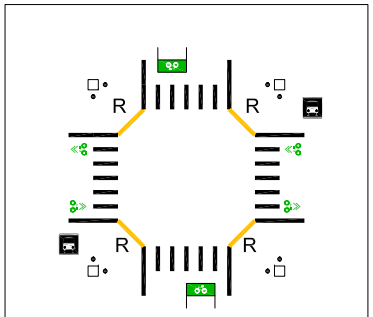




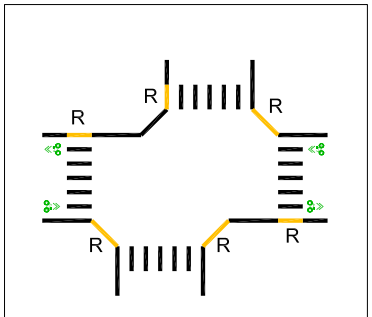
1. Meridian Avenue & Mission Street



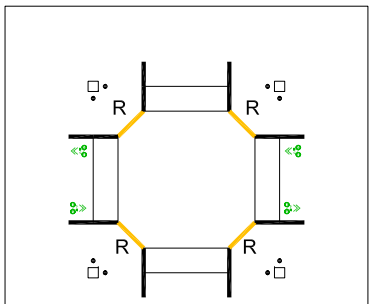
2. Fairview Avenue & Mission Street



3. Fremont Avenue & Mission Street



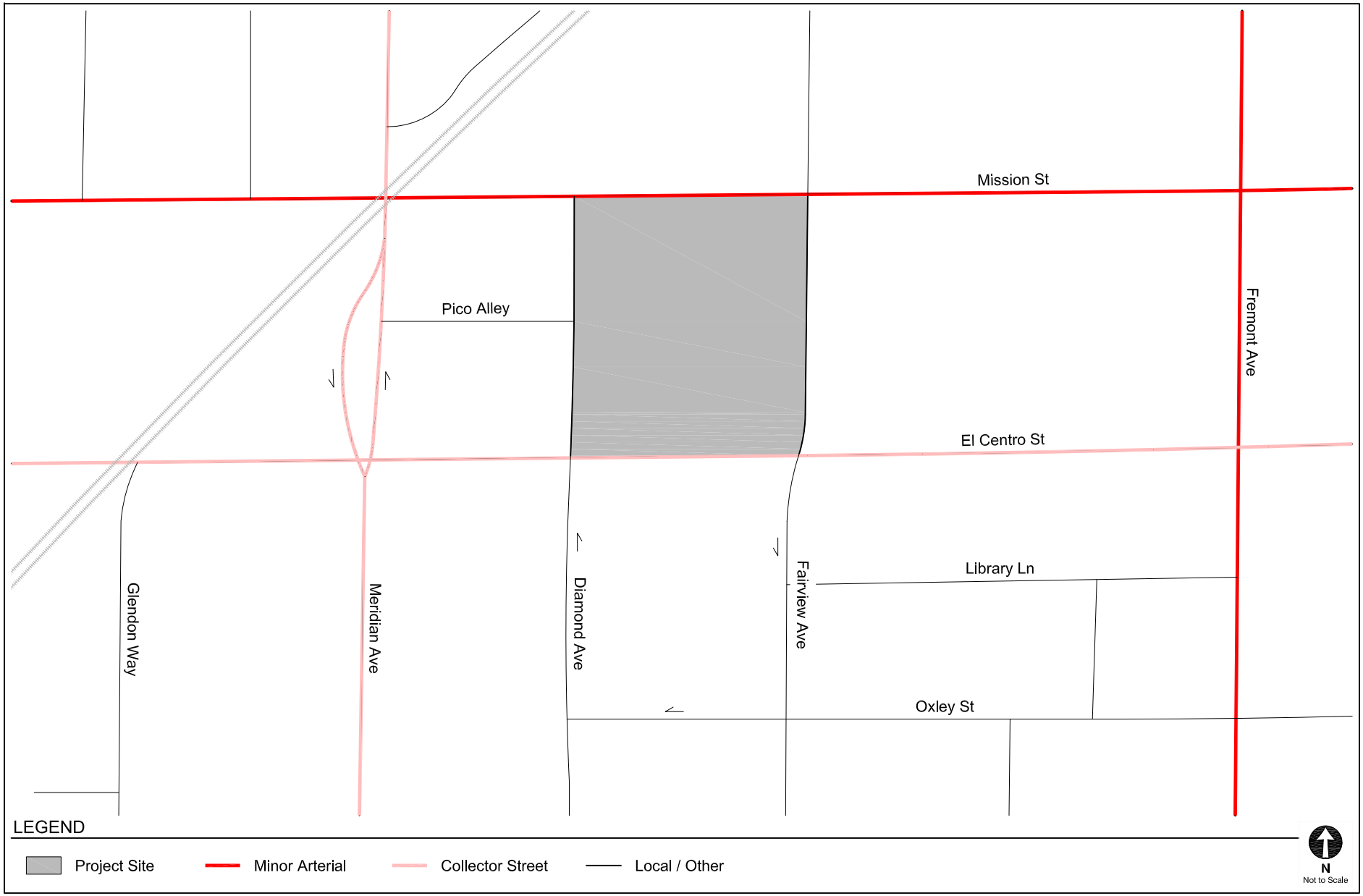
4. Fairview Avenue & El Centro Street



5. Fremont Avenue & El Centro Street

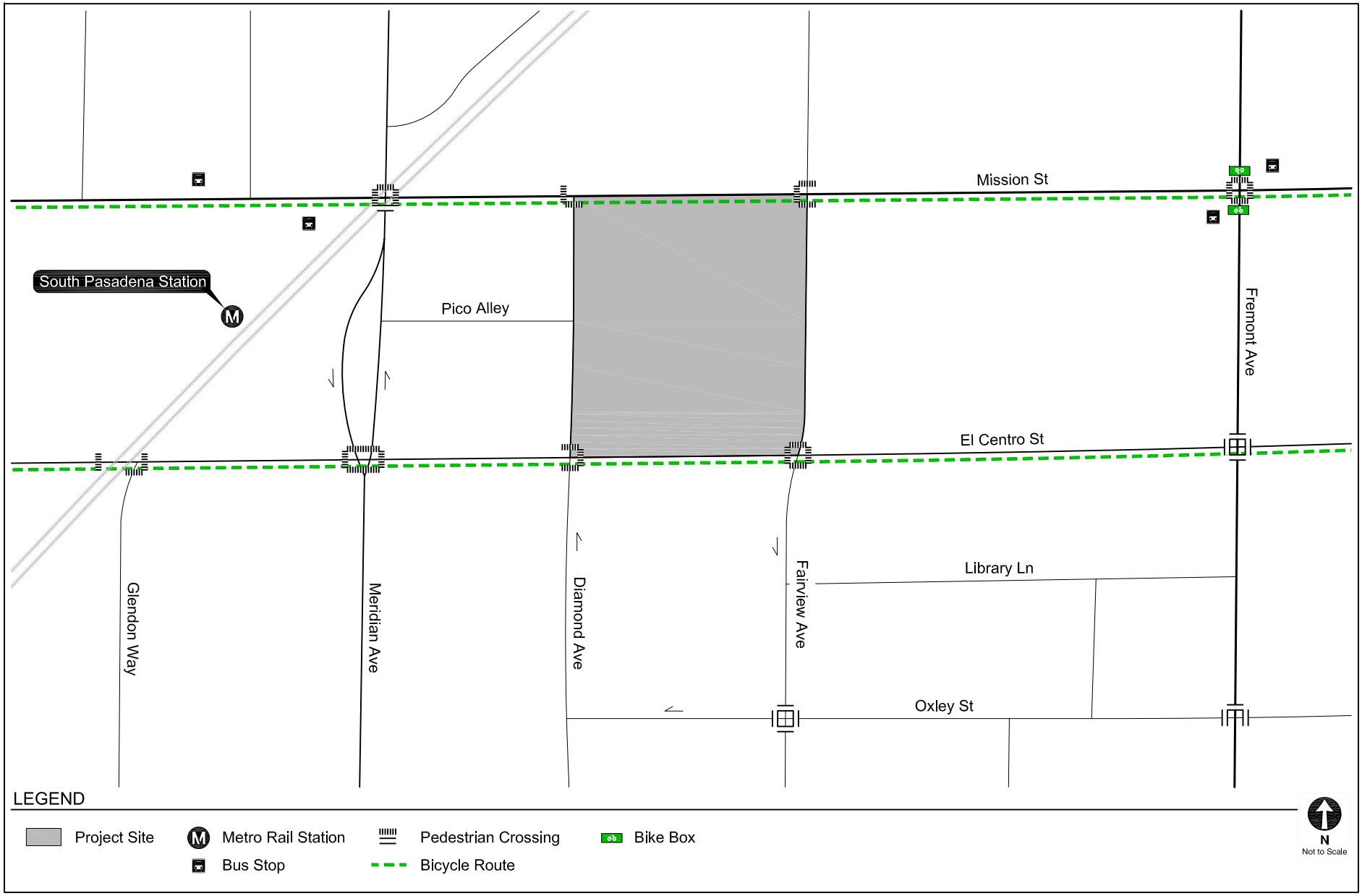
EXISTING INTERSECTION MOBILITY FACILITIES

FIGURE 5



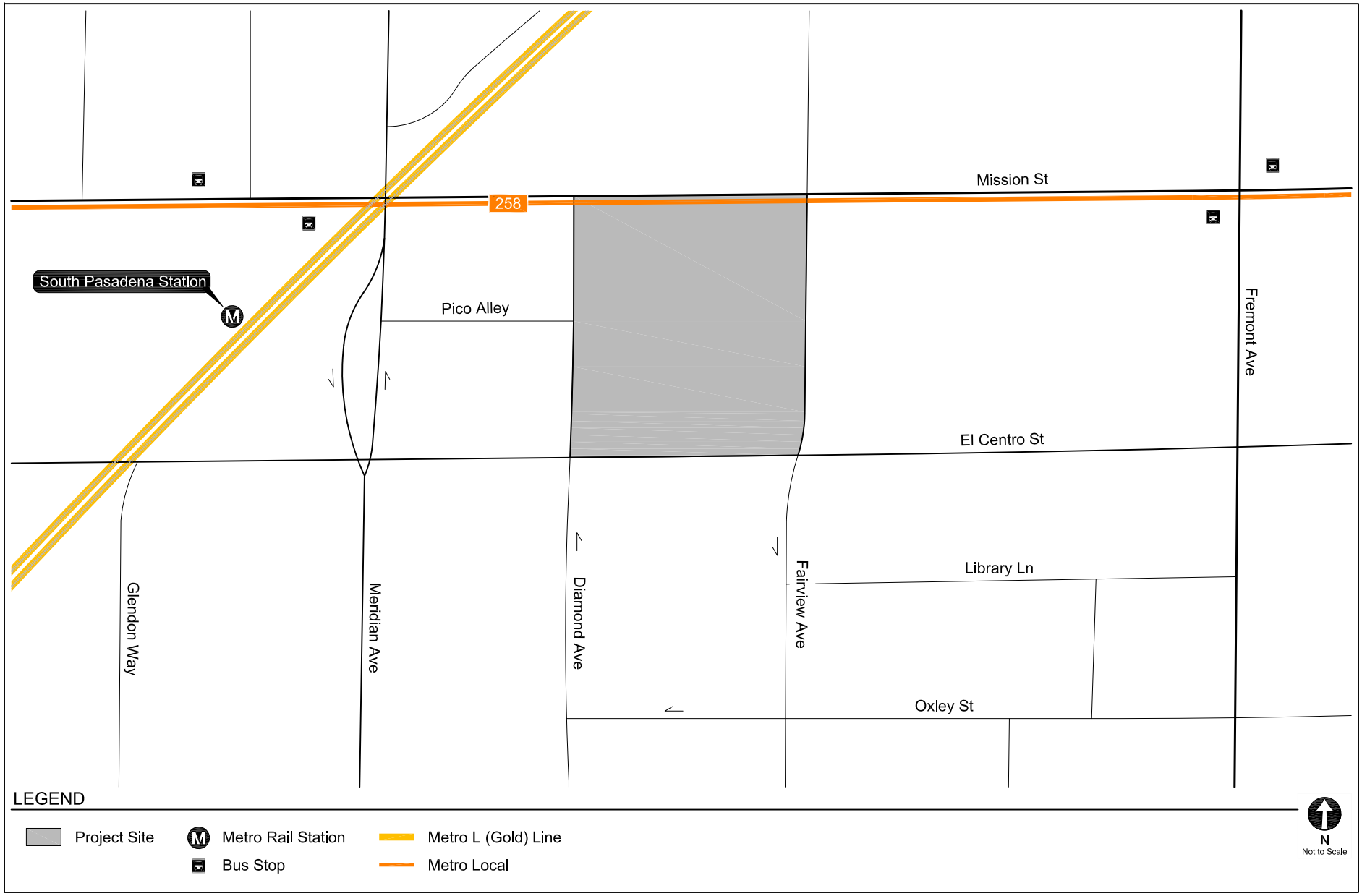
GENERAL PLAN STREET CLASSIFICATIONS

FIGURE 6



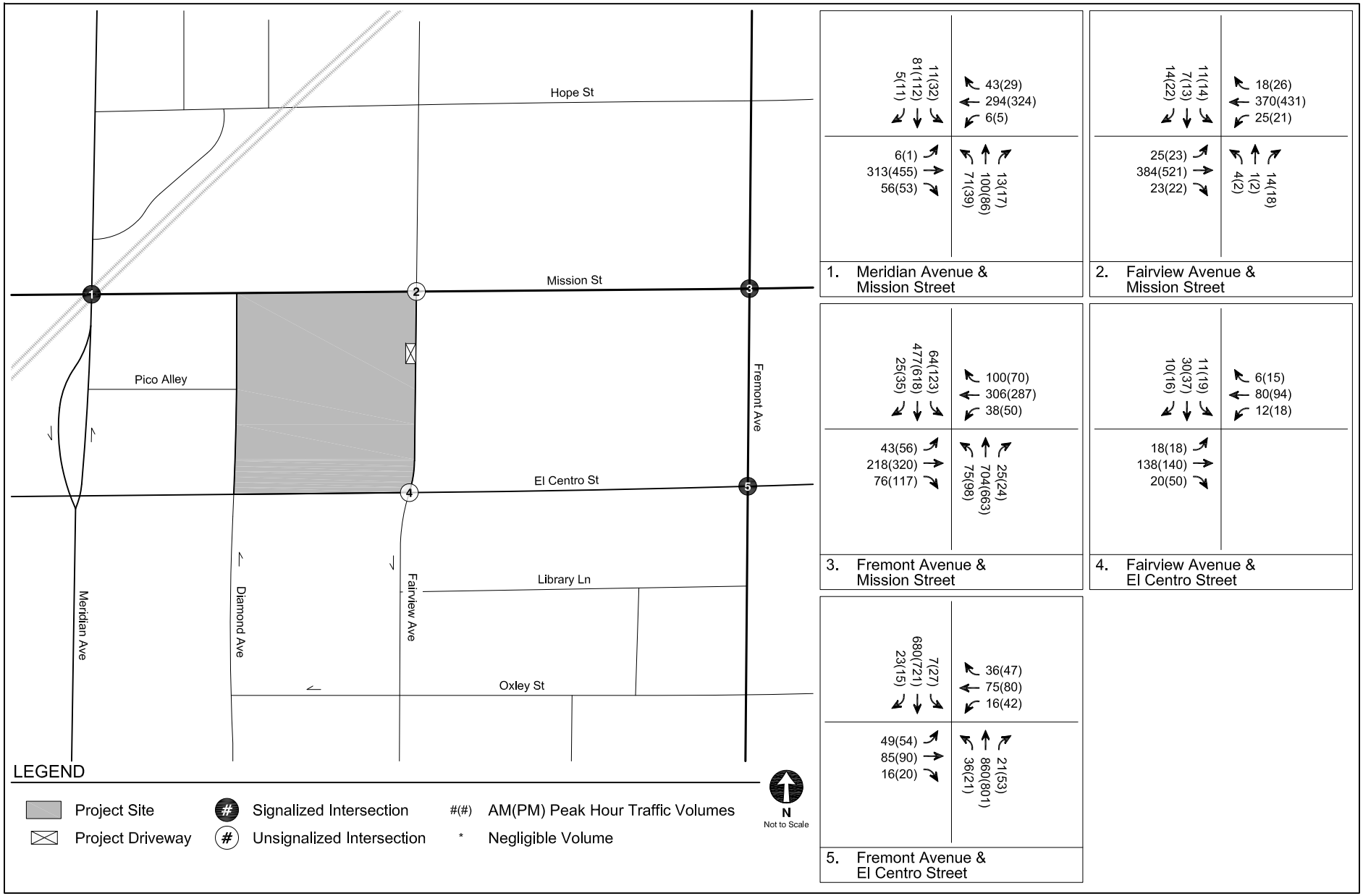
EXISTING TRANSPORTATION FACILITIES

FIGURE 7



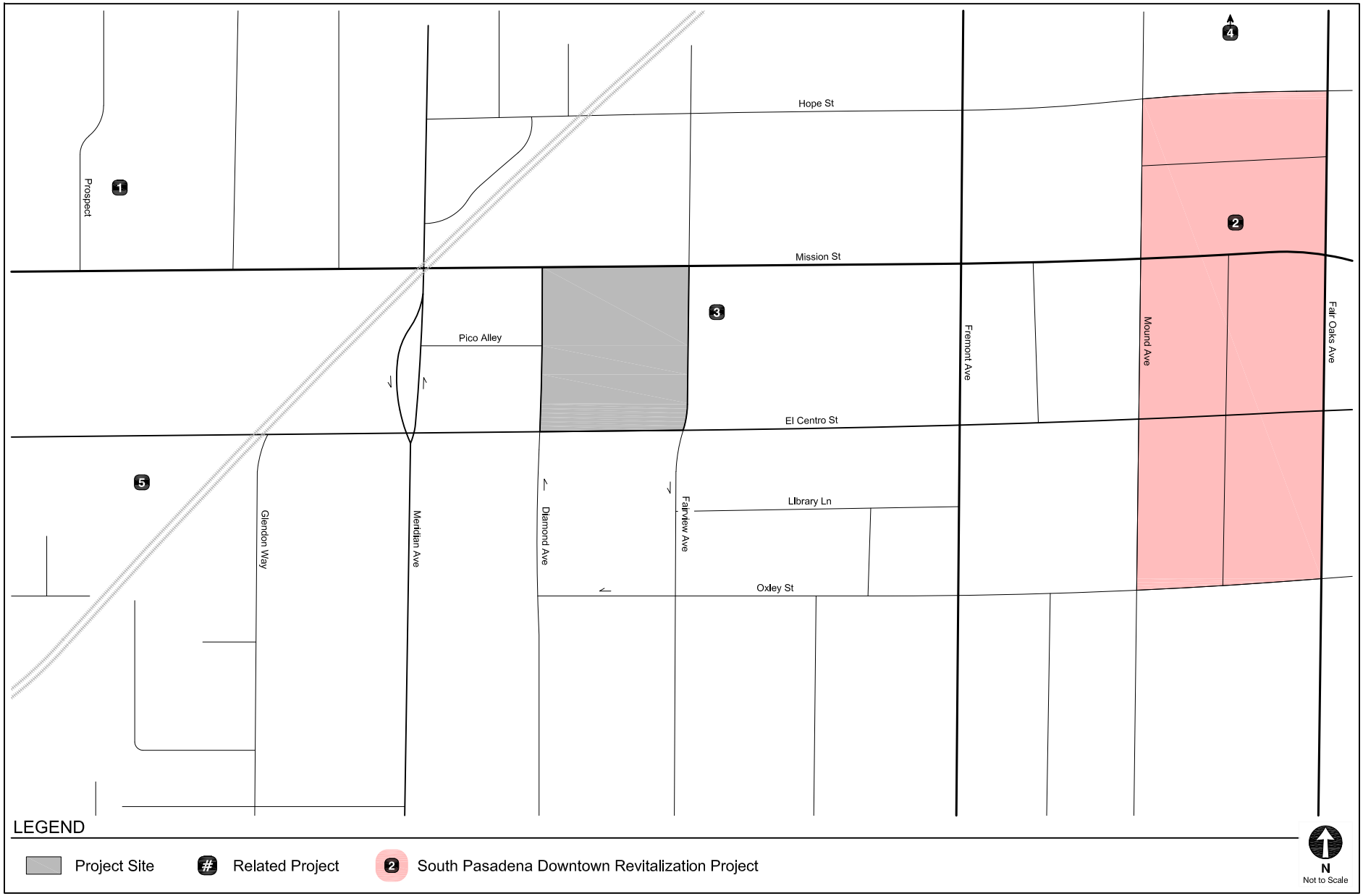
EXISTING TRANSIT SERVICE

FIGURE 8



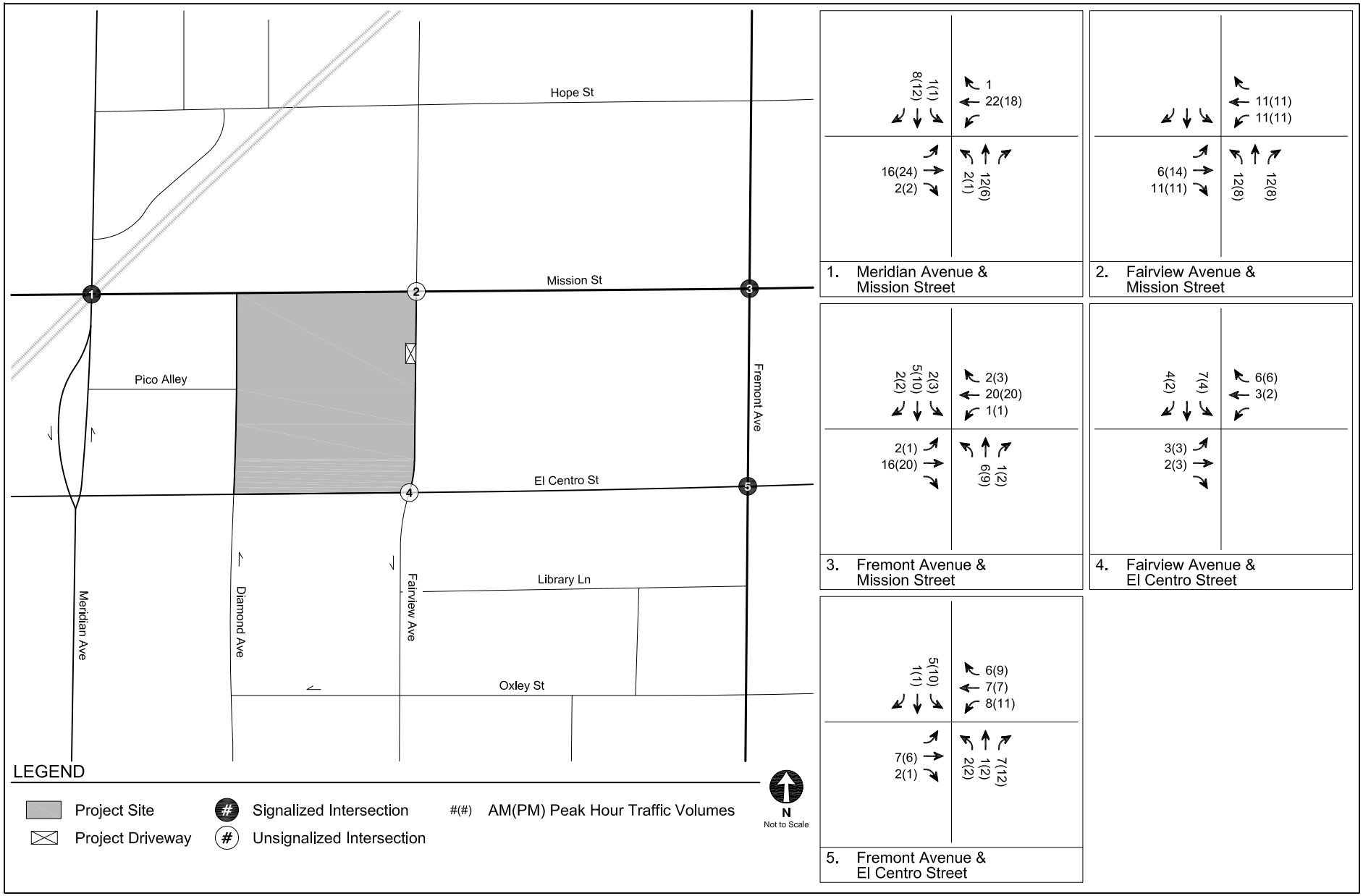
EXISTING CONDITIONS (YEAR 2021)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 9



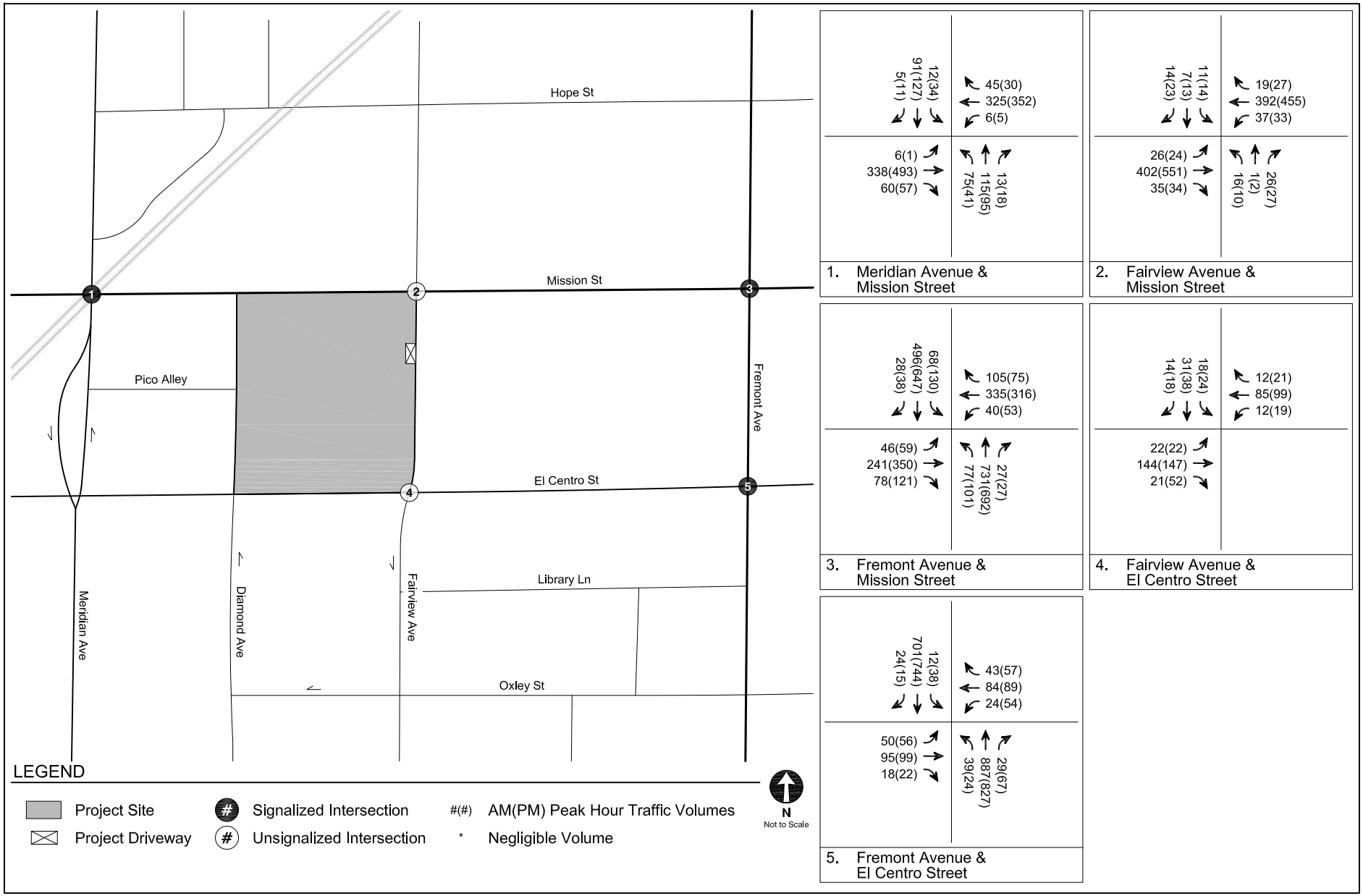
LOCATIONS OF RELATED PROJECTS

FIGURE 10



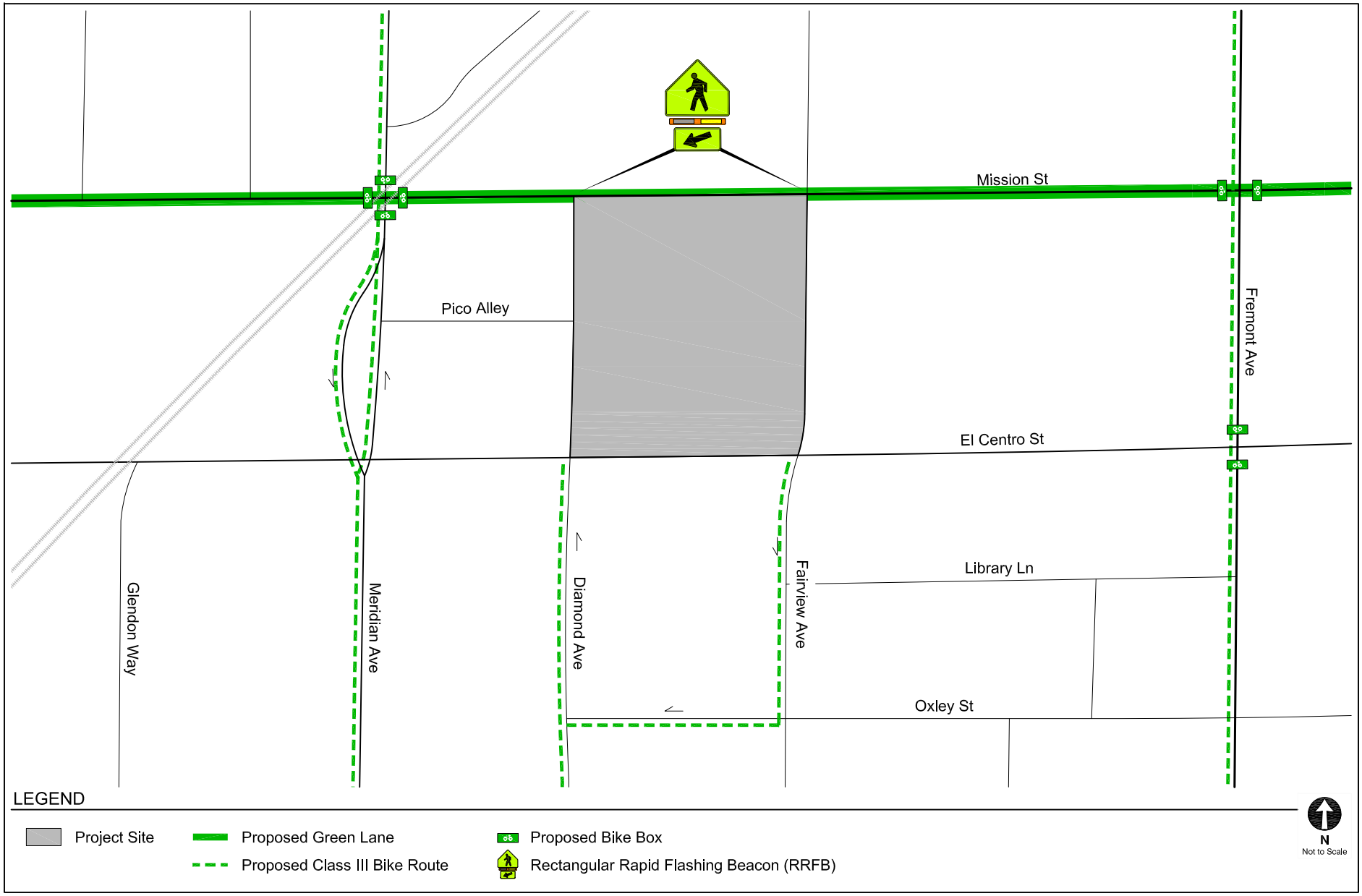
RELATED PROJECT-ONLY
PEAK HOUR TRAFFIC VOLUMES

FIGURE
11



FUTURE WITHOUT PROJECT CONDITIONS (YEAR 2024)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 12



FUTURE TRANSPORTATION FACILITIES

FIGURE 13

TABLE 1
STUDY INTERSECTIONS

No.	North/South Street	East/West Street
1.	Meridian Avenue	Mission Street
2. [a]	Fairview Avenue	Mission Street
3.	Fremont Avenue	Mission Street
4. [b]	Fairview Avenue	El Centro Street
5.	Fremont Avenue	El Centro Street

Notes:
[a] Intersection operates as a two-way stop-controlled intersection.
[b] Intersection operates as an all-way stop-controlled intersection.

TABLE 2
RELATED PROJECTS

No.	Project	Address	Use	Size	Trip Generation						
					Daily	Morning Peak Hour			Afternoon Peak Hour		
						In	Out	Total	In	Out	Total
1. [a][b]	Mission Street	820 Mission Street	Multi-Family	38 du	343	24	3	27	11	22	33
			General Office	3,585 sf							
2. [a]	South Pasadena Downtown Revitalization Project	Downtown South Pasadena	Condominiums	210 du	2,331	44	44	88	78	74	152
			Senior Housing	9,000 sf							
			Bowling Alley	208 du							
			General Office	5,029 sf							
			Specialty Retail	600 du							
			Quality Restaurant	13,872 sf							
			High Turnover Restaurant	172 du							
3. [c]	Mission Bell	1101 Mission Street	Apartments	36 du	504	30	35	65	30	22	52
			Specialty Retail	2,325 sf							
			High Turnover Restaurant	2,142 sf							
			Café	797 sf							
4. [d]	625 Fair Oak Ave Senior Housing Mixed-Use	625 Fair Oak Avenue	Senior Housing	86 du	367	7	14	21	15	10	25
5. [d]	Seven Patios Mixed-Use	845 and 899 El Centro Street 832 Orange Grove Place	Retail	3,050 sf	757	20	29	49	28	14	42
			Restaurant	3,050 sf							
			Multi-Family	57 du							
Total Related Project Trips					**4,302**	**125**	**125**	**250**	**162**	**142**	**304**

Notes:

[a] Source: Table 1 of *Mission Place Mixed-Use Project TIA* (Arch Beach Consulting, December 31, 2015)

[b] Although construction of this related project has been completed, the project was not fully occupied at the time when traffic counts were conducted. Therefore, the related project was considered and listed to provide a more conservative analysis.

[c] Source: *Traffic Study for the Mission View Mixed-Use Development Project* (Gibson Transportation Consulting Inc., January 2017)

[d] Source: Tables 3 and 4 of *Seven Patios Mixed-Use Residential/Commercial Retail Project Traffic Impact Analysis* (Ganddini Group Inc., February 26, 2020)

Chapter 3
Project Traffic

This chapter describes the assumptions and methodology used in developing the traffic volumes associated with the Project within the Study Area.

PROJECT DESCRIPTION

As detailed in Chapter 1, the Project includes the construction of up to 108 multi-family housing units, including 22 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium located along the southern and eastern boundaries of the Project Site as part of its proposed commercial space. The total commercial space would include approximately 22,032 sf of floor area. To provide a conservative trip generation analysis, the commercial space was assumed to include 50% retail and 50% high-turnover restaurant, or 11,016 sf of each use. The existing surface parking lot would be removed to accommodate the development of the Project.

PROJECT TRIP GENERATION

The number of vehicle trips, including daily and morning and afternoon peak hour vehicle trips, expected to be generated by the Project, as well as the existing uses currently occupied on site, was estimated using rates published in *Trip Generation Manual, 10th Edition* (Institute of Transportation Engineers, 2017). These rates are based on surveys of similar land uses at sites around the country and are provided as both daily rates and morning and afternoon peak hour rates. They relate the number of vehicle trips traveling to and from the Project Site to the size of development of each land use.

Trip generation reductions were applied to account for internal capture within a mixed-use development and public transit usage/walking arrivals. The internal capture reductions were developed based on the NCHRP 8-51 Internal Trip Capture Estimation Tool (*National Cooperative Highway Research Program Report 684 – Enhancing Internal Trip Capture Estimation for Mixed-Use Developments*, Transportation Research Board and National Research Council, 2011) and were applied to each land use to account for person trips made between distinct land uses within a mixed-use development (e.g., residents visiting the commercial uses). The results of the mixed-use internal capture worksheets are included as part of the attachment to the MOU, which is provided in Appendix A. The Project is located within approximately 635 feet of a fixed-rail transit station (the Metro L Line South Pasadena Station). As such, a 15% transit/walk-in reduction was applied to account for transit usage and walk-in arrivals from surrounding neighborhoods and adjacent commercial developments.

Although the existing uses on site are not currently occupied, the usage of historical traffic volume data in this Study would inherently include any generated traffic at the time of occupancy. Thus, existing use trip credits were also taken into consideration. A 15% transit/walk-in reduction was also applied to the existing uses.

As shown in Table 3, after accounting for the reductions above, the Project is anticipated to generate 1,401 net new daily trips on a typical weekday, including 111 net new morning peak hour trips (49 inbound, 62 outbound) and 100 net new afternoon peak hour trips (68 inbound, 32 outbound).

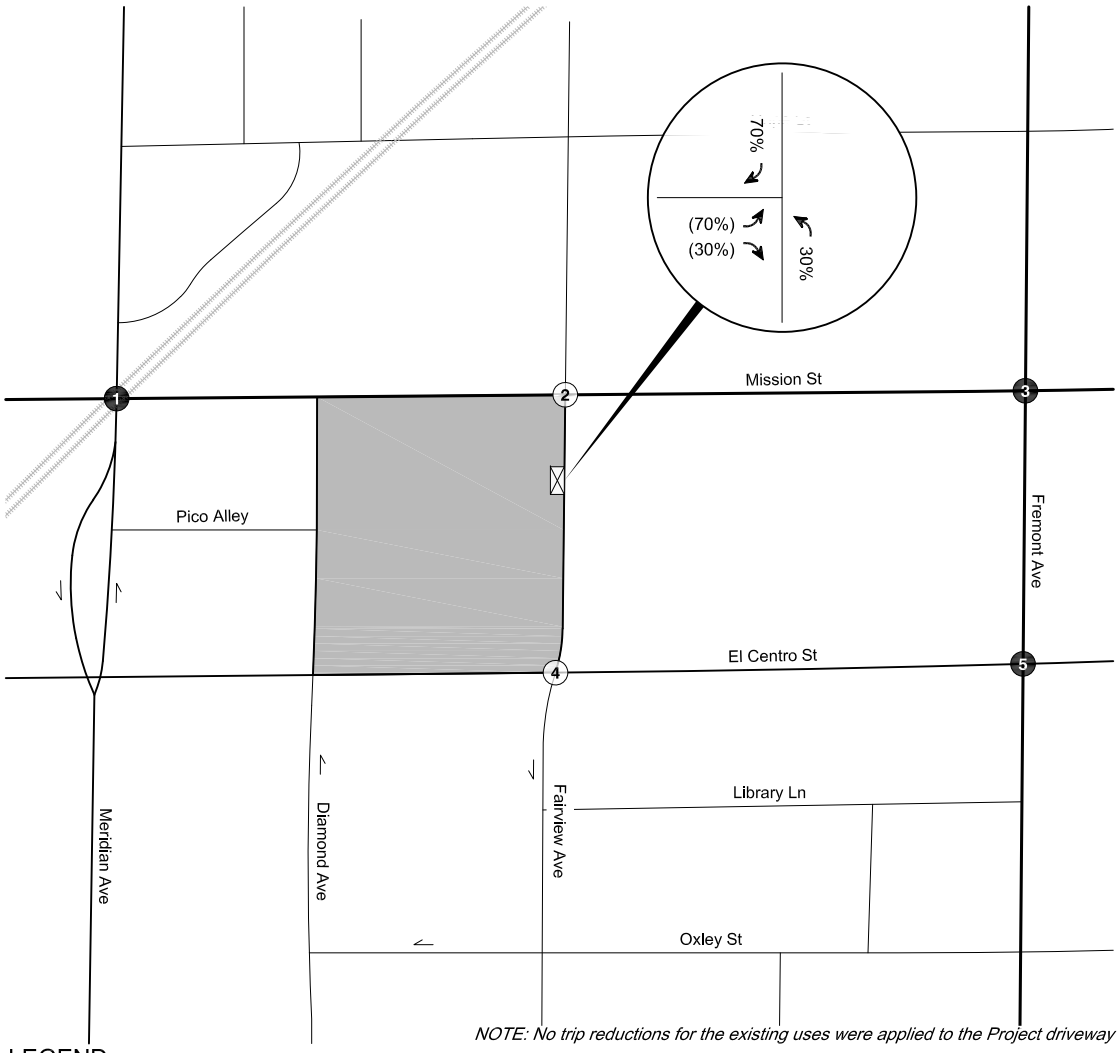
PROJECT TRIP DISTRIBUTION

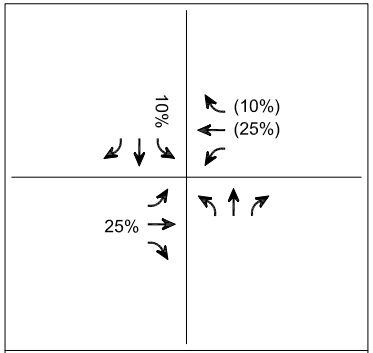
Similar to the trip distribution of traffic for the Related Projects described in Chapter 2, the geographic distribution of trips generated by the Project is primarily dependent on the location of employment, commercial, and residential areas from which residents, employees, and visitors of the Project would be drawn, characteristics of the street system serving the Project Site, the level of accessibility of the routes to and from the Project Site, existing intersection traffic volumes, and the location of the proposed driveway.

Access to the Project Site would be provided on Fairview Avenue. The driveway would provide full access (i.e., right-turn and left-turn ingress and egress movements). Based on these considerations, traffic entering and exiting the Project was assigned to the surrounding street system. Figures 14A and 14B illustrate the trip distribution patterns for the residential and commercial uses of the Project, respectively. In order to appropriately remove traffic from the existing uses, the trip distribution for the existing school administrative office use was also assigned based on the factors detailed above. Trip distribution at the two existing driveways on Fairview Avenue (full access) and Diamond Avenue (outbound access only) were estimated based on vehicular accessibility as no driveway counts were available. Figure 15 illustrates the trip distribution pattern for the existing school administrative office use.

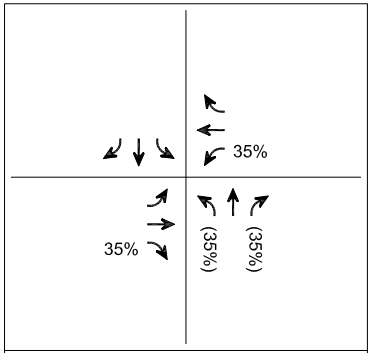
PROJECT TRIP ASSIGNMENT

The Project and existing office use trip generation estimates summarized in Table 3, and the trip distribution patterns shown in Figures 14A, 14B, and 15 were used to assign the Project-generated traffic and existing office use traffic, respectively. Figure 16 illustrates the net new Project-only traffic volumes during typical weekday morning and afternoon peak hours, accounting for the removal of the existing school administrative office use.

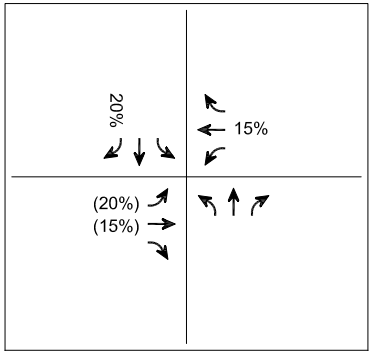




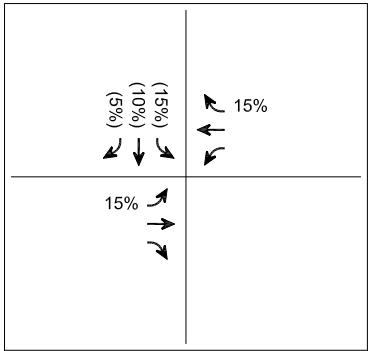
1. Meridian Avenue & Mission Street



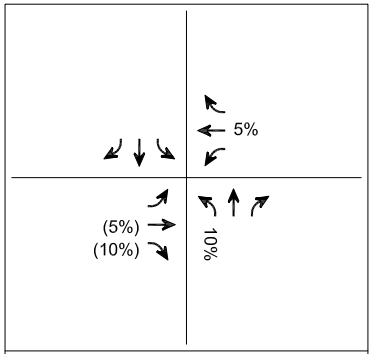
2. Fairview Avenue & Mission Street



3. Fremont Avenue & Mission Street



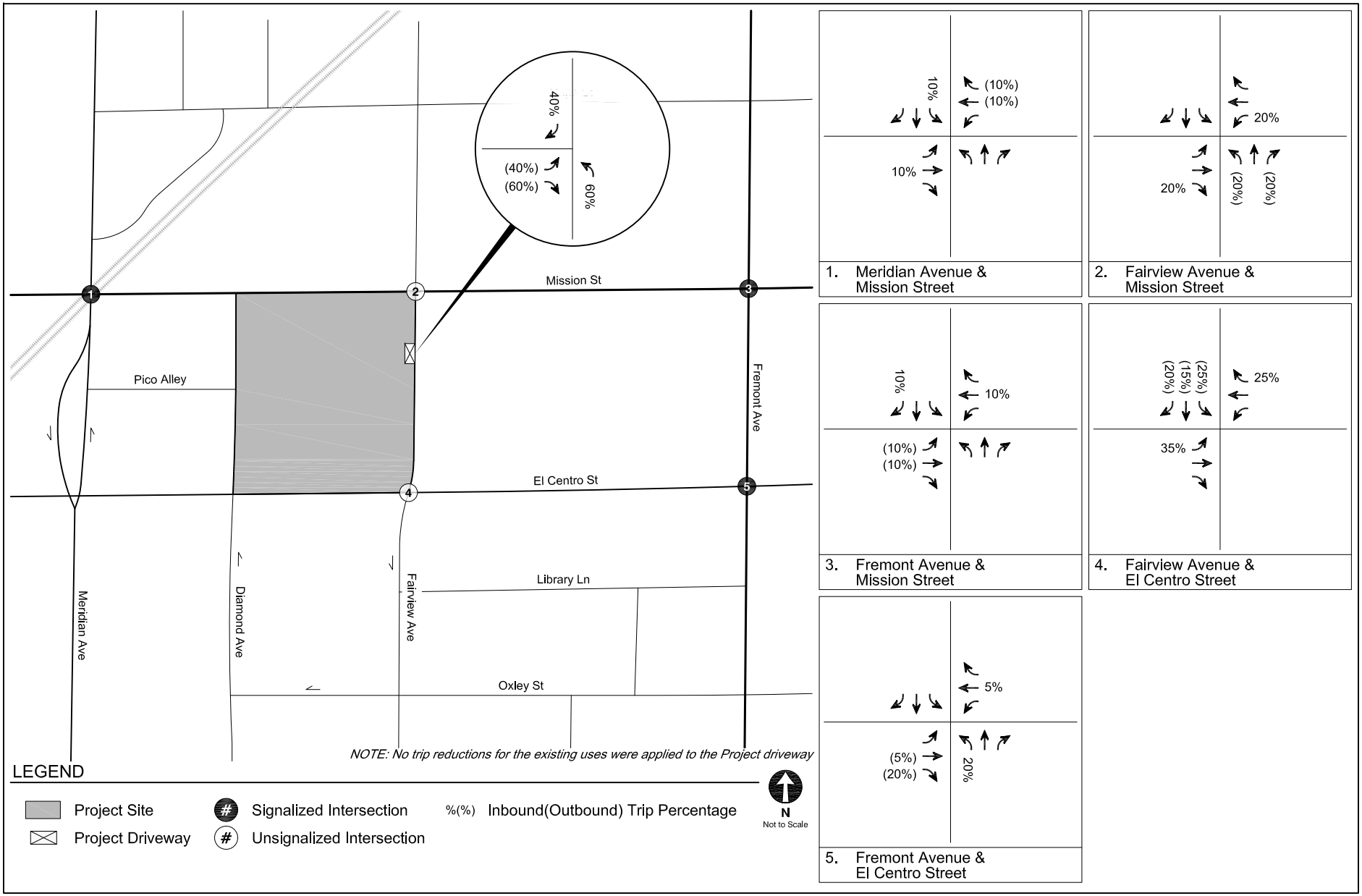
4. Fairview Avenue & El Centro Street



5. Fremont Avenue & El Centro Street

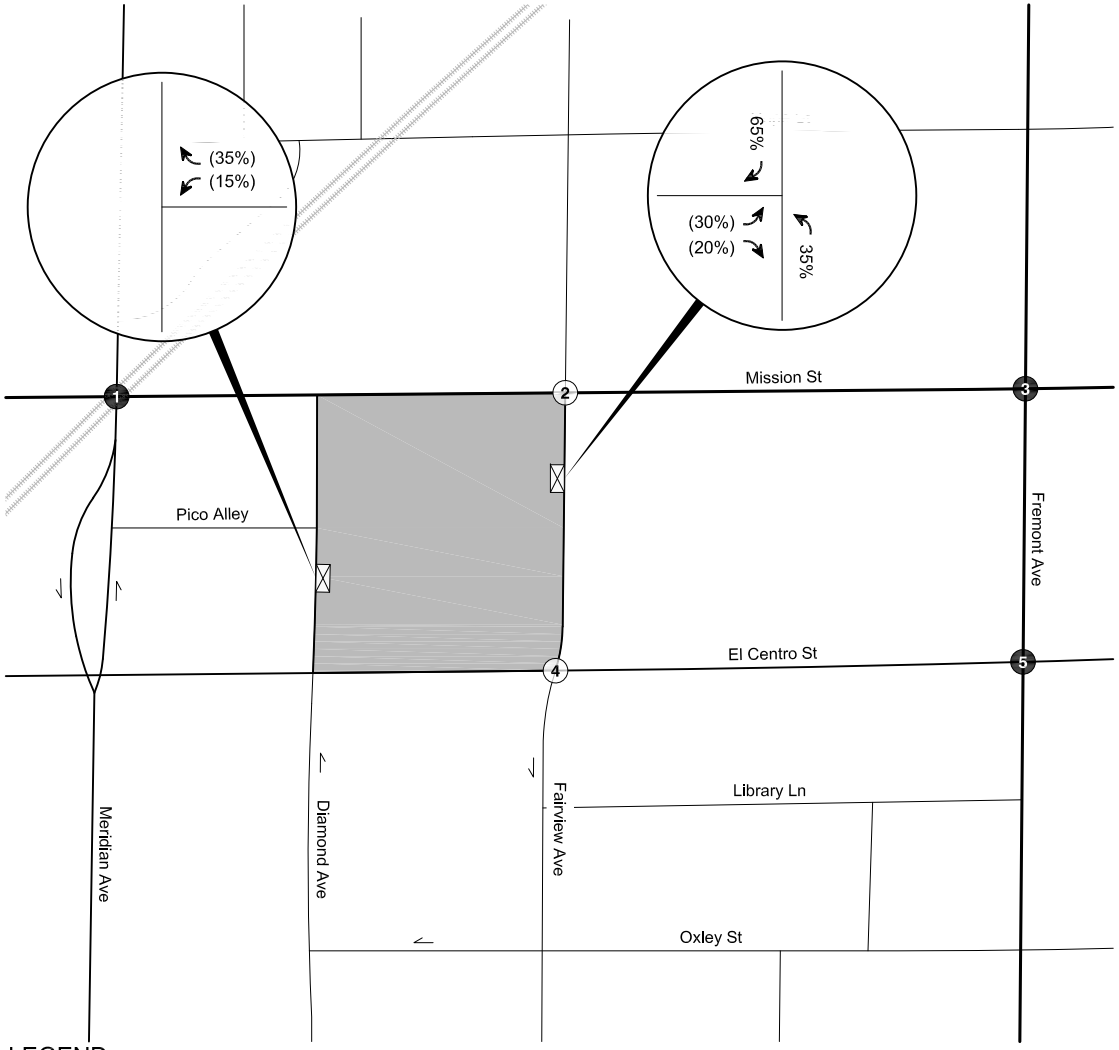
PROJECT TRIP DISTRIBUTION
RESIDENTIAL

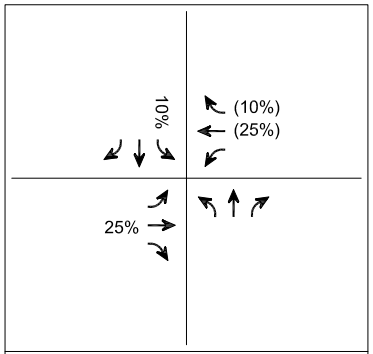
FIGURE 14A



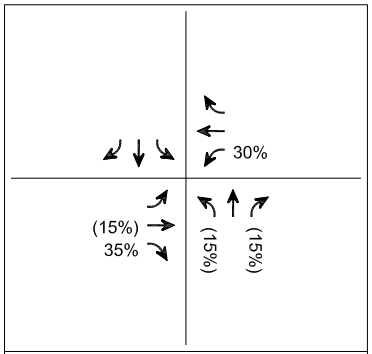
PROJECT TRIP DISTRIBUTION
COMMERCIAL

FIGURE
14B

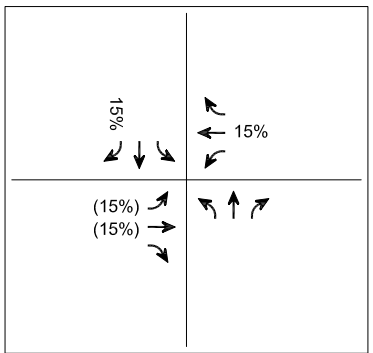




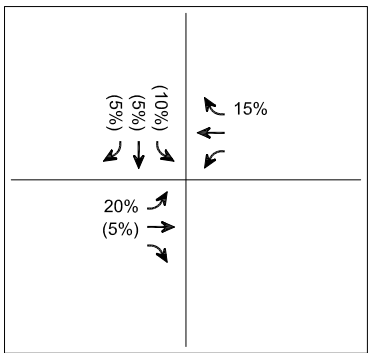
1. Meridian Avenue & Mission Street



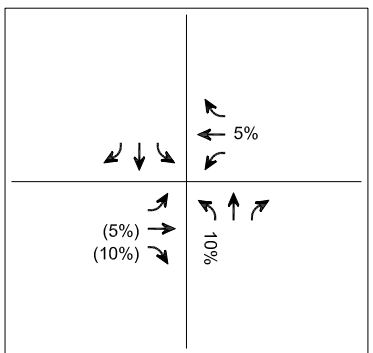
2. Fairview Avenue & Mission Street



3. Fremont Avenue & Mission Street



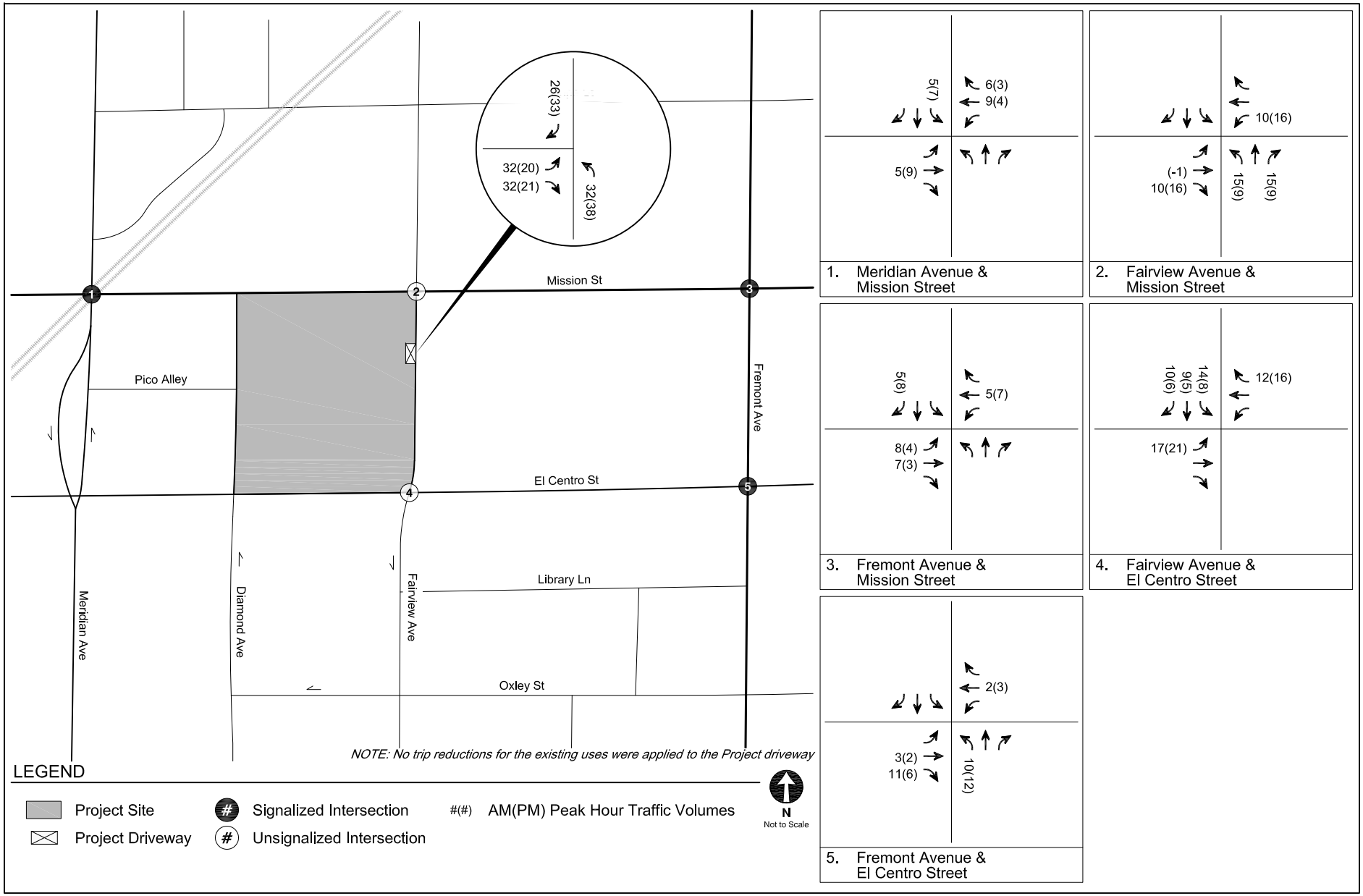
4. Fairview Avenue & El Centro Street



5. Fremont Avenue & El Centro Street

EXISTING TRIP DISTRIBUTION
OFFICE

FIGURE
15



NET NEW PROJECT-ONLY
PEAK HOUR TRAFFIC VOLUMES

FIGURE
16

TABLE 3
TRIP GENERATION

Land Use	ITE Land Use	Rate	Daily	Morning Peak Hour			Afternoon Peak Hour		
				In	Out	Total	In	Out	Total
TRIP GENERATION RATES [a]									
Multi-Family Housing (Mid-Rise)	221	per du	5.44	26%	74%	0.36	61%	39%	0.44
Shopping Center	820	per ksf	37.75	62%	38%	0.94	48%	52%	3.81
High-Turnover (Sit-Down) Restaurant	932	per ksf	112.18	55%	45%	9.94	62%	38%	9.77
General Office Building	710	per ksf	9.74	86%	14%	1.16	16%	84%	1.15
MIXED-USE INTERNAL CAPTURE [b]									
Residential	221	108 du	27%	10%	21%	18%	38%	32%	35%
Retail	820	11.016 ksf	34%	0%	25%	10%	60%	55%	57%
Restaurant	932	11.016 ksf	15%	12%	2%	7%	15%	37%	23%
TRIP GENERATION ESTIMATES									
Proposed Project									
Multi-Family Housing (Mid-Rise)	221	108 du	588	10	29	39	29	19	48
Internal Capture Reduction [b]			*-156*	*-1*	*-6*	*-7*	*-11*	*-6*	*-17*
Transit/Walk-In Reduction - 15% [c]			*-65*	*-1*	*-3*	*-4*	*-3*	*-2*	*-5*
Shopping Center (Retail)	820	11.016 ksf	416	6	4	10	20	22	42
Internal Capture Reduction [b]			*-139*	*0*	*-1*	*-1*	*-12*	*-12*	*-24*
Transit/Walk-In Reduction - 15% [c]			*-42*	*-1*	*0*	*-1*	*-1*	*-2*	*-3*
High-Turnover (Sit-Down) Restaurant	932	11.016 ksf	1,236	60	49	109	67	41	108
Internal Capture Reduction [b]			*-185*	*-7*	*-1*	*-8*	*-10*	*-15*	*-25*
Transit/Walk-In Reduction - 15% [c]			*-158*	*-8*	*-7*	*-15*	*-9*	*-4*	*-13*
TOTAL - PROPOSED			**1,495**	**58**	**64**	**122**	**70**	**41**	**111**
Existing Uses to be Removed									
Office (School Administrative Building)	710	11.435 ksf	111	11	2	13	2	11	13
Transit/Walk-In Adjustment - 15% [c]			*-17*	*-2*	*0*	*-2*	*0*	*-2*	*-2*
TOTAL - EXISTING TO BE REMOVED			***94***	***9***	***2***	***11***	***2***	***9***	***11***
TOTAL - NET NEW PROJECT TRIPS			**1,401**	**49**	**62**	**111**	**68**	**32**	**100**

Notes:

du: dwelling unit; ksf: 1,000 square feet

The Project commercial component may comprise of other uses not currently listed in this Table. The trip generation would be updated accordingly to reflect any changes.

[a] Trip generation rates are from *Trip Generation Manual, 10th Edition* (Institute of Transportation Engineers [ITE], 2017) and are based on developments located in "General Urban/Suburban" area.

[b] Internal capture reductions account for person trips made between distinct land uses within a mixed-use development without using an off-site road system, per the NCHRP 8-51 Internal Trip Capture Estimation Tool (*National Cooperative Highway Research Program Report 684 – Enhancing Internal Trip Capture Estimation for Mixed-Use Developments*, Transportation Research Board and National Research Council, 2011).

[c] The Project Site is located within 400 feet of a major transit station (Metro L Line South Pasadena Station), thus a 15% transit/walk-in reduction was applied to account for transit usage and walking visitor arrivals from the surrounding neighborhoods and adjacent commercial developments.

Chapter 4
CEQA Transportation Impact Analysis

This Chapter presents the results of an analysis of CEQA-related transportation impacts.

METHODOLOGY

State of California Senate Bill 743 (Steinberg, 2013) (SB 743), made effective in January 2014, required the Governor's Office of Planning and Research (OPR) to change the CEQA guidelines regarding the analysis of transportation impacts. Under SB 743, the focus of transportation analysis shifted from driver delay (level of service [LOS]) to vehicle miles traveled (VMT), in order to reduce greenhouse gas emissions, create multimodal networks, and promote mixed-use developments. CEQA Guidelines Section 15064.3, subdivision (b)(1) states that (for land use projects) "vehicle miles travelled exceeding an applicable threshold of significance may indicate a significant impact." This subdivision also states that a lead agency has discretion to choose the most appropriate method to evaluate a project's VMT. The OPR issued *Technical Advisory on Evaluating Transportation Impacts in CEQA* (December 2018) (OPR Technical Advisory) to provide guidance and recommendations regarding the assessment of VMT as a resource.

In addition, SB 743 adds Public Resources Code Section 21099, which provides that "aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area (TPA) shall not be considered significant impacts on the environment." A TPA is defined as an area within 0.50 miles of an existing or planned major transit stop. Public Resources Code Section 21064.3 defines a major transit stop as a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon commute periods. The Project is located in a TPA as it is 635 feet from the Metro L Line South Pasadena Station.

The TIA Guidelines defines the methodology of analyzing a project's transportation impacts in accordance with SB 743 under CEQA. Per the TIA Guidelines, the first step is to determine if there is potential for significant environmental impacts using the established screening thresholds. Based on this first step, a detailed VMT transportation analysis may be required for a project. As stated in Section E.1 of the OPR Technical Advisory, lead agencies may screen out VMT impacts using project size, maps, transit availability, and provision of affordable housing. If a project qualifies under any of the established screening criteria, then the Project will be presumed to cause a less than significant CEQA transportation impact and will not require a detailed transportation impact analysis. Table 4 summarizes the screening thresholds for the CEQA transportation analyses identified in the TIA Guidelines, which are consistent with the OPR Technical Advisory.

PROJECT SCREENING ANALYSIS

As part of the first step, a VMT screening evaluation was prepared to determine whether the Project would be expected to have a less than significant VMT impact or if further VMT analysis is required. Table 4 summarizes the Project screening application for the CEQA transportation analyses identified in the TIA Guidelines. The Project would not be required to conduct further detailed VMT transportation analysis pursuant to the screening thresholds in the TIA Guidelines, as detailed below:

- The Project is located within a TPA as it is approximately 635 feet east of the Metro L Line South Pasadena Station, which is one of the five major transit stops in the City.
- The Project would have a density of 1.17 floor area ratio (FAR).
- Section 6.2.1 of *Mission Street Specific Plan* identifies the off-street parking requirements for developments located in the plan's Core Area. As further discussed in Chapter 6, the Project's proposed residential and commercial parking supply would not exceed the City parking requirement. The Project would also provide additional parking spaces for public use.
- *Connect SoCal – The 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy* (Southern California Association of Governments, Adopted September 2020) (RTP/SCS) presents a long-term vision for the region's transportation system through Year 2045 and balances the region's future mobility and housing needs with economic, environmental, and public health goals. The Project would be in line with RTP/SCS goals to improve the mobility, accessibility, reliability, and travel safety for

people by providing separate pedestrian and bicycle access from vehicle access and landscaping elements surrounding the Project Site perimeter. The Project encourages a variety of transportation options, is served by local bus and rail lines, and is located within a TPA. Furthermore, the Project would contribute to the productivity and use of the regional transportation system by providing housing and employment near transit and encourage active transportation by providing new bicycle parking and active street frontages. As such, the Project encourages a variety of transportation options and is consistent with the RTP/SCS goal of maximizing mobility and accessibility in the region.

- The Project would not replace any existing residential uses. The Project proposes a mixed-use development with a higher-density residential component, including affordable housing, and local-serving commercial space.

Based on the above evaluation and as summarized in Table 4, the Project would not require further VMT analysis. Therefore, no significant CEQA transportation impact is anticipated with the development of the Project and no mitigation measures are required.

TABLE 4
CEQA TRANSPORTATION IMPACT ANALYSIS SCREENING ANALYSIS

Screening Thresholds	Project Screening
a) Small Project Size	**No**
The Project would generate fewer than 100 net new trips per day. This includes but not limited to 13-unit apartment building, a 30-unit attached senior housing development, or a 10,000 sf office.	No
b) Low VMT Area	**No**
The Project is consistent with the General Plan and any relevant Specific Plan and is located in a low VMT area.	No
c) Within a Transit Priority Area (TPA)	**Yes**
The Project is located within 0.50 miles of the five major transit stops in the City.	Yes
The Project does not have a total FAR of less than 0.75.	Yes
The Project does not provide more parking than required by the City.	Yes
The Project is not inconsistent with SCAG RTP/SCS.	Yes
The Project does not replace affordable housing units with a smaller number of moderate or high-income residential units.	Yes
d) Retail Projects	**No**
The Project proposes less than 50,000 sf of retail.	No
e) Affordable Housing	**No**
The Project proposes a majority of its development as affordable housing (over 50 percent).	No
For Projects that proposes less than a majority, the portions of the development proposed as affordable housing would be considered to cause less than significant impacts.	Yes
f) Redevelopment Projects	**No**
The Project replaces an existing land use with a land use that generates less VMT than its previous use, resulting in a net overall decrease in VMT.	No
g) Community Serving Projects	**No**
The Project is a municipal project (e.g. schools, parks, community centers, libraries, and other community-serving uses) and would be intended for local use.	No
Detailed CEQA Transportation Impact Analysis Required?	**NO**

Notes:
Screening thresholds from *Transportation Impact Analysis Methodology Guidelines* (City of South Pasadena, May 6, 2020)

Chapter 5
Local Traffic Assessment

This chapter summarizes the non-CEQA transportation analysis of the Project. It includes a quantitative evaluation of the Project's access and circulation operations, including the anticipated LOS and traffic queues at the study intersections.

This chapter also describes the results of the local intersection impact analysis for the Project under Existing and Future Conditions. The analyses measured intersection impacts according to the local impact criteria specified in the TIA Guidelines. The relative impact of adding Project traffic volume during the peak hours was evaluated based on a comparative analysis of the operating conditions without the Project at the study intersections. Such impacts are not considered significant under CEQA, but the City may require Project modifications or off-site improvements to ensure less than adverse transportation conditions around the Project Site.

SITE ACCESS OVERVIEW

Vehicular access to the Project Site would be provided via one driveway along Fairview Avenue, which is proposed at the approximate location of the existing driveway. This driveway would lead to the two-level subterranean parking garage and is proposed with a single inbound lane and a single outbound lane that would allow for left and right turns in/out. No roadway widening is proposed on Fairview Avenue and, thus, southbound and northbound turns would continue to share the single through lane in each direction. The driveway would be placed and configured to limit vehicle queues and bicycle/pedestrian-vehicle conflicts.

Pedestrian access to the Project Site would be provided via the sidewalks along the street frontages around the Project Site perimeter, including from Mission Street, Fairview Avenue, El Centro Street, and Diamond Avenue. The Project access design would not mix pedestrian and vehicle traffic to limit potential vehicular-pedestrian conflicts. Residents, employees, and visitors arriving by bicycle would have the same access opportunities as pedestrians and vehicles.

Pedestrian and bicycle access separated from vehicle access would be provided and would connect to the internal pedestrian walkways to reduce potential conflicts with vehicle traffic.

With the development of the Project, street trees and other landscaped elements surrounding the Project Site perimeter, as well as the outdoor public space and courtyard, would enhance the pedestrian environment. The Mission Street frontage would be lined with ground floor local-serving commercial space to ensure that the Project actively engages with the street and surrounding uses. The Project would maintain and/or construct all sidewalks and curb ramps along the Project frontages in accordance with ADA standards. All unused curb cuts and driveways along Diamond Avenue would be removed and replaced with sidewalks to maintain pedestrian walkway continuity.

ANALYSIS CONDITIONS

Potential Project-related local impacts were evaluated for typical weekday morning (7:00 AM to 9:00 AM) and afternoon (4:00 PM to 6:00 PM) peak periods. A total of five study intersections in the vicinity of the Project Site within the City were selected for detailed local traffic impact analysis.

In addition to the Existing Conditions and Future without Project Conditions in Year 2024 developed in Chapter 2, the following traffic conditions were developed and analyzed as part of this study:

- Existing with Project Conditions (Year 2021) – This scenario analyzes the potential intersection operating conditions that could be expected if the Project were built under existing conditions. In this scenario, the Project-generated traffic is added to the Existing Conditions.

- Future with Project Conditions (Year 2024) – This scenario analyzes the potential intersection operating conditions that could be expected if the Project were built in the projected buildout year. In this scenario, the Project-generated traffic is added to Future without Project Conditions.

METHODOLOGY

In accordance with the TIA Guidelines, the intersection delay and queue analyses for the local traffic assessment were conducted using the *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016) (HCM) methodology, which was implemented using Synchro software to analyze intersection operating conditions. The HCM methodology for analyzing signalized and all-way stop-controlled intersections calculates the average delay, in seconds, for each vehicle passing through an intersection. The HCM methodology for analyzing stop-controlled intersections calculates the control delay, in seconds, for individual approaches to an intersection and does not account for traffic gaps created by adjacent traffic signals. Table 5 presents a description of the LOS categories, which range from excellent, nearly free-flow traffic at LOS A, to stop-and-go conditions at LOS F, for signalized and unsignalized intersections. The queue lengths were also estimated per the HCM methodology using Synchro software, which reports the 95th percentile queue length. The 95th percentile queue measures the probability that a queue length will reach a certain length and is the maximum vehicular queue that would not be exceeded 95% of the time. Synchro queue results that are reported in vehicle-length were converted to linear feet by multiplying each vehicle by 25 feet to account for the average length of a vehicle plus distance between vehicles in the queue.

LOS and queuing worksheets for each scenario are provided in Appendix C.

LOCAL IMPACT CRITERIA AND THRESHOLDS

The potential local impacts of Project generated traffic at each study intersection was identified based on the TIA Guidelines. According to the TIA Guidelines for calculating the magnitude of local impact due to traffic generated by a proposed project, a project-related local impact is determined based on the criteria presented below:

- Signalized Intersections
    - The addition of project-generated trips reduces the peak hour LOS of the study intersection from an acceptable operation (LOS A, B, C or D) to a deficient operation (LOS E or F); *or*

- The addition of project traffic increases the critical movement delay by four seconds at an intersection already operating at a deficiency (LOS E or F) prior to project traffic.

- Unsignalized Intersections

  - The addition of project traffic causes the average intersection delay for all-way stop controlled intersections or the worst movement for side-street stop-controlled intersections to degrade to LOS E or F, *and*

  - The intersection satisfies any traffic signal warrant.

- Intersection Queuing

  - A queuing deficiency would occur if the addition of project traffic causes the 95th percentile queue in a left- or right-turn lane/pocket to extend beyond the turn pocket by 25 feet or more into adjacent traffic lanes that operate separately from a left or right turn length; *or*

  - The addition of project traffic lengthens the queue by 25 feet or more at locations where the vehicle queue length already exceeds that turn lane/pocket length.

Per the TIA Guidelines, if adverse operational impacts are determined to occur based on the criteria detailed above, a project is required to mitigate these local impacts to less than adverse conditions through additional project components. The relative impact of the added Project traffic was evaluated based on an analysis of operating conditions at the study intersections, without and with the Project. The Project's local impacts were evaluated against the Existing (Year 2021) Conditions and Future without Project (Year 2024) Conditions.

LOCAL TRAFFIC IMPACT ANALYSIS

Existing with Project Conditions

Traffic Volumes. The Project-only morning and afternoon peak hour traffic volumes described in Chapter 3 and shown in Figure 16 were added to the existing morning and afternoon peak hour traffic volumes shown in Figure 9. The resulting volumes are illustrated in Figure 17 and represent Existing with Project Conditions, assuming Project operation under Existing Conditions.

Intersection LOS. Table 6 summarizes the results of the Existing and Existing with Project Conditions during the weekday morning and afternoon peak hours for the five study intersections. As detailed, all five study intersections are anticipated to operate at LOS C or better during both analyzed peak hours under Existing with Project Conditions.

Local Impact Evaluation. As detailed in Table 6, when measuring the Existing with Project Conditions against the Existing Conditions, the addition of Project traffic would not result in a change of peak hour LOS to deficient levels and the incremental increases in the delay would not exceed the thresholds to generate a local impact at the study intersections. As such, the Project would not result in a local traffic impact under the Existing with Project Conditions and no mitigation is required.

Future with Project Conditions

All future adjustments, including cumulative traffic growth (i.e., ambient growth and Related Project traffic) and transportation infrastructure improvements described in Chapter 2 are incorporated into this analysis.

Traffic Volumes. The Project-only morning and afternoon peak hour traffic volumes described in Chapter 3 and shown in Figure 16 were added to the Future without Project (Year 2024) morning and afternoon peak hour traffic volumes shown in Figure 12. The resulting volumes are illustrated in Figure 18 and represent Future with Project Conditions after development of the Project in Year 2024.

Intersection LOS. Table 7 summarizes the results of the Future without Project (Year 2024) and Future with Project Conditions (Year 2024) during the weekday morning and afternoon peak hours for the five study intersections. As detailed, all five study intersections are anticipated to continue to operate at LOS C or better during both analyzed peak hours under Future with Project Conditions.

Local Impact Evaluation. As detailed in Table 7, when measuring the Future with Project Conditions (Year 2024) against the Future without Project Conditions (Year 2024), the addition of Project traffic would not result in a change of peak hour LOS to deficient levels and the

incremental increases in the delay would not exceed the thresholds to generate a local impact at the study intersections. As such, the Project would not result in a local traffic impact under the Future with Project Conditions (Year 2024) and mitigation is not required.

Signal Warrant Analysis

A signal warrant analysis was conducted to evaluate for the potential installation of a new traffic signal at the two unsignalized study intersections, Fairview Avenue & Mission Street (Intersection #2) and Fairview Avenue & El Centro Street (Intersection #4). It should be noted that the two unsignalized intersections are anticipated to continue to operate at acceptable LOS C and LOS A, respectively, during both analyzed peak hours under Future with Project Conditions (Year 2024).

The signal warrant analysis follow the guidelines set forth in *California Manual on Uniform Traffic Control Devices, 2014 Edition, Revision 6* (Caltrans, 2021) (California MUTCD), by applying the thresholds from Warrant 3 (peak hour). The following methodology, as quoted from the California MUTCD, was used to evaluate signal warrants at the locations:

> ***Warrant 3, Peak-Hour Vehicular Volume Warrant***
>
> *Signal Warrant 3 is intended for use at a location where traffic conditions are such that for a minimum of one hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street. Combined volumes for both approaches of the major street are included while only the volume from the higher minor street approach is included. At an intersection with a high volume of left-turn traffic from the major street, the analysis may include the major street left-turn volumes plus the minor street approach volume as the total "minor street" volume. The warrant is satisfied if traffic volumes for any one hour of an average day exceed the plotted lines shown in the following figure.*

Neither unsignalized study intersection would meet the minimum peak hour traffic volume threshold of Warrant 3 and, thus, signalization is not recommended. Detailed signal warrant worksheets are provided in Appendix D.

Intersection Queuing Analysis

The study intersections were analyzed to determine whether the storage capacity of intersection turning lanes could accommodate the anticipated vehicle queue lengths. This analysis focused on locations where dedicated turn pockets are provided, which include Fremont Avenue & Mission Street (Intersection #3) and Fremont Avenue & El Centro Street (Intersection #5). No other study intersection provides dedicated turn pockets. As detailed in Table 8, the Project would not lengthen any of the queues by 25 feet or more under Future with Project Conditions (Year 2024). Furthermore, the anticipated vehicle queues would not extend beyond the available vehicle storage capacity and would not block the adjacent through lane operations during any of the analyzed peak hours. Thus, the Project would not result in a queuing deficiency at any of the study intersections and no mitigation is required. Detailed queuing analysis worksheets are provided in Appendix C.

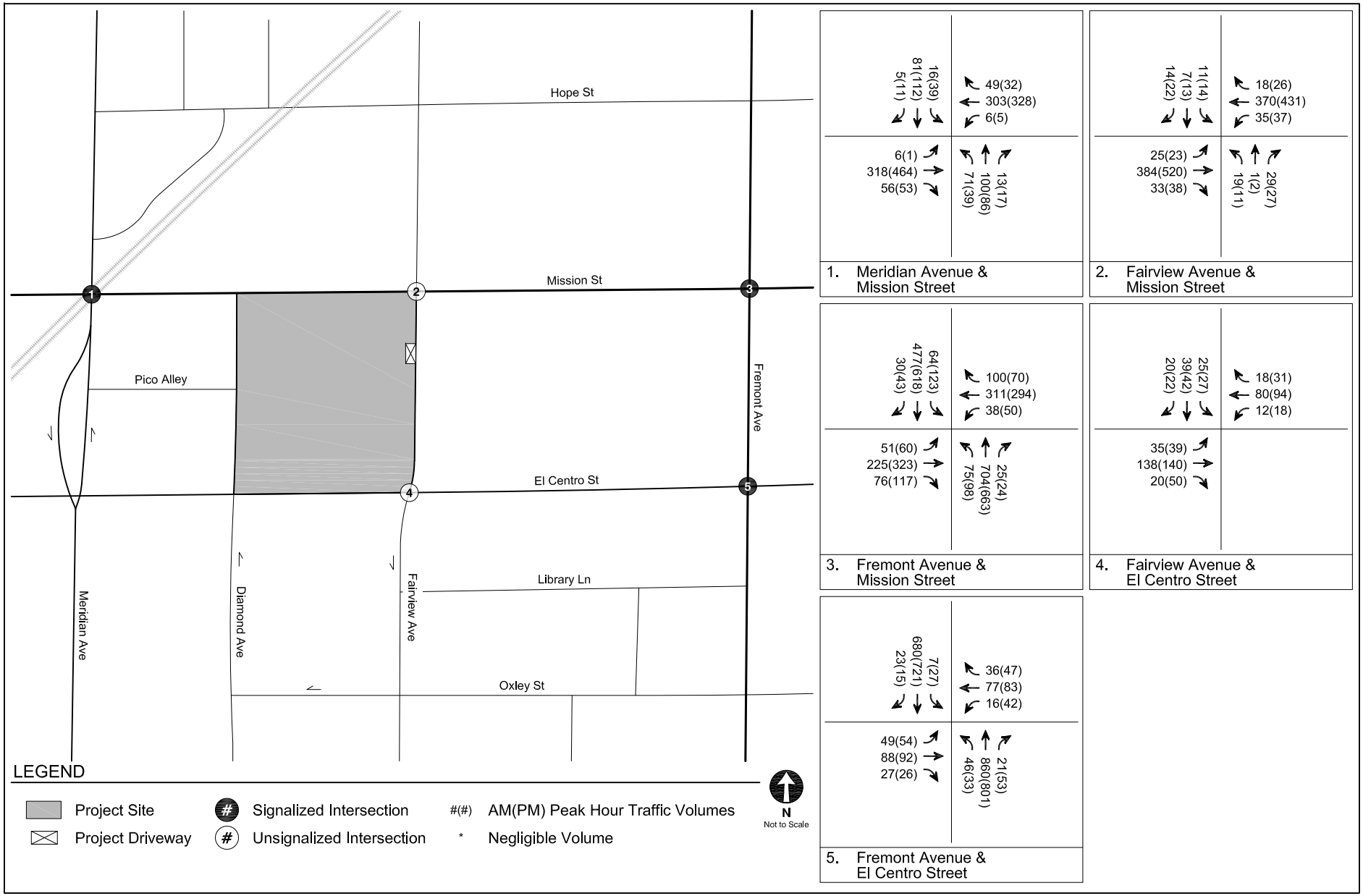
DRIVEWAY ANALYSIS

As detailed in Table 3, without taking any existing use credit, the Project would generate a maximum of 122 vehicle trips at the proposed driveway during a one-hour period (morning peak hour), or an average of approximately two trips per minute. Based on the LOS calculation worksheets provided in Appendix C, the driveway would operate at acceptable LOS A conditions during both analyzed peak hours and could accommodate peak Project traffic demand. The queuing analysis estimates a queue of less than one vehicle-length (a maximum length of approximately three feet occurring during both the morning and afternoon peak hours) in the northbound direction. Based on the estimated traffic volumes and configuration of the proposed driveway, queuing would not extend as far as Mission Street or El Centro Street and would not substantially affect through traffic movements along Fairview Avenue.

Based on the evaluation of the driveway and internal circulation, the driveway would be adequate to serve the demand of the Project Site and would not result in internal stacking that would spill onto the adjacent roadway. The traffic expected at the Project driveway can be accommodated internally and within the existing infrastructure and lane striping at adjacent intersections. Detailed LOS and queuing analysis worksheets are provided in Appendix C.

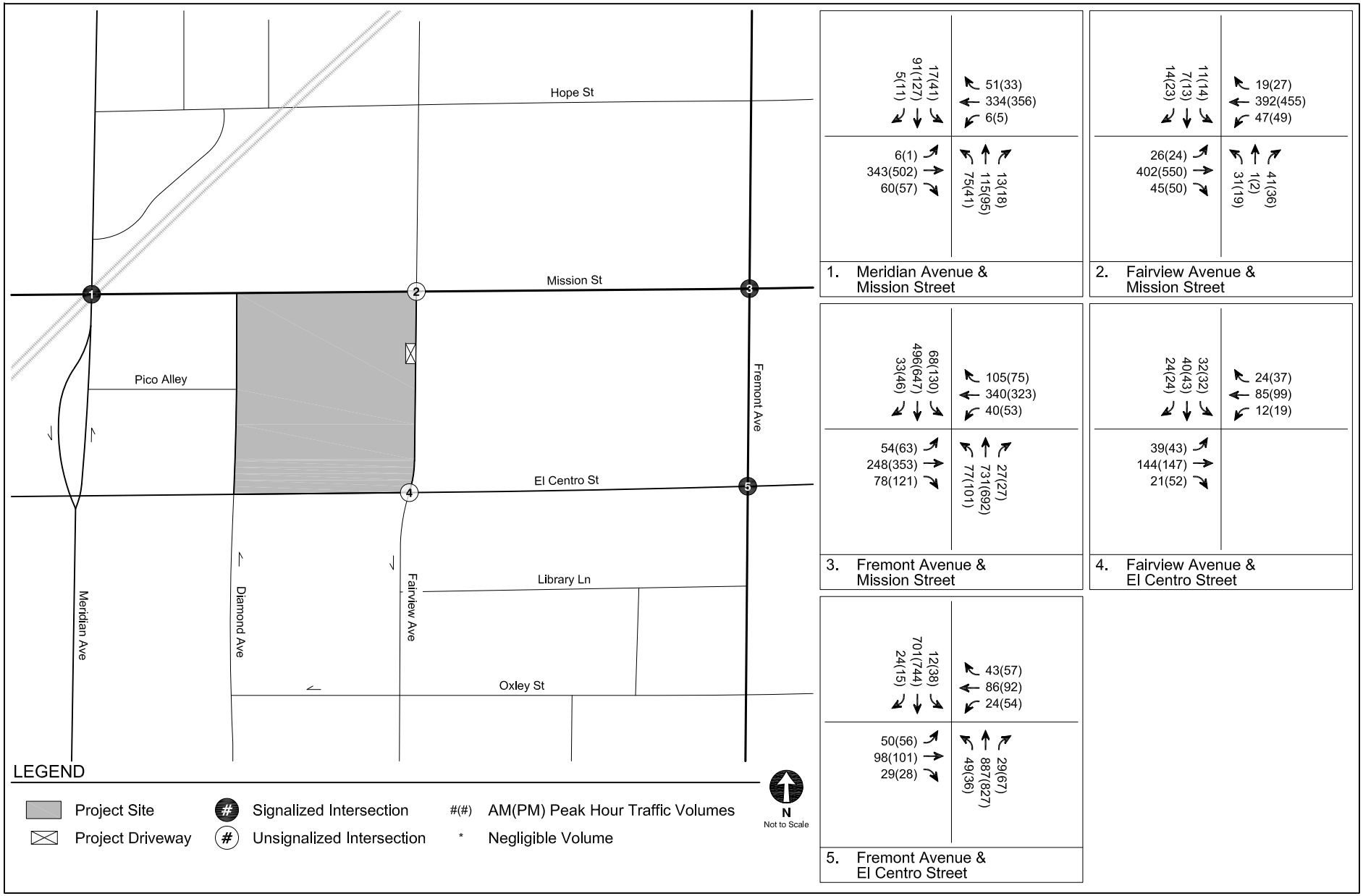
CONCLUSION

The addition of Project traffic would not result in a change of peak hour LOS to deficient levels nor would result in incremental delay increases that exceed the thresholds to generate a local impact at any of the five study intersections under both Existing with Project Conditions (Year 2021) and Future with Project Conditions (Year 2024). Furthermore, the Project would not lengthen any left-turn or right-turn queues by 25 feet or more. None of the unsignalized intersections would meet the peak hour warrants for potential signalization. Thus, the Project would not result in a local traffic impact and no mitigation is required.



EXISTING WITH PROJECT CONDITIONS (YEAR 2021)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 17



FUTURE WITH PROJECT CONDITIONS (YEAR 2024)
PEAK HOUR TRAFFIC VOLUMES

FIGURE 18

TABLE 5
INTERSECTION LEVEL OF SERVICE DEFINITIONS

Level of Service	Description	Delay [a]	
		Signalized Intersections	Unsignalized Intersections
A	EXCELLENT. No vehicle waits longer than one red light and no approach phase is fully used.	≤ 10	≤ 10
B	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.	> 10 and ≤ 20	> 10 and ≤ 15
C	GOOD. Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles.	> 20 and ≤ 35	> 15 and ≤ 25
D	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.	> 35 and ≤ 55	> 25 and ≤ 35
E	POOR. Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.	> 55 and ≤ 80	> 35 and ≤ 50
F	FAILURE. Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.	> 80	> 50

Notes:

Source: *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016).

[a] Measured in seconds.

TABLE 6
EXISTING WITH PROJECT CONDITIONS (YEAR 2021)
INTERSECTION LEVELS OF SERVICE ANALYSIS

No.	Intersection	Peak Hour	Existing Conditions		Existing with Project Conditions			
			Delay	LOS	Delay	LOS	Change in Delay	Local Impact
1.	Meridian Avenue & Mission Street	AM PM	19.8 19.1	B B	19.9 19.0	B B	0.1 -0.1	NO NO
2. [a]	Fairview Avenue & Mission Street	AM PM	15.5 19.6	C C	16.2 21.1	C C	0.7 1.5	NO NO
3.	Fremont Avenue & Mission Street	AM PM	11.0 12.0	B B	11.0 12.1	B B	0.0 0.1	NO NO
4. [b]	Fairview Avenue & El Centro Street	AM PM	8.1 8.4	A A	8.7 9.0	A A	0.6 0.6	NO NO
5.	Fremont Avenue & El Centro Street	AM PM	8.2 8.8	A A	8.5 8.9	A A	0.3 0.1	NO NO

Notes:

Delay is measured in seconds per vehicle; LOS = Level of service

[a] Unsignalized intersection analysis based on the *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016) (HCM) Unsignalized Two-Way Stop-Control methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the worst-case approach, and does not account for traffic gaps created by adjacent traffic signals.

[b] Unsignalized intersection analysis based on the HCM Unsignalized All-Way Stop-Control methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the average delay.

TABLE 7
FUTURE WITH PROJECT CONDITIONS (YEAR 2024)
INTERSECTION LEVELS OF SERVICE ANALYSIS

No.	Intersection	Peak Hour	Future without Project Conditions		Future with Project Conditions			
			Delay	LOS	Delay	LOS	Change in Delay	Local Impact
1.	Meridian Avenue & Mission Street	AM PM	19.7 18.7	B B	19.8 18.7	B B	0.1 0.0	NO NO
2. [a]	Fairview Avenue & Mission Street	AM PM	16.9 22.1	C C	17.7 23.9	C C	0.8 1.8	NO NO
3.	Fremont Avenue & Mission Street	AM PM	11.2 12.4	B B	11.2 12.5	B B	0 0.1	NO NO
4. [b]	Fairview Avenue & El Centro Street	AM PM	8.2 8.6	A A	8.9 9.3	A A	0.7 0.7	NO NO
5.	Fremont Avenue & El Centro Street	AM PM	9.0 10.0	A A	9.4 10.1	A B	0.4 0.1	NO NO

Notes:

Delay is measured in seconds per vehicle; LOS = Level of service

[a] Unsignalized intersection analysis based on the *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016) (HCM) Unsignalized Two-Way Stop-Control methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the worst-case approach, and does not account for traffic gaps created by adjacent traffic signals.

[b] Unsignalized intersection analysis based on the HCM Unsignalized All-Way Stop-Control methodology, which calculates the control delay, in seconds, for each individual approach of an intersection. The reported control delay represents the average delay.

TABLE 8
FUTURE WITH PROJECT CONDITIONS (YEAR 2024)
INTERSECTION QUEUES

Intersection	Turn Pocket Length (ft)	Peak Hour	Queue Length (ft)		
			Future without Project Conditions	Future with Project Conditions	Project Contribution to Queue Length
Intersection #3. Fremont Avenue & Mission Street					
Southbound Left-Turn	60	AM PM	18 40	18 40	0 0
Southbound Right-Turn	75	AM PM	5 8	8 10	3 2
Westbound Left-Turn	50	AM PM	25 35	25 35	0 0
Northbound Left-Turn	45	AM PM	3 18	3 18	0 0
Northbound Right-Turn	80	AM PM	0 0	0 0	0 0
Eastbound Left-Turn	50	AM PM	35 45	43 48	8 3
Intersection #5. Fremont Avenue & El Centro Street					
Southbound Left-Turn	40	AM PM	3 13	3 13	0 0
Northbound Left-Turn	50	AM PM	5 5	8 5	3 0

Notes:

All lengths shown in feet based on 25 feet per vehicle. Queues based on 95th percentile queue calculated by the HCM methodology.

Chapter 6
Parking

This chapter provides an analysis of the parking requirements for the Project set forth in *Mission Street Specific Plan* in relation to the Project's proposed parking supply. As described in Chapter 4, per SB 743, the Project Site is located within a TPA; thus, the proposed parking provisions for the Project are not considered significant and the parking analysis below is provided for informational purposes only.

PARKING SUPPLY

The Project would provide up to 251 parking spaces on-site within two levels of subterranean parking, including 108 residential spaces, 66 commercial spaces, and up to 77 additional spaces for public use. Additionally, the Project would provide the required bicycle parking spaces per Section 6.2.1 of *Mission Street Specific Plan*. Vehicular access to the Project Site would be provided via one full-access driveway on Fairview Avenue.

AUTOMOBILE PARKING CODE REQUIREMENTS

The parking requirements of the Project are based on the rates provided in Section 6.2.1 of *Mission Street Specific Plan* for developments located in the plan's Core Area. Table 9 summarizes the automobile parking requirements for the Project, which resulted in a total parking requirement of 208 spaces, including 120 residential spaces and 88 commercial spaces, prior to allowable reductions as detailed below.

Per Paragraph (2) of Section 65915 of the Government Code, development projects that include 20% low-income units and are located within 0.50 miles of a major transit stop (e.g. in the Project's case, the Metro L Line South Pasadena Station) may request for a parking reduction to not exceed 0.5 spaces per unit. Additionally, per Section 6.2.1.A of the *Mission Street Specific*

Plan, if a central parking facility or facilities for 150 or more vehicles is provided (e.g. in the Project's case, the Mission Meridian development and City Hall), the commercial parking requirement shall be reduced to three spaces per 1,000 sf. As such, the automobile parking requirement for the Project could be reduced to 120 spaces, including 54 residential spaces and 66 commercial spaces. The Project would provide 108 residential spaces and 66 commercial spaces, as well as up to 77 additional spaces for public use. Therefore, the Project would meet its automobile parking code requirement.

BICYCLE PARKING CODE REQUIREMENTS

Per Section 6.2.1.A.2 of *Mission Street Specific Plan*, which details the bicycle parking requirements for commercial uses proposed as part of new developments located in the plan's Core Area, bicycle parking is not required for residential uses. As summarized in Table 10, the bicycle parking rate for commercial uses is one secured bicycle parking space for every four automobile parking spaces. The 22,032 sf of commercial space would require 66 automobile spaces, and, thus, would also require 17 secured bicycle parking spaces. The Project would provide the required bicycle parking spaces per *Mission Street Specific Plan*.

TABLE 9
AUTOMOBILE PARKING CODE REQUIREMENTS

PARKING REQUIREMENTS			
Land Use	**Size**	**Parking Rate**	**Total Spaces**
MSSP Parking Rates [a]			
Residential			
Single	6 du	1.00 sp / 1 du	6
1 Bedroom	90 du	1.00 sp / 1 du	90
2 or More Bedrooms	12 du	2.00 sp / 1 du	24
Commercial	22,032 sf	4.00 sp / 1,000 sf	88
		Total Automobile Parking Required	**208**
Allowable Parking Reduction			
Residential Parking Reduction [b]	108 du	0.50 sp / 1 du	54
Commercial Parking Reduction [c]	22,032 sf	3.00 sp / 1,000 sf	66
		Total Automobile Parking Required with Reductions	**120**

Notes:

[a] Parking rates per Section 6.2.1 of the *Mission Street Specific Plan* (City of South Pasadena, April 1996) for developments located in the Core Area of the *Mission Street Specific Plan* .

[b] Per Paragraph (2) of Section 65915 of the Government Code, development projects that include 20 percent low-income units and are located within 0.5 miles of a major transit stop (e.g. Metro L Line South Pasadena Station) may request for a parking reduction to not exceed 0.5 spaces per unit.

[c] Per Section 6.2.1.A of the *Mission Street Specific Plan* , if a central parking facility or facilities for 150 or more vehicles is provided (e.g. Mission Meridian development and City Hall), the commercial parking requirement shall be reduced to 3 spaces per 1,000 sf.

TABLE 10
BICYCLE PARKING CODE REQUIREMENTS

PARKING REQUIREMENTS			
Land Use	**Size**	**Parking Rate**	**Total Spaces**
MSSP Bicycle Parking Rates [a]			
Commercial	66 sp	1.00 sp / 4 sp	17
		Total Bicycle Parking Required	**17**

Notes:

[b] Bicycle parking rates per Section 6.2.1.A.2 of the *Mission Street Specific Plan* (City of South Pasadena, April 1996) for commercial uses proposed as part of developments located in the Core Area of the *Mission Street Specific Plan*. No bicycle parking is required for residential uses.

Chapter 7

Summary of Conclusions

This study was undertaken to analyze the potential transportation impacts of the Project on the transportation system. The following summarizes the results of this analysis:

- The Project is located at 1020 El Centro Street and includes construction of up to 108 multi-family housing units, including 22 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium as part of its proposed commercial space. The total commercial space would include approximately 22,032 sf of floor area. The existing surface parking lot would be removed to accommodate the development of the Project. The Project is anticipated to be completed in Year 2024.

- The Project is designed with a single vehicular driveway along Fairview Avenue proposed at the approximate location of the existing driveway.

- The Project is estimated to generate 1,401 net new daily trips on a typical weekday, including 111 net new morning peak hour trips and 100 net new afternoon peak hour trips.

- The Project was screened out from further detailed CEQA transportation analyses as it is located within a TPA. Thus, the Project is presumed to cause less than significant VMT impacts and no mitigation is required.

- The Project does not result in a local traffic impact nor cause the roadway system to operate at adverse conditions. No mitigation is required.

- The Project would meet its automobile and bicycle parking code requirements.

References

California Manual on Uniform Traffic Control Devices, 2014 Edition, Revision 6, California Department of Transportation, March 2021.

City of South Pasadena General Plan, City of South Pasadena, Amended February 2001.

Connect SoCal – The 2020-2045 Regional Transportation Plan / Sustainable Communities Strategy, Southern California Association of Governments, Adopted September 2020.

Cycle South Pasadena: Bicycle Master Plan Update, City of South Pasadena, Leslie Scott Consulting and MJB Consulting, August 17, 2011.

Highway Capacity Manual, 6th Edition, Transportation Research Board, 2016.

Mission Street Specific Plan, City of South Pasadena, April 1996.

National Cooperative Highway Research Program Report 684 – Enhancing Internal Trip Capture Estimation for Mixed-Use Developments, Transportation Research Board and National Research Council, 2011.

State of California Senate Bill No. 743, Steinberg, 2013.

Technical Advisory on Evaluating Transportation Impacts in CEQA, Governor's Office of Planning and Research, December 2018.

Seven Patios Mixed-Use Residential/Commercial Retail Project Traffic Impact Analysis, Ganddini Group Inc., February 26, 2020.

Traffic Study for the Mission View Mixed-Use Development Project, Gibson Transportation Consulting, Inc., January 2017.

Transportation Impact Analysis Methodology Guidelines, City of South Pasadena, May 6, 2020.

Trip Generation Manual, 10th Edition, Institute of Transportation Engineers, 2017.

Appendix A

Memorandum of Understanding

MEMORANDUM OF UNDERSTANDING
DECEMBER 9, 2021

FAIRVIEW COURT PROJECT
SOUTH PASADENA, CA 91030

This memorandum of understanding (MOU) summarizes the assumptions guiding the transportation study for the Fairview Court Project located at 1020 El Centro Street in the City of South Pasadena (City). The MOU provides an outline of both the California Environmental Quality Act (CEQA) and non-CEQA transportation analyses in accordance with the City's *Transportation Impact Analysis Methodology Guidelines* (May 6, 2020) (TIA Guidelines) for review/concurrence by City staff.

PROJECT DESCRIPTION: The Project is a mixed-use development that includes the construction of up to 108 multi-family housing units, including 22 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium located along the southern and eastern boundary of the Project site as part of its proposed commercial space. The total commercial space would comprise of approximately 22,032 square feet of retail and restaurant uses. The Project would provide up to 251 automobile parking spaces with access via one driveway along Fairview Avenue. The existing surface parking lot would be removed to accommodate the development of the Project.

See Figure 1 for Project Site Plan and Figure 2 for Study Area and Analyzed Intersections.

PROJECT BUILDOUT YEAR: Anticipated to be complete and in operation by 2024

SCOPE OF CEQA TRANSPORTATION IMPACT ANALYSIS

This project qualifies for one or more exemptions from analysis under CEQA and its attendant regulations and guidelines[1]. Consistent with the TIA Guidelines, a limited scope local traffic screening assessment will be prepared to ratify the exemption(s) or determine if additional transportation impact analysis will be required. The limited scope screening will focus on whether or not (i) the project in combination with other successive projects of the same type in the same place will result in cumulative traffic impacts and (ii) whether there are unusual circumstances creating the reasonable possibility of significant traffic impacts.

SCOPE OF LOCAL TRAFFIC ASSESSMENT (NON-CEQA)

Per the TIA Guidelines, a local traffic assessment will be prepared as part of the Transportation Study and will be submitted to the Director of Public Works for review.[2]

---

[1] Per the authority of State law, including without limitation SB 35 (including Government Code Section 65913.4), Public Resources Code 21155.1 and CEQA Guidelines Sections 15183.3 and 15332.

[2] State law provides that impacts on the physical environment (including traffic impacts) are not an applicable basis for denying or reducing the density of this housing development project (e.g. SB 290).

Trip Generation, Distribution, and Assignment

The number of vehicle trips, including daily and morning and afternoon peak hour vehicle trips, expected to be generated by the Project, as well as the existing uses currently occupied on site was estimated using rates published in *Trip Generation Manual, 10th Edition*. Trip generation reductions were applied to account for internal capture within a mixed-use development and public transit usage/walking arrivals. As summarized in Table 1, the Project is anticipated to generate 1,401 net new daily trips, including 111 net new morning peak hour trips (49 inbound, 62 outbound) and 100 net new afternoon peak hour trips (68 inbound, 32 outbound).

Figures 3A and 3B illustrate the trip distribution patterns for the residential and commercial uses of the Project, respectively. The geographic distribution of trips generated by the Project is primarily dependent on the location of employment and commercial centers from which residents, employees and visitors of the Project would be drawn, characteristics of the street system serving the Project Site, existing intersection traffic volumes, and the location of the proposed driveway. Figure 4 illustrates the trip distribution pattern for the existing school administrative office use.

The Project and existing office use trip generation estimates summarized in Table 1 and the trip distribution patterns shown in Figures 3 and 4 were used to assign the Project-generated traffic and existing office use traffic, respectively. Figure 5 illustrates the net new Project-only traffic volumes during typical weekday morning and afternoon peak hours, accounting for the removal of the existing office use.

Study Locations

The following five study locations have been selected to determine the Project's operational local impact on the nearby street system:

1. Meridian Avenue & Mission Street (Signalized)
2. Fairview Avenue & Mission Street (Two-Way Stop-Controlled)
3. Fremont Avenue & Mission Street (Signalized)
4. Fairview Avenue & El Centro Street (All-Way Stop-Controlled)
5. Fremont Avenue & El Centro Street (Signalized)

Data Collection

New traffic count data collection will be conducted at the five study locations from 7 AM to 9 AM and 4 PM to 6 PM.

Cumulative Traffic Growth

Traffic to/from any potential cumulative developments within the City, in addition to any increase in traffic due to regional growth and development outside of the Study Area will be captured in the ambient growth factor of 1% per year.

Intersection Analysis Traffic Evaluation

The Transportation Study will analyze all study intersections using the *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016) (HCM) methodology to obtain delay and the corresponding level of service (LOS) value. The following analysis scenarios will be evaluated:

- Existing (Year 2021)
- Existing with Project (Year 2021)
- Future without Project (Opening Year 2024)
- Future with Project (Opening Year 2024)

Based on the TIA Guidelines methodology, capacity calculations will be performed for each of the study intersections under the scenarios described above to allow the determination of the incremental local impact due to the proposed Project. If adverse operational impacts are determined to occur, physical and/or operational improvement measures to accommodate Project trips and reduce local impacts to less than adverse conditions will be identified.

Project Site Access Studies

The Transportation Study will review the site access and circulation, including signal warrant analysis and queues along roadways adjacent to the Project:

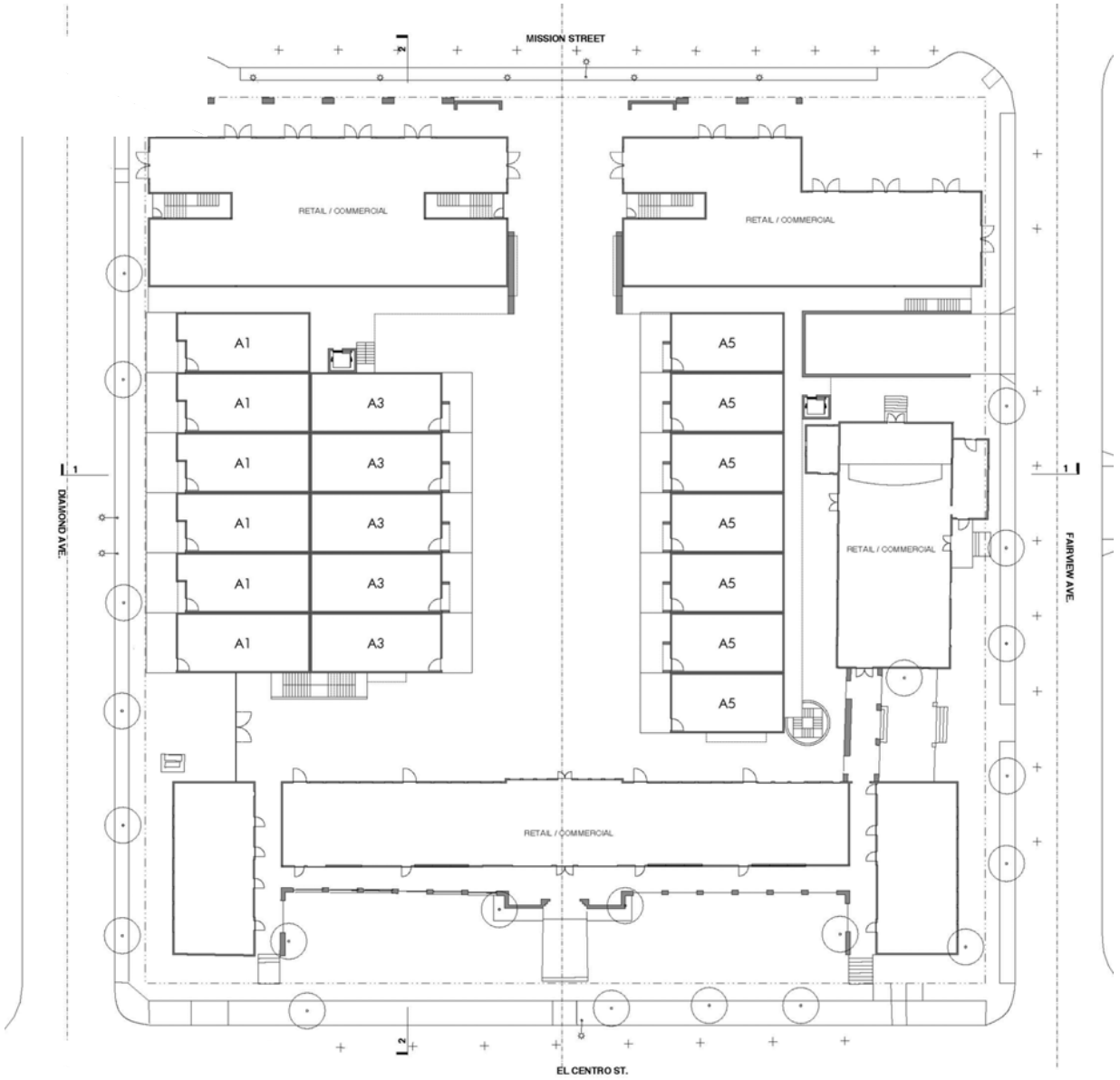
a) Driveway Analysis: The study will include a review the proposed site plan and provide recommendations regarding site access and circulation, including the location of the driveway, parking circulation, potential turn restrictions, pedestrian circulation, etc.

b) Signal Warrant Analysis: The Transportation Study will provide an analysis to determine if a traffic signal is warranted at any of the adjacent unsignalized intersections or at the Project driveway(s) per the guidelines set forth in *California Manual on Uniform Traffic Control Devices, 2014 Edition, Revision 6* (California Department of Transportation, 2021*).*

c) Queuing Analysis: The HCM analysis will be used to assess queue lengths at key turning pockets and adjacent intersections. Recommendations to reduce the potential for queuing onto public streets will be included in the Transportation Study, if needed.

Approved by:

City of South Pasadena Date



Srouce: GANGI Architects. December, 2021.

N
Not to Scale

PROJECT SITE PLAN

FIGURE 1



STUDY AREA & ANALYZED INTERSECTIONS

FIGURE 2

TABLE 1
FAIRVIEW COURT PROJECT
TRIP GENERATION

Land Use	ITE Land Use	Rate	Daily	Morning Peak Hour			Afternoon Peak Hour		
				In	Out	Total	In	Out	Total
TRIP GENERATION RATES [a]									
Multi-Family Housing (Mid-Rise)	221	per du	5.44	26%	74%	0.36	61%	39%	0.44
Shopping Center	820	per ksf	37.75	62%	38%	0.94	48%	52%	3.81
High-Turnover (Sit-Down) Restaurant	932	per ksf	112.18	55%	45%	9.94	62%	38%	9.77
General Office Building	710	per ksf	9.74	86%	14%	1.16	16%	84%	1.15
MIXED-USE INTERNAL CAPTURE [b]									
Residential	221	108 du	27%	10%	21%	18%	38%	32%	35%
Retail	820	11.016 ksf	34%	0%	25%	10%	60%	55%	57%
Restaurant	932	11.016 ksf	15%	12%	2%	7%	15%	37%	23%
TRIP GENERATION ESTIMATES									
Proposed Project									
Multi-Family Housing (Mid-Rise)	221	108 du	588	10	29	39	29	19	48
Internal Capture Reduction [b]			*-156*	*-1*	*-6*	*-7*	*-11*	*-6*	*-17*
Transit/Walk-In Reduction - 15% [c]			*-65*	*-1*	*-3*	*-4*	*-3*	*-2*	*-5*
Shopping Center (Retail)	820	11.016 ksf	416	6	4	10	20	22	42
Internal Capture Reduction [b]			*-139*	*0*	*-1*	*-1*	*-12*	*-12*	*-24*
Transit/Walk-In Reduction - 15% [c]			*-42*	*-1*	*0*	*-1*	*-1*	*-2*	*-3*
High-Turnover (Sit-Down) Restaurant	932	11.016 ksf	1,236	60	49	109	67	41	108
Internal Capture Reduction [b]			*-185*	*-7*	*-1*	*-8*	*-10*	*-15*	*-25*
Transit/Walk-In Reduction - 15% [c]			*-158*	*-8*	*-7*	*-15*	*-9*	*-4*	*-13*
TOTAL - PROPOSED			**1,495**	**58**	**64**	**122**	**70**	**41**	**111**
Existing Uses to be Removed									
Office (School Administrative Building)	710	11.435 ksf	111	11	2	13	2	11	13
Transit/Walk-In Adjustment - 15% [c]			*-17*	*-2*	*0*	*-2*	*0*	*-2*	*-2*
TOTAL - EXISTING TO BE REMOVED			***94***	***9***	***2***	***11***	***2***	***9***	***11***
TOTAL - NET NEW PROJECT TRIPS			**1,401**	**49**	**62**	**111**	**68**	**32**	**100**

Notes:

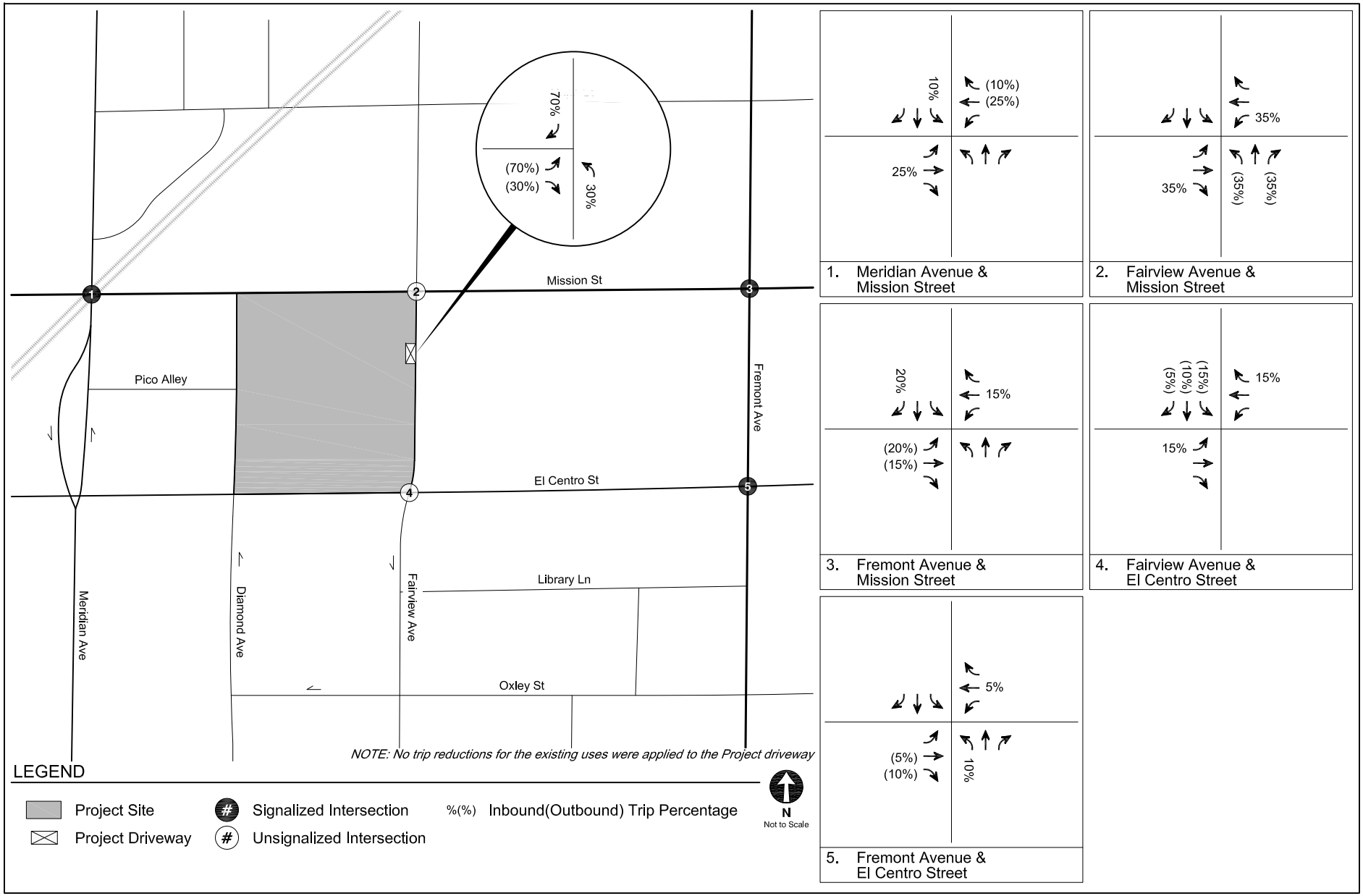
du: dwelling unit; ksf: 1,000 square feet

The Project commercial component may comprise of other uses not currently listed in this Table. The trip generation would be updated accordingly to reflect any changes.

[a] Trip generation rates are from *Trip Generation Manual, 10th Edition* (Institute of Transportation Engineers [ITE], 2017) and are based on developments located in "General Urban/Suburban" area.

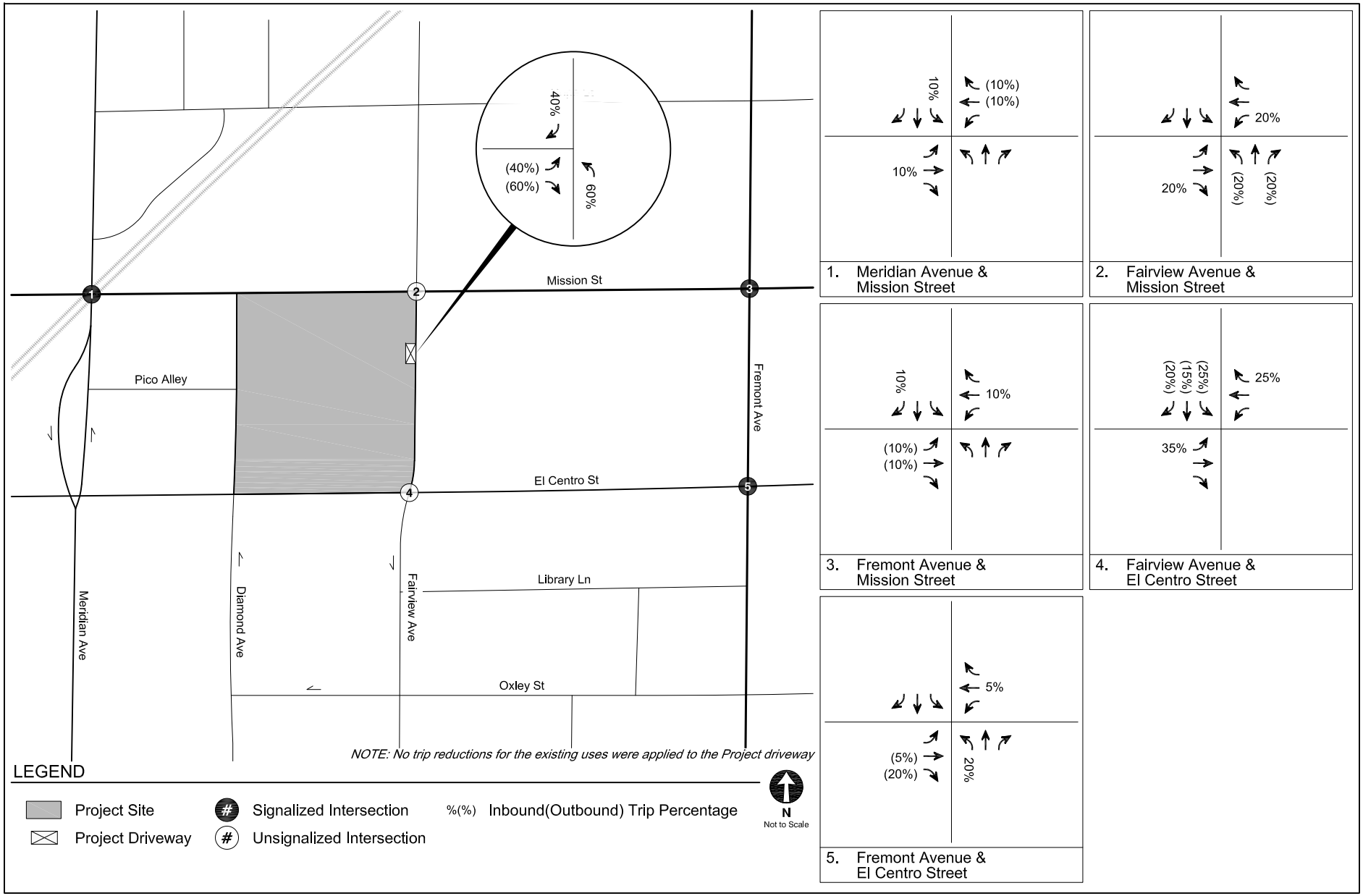
[b] Internal capture reductions account for person trips made between distinct land uses within a mixed-use development without using an off-site road system, per the NCHRP 8-51 Internal Trip Capture Estimation Tool (*National Cooperative Highway Research Program Report 684 – Enhancing Internal Trip Capture Estimation for Mixed-Use Developments* , Transportation Research Board and National Research Council, 2011).

[c] The Project Site is located within 400 feet of a major transit station (Metro L Line South Pasadena Station), thus a 15% transit/walk-in reduction was applied to account for transit usage and walking visitor arrivals from the surrounding neighborhoods and adjacent commercial developments.



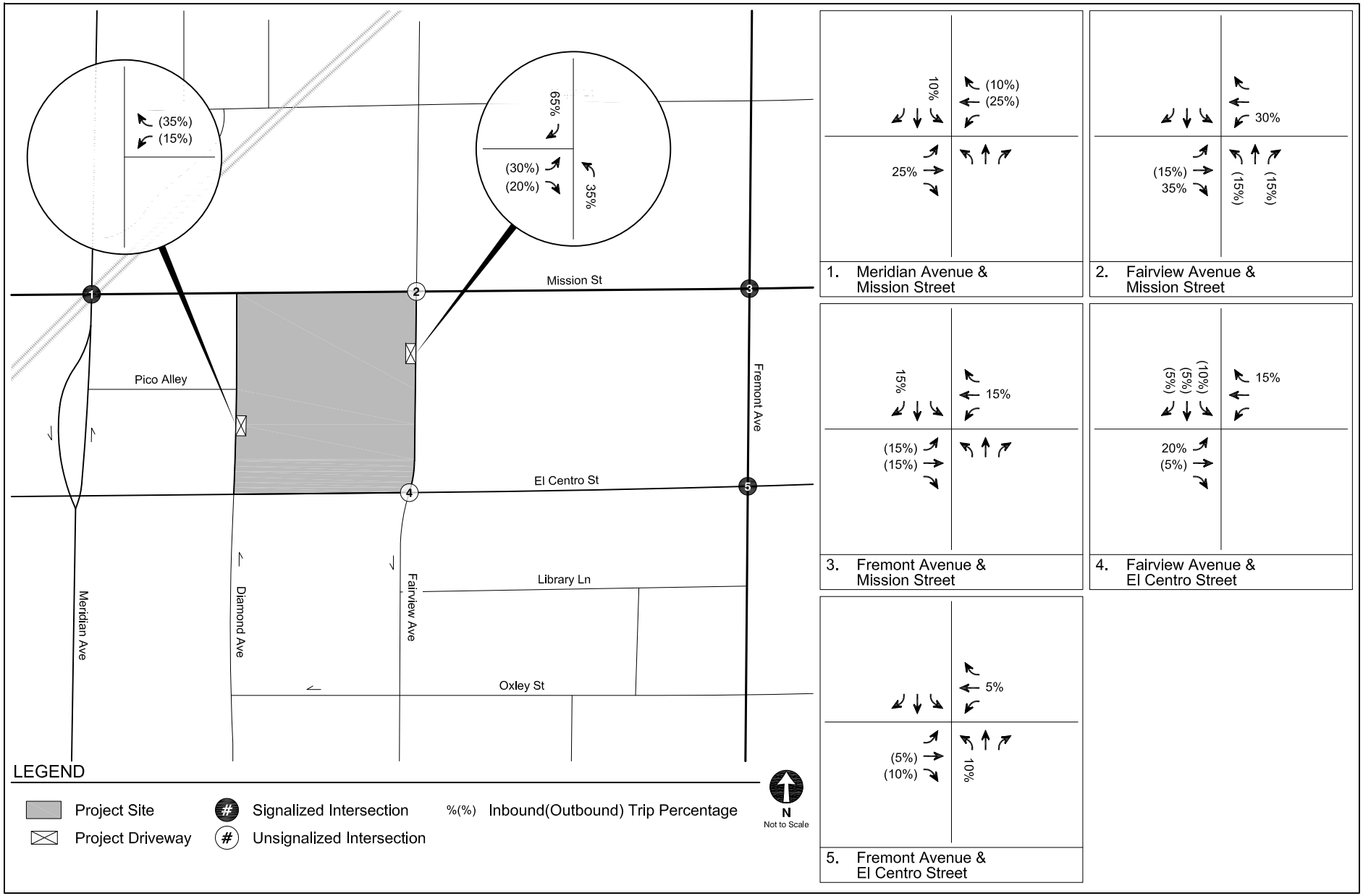
PROJECT TRIP DISTRIBUTION
RESIDENTIAL

FIGURE
3A



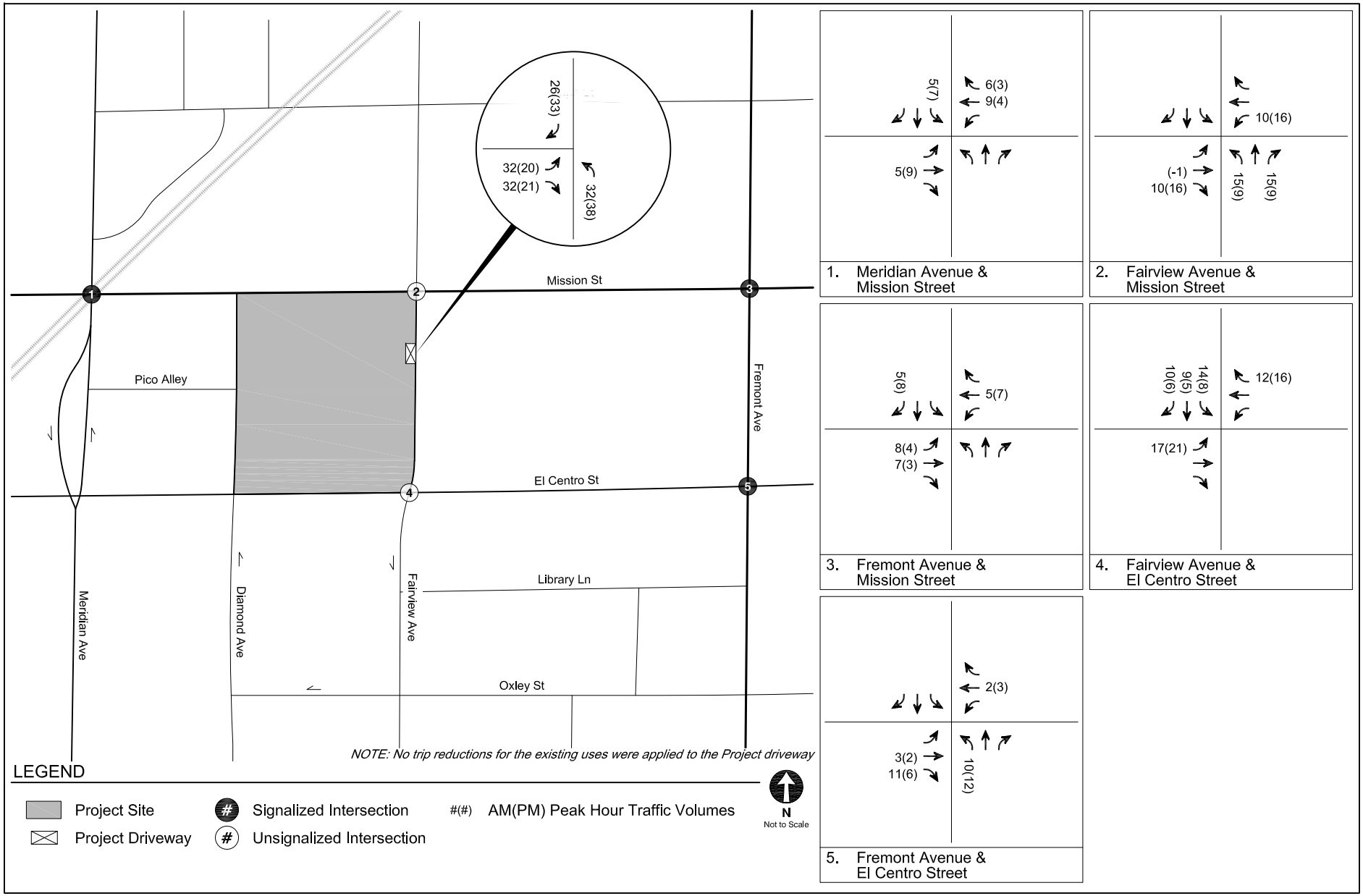
PROJECT TRIP DISTRIBUTION
COMMERCIAL

FIGURE
3B



EXISTING TRIP DISTRIBUTION
OFFICE

FIGURE
4



NET NEW PROJECT-ONLY
PEAK HOUR TRAFFIC VOLUMES

FIGURE
5

Internal Capture Worksheets

NCHRP 8-51 Internal Trip Capture Estimation Tool			
Project Name:	Fairview Court Project	**Organization:**	GTC
Project Location:	1020 El Centro Street	**Performed By:**	
Scenario Description:	Proposed Project	**Date:**	7-Dec-21
Analysis Year:		**Checked By:**	
Analysis Period:	**AM Street Peak Hour**	**Date:**	

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (*For Information Only*)			Estimated Vehicle-Trips		
	ITE LUCs[1]	Quantity	Units	Total	Entering	Exiting
Office				0		
Retail	820	11,016	sf	10	6	4
Restaurant	932	11,016	sf	109	60	49
Cinema/Entertainment				0		
Residential	221	108	du	39	10	29
Hotel				0		
All Other Land Uses[2]				0		
Total				158	76	82

Table 2-A: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.	% Transit	% Non-Motorized	Veh. Occ.	% Transit	% Non-Motorized
Office						
Retail	1.00	15%		1.00	15%	
Restaurant	1.00	15%		1.00	15%	
Cinema/Entertainment	1.00	15%		1.00	15%	
Residential	1.00	15%		1.00	15%	
Hotel						
All Other Land Uses[2]						

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-A: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		1	0	0	0
Restaurant	0	0		0	1	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	0	6	0		0
Hotel	0	0	0	0	0	

Table 5-A: Computations Summary

	Total	Entering	Exiting
All Person-Trips	158	76	82
Internal Capture Percentage	10%	11%	10%
External Vehicle-Trips[3]	122	58	64
External Transit-Trips[4]	20	10	10
External Non-Motorized Trips[4]	0	0	0

Table 6-A: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	N/A	N/A
Retail	0%	25%
Restaurant	12%	2%
Cinema/Entertainment	N/A	N/A
Residential	10%	21%
Hotel	N/A	N/A

[1]Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

[2]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

[3]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

[4]Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Project Name:	Fairview Court Project
Analysis Period:	**AM Street Peak Hour**

Table 7-A: Conversion of Vehicle-Trip Ends to Person-Trip Ends

Land Use	Table 7-A (D): Entering Trips			Table 7-A (O): Exiting Trips		
	Veh. Occ.	Vehicle-Trips	Person-Trips*	Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.00	0	0	1.00	0	0
Retail	1.00	6	6	1.00	4	4
Restaurant	1.00	60	60	1.00	49	49
Cinema/Entertainment	1.00	0	0	1.00	0	0
Residential	1.00	10	10	1.00	29	29
Hotel	1.00	0	0	1.00	0	0

Table 8-A (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	1		1	0	1	0
Restaurant	15	7		0	2	1
Cinema/Entertainment	0	0	0		0	0
Residential	1	0	6	0		0
Hotel	0	0	0	0	0	

Table 8-A (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		2	14	0	0	0
Retail	0		30	0	0	0
Restaurant	0	0		0	1	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	1	12	0		0
Hotel	0	0	4	0	0	

Table 9-A (D): Internal and External Trips Summary (Entering Trips)

Destination Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	0	6	6	5	1	0
Restaurant	7	53	60	45	8	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	1	9	10	8	1	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

Table 9-A (O): Internal and External Trips Summary (Exiting Trips)

Origin Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	1	3	4	3	0	0
Restaurant	1	48	49	41	7	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	6	23	29	20	3	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

[1]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

[2]Person-Trips

[3]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 8-51 Internal Trip Capture Estimation Tool			
Project Name:	Fairview Court Project	**Organization:**	GTC
Project Location:	1020 El Centro Street	**Performed By:**	
Scenario Description:	Proposed Project	**Date:**	7-Dec-21
Analysis Year:		**Checked By:**	
Analysis Period:	**PM Street Peak Hour**	**Date:**	

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (*For Information Only*)			Estimated Vehicle-Trips		
	ITE LUCs[1]	Quantity	Units	Total	Entering	Exiting
Office				0		
Retail	820	11,016	sf	42	20	22
Restaurant	932	11,016	sf	108	67	41
Cinema/Entertainment				0		
Residential	221	108	du	48	29	19
Hotel				0		
All Other Land Uses[2]				0		
Total				198	116	82

Table 2-P: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.	% Transit	% Non-Motorized	Veh. Occ.	% Transit	% Non-Motorized
Office						
Retail	1.00	15%		1.00	15%	
Restaurant	1.00	15%		1.00	15%	
Cinema/Entertainment	1.00	15%		1.00	15%	
Residential	1.00	15%		1.00	15%	
Hotel						
All Other Land Uses[2]						

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-P: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		6	0	6	0
Restaurant	0	10		0	5	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	2	4	0		0
Hotel	0	0	0	0	0	

Table 5-P: Computations Summary

	Total	Entering	Exiting
All Person-Trips	198	116	82
Internal Capture Percentage	33%	28%	40%
External Vehicle-Trips[3]	111	70	41
External Transit-Trips[4]	21	13	8
External Non-Motorized Trips[4]	0	0	0

Table 6-P: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	N/A	N/A
Retail	60%	55%
Restaurant	15%	37%
Cinema/Entertainment	N/A	N/A
Residential	38%	32%
Hotel	N/A	N/A

[1]Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

[2]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

[3]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

[4]Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Project Name:	Fairview Court Project
Analysis Period:	**PM Street Peak Hour**

Table 7-P: Conversion of Vehicle-Trip Ends to Person-Trip Ends

Land Use	Table 7-P (D): Entering Trips			Table 7-P (O): Exiting Trips		
	Veh. Occ.	Vehicle-Trips	Person-Trips*	Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.00	0	0	1.00	0	0
Retail	1.00	20	20	1.00	22	22
Restaurant	1.00	67	67	1.00	41	41
Cinema/Entertainment	1.00	0	0	1.00	0	0
Residential	1.00	29	29	1.00	19	19
Hotel	1.00	0	0	1.00	0	0

Table 8-P (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		6	1	6	1
Restaurant	1	17		3	7	3
Cinema/Entertainment	0	0	0		0	0
Residential	1	8	4	0		1
Hotel	0	0	0	0	0	

Table 8-P (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		2	1	0	1	0
Retail	0		19	0	13	0
Restaurant	0	10		0	5	0
Cinema/Entertainment	0	1	2		1	0
Residential	0	2	9	0		0
Hotel	0	0	3	0	0	

Table 9-P (D): Internal and External Trips Summary (Entering Trips)

Destination Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	12	8	20	7	1	0
Restaurant	10	57	67	48	9	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	11	18	29	15	3	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

Table 9-P (O): Internal and External Trips Summary (Exiting Trips)

Origin Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	12	10	22	8	2	0
Restaurant	15	26	41	22	4	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	6	13	19	11	2	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

[1]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

[2]Person-Trips

[3]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.

Appendix B

Traffic Volume Data

APPENDIX B
TRAFFIC VOLUME WORKSHEET
ADJUSTMENT TO PRE-COVID-19 CONDITIONS

Morning Peak Hour			1	2	3	4	5	6	7	8	9	10	11	12	
N/S Street	E/W Street	Count Year	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	Total
Meridian Ave	Mission St	2021	2	60	24	45	277	6	13	121	39	34	284	7	912
		2016	5	77	10	41	280	6	12	95	68	53	298	6	951
					Comparison	2016 count factored to 2021 @ 1%/yr				999	factored 2021 to actual 2021 count ratio:				1.095
Fremont Ave	Mission St	2021	13	483	70	56	232	32	34	638	65	60	222	39	1944
		2016	24	454	61	95	291	36	24	670	71	72	208	41	2047
					Comparison	2016 count factored to 2021 @ 1%/yr				2149	factored 2021 to actual 2021 count ratio:				1.105
Meridian Ave	El Centro St	2021	9	88	7	23	99	11	25	142	67	91	114	16	692
		2020	6	148	16	39	161	27	51	189	103	147	124	14	1025
					Comparison	2020 count factored to 2021 @ 1%/yr				1035	factored 2021 to actual 2021 count ratio:				1.496
														Average factored 2021 to actual 2021 count ratio:	1.232
														Morning Peak Hour Adjustment Factor:	**1.23**

Afternoon Peak Hour			1	2	3	4	5	6	7	8	9	10	11	12	
N/S Street	E/W Street	Count Year	SBR	SBT	SBL	WBR	WBT	WBL	NBR	NBT	NBL	EBR	EBT	EBL	Total
Meridian Ave	Mission St	2021	10	114	32	26	360	3	26	80	37	40	431	1	1160
		2016	10	107	30	28	309	5	16	82	37	50	433	0	1107
					Comparison	2016 count factored to 2021 @ 1%/yr				1162	factored 2021 to actual 2021 count ratio:				1.002
Fremont Ave	Mission St	2021	29	511	86	55	294	44	35	633	97	95	298	41	2218
		2016	33	589	117	67	273	48	23	631	93	111	305	53	2343
					Comparison	2016 count factored to 2021 @ 1%/yr				2460	factored 2021 to actual 2021 count ratio:				1.109
Meridian Ave	El Centro St	2021	6	134	16	35	69	35	32	100	50	76	66	9	628
		2020	10	171	23	39	109	36	43	111	56	137	124	4	863
					Comparison	2020 count factored to 2021 @ 1%/yr				872	factored 2021 to actual 2021 count ratio:				1.389
														Average factored 2021 to actual 2021 count ratio:	1.167
														Afternoon Peak Hour Adjustment Factor:	**1.17**

Turning Movement Count Report AM

Location ID: 1
North/South: Meridian Avenue
East/West: Mission Street

Date: 12/06/16
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	3	15	2	0	33	2	3	13	5	3	15	1	95
7:15	0	13	0	7	37	1	1	17	4	6	40	0	126
7:30	1	20	5	9	72	1	2	26	16	10	56	1	219
7:45	0	20	2	13	69	0	2	29	18	15	71	0	239
8:00	1	13	5	5	89	0	4	19	15	17	76	1	245
8:15	1	14	0	10	69	4	3	24	12	14	91	3	245
8:30	3	30	3	13	53	2	3	23	23	7	60	2	222
8:45	1	19	1	8	64	0	1	25	9	17	68	1	214
9:00	1	22	3	12	65	2	6	29	10	15	70	1	236
9:15	0	11	4	8	49	0	5	10	7	7	61	0	162
9:30	3	7	5	5	37	1	5	16	3	3	68	0	153
9:45	1	5	4	5	42	3	4	17	2	3	60	0	146

Total Volume:	15	189	34	95	679	16	39	248	124	117	736	10	2302
Approach %	6%	79%	14%	12%	86%	2%	9%	60%	30%	14%	85%	1%	

Peak Hr Begin:	7:45												
PHV	5	77	10	41	280	6	12	95	68	53	298	6	951
PHF	0.639			0.870			0.893			0.826			0.970

Turning Movement Count Report PM

Location ID: 1
North/South: Meridian Avenue
East/West: Mission Street

Date: 12/06/16
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
15:00	3	18	5	8	92	2	5	24	9	20	112	2	300
15:15	1	13	8	12	78	3	8	13	9	15	98	1	259
15:30	2	11	4	4	85	1	2	15	14	19	95	0	252
15:45	2	12	2	8	60	1	4	14	16	10	88	1	218
16:00	4	16	7	7	87	0	7	14	7	8	80	1	238
16:15	2	25	12	1	75	3	4	15	10	12	103	0	262
16:30	0	17	5	8	68	1	9	23	8	8	87	1	235
16:45	0	17	7	4	74	2	6	21	12	13	97	0	253
17:00	6	31	6	9	78	0	2	25	5	18	108	0	288
17:15	3	28	7	9	81	0	1	19	8	8	114	0	278
17:30	1	29	5	4	65	3	7	17	11	13	87	0	242
17:45	0	19	12	6	85	2	6	21	13	11	124	0	299

Total Volume:	24	236	80	80	928	18	61	221	122	155	1193	6	3124
Approach %	7%	69%	24%	8%	90%	2%	15%	55%	30%	11%	88%	0%	

Peak Hr Begin:	17:00												
PHV	10	107	30	28	309	5	16	82	37	50	433	0	1107
PHF	0.855			0.919			0.844			0.894			0.926

Pedestrian/Bicycle Count Report

	North		East		South		West	
Leg:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	2	0	5	0	11	1	10	0
7:15	4	0	6	0	13	0	13	0
7:30	4	1	4	0	23	0	8	0
7:45	1	0	5	1	30	1	15	0
8:00	4	0	9	0	19	1	11	0
8:15	2	0	6	0	16	0	17	1
8:30	6	0	6	0	13	1	6	0
8:45	17	0	13	0	17	1	14	0
9:00	4	0	10	0	15	2	11	0
9:15	10	0	5	0	11	0	6	0
9:30	2	0	3	0	11	0	5	0
9:45	4	0	4	0	11	0	4	0

	North		East		South		West	
Leg:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
15:00	13	0	12	0	18	0	0	0
15:15	8	0	16	0	30	0	6	0
15:30	5	0	13	0	24	0	2	0
15:45	6	0	6	0	13	0	5	0
16:00	3	0	10	0	15	0	8	0
16:15	4	0	15	0	24	0	6	0
16:30	6	0	6	0	25	1	6	0
16:45	4	0	12	0	35	1	7	0
17:00	5	0	11	0	28	1	4	0
17:15	1	0	4	0	30	0	7	0
17:30	4	0	9	0	24	0	1	0
17:45	4	0	9	0	35	0	7	0

Turning Movement Count Report AM

Location ID: 3
North/South: Fairview Ave
East/West: Mission Street

Date: 10/12/21
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	0	0	0	2	38	2	3	1	0	0	17	1	64
7:15	0	1	0	1	39	3	2	0	0	2	46	1	95
7:30	1	3	6	3	57	1	2	0	1	2	53	1	130
7:45	3	4	5	1	76	9	4	0	3	5	83	4	197
8:00	2	2	1	5	78	6	2	1	0	5	84	2	188
8:15	3	0	2	3	66	5	5	0	0	6	73	11	174
8:30	3	0	1	6	81	0	0	0	0	3	72	3	169
8:45	4	0	1	4	67	2	8	1	1	7	82	6	183
Total Volume:	16	10	16	25	502	28	26	3	5	30	510	29	1200
Approach %	38%	24%	38%	5%	90%	5%	76%	9%	15%	5%	90%	5%	
Peak Hr Begin:	7:45												
PHV	11	6	9	15	301	20	11	1	3	19	312	20	728
PHF	0.542			0.944			0.536			0.954			0.924

Turning Movement Count Report PM

Location ID: 3
North/South: Fairview Ave
East/West: Mission Street

Date: 10/12/21
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	5	0	2	9	76	8	2	1	1	1	99	7	211
16:15	2	2	1	6	82	7	6	1	0	7	81	4	199
16:30	2	3	1	5	68	10	6	0	1	3	102	7	208
16:45	3	2	3	8	87	5	7	0	2	8	77	7	209
17:00	5	2	3	5	95	5	7	0	1	8	107	6	244
17:15	7	2	4	6	78	5	0	2	0	5	127	8	244
17:30	4	2	4	5	108	5	2	0	0	5	106	3	244
17:45	3	5	1	6	87	3	6	0	1	1	105	3	221
Total Volume:	31	18	19	50	681	48	36	4	6	38	804	45	1780
Approach %	46%	26%	28%	6%	87%	6%	78%	9%	13%	4%	91%	5%	
Peak Hr Begin:	17:00												
PHV	19	11	12	22	368	18	15	2	2	19	445	20	953
PHF	0.808			0.864			0.594			0.864			0.976

Pedestrian/Bicycle Count Report

Location ID: 3
North/South: Fairview Ave
East/West: Mission Street

Date: 10/12/21
City: South Pasadena, CA

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
7:00	5	0	0	0	4	0	4	0
7:15	1	0	0	0	4	0	1	0
7:30	4	0	1	0	9	0	1	0
7:45	6	0	0	0	7	1	8	0
8:00	5	0	0	0	4	0	1	0
8:15	5	0	0	0	6	0	1	0
8:30	1	0	0	0	7	0	0	0
8:45	6	0	0	0	4	0	4	0

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
16:00	3	0	0	0	30	0	9	0
16:15	7	0	0	0	18	0	6	0
16:30	15	0	0	0	18	0	5	0
16:45	7	0	0	0	4	0	7	0
17:00	4	0	1	0	8	0	4	0
17:15	5	0	0	0	17	0	4	0
17:30	15	0	1	0	18	0	8	0
17:45	12	0	0	0	7	0	3	0

Turning Movement Count Report AM

Location ID: 2
North/South: Mission Street
East/West: Fremont Avenue

Date: 12/06/16
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	0	157	7	8	29	2	1	154	15	8	14	4	399
7:15	2	117	11	9	38	10	3	178	11	9	29	6	423
7:30	4	111	13	28	70	16	7	169	7	18	55	9	507
7:45	5	116	15	22	86	9	7	171	25	12	57	15	540
8:00	6	101	17	23	79	7	5	156	25	21	51	6	497
8:15	9	126	16	22	56	4	5	174	14	21	45	11	503
8:30	7	111	12	14	58	9	4	174	16	19	32	5	461
8:45	5	125	18	20	74	8	11	158	19	23	44	5	510
9:00	11	126	21	16	56	10	11	150	17	20	52	10	500
9:15	4	105	13	13	36	2	6	162	15	17	50	11	434
9:30	5	113	20	21	44	7	5	147	12	26	51	9	460
9:45	5	97	24	13	48	11	6	129	13	19	44	9	418
Total Volume:	63	1405	187	209	674	95	71	1922	189	213	524	100	5652
Approach %	4%	85%	11%	21%	69%	10%	3%	88%	9%	25%	63%	12%	
Peak Hr Begin:	7:30												
PHV	24	454	61	95	291	36	24	670	71	72	208	41	2047
PHF	0.892			0.902			0.942			0.955			0.948

Prepared by City Count, LLC. (www.citycount.com)

Turning Movement Count Report PM

Location ID: 2
North/South: Mission Street
East/West: Fremont Avenue

Date: 12/06/16
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
15:00	5	108	25	14	87	21	7	125	23	32	82	21	550
15:15	3	113	20	18	76	18	8	168	22	38	68	13	565
15:30	10	137	16	14	80	8	6	149	18	28	61	10	537
15:45	11	141	23	22	69	14	6	149	27	28	60	10	560
16:00	6	143	18	20	77	17	8	160	17	28	68	12	574
16:15	4	120	24	8	70	8	8	161	16	35	83	12	549
16:30	4	126	31	15	64	9	7	150	32	29	69	10	546
16:45	11	151	31	15	67	13	5	171	15	24	79	16	598
17:00	7	129	23	17	77	13	4	140	27	24	74	14	549
17:15	10	155	31	17	64	7	5	150	26	40	83	14	602
17:30	5	154	32	18	65	15	9	170	25	23	69	9	594
17:45	6	143	24	11	76	14	5	163	21	27	88	14	592

Total Volume:	82	1620	298	189	872	157	78	1856	269	356	884	155	6816
Approach %	4%	81%	15%	16%	72%	13%	4%	84%	12%	26%	63%	11%	

Peak Hr Begin:	16:45												
PHV	33	589	117	67	273	48	23	631	93	111	305	53	2343
PHF	0.943			0.907			0.915			0.856			0.973

Prepared by City Count, LLC. (www.citycount.com)

Pedestrian/Bicycle Count Report

	North		East		South		West	
Leg:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	1	0	1	0	8	0	0	0
7:15	4	0	2	0	8	0	0	0
7:30	5	1	4	0	13	2	2	0
7:45	5	1	0	0	10	0	0	0
8:00	10	0	3	0	11	0	0	0
8:15	0	0	2	0	9	0	0	0
8:30	9	0	3	0	5	0	2	0
8:45	9	0	3	0	6	0	1	0
9:00	10	0	6	0	9	0	5	0
9:15	4	0	0	0	0	0	0	0
9:30	4	0	2	0	8	0	0	0
9:45	4	0	3	0	2	0	0	0

	North		East		South		West	
Leg:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
15:00	16	0	9	0	3	0	2	0
15:15	10	0	14	0	19	0	6	0
15:30	9	0	5	0	14	0	2	1
15:45	5	0	2	0	5	1	3	0
16:00	7	1	0	0	6	0	2	0
16:15	20	0	9	2	13	0	4	1
16:30	5	0	3	0	9	0	2	0
16:45	11	0	6	0	17	0	1	0
17:00	3	0	4	0	20	0	2	0
17:15	8	0	4	0	6	0	0	0
17:30	9	0	6	0	19	0	1	0
17:45	9	0	6	0	12	0	0	0

Turning Movement Count Report AM

Location ID: 7
North/South: Fairview Ave
East/West: El Centro Street

Date: 10/12/21
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	1	0	0	1	7	0	0	0	0	2	9	2	22
7:15	1	3	1	0	4	1	0	0	0	1	6	1	18
7:30	0	9	0	1	0	5	0	0	0	3	19	1	38
7:45	4	9	3	2	31	3	0	0	0	4	18	5	79
8:00	4	3	3	2	26	1	0	0	0	6	45	5	95
8:15	0	3	3	0	8	1	0	0	0	3	30	4	52
8:30	1	3	4	1	7	3	0	0	0	1	12	1	33
8:45	0	4	0	2	9	4	0	0	0	2	24	9	54

Total Volume:	11	34	14	9	92	18	0	0	0	22	163	28	391
Approach %	19%	58%	24%	8%	77%	15%	0%	0%	0%	10%	77%	13%	

Peak Hr Begin:	7:30												
PHV	8	24	9	5	65	10	0	0	0	16	112	15	264
PHF	0.641			0.556			0.000			0.638			0.695

Turning Movement Count Report PM

Location ID: 7
North/South: Fairview Ave
East/West: El Centro Street

Date: 10/12/21
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	1	2	4	3	11	8	0	0	0	8	32	1	70
16:15	1	10	1	3	27	4	0	0	0	7	33	5	91
16:30	5	10	4	2	17	4	0	0	0	12	31	2	87
16:45	6	5	3	5	18	5	0	0	0	13	24	3	82
17:00	2	7	8	3	18	2	0	0	0	11	32	5	88
17:15	2	7	2	4	8	9	0	0	0	4	25	0	61
17:30	0	8	1	1	20	1	0	0	0	12	32	1	76
17:45	2	7	3	4	18	4	0	0	0	8	25	4	75
Total Volume:	19	56	26	25	137	37	0	0	0	75	234	21	630
Approach %	19%	55%	26%	13%	69%	19%	0%	0%	0%	23%	71%	6%	
Peak Hr Begin:	16:15												
PHV	14	32	16	13	80	15	0	0	0	43	120	15	348
PHF	0.816			0.794			0.000			0.927			0.956

Pedestrian/Bicycle Count Report

Location ID: 7
North/South: Fairview Ave
East/West: El Centro Street

Date: 10/12/21
City: South Pasadena, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	1	0	1	0	1	0	5	0
7:15	5	0	2	0	3	0	0	0
7:30	3	0	9	0	3	0	1	0
7:45	3	0	2	0	8	0	8	0
8:00	3	0	2	0	1	0	2	0
8:15	6	0	2	0	9	0	2	0
8:30	0	0	0	0	1	0	1	0
8:45	4	0	1	0	7	0	4	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	2	0	3	0	5	0	2	0
16:15	4	1	3	0	4	0	0	0
16:30	4	1	6	1	4	0	0	0
16:45	6	0	1	0	3	0	0	0
17:00	8	0	3	0	5	0	4	0
17:15	2	1	2	1	9	0	2	0
17:30	14	0	3	0	7	0	5	0
17:45	7	0	2	0	6	0	3	0

Turning Movement Count Report AM

Location ID: 8
North/South: Fremont Ave
East/West: El Centro Street

Date: 10/12/21
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	2	116	1	2	4	4	1	163	1	2	6	2	304
7:15	1	137	2	2	4	5	3	177	3	0	5	3	342
7:30	2	164	0	2	4	2	0	167	2	3	8	5	359
7:45	6	164	4	8	26	1	4	175	12	3	12	8	423
8:00	8	116	2	12	20	5	5	188	9	4	30	11	410
8:15	3	109	0	7	11	5	8	169	6	3	19	16	356
8:30	1	135	3	1	10	7	6	149	7	4	6	5	334
8:45	4	142	3	3	8	5	7	174	2	7	13	6	374
Total Volume:	27	1083	15	37	87	34	34	1362	42	26	99	56	2902
Approach %	2%	96%	1%	23%	55%	22%	2%	95%	3%	14%	55%	31%	
Peak Hr Begin:	7:30												
PHV	19	553	6	29	61	13	17	699	29	13	69	40	1548
PHF	0.830			0.696			0.922			0.678			0.915

Turning Movement Count Report PM

Location ID: 8
North/South: Fremont Ave
East/West: El Centro Street

Date: 10/12/21
City: South Pasadena, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	5	156	6	8	17	13	10	147	3	8	19	12	404
16:15	3	147	7	11	27	7	5	167	6	4	20	10	414
16:30	5	135	5	6	17	11	14	149	4	3	25	15	389
16:45	2	164	8	12	20	9	14	172	5	4	13	14	437
17:00	1	155	6	15	19	6	11	187	4	5	21	11	441
17:15	5	162	4	7	12	10	6	177	5	5	18	6	417
17:30	4	135	6	6	15	5	3	171	6	4	20	11	386
17:45	5	157	3	5	18	4	4	155	7	3	18	7	386
Total Volume:	30	1211	45	70	145	65	67	1325	40	36	154	86	3274
Approach %	2%	94%	3%	25%	52%	23%	5%	93%	3%	13%	56%	31%	
Peak Hr Begin:	16:30												
PHV	13	616	23	40	68	36	45	685	18	17	77	46	1684
PHF	0.937			0.878			0.926			0.814			0.955

Prepared by City Count, LLC. (www.citycount.com)

Pedestrian/Bicycle Count Report

Location ID: 8
North/South: Fremont Ave
East/West: El Centro Street

Date: 10/12/21
City: South Pasadena, CA

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
7:00	0	0	2	0	0	1	2	0
7:15	3	0	1	0	2	1	1	0
7:30	4	0	2	0	5	2	0	0
7:45	4	0	1	0	3	1	5	0
8:00	2	0	2	0	3	0	1	0
8:15	2	0	0	0	5	0	3	0
8:30	3	0	0	1	0	0	1	0
8:45	2	0	0	0	3	2	3	0

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
16:00	3	1	5	0	5	1	2	1
16:15	1	0	1	1	4	0	3	0
16:30	3	0	6	0	11	0	11	0
16:45	4	0	2	0	5	0	8	1
17:00	2	0	2	0	5	1	14	0
17:15	2	1	3	0	13	1	8	0
17:30	4	0	5	1	4	0	2	0
17:45	6	0	1	0	4	0	4	0

Appendix C

Highway Capacity Manual Analysis Worksheets

MEMORANDUM OF UNDERSTANDING
DECEMBER 9, 2021

FAIRVIEW COURT PROJECT
SOUTH PASADENA, CA 91030

This memorandum of understanding (MOU) summarizes the assumptions guiding the transportation study for the Fairview Court Project located at 1020 El Centro Street in the City of South Pasadena (City). The MOU provides an outline of both the California Environmental Quality Act (CEQA) and non-CEQA transportation analyses in accordance with the City's *Transportation Impact Analysis Methodology Guidelines* (May 6, 2020) (TIA Guidelines) for review/concurrence by City staff.

PROJECT DESCRIPTION: The Project is a mixed-use development that includes the construction of up to 108 multi-family housing units, including 19 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium located along the southern and eastern boundary of the Project site as part of its proposed commercial space. The total commercial space would comprise of approximately 22,032 square feet of retail and restaurant uses. The Project would provide up to 256 automobile parking spaces with access via one driveway along Fairview Avenue. The existing surface parking lot would be removed to accommodate the development of the Project.

See Figure 1 for Project Site Plan and Figure 2 for Study Area and Analyzed Intersections.

PROJECT BUILDOUT YEAR: Anticipated to be complete and in operation by 2024

SCOPE OF CEQA TRANSPORTATION IMPACT ANALYSIS

This project qualifies for one or more exemptions from analysis under CEQA and its attendant regulations and guidelines[1]. Consistent with the TIA Guidelines, a limited scope local traffic screening assessment will be prepared to ratify the exemption(s) or determine if additional transportation impact analysis will be required. The limited scope screening will focus on whether or not (i) the project in combination with other successive projects of the same type in the same place will result in cumulative traffic impacts and (ii) whether there are unusual circumstances creating the reasonable possibility of significant traffic impacts.

SCOPE OF LOCAL TRAFFIC ASSESSMENT (NON-CEQA)

Per the TIA Guidelines, a local traffic assessment will be prepared as part of the Transportation Study and will be submitted to the Director of Public Works for review.[2]

---

[1] Per the authority of State law, including without limitation SB 35 (including Government Code Section 65913.4), Public Resources Code 21155.1 and CEQA Guidelines Sections 15183.3 and 15332.

[2] State law provides that impacts on the physical environment (including traffic impacts) are not an applicable basis for denying or reducing the density of this housing development project (e.g. SB 290).

Trip Generation, Distribution, and Assignment

The number of vehicle trips, including daily and morning and afternoon peak hour vehicle trips, expected to be generated by the Project, as well as the existing uses currently occupied on site was estimated using rates published in *Trip Generation Manual, 10th Edition*. Trip generation reductions were applied to account for internal capture within a mixed-use development and public transit usage/walking arrivals. As summarized in Table 1, the Project is anticipated to generate 1,401 net new daily trips, including 111 net new morning peak hour trips (49 inbound, 62 outbound) and 100 net new afternoon peak hour trips (68 inbound, 32 outbound).

Figures 3A and 3B illustrate the trip distribution patterns for the residential and commercial uses of the Project, respectively. The geographic distribution of trips generated by the Project is primarily dependent on the location of employment and commercial centers from which residents, employees and visitors of the Project would be drawn, characteristics of the street system serving the Project Site, existing intersection traffic volumes, and the location of the proposed driveway. Figure 4 illustrates the trip distribution pattern for the existing school administrative office use.

The Project and existing office use trip generation estimates summarized in Table 1 and the trip distribution patterns shown in Figures 3 and 4 were used to assign the Project-generated traffic and existing office use traffic, respectively. Figure 5 illustrates the net new Project-only traffic volumes during typical weekday morning and afternoon peak hours, accounting for the removal of the existing office use.

Study Locations

The following five study locations have been selected to determine the Project's operational local impact on the nearby street system:

1. Meridian Avenue & Mission Street (Signalized)
2. Fairview Avenue & Mission Street (Two-Way Stop-Controlled)
3. Fremont Avenue & Mission Street (Signalized)
4. Fairview Avenue & El Centro Street (All-Way Stop-Controlled)
5. Fremont Avenue & El Centro Street (Signalized)

Data Collection

New traffic count data collection will be conducted at the five study locations from 7 AM to 9 AM and 4 PM to 6 PM.

Cumulative Traffic Growth

Traffic to/from any potential cumulative developments within the City, in addition to any increase in traffic due to regional growth and development outside of the Study Area will be captured in the ambient growth factor of 1% per year.

Intersection Analysis Traffic Evaluation

The Transportation Study will analyze all study intersections using the *Highway Capacity Manual, 6th Edition* (Transportation Research Board, 2016) (HCM) methodology to obtain delay and the corresponding level of service (LOS) value. The following analysis scenarios will be evaluated:

- Existing (Year 2021)
- Existing with Project (Year 2021)
- Future without Project (Opening Year 2024)
- Future with Project (Opening Year 2024)

Based on the TIA Guidelines methodology, capacity calculations will be performed for each of the study intersections under the scenarios described above to allow the determination of the incremental local impact due to the proposed Project. If adverse operational impacts are determined to occur, physical and/or operational improvement measures to accommodate Project trips and reduce local impacts to less than adverse conditions will be identified.

Project Site Access Studies

The Transportation Study will review the site access and circulation, including signal warrant analysis and queues along roadways adjacent to the Project:

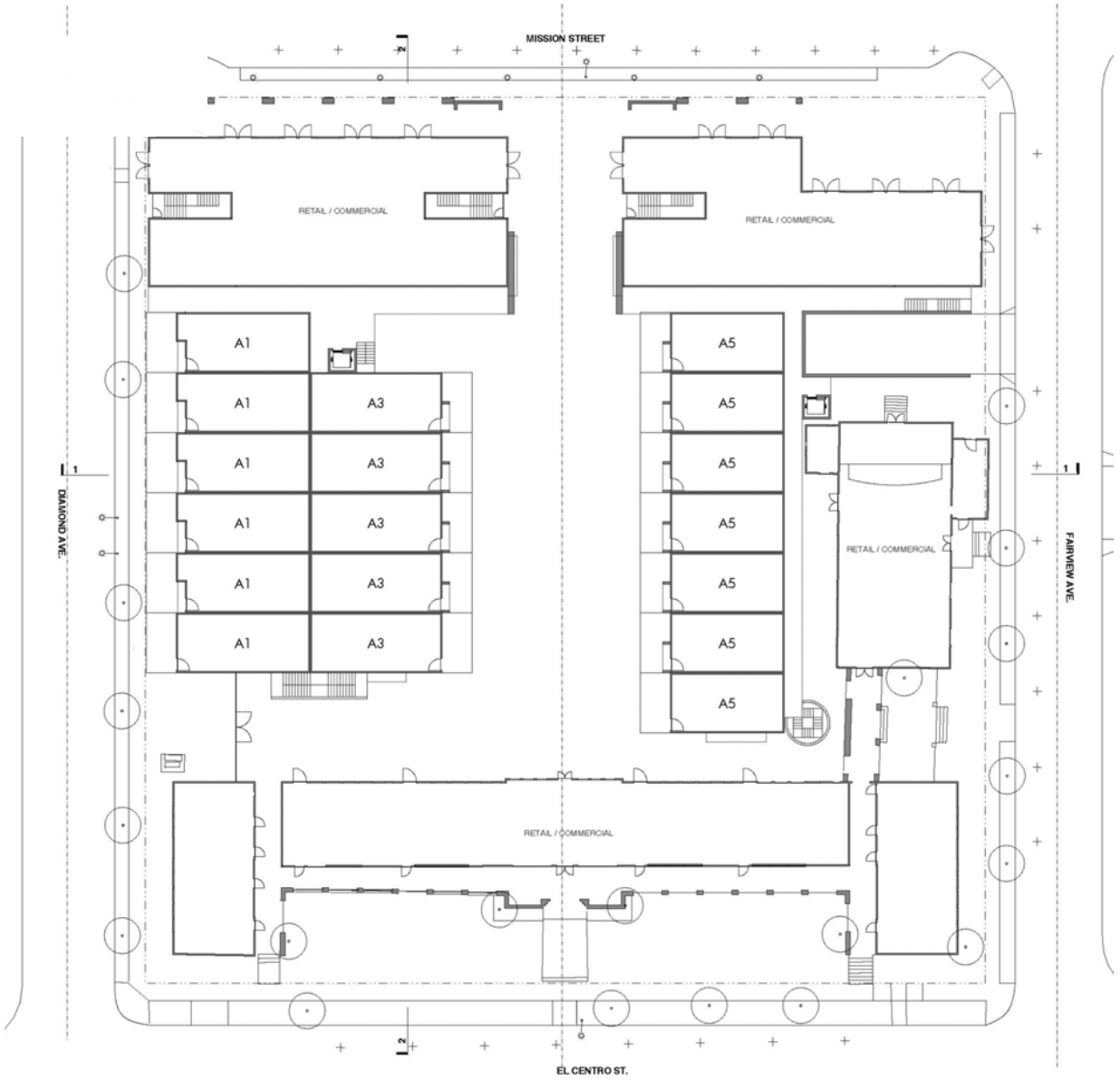
a) Driveway Analysis: The study will include a review the proposed site plan and provide recommendations regarding site access and circulation, including the location of the driveway, parking circulation, potential turn restrictions, pedestrian circulation, etc.

b) Signal Warrant Analysis: The Transportation Study will provide an analysis to determine if a traffic signal is warranted at any of the adjacent unsignalized intersections or at the Project driveway(s) per the guidelines set forth in *California Manual on Uniform Traffic Control Devices, 2014 Edition, Revision 6* (California Department of Transportation, 2021*).*

c) Queuing Analysis: The HCM analysis will be used to assess queue lengths at key turning pockets and adjacent intersections. Recommendations to reduce the potential for queuing onto public streets will be included in the Transportation Study, if needed.

Approved by:

City of South Pasadena Date



Srouce: GANGI Architects. December, 2021.

N
Not to Scale

PROJECT SITE PLAN

FIGURE 1



STUDY AREA & ANALYZED INTERSECTIONS

FIGURE 2

TABLE 1
FAIRVIEW COURT PROJECT
TRIP GENERATION

Land Use	ITE Land Use	Rate	Daily	Morning Peak Hour			Afternoon Peak Hour		
				In	Out	Total	In	Out	Total
TRIP GENERATION RATES [a]									
Multi-Family Housing (Mid-Rise)	221	per du	5.44	26%	74%	0.36	61%	39%	0.44
Shopping Center	820	per ksf	37.75	62%	38%	0.94	48%	52%	3.81
High-Turnover (Sit-Down) Restaurant	932	per ksf	112.18	55%	45%	9.94	62%	38%	9.77
General Office Building	710	per ksf	9.74	86%	14%	1.16	16%	84%	1.15
MIXED-USE INTERNAL CAPTURE [b]									
Residential	221	108 du	27%	10%	21%	18%	38%	32%	35%
Retail	820	11.016 ksf	34%	0%	25%	10%	60%	55%	57%
Restaurant	932	11.016 ksf	15%	12%	2%	7%	15%	37%	23%
TRIP GENERATION ESTIMATES									
Proposed Project									
Multi-Family Housing (Mid-Rise)	221	108 du	588	10	29	39	29	19	48
Internal Capture Reduction [b]			*-156*	*-1*	*-6*	*-7*	*-11*	*-6*	*-17*
Transit/Walk-In Reduction - 15% [c]			*-65*	*-1*	*-3*	*-4*	*-3*	*-2*	*-5*
Shopping Center (Retail)	820	11.016 ksf	416	6	4	10	20	22	42
Internal Capture Reduction [b]			*-139*	*0*	*-1*	*-1*	*-12*	*-12*	*-24*
Transit/Walk-In Reduction - 15% [c]			*-42*	*-1*	*0*	*-1*	*-1*	*-2*	*-3*
High-Turnover (Sit-Down) Restaurant	932	11.016 ksf	1,236	60	49	109	67	41	108
Internal Capture Reduction [b]			*-185*	*-7*	*-1*	*-8*	*-10*	*-15*	*-25*
Transit/Walk-In Reduction - 15% [c]			*-158*	*-8*	*-7*	*-15*	*-9*	*-4*	*-13*
TOTAL - PROPOSED			**1,495**	**58**	**64**	**122**	**70**	**41**	**111**
Existing Uses to be Removed									
Office (School Administrative Building)	710	11.435 ksf	111	11	2	13	2	11	13
Transit/Walk-In Adjustment - 15% [c]			*-17*	*-2*	*0*	*-2*	*0*	*-2*	*-2*
TOTAL - EXISTING TO BE REMOVED			***94***	***9***	***2***	***11***	***2***	***9***	***11***
TOTAL - NET NEW PROJECT TRIPS			**1,401**	**49**	**62**	**111**	**68**	**32**	**100**

Notes:

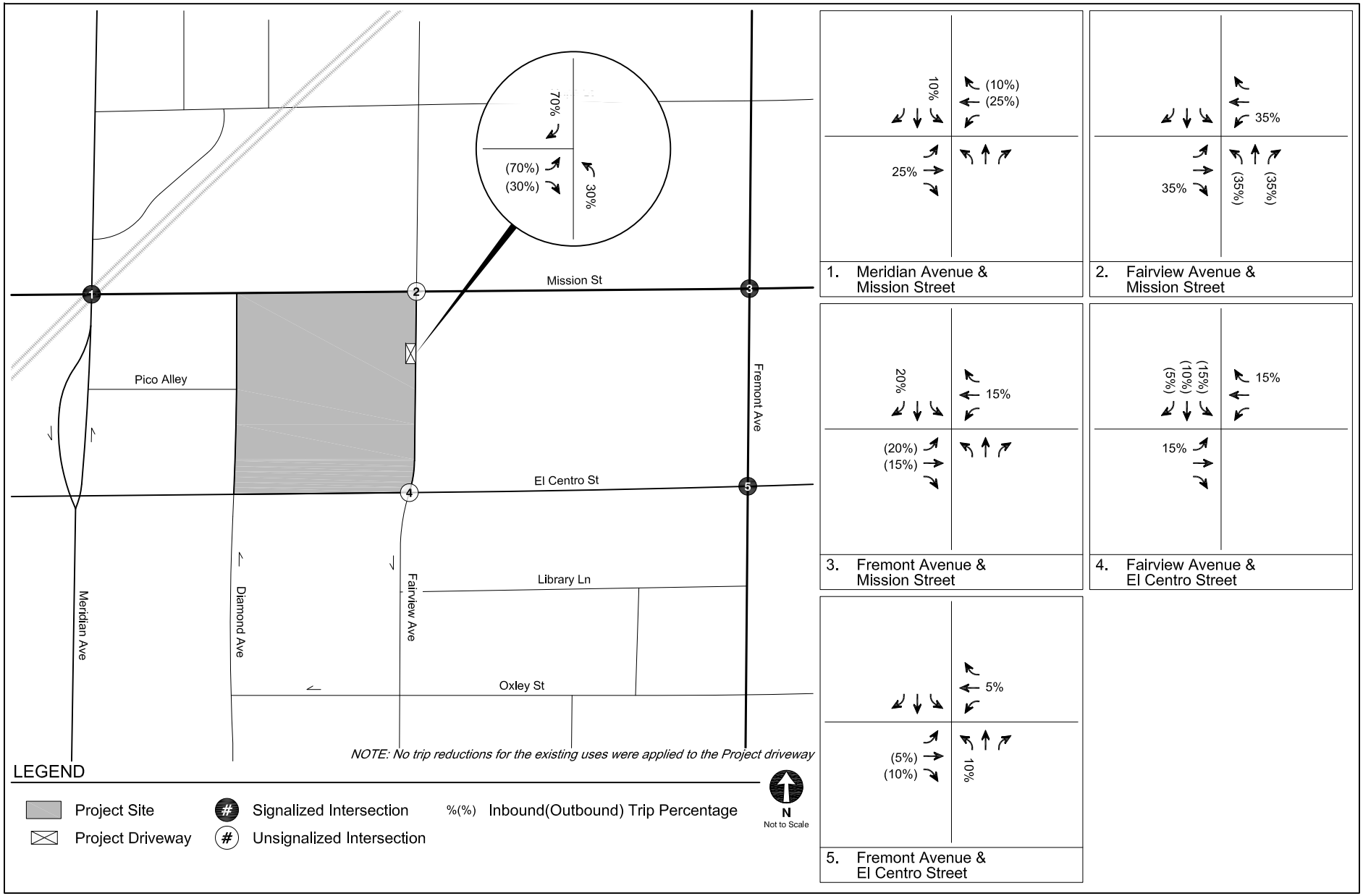
du: dwelling unit; ksf: 1,000 square feet

The Project commercial component may comprise of other uses not currently listed in this Table. The trip generation would be updated accordingly to reflect any changes.

[a] Trip generation rates are from *Trip Generation Manual, 10th Edition* (Institute of Transportation Engineers [ITE], 2017) and are based on developments located in "General Urban/Suburban" area.

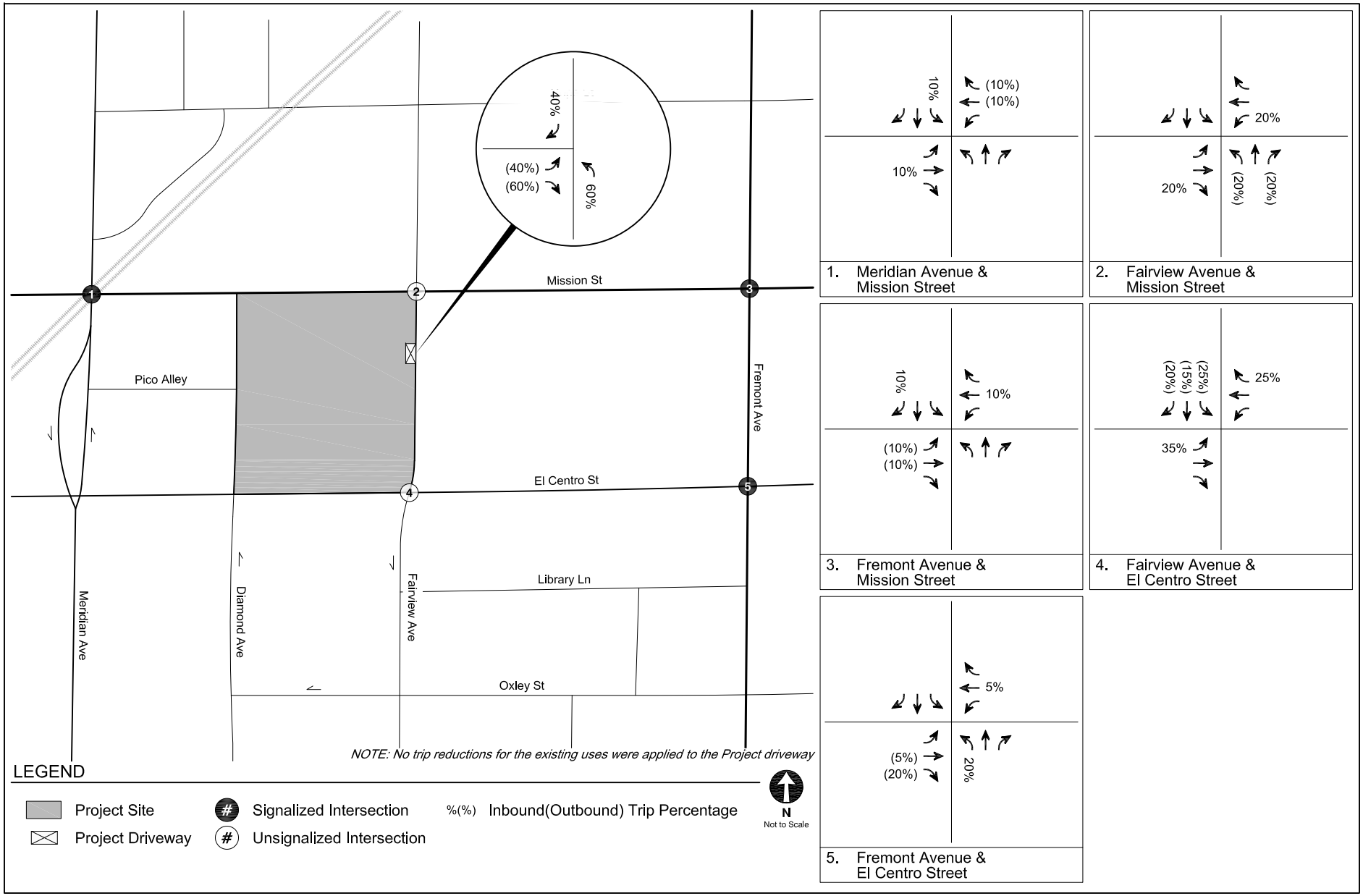
[b] Internal capture reductions account for person trips made between distinct land uses within a mixed-use development without using an off-site road system, per the NCHRP 8-51 Internal Trip Capture Estimation Tool (*National Cooperative Highway Research Program Report 684 – Enhancing Internal Trip Capture Estimation for Mixed-Use Developments* , Transportation Research Board and National Research Council, 2011).

[c] The Project Site is located within 400 feet of a major transit station (Metro L Line South Pasadena Station), thus a 15% transit/walk-in reduction was applied to account for transit usage and walking visitor arrivals from the surrounding neighborhoods and adjacent commercial developments.



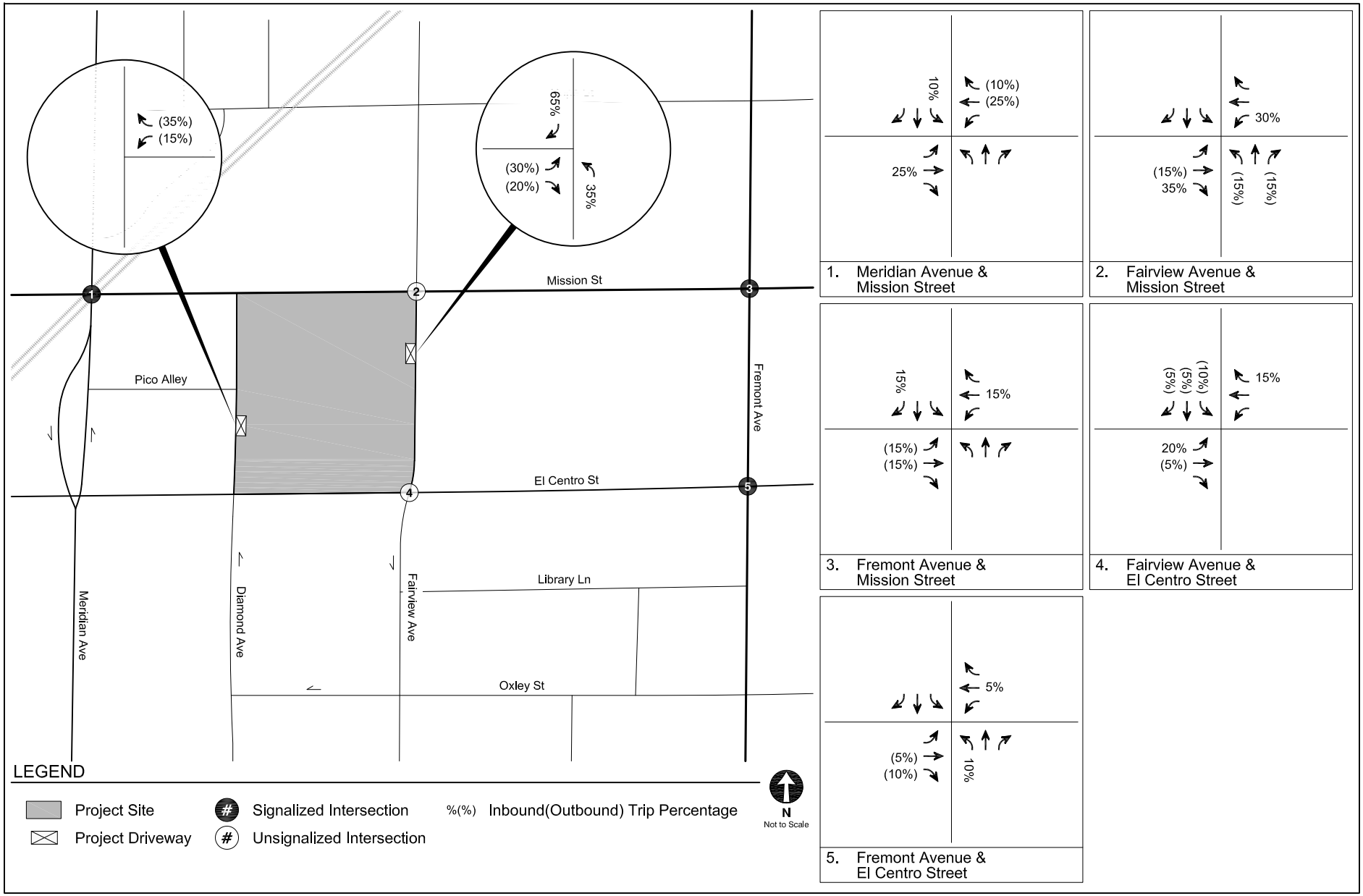
PROJECT TRIP DISTRIBUTION
RESIDENTIAL

FIGURE
3A



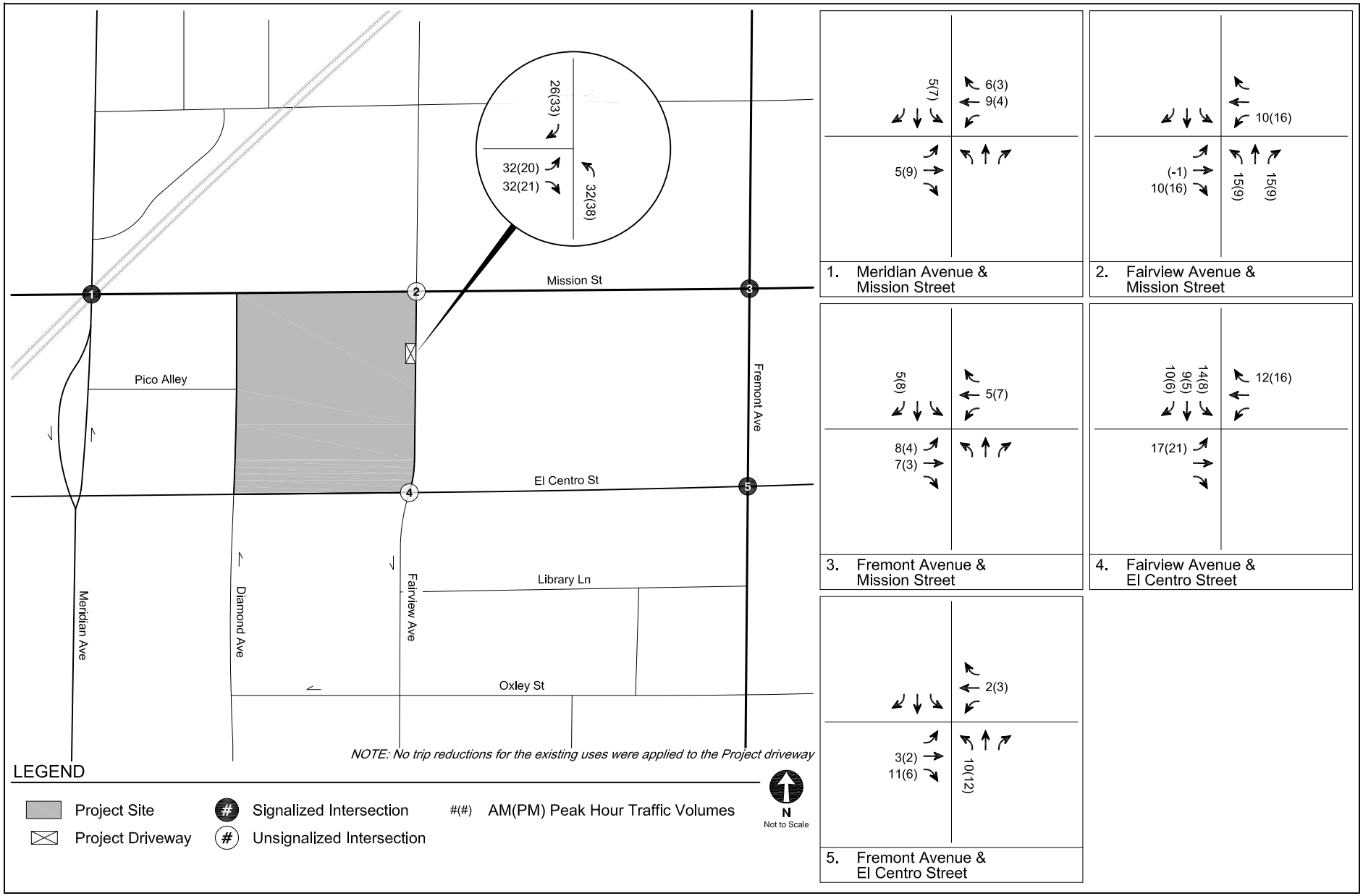
PROJECT TRIP DISTRIBUTION
COMMERCIAL

FIGURE
3B



EXISTING TRIP DISTRIBUTION
OFFICE

FIGURE
4



NET NEW PROJECT-ONLY
PEAK HOUR TRAFFIC VOLUMES

FIGURE
5

Internal Capture Worksheets

NCHRP 8-51 Internal Trip Capture Estimation Tool			
Project Name:	Fairview Court Project	**Organization:**	GTC
Project Location:	1020 El Centro Street	**Performed By:**	
Scenario Description:	Proposed Project	**Date:**	7-Dec-21
Analysis Year:		**Checked By:**	
Analysis Period:	**AM Street Peak Hour**	**Date:**	

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (*For Information Only*)			Estimated Vehicle-Trips		
	ITE LUCs[1]	Quantity	Units	Total	Entering	Exiting
Office				0		
Retail	820	11,016	sf	10	6	4
Restaurant	932	11,016	sf	109	60	49
Cinema/Entertainment				0		
Residential	221	108	du	39	10	29
Hotel				0		
All Other Land Uses[2]				0		
Total				158	76	82

Table 2-A: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.	% Transit	% Non-Motorized	Veh. Occ.	% Transit	% Non-Motorized
Office						
Retail	1.00	15%		1.00	15%	
Restaurant	1.00	15%		1.00	15%	
Cinema/Entertainment	1.00	15%		1.00	15%	
Residential	1.00	15%		1.00	15%	
Hotel						
All Other Land Uses[2]						

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-A: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		1	0	0	0
Restaurant	0	0		0	1	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	0	6	0		0
Hotel	0	0	0	0	0	

Table 5-A: Computations Summary

	Total	Entering	Exiting
All Person-Trips	158	76	82
Internal Capture Percentage	10%	11%	10%
External Vehicle-Trips[3]	122	58	64
External Transit-Trips[4]	20	10	10
External Non-Motorized Trips[4]	0	0	0

Table 6-A: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	N/A	N/A
Retail	0%	25%
Restaurant	12%	2%
Cinema/Entertainment	N/A	N/A
Residential	10%	21%
Hotel	N/A	N/A

[1]Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

[2]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

[3]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

[4]Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Project Name:	Fairview Court Project
Analysis Period:	**AM Street Peak Hour**

Table 7-A: Conversion of Vehicle-Trip Ends to Person-Trip Ends

Land Use	Table 7-A (D): Entering Trips			Table 7-A (O): Exiting Trips		
	Veh. Occ.	Vehicle-Trips	Person-Trips*	Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.00	0	0	1.00	0	0
Retail	1.00	6	6	1.00	4	4
Restaurant	1.00	60	60	1.00	49	49
Cinema/Entertainment	1.00	0	0	1.00	0	0
Residential	1.00	10	10	1.00	29	29
Hotel	1.00	0	0	1.00	0	0

Table 8-A (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	1		1	0	1	0
Restaurant	15	7		0	2	1
Cinema/Entertainment	0	0	0		0	0
Residential	1	0	6	0		0
Hotel	0	0	0	0	0	

Table 8-A (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		2	14	0	0	0
Retail	0		30	0	0	0
Restaurant	0	0		0	1	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	1	12	0		0
Hotel	0	0	4	0	0	

Table 9-A (D): Internal and External Trips Summary (Entering Trips)

Destination Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	0	6	6	5	1	0
Restaurant	7	53	60	45	8	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	1	9	10	8	1	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

Table 9-A (O): Internal and External Trips Summary (Exiting Trips)

Origin Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	1	3	4	3	0	0
Restaurant	1	48	49	41	7	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	6	23	29	20	3	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

[1]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A

[2]Person-Trips

[3]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.

NCHRP 8-51 Internal Trip Capture Estimation Tool			
Project Name:	Fairview Court Project	**Organization:**	GTC
Project Location:	1020 El Centro Street	**Performed By:**	
Scenario Description:	Proposed Project	**Date:**	7-Dec-21
Analysis Year:		**Checked By:**	
Analysis Period:	**PM Street Peak Hour**	**Date:**	

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (*For Information Only*)			Estimated Vehicle-Trips		
	ITE LUCs[1]	Quantity	Units	Total	Entering	Exiting
Office				0		
Retail	820	11,016	sf	42	20	22
Restaurant	932	11,016	sf	108	67	41
Cinema/Entertainment				0		
Residential	221	108	du	48	29	19
Hotel				0		
All Other Land Uses[2]				0		
Total				198	116	82

Table 2-P: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.	% Transit	% Non-Motorized	Veh. Occ.	% Transit	% Non-Motorized
Office						
Retail	1.00	15%		1.00	15%	
Restaurant	1.00	15%		1.00	15%	
Cinema/Entertainment	1.00	15%		1.00	15%	
Residential	1.00	15%		1.00	15%	
Hotel						
All Other Land Uses[2]						

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-P: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		6	0	6	0
Restaurant	0	10		0	5	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	2	4	0		0
Hotel	0	0	0	0	0	

Table 5-P: Computations Summary

	Total	Entering	Exiting
All Person-Trips	198	116	82
Internal Capture Percentage	33%	28%	40%
External Vehicle-Trips[3]	111	70	41
External Transit-Trips[4]	21	13	8
External Non-Motorized Trips[4]	0	0	0

Table 6-P: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	N/A	N/A
Retail	60%	55%
Restaurant	15%	37%
Cinema/Entertainment	N/A	N/A
Residential	38%	32%
Hotel	N/A	N/A

[1]Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

[2]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

[3]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

[4]Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Project Name:	Fairview Court Project
Analysis Period:	**PM Street Peak Hour**

Table 7-P: Conversion of Vehicle-Trip Ends to Person-Trip Ends

Land Use	Table 7-P (D): Entering Trips			Table 7-P (O): Exiting Trips		
	Veh. Occ.	Vehicle-Trips	Person-Trips*	Veh. Occ.	Vehicle-Trips	Person-Trips*
Office	1.00	0	0	1.00	0	0
Retail	1.00	20	20	1.00	22	22
Restaurant	1.00	67	67	1.00	41	41
Cinema/Entertainment	1.00	0	0	1.00	0	0
Residential	1.00	29	29	1.00	19	19
Hotel	1.00	0	0	1.00	0	0

Table 8-P (O): Internal Person-Trip Origin-Destination Matrix (Computed at Origin)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		6	1	6	1
Restaurant	1	17		3	7	3
Cinema/Entertainment	0	0	0		0	0
Residential	1	8	4	0		1
Hotel	0	0	0	0	0	

Table 8-P (D): Internal Person-Trip Origin-Destination Matrix (Computed at Destination)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		2	1	0	1	0
Retail	0		19	0	13	0
Restaurant	0	10		0	5	0
Cinema/Entertainment	0	1	2		1	0
Residential	0	2	9	0		0
Hotel	0	0	3	0	0	

Table 9-P (D): Internal and External Trips Summary (Entering Trips)

Destination Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	12	8	20	7	1	0
Restaurant	10	57	67	48	9	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	11	18	29	15	3	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

Table 9-P (O): Internal and External Trips Summary (Exiting Trips)

Origin Land Use	Person-Trip Estimates			External Trips by Mode*		
	Internal	External	Total	Vehicles[1]	Transit[2]	Non-Motorized[2]
Office	0	0	0	0	0	0
Retail	12	10	22	8	2	0
Restaurant	15	26	41	22	4	0
Cinema/Entertainment	0	0	0	0	0	0
Residential	6	13	19	11	2	0
Hotel	0	0	0	0	0	0
All Other Land Uses[3]	0	0	0	0	0	0

[1]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

[2]Person-Trips

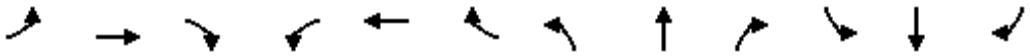
[3]Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

*Indicates computation that has been rounded to the nearest whole number.

Existing Conditions (Year 2021)

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	313	56	6	294	43	71	100	13	11	81	5
Future Volume (veh/h)	6	313	56	6	294	43	71	100	13	11	81	5
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	340	61	7	320	47	77	109	14	12	88	5
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	525	92	66	541	78	460	625	75	154	1058	57
Arrive On Green	0.18	0.18	0.18	0.06	0.06	0.06	0.67	0.67	0.67	0.67	0.67	0.67
Sat Flow, veh/h	21	2926	515	23	3016	435	562	932	112	130	1577	85
Grp Volume(v), veh/h	217	0	191	199	0	175	200	0	0	105	0	0
Grp Sat Flow(s),veh/h/ln	1853	0	1609	1850	0	1624	1606	0	0	1793	0	0
Q Serve(g_s), s	0.0	0.0	6.6	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.5	0.0	6.6	6.2	0.0	6.3	2.4	0.0	0.0	1.2	0.0	0.0
Prop In Lane	0.03		0.32	0.04		0.27	0.38		0.07	0.11		0.05
Lane Grp Cap(c), veh/h	395	0	289	394	0	292	1160	0	0	1269	0	0
V/C Ratio(X)	0.55	0.00	0.66	0.50	0.00	0.60	0.17	0.00	0.00	0.08	0.00	0.00
Avail Cap(c_a), veh/h	811	0	657	809	0	663	1160	0	0	1269	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.9	0.0	22.9	26.1	0.0	26.1	3.7	0.0	0.0	3.5	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.6	1.0	0.0	2.0	0.3	0.0	0.0	0.1	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(95%),veh/ln	5.0	0.0	4.6	5.2	0.0	4.8	1.2	0.0	0.0	0.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.1	0.0	25.5	27.1	0.0	28.1	4.0	0.0	0.0	3.6	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		408			374			200			105	
Approach Delay, s/veh		24.7			27.6			4.0			3.6	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		44.7		15.3		44.7		15.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		24.5		26.5		24.5				
Max Q Clear Time (g_c+I1), s		4.4		8.6		3.2		8.3				
Green Ext Time (p_c), s		1.1		2.2		0.5		2.0				

Intersection Summary												
HCM 6th Ctrl Delay			19.8									
HCM 6th LOS			B									

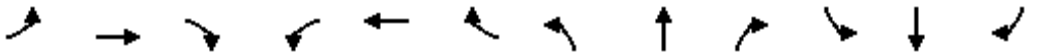
Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	25	384	23	25	370	18	4	1	14	11	7	14
Future Vol, veh/h	25	384	23	25	370	18	4	1	14	11	7	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	27	417	25	27	402	20	4	1	15	12	8	15

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	422	0	0	442	0	0	743	960	221	729	962	211
Stage 1	-	-	-	-	-	-	484	484	-	466	466	-
Stage 2	-	-	-	-	-	-	259	476	-	263	496	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1134	-	-	1114	-	-	304	255	783	311	254	794
Stage 1	-	-	-	-	-	-	533	550	-	546	561	-
Stage 2	-	-	-	-	-	-	723	555	-	719	544	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1134	-	-	1114	-	-	277	239	783	289	238	794
Mov Cap-2 Maneuver	-	-	-	-	-	-	277	239	-	289	238	-
Stage 1	-	-	-	-	-	-	516	532	-	529	543	-
Stage 2	-	-	-	-	-	-	677	537	-	681	527	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	0.6	12.2	15.5
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	520	1134	-	-	1114	-	-	376
HCM Lane V/C Ratio	0.04	0.024	-	-	0.024	-	-	0.093
HCM Control Delay (s)	12.2	8.3	0.1	-	8.3	0.1	-	15.5
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.1	0.1	-	-	0.1	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	218	76	38	306	100	75	704	25	64	477	25
Future Volume (veh/h)	43	218	76	38	306	100	75	704	25	64	477	25
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	47	237	83	41	333	109	82	765	27	70	518	27
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	215	560	191	253	569	183	546	1187	1006	555	1187	1006
Arrive On Green	0.07	0.07	0.07	0.22	0.22	0.22	1.00	1.00	1.00	0.63	0.63	0.63
Sat Flow, veh/h	947	2601	887	1060	2643	851	862	1870	1585	685	1870	1585
Grp Volume(v), veh/h	47	160	160	41	222	220	82	765	27	70	518	27
Grp Sat Flow(s),veh/h/ln	947	1777	1711	1060	1777	1717	862	1870	1585	685	1870	1585
Q Serve(g_s), s	2.9	5.2	5.4	2.1	6.7	6.9	1.5	0.0	0.0	2.5	8.4	0.4
Cycle Q Clear(g_c), s	9.8	5.2	5.4	7.5	6.7	6.9	9.9	0.0	0.0	2.5	8.4	0.4
Prop In Lane	1.00		0.52	1.00		0.50	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	215	382	368	253	382	370	546	1187	1006	555	1187	1006
V/C Ratio(X)	0.22	0.42	0.43	0.16	0.58	0.60	0.15	0.64	0.03	0.13	0.44	0.03
Avail Cap(c_a), veh/h	295	533	513	343	533	515	546	1187	1006	555	1187	1006
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.62	0.62	0.62	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.8	24.3	24.4	23.9	21.1	21.2	1.1	0.0	0.0	4.5	5.5	4.1
Incr Delay (d2), s/veh	0.5	0.7	0.8	0.3	1.4	1.5	0.4	1.7	0.0	0.5	1.2	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(95%),veh/ln	1.3	4.0	4.1	0.9	4.9	4.9	0.1	1.0	0.0	0.6	4.8	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.3	25.0	25.2	24.2	22.5	22.7	1.4	1.7	0.0	4.9	6.7	4.1
LnGrp LOS	C	C	C	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		367			483			874			615	
Approach Delay, s/veh		25.8			22.7			1.6			6.4	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		42.6		17.4		42.6		17.4				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		11.9		11.8		10.4		9.5				
Green Ext Time (p_c), s		6.4		1.1		4.2		1.8				

Intersection Summary												
HCM 6th Ctrl Delay			11.0									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	18	138	20	12	80	6	0	0	0	11	30	10
Future Vol, veh/h	18	138	20	12	80	6	0	0	0	11	30	10
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	20	150	22	13	87	7	0	0	0	12	33	11
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.3	7.8	7.8
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	10%	12%	22%
Vol Thru, %	78%	82%	59%
Vol Right, %	11%	6%	20%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	176	98	51
LT Vol	18	12	11
Through Vol	138	80	30
RT Vol	20	6	10
Lane Flow Rate	191	107	55
Geometry Grp	1	1	1
Degree of Util (X)	0.216	0.123	0.069
Departure Headway (Hd)	4.064	4.163	4.503
Convergence, Y/N	Yes	Yes	Yes
Cap	874	850	800
Service Time	2.128	2.244	2.503
HCM Lane V/C Ratio	0.219	0.126	0.069
HCM Control Delay	8.3	7.8	7.8
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.8	0.4	0.2



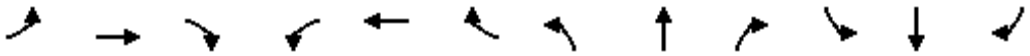
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	85	16	16	75	36	36	860	21	7	680	23
Future Volume (veh/h)	49	85	16	16	75	36	36	860	21	7	680	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	53	92	17	17	82	39	39	935	23	8	739	25
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	138	141	23	84	147	64	627	1311	32	370	1298	44
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.72	0.72	0.72	1.00	1.00	1.00
Sat Flow, veh/h	451	1099	182	126	1143	500	703	1818	45	586	1799	61
Grp Volume(v), veh/h	162	0	0	138	0	0	39	0	958	8	0	764
Grp Sat Flow(s),veh/h/ln	1732	0	0	1770	0	0	703	0	1862	586	0	1859
Q Serve(g_s), s	0.8	0.0	0.0	0.0	0.0	0.0	1.0	0.0	17.7	0.3	0.0	0.0
Cycle Q Clear(g_c), s	5.2	0.0	0.0	4.3	0.0	0.0	1.0	0.0	17.7	18.0	0.0	0.0
Prop In Lane	0.33		0.10	0.12		0.28	1.00		0.02	1.00		0.03
Lane Grp Cap(c), veh/h	302	0	0	295	0	0	627	0	1344	370	0	1341
V/C Ratio(X)	0.54	0.00	0.00	0.47	0.00	0.00	0.06	0.00	0.71	0.02	0.00	0.57
Avail Cap(c_a), veh/h	578	0	0	587	0	0	627	0	1344	370	0	1341
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.91	0.00	0.91
Uniform Delay (d), s/veh	25.0	0.0	0.0	24.7	0.0	0.0	2.5	0.0	4.8	3.7	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	0.0	1.2	0.0	0.0	0.2	0.0	3.2	0.1	0.0	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(95%),veh/ln	3.9	0.0	0.0	3.3	0.0	0.0	0.2	0.0	8.3	0.1	0.0	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.5	0.0	0.0	25.8	0.0	0.0	2.7	0.0	8.0	3.8	0.0	1.6
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		162			138			997			772	
Approach Delay, s/veh		26.5			25.8			7.8			1.6	
Approach LOS		C			C			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	47.8	12.2	47.8	12.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	32.9	18.1	32.9	18.1
Max Q Clear Time (g_c+I1), s	19.7	7.2	20.0	6.3
Green Ext Time (p_c), s	6.4	0.6	4.6	0.5

Intersection Summary	
HCM 6th Ctrl Delay	8.2
HCM 6th LOS	A

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	455	53	5	324	29	39	86	17	32	112	11
Future Volume (veh/h)	1	455	53	5	324	29	39	86	17	32	112	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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	495	58	5	352	32	42	93	18	35	122	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	715	83	64	731	66	314	668	121	246	821	76
Arrive On Green	0.23	0.23	0.23	0.08	0.08	0.08	0.62	0.62	0.62	0.62	0.62	0.62
Sat Flow, veh/h	1	3139	366	13	3205	288	382	1073	194	279	1319	122
Grp Volume(v), veh/h	295	0	259	205	0	184	153	0	0	169	0	0
Grp Sat Flow(s),veh/h/ln	1869	0	1636	1855	0	1650	1649	0	0	1720	0	0
Q Serve(g_s), s	0.0	0.0	8.7	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	8.7	0.0	8.7	6.3	0.0	6.4	2.1	0.0	0.0	2.3	0.0	0.0
Prop In Lane	0.00		0.22	0.02		0.17	0.27		0.12	0.21		0.07
Lane Grp Cap(c), veh/h	486	0	373	484	0	376	1102	0	0	1143	0	0
V/C Ratio(X)	0.61	0.00	0.70	0.42	0.00	0.49	0.14	0.00	0.00	0.15	0.00	0.00
Avail Cap(c_a), veh/h	854	0	695	843	0	701	1102	0	0	1143	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	21.2	0.0	21.3	24.3	0.0	24.4	4.7	0.0	0.0	4.7	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.3	0.6	0.0	1.0	0.3	0.0	0.0	0.3	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(95%),veh/ln	6.6	0.0	6.0	5.2	0.0	4.7	1.2	0.0	0.0	1.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.4	0.0	23.6	24.9	0.0	25.4	4.9	0.0	0.0	5.0	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		554			389			153			169	
Approach Delay, s/veh		23.0			25.1			4.9			5.0	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.8		18.2		41.8		18.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		25.5		25.5		25.5		25.5				
Max Q Clear Time (g_c+I1), s		4.1		10.7		4.3		8.4				
Green Ext Time (p_c), s		0.8		2.9		0.9		2.1				

Intersection Summary												
HCM 6th Ctrl Delay			19.1									
HCM 6th LOS			B									

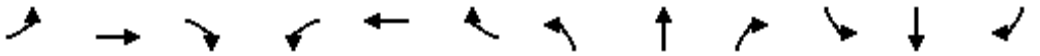
Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	521	22	21	431	26	2	2	18	14	13	22
Future Vol, veh/h	23	521	22	21	431	26	2	2	18	14	13	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	566	24	23	468	28	2	2	20	15	14	24

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	496	0	0	590	0	0	915	1170	295	862	1168	248
Stage 1	-	-	-	-	-	-	628	628	-	528	528	-
Stage 2	-	-	-	-	-	-	287	542	-	334	640	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1064	-	-	982	-	-	228	192	701	249	192	752
Stage 1	-	-	-	-	-	-	437	474	-	502	526	-
Stage 2	-	-	-	-	-	-	696	518	-	653	468	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1064	-	-	982	-	-	197	179	701	228	179	752
Mov Cap-2 Maneuver	-	-	-	-	-	-	197	179	-	228	179	-
Stage 1	-	-	-	-	-	-	422	457	-	484	509	-
Stage 2	-	-	-	-	-	-	634	501	-	610	452	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.4	0.5	13.1	19.6
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	468	1064	-	-	982	-	-	300
HCM Lane V/C Ratio	0.051	0.023	-	-	0.023	-	-	0.178
HCM Control Delay (s)	13.1	8.5	0.1	-	8.8	0.1	-	19.6
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.2	0.1	-	-	0.1	-	-	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	320	117	50	287	70	98	663	24	123	618	35
Future Volume (veh/h)	56	320	117	50	287	70	98	663	24	123	618	35
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	348	127	54	312	76	107	721	26	134	672	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	264	616	221	218	683	164	409	1140	966	555	1140	966
Arrive On Green	0.08	0.08	0.08	0.24	0.24	0.24	1.00	1.00	1.00	0.61	0.61	0.61
Sat Flow, veh/h	996	2562	920	919	2842	682	739	1870	1585	714	1870	1585
Grp Volume(v), veh/h	61	240	235	54	193	195	107	721	26	134	672	38
Grp Sat Flow(s),veh/h/ln	996	1777	1705	919	1777	1748	739	1870	1585	714	1870	1585
Q Serve(g_s), s	3.6	7.8	8.0	3.3	5.6	5.7	4.1	0.0	0.0	5.4	13.1	0.6
Cycle Q Clear(g_c), s	9.3	7.8	8.0	11.3	5.6	5.7	17.2	0.0	0.0	5.4	13.1	0.6
Prop In Lane	1.00		0.54	1.00		0.39	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	264	427	410	218	427	420	409	1140	966	555	1140	966
V/C Ratio(X)	0.23	0.56	0.57	0.25	0.45	0.46	0.26	0.63	0.03	0.24	0.59	0.04
Avail Cap(c_a), veh/h	324	533	511	273	533	524	409	1140	966	555	1140	966
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.56	0.56	0.56	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.0	24.6	24.7	25.4	19.4	19.5	3.1	0.0	0.0	5.6	7.1	4.7
Incr Delay (d2), s/veh	0.4	1.2	1.3	0.6	0.8	0.8	0.9	1.5	0.0	1.0	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(95%),veh/ln	1.7	6.3	6.3	1.3	4.0	4.0	0.5	0.9	0.0	1.4	8.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.5	25.7	25.9	26.0	20.2	20.3	4.0	1.5	0.0	6.7	9.4	4.8
LnGrp LOS	C	C	C	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		536			442			854			844	
Approach Delay, s/veh		26.1			20.9			1.8			8.7	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.1		18.9		41.1		18.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		19.2		11.3		15.1		13.3				
Green Ext Time (p_c), s		5.1		1.8		5.7		1.1				

Intersection Summary												
HCM 6th Ctrl Delay			12.0									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	18	140	50	18	94	15	0	0	0	19	37	16
Future Vol, veh/h	18	140	50	18	94	15	0	0	0	19	37	16
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	20	152	54	20	102	16	0	0	0	21	40	17
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.6	8.2	8.2
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	9%	14%	26%
Vol Thru, %	67%	74%	51%
Vol Right, %	24%	12%	22%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	208	127	72
LT Vol	18	18	19
Through Vol	140	94	37
RT Vol	50	15	16
Lane Flow Rate	226	138	78
Geometry Grp	1	1	1
Degree of Util (X)	0.254	0.165	0.101
Departure Headway (Hd)	4.051	4.305	4.636
Convergence, Y/N	Yes	Yes	Yes
Cap	870	837	776
Service Time	2.15	2.313	2.643
HCM Lane V/C Ratio	0.26	0.165	0.101
HCM Control Delay	8.6	8.2	8.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1	0.6	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	54	90	20	42	80	47	21	801	53	27	721	15
Future Volume (veh/h)	54	90	20	42	80	47	21	801	53	27	721	15
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	59	98	22	46	87	51	23	871	58	29	784	16
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	144	150	30	121	132	68	602	1229	82	370	1295	26
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.71	0.71	0.71	1.00	1.00	1.00
Sat Flow, veh/h	455	1063	213	328	938	485	680	1734	115	602	1826	37
Grp Volume(v), veh/h	179	0	0	184	0	0	23	0	929	29	0	800
Grp Sat Flow(s),veh/h/ln	1731	0	0	1751	0	0	680	0	1850	602	0	1864
Q Serve(g_s), s	0.0	0.0	0.0	0.1	0.0	0.0	0.6	0.0	17.6	1.3	0.0	0.0
Cycle Q Clear(g_c), s	5.7	0.0	0.0	5.8	0.0	0.0	0.6	0.0	17.6	18.9	0.0	0.0
Prop In Lane	0.33		0.12	0.25		0.28	1.00		0.06	1.00		0.02
Lane Grp Cap(c), veh/h	324	0	0	322	0	0	602	0	1311	370	0	1321
V/C Ratio(X)	0.55	0.00	0.00	0.57	0.00	0.00	0.04	0.00	0.71	0.08	0.00	0.61
Avail Cap(c_a), veh/h	577	0	0	579	0	0	602	0	1311	370	0	1321
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.81	0.00	0.81
Uniform Delay (d), s/veh	24.6	0.0	0.0	24.6	0.0	0.0	2.6	0.0	5.1	3.9	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	0.0	1.6	0.0	0.0	0.1	0.0	3.3	0.3	0.0	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(95%),veh/ln	4.3	0.0	0.0	4.5	0.0	0.0	0.1	0.0	8.5	0.2	0.0	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	0.0	0.0	26.2	0.0	0.0	2.7	0.0	8.4	4.3	0.0	1.7
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		179			184			952			829	
Approach Delay, s/veh		26.0			26.2			8.2			1.8	
Approach LOS		C			C			A			A	

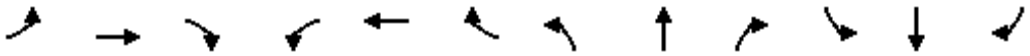
Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	47.0	13.0	47.0	13.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	32.9	18.1	32.9	18.1
Max Q Clear Time (g_c+I1), s	19.6	7.7	20.9	7.8
Green Ext Time (p_c), s	6.1	0.7	4.8	0.7

Intersection Summary	
HCM 6th Ctrl Delay	8.8
HCM 6th LOS	A

Existing with Project Conditions (Year 2021)

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	318	56	6	303	49	71	100	13	16	81	5
Future Volume (veh/h)	6	318	56	6	303	49	71	100	13	16	81	5
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	346	61	7	329	53	77	109	14	17	88	5
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	533	92	66	540	85	458	623	75	201	993	54
Arrive On Green	0.18	0.18	0.18	0.06	0.06	0.06	0.67	0.67	0.67	0.67	0.67	0.67
Sat Flow, veh/h	21	2935	508	22	2975	470	562	932	112	197	1485	80
Grp Volume(v), veh/h	221	0	193	207	0	182	200	0	0	110	0	0
Grp Sat Flow(s),veh/h/ln	1853	0	1611	1850	0	1617	1606	0	0	1762	0	0
Q Serve(g_s), s	0.0	0.0	6.7	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.6	0.0	6.7	6.5	0.0	6.6	2.4	0.0	0.0	1.3	0.0	0.0
Prop In Lane	0.03		0.32	0.03		0.29	0.38		0.07	0.15		0.05
Lane Grp Cap(c), veh/h	398	0	292	398	0	294	1156	0	0	1247	0	0
V/C Ratio(X)	0.55	0.00	0.66	0.52	0.00	0.62	0.17	0.00	0.00	0.09	0.00	0.00
Avail Cap(c_a), veh/h	811	0	658	809	0	660	1156	0	0	1247	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.8	0.0	22.8	26.1	0.0	26.2	3.7	0.0	0.0	3.5	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.6	1.1	0.0	2.1	0.3	0.0	0.0	0.1	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(95%),veh/ln	5.1	0.0	4.6	5.5	0.0	5.0	1.2	0.0	0.0	0.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.0	0.0	25.4	27.2	0.0	28.3	4.0	0.0	0.0	3.6	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		414			389			200			110	
Approach Delay, s/veh		24.6			27.7			4.0			3.6	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		44.6		15.4		44.6		15.4				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		24.5		26.5		24.5				
Max Q Clear Time (g_c+I1), s		4.4		8.7		3.3		8.6				
Green Ext Time (p_c), s		1.1		2.2		0.5		2.0				

Intersection Summary												
HCM 6th Ctrl Delay			19.9									
HCM 6th LOS			B									

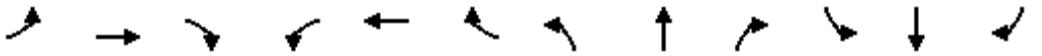
Intersection	
Int Delay, s/veh	2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	25	384	33	35	370	18	19	1	29	11	7	14
Future Vol, veh/h	25	384	33	35	370	18	19	1	29	11	7	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	27	417	36	38	402	20	21	1	32	12	8	15

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	422	0	0	453	0	0	770	987	227	751	995	211
Stage 1	-	-	-	-	-	-	489	489	-	488	488	-
Stage 2	-	-	-	-	-	-	281	498	-	263	507	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1134	-	-	1104	-	-	290	246	776	299	243	794
Stage 1	-	-	-	-	-	-	529	548	-	530	548	-
Stage 2	-	-	-	-	-	-	702	543	-	719	538	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1134	-	-	1104	-	-	261	227	776	269	225	794
Mov Cap-2 Maneuver	-	-	-	-	-	-	261	227	-	269	225	-
Stage 1	-	-	-	-	-	-	512	530	-	513	523	-
Stage 2	-	-	-	-	-	-	648	519	-	666	521	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	0.9	14.6	16.2
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	428	1134	-	-	1104	-	-	357
HCM Lane V/C Ratio	0.124	0.024	-	-	0.034	-	-	0.097
HCM Control Delay (s)	14.6	8.3	0.1	-	8.4	0.2	-	16.2
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0.1	-	-	0.1	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	225	76	38	311	100	75	704	25	64	477	30
Future Volume (veh/h)	51	225	76	38	311	100	75	704	25	64	477	30
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	55	245	83	41	338	109	82	765	27	70	518	33
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	222	587	194	259	594	188	534	1171	993	549	1171	993
Arrive On Green	0.07	0.07	0.07	0.22	0.22	0.22	1.00	1.00	1.00	0.63	0.63	0.63
Sat Flow, veh/h	943	2624	867	1052	2653	842	857	1870	1585	685	1870	1585
Grp Volume(v), veh/h	55	164	164	41	225	222	82	765	27	70	518	33
Grp Sat Flow(s),veh/h/ln	943	1777	1714	1052	1777	1719	857	1870	1585	685	1870	1585
Q Serve(g_s), s	3.4	5.3	5.5	2.1	6.7	6.9	1.5	0.0	0.0	2.6	8.6	0.5
Cycle Q Clear(g_c), s	10.4	5.3	5.5	7.6	6.7	6.9	10.1	0.0	0.0	2.6	8.6	0.5
Prop In Lane	1.00		0.51	1.00		0.49	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	222	397	383	259	397	384	534	1171	993	549	1171	993
V/C Ratio(X)	0.25	0.41	0.43	0.16	0.56	0.58	0.15	0.65	0.03	0.13	0.44	0.03
Avail Cap(c_a), veh/h	294	533	514	339	533	516	534	1171	993	549	1171	993
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.53	0.53	0.53	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.8	24.0	24.1	23.5	20.7	20.8	1.2	0.0	0.0	4.7	5.8	4.3
Incr Delay (d2), s/veh	0.6	0.7	0.8	0.3	1.3	1.4	0.3	1.5	0.0	0.5	1.2	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(95%),veh/ln	1.6	4.1	4.1	0.9	4.9	4.9	0.1	0.9	0.0	0.6	5.0	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.4	24.7	24.9	23.8	22.0	22.1	1.5	1.5	0.0	5.1	7.0	4.3
LnGrp LOS	C	C	C	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		383			488			874			621	
Approach Delay, s/veh		25.6			22.2			1.5			6.7	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		42.1		17.9		42.1		17.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		12.1		12.4		10.6		9.6				
Green Ext Time (p_c), s		6.3		1.1		4.2		1.8				

Intersection Summary												
HCM 6th Ctrl Delay			11.0									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	35	138	20	12	80	18	0	0	0	25	39	20
Future Vol, veh/h	35	138	20	12	80	18	0	0	0	25	39	20
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	38	150	22	13	87	20	0	0	0	27	42	22
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.7	8	8.2
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	18%	11%	30%
Vol Thru, %	72%	73%	46%
Vol Right, %	10%	16%	24%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	193	110	84
LT Vol	35	12	25
Through Vol	138	80	39
RT Vol	20	18	20
Lane Flow Rate	210	120	91
Geometry Grp	1	1	1
Degree of Util (X)	0.248	0.143	0.116
Departure Headway (Hd)	4.263	4.291	4.572
Convergence, Y/N	Yes	Yes	Yes
Cap	848	838	786
Service Time	2.263	2.305	2.59
HCM Lane V/C Ratio	0.248	0.143	0.116
HCM Control Delay	8.7	8	8.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1	0.5	0.4



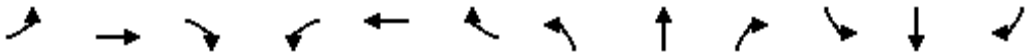
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	88	27	16	77	36	46	860	21	7	680	23
Future Volume (veh/h)	49	88	27	16	77	36	46	860	21	7	680	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	53	96	29	17	84	39	50	935	23	8	739	25
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	133	145	39	84	161	69	620	1292	32	357	1278	43
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.71	0.71	0.71	1.00	1.00	1.00
Sat Flow, veh/h	397	1043	280	120	1158	493	703	1818	45	586	1799	61
Grp Volume(v), veh/h	178	0	0	140	0	0	50	0	958	8	0	764
Grp Sat Flow(s),veh/h/ln	1720	0	0	1771	0	0	703	0	1862	586	0	1859
Q Serve(g_s), s	1.4	0.0	0.0	0.0	0.0	0.0	1.3	0.0	18.4	0.4	0.0	0.0
Cycle Q Clear(g_c), s	5.8	0.0	0.0	4.4	0.0	0.0	1.3	0.0	18.4	18.8	0.0	0.0
Prop In Lane	0.30		0.16	0.12		0.28	1.00		0.02	1.00		0.03
Lane Grp Cap(c), veh/h	318	0	0	314	0	0	620	0	1323	357	0	1321
V/C Ratio(X)	0.56	0.00	0.00	0.45	0.00	0.00	0.08	0.00	0.72	0.02	0.00	0.58
Avail Cap(c_a), veh/h	577	0	0	588	0	0	620	0	1323	357	0	1321
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.91	0.00	0.91
Uniform Delay (d), s/veh	24.6	0.0	0.0	24.1	0.0	0.0	2.7	0.0	5.2	4.0	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	0.0	1.0	0.0	0.0	0.3	0.0	3.5	0.1	0.0	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(95%),veh/ln	4.3	0.0	0.0	3.3	0.0	0.0	0.3	0.0	8.8	0.1	0.0	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.2	0.0	0.0	25.1	0.0	0.0	3.0	0.0	8.6	4.1	0.0	1.7
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		178			140			1008			772	
Approach Delay, s/veh		26.2			25.1			8.4			1.7	
Approach LOS		C			C			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	47.1	12.9	47.1	12.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	32.9	18.1	32.9	18.1
Max Q Clear Time (g_c+I1), s	20.4	7.8	20.8	6.4
Green Ext Time (p_c), s	6.3	0.7	4.4	0.5

Intersection Summary	
HCM 6th Ctrl Delay	8.5
HCM 6th LOS	A

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	464	53	5	328	32	39	86	17	39	112	11
Future Volume (veh/h)	1	464	53	5	328	32	39	86	17	39	112	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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	504	58	5	357	35	42	93	18	42	122	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	726	83	64	735	71	313	665	120	279	775	72
Arrive On Green	0.23	0.23	0.23	0.08	0.08	0.08	0.62	0.62	0.62	0.62	0.62	0.62
Sat Flow, veh/h	1	3145	360	12	3182	308	381	1074	194	330	1252	116
Grp Volume(v), veh/h	299	0	264	210	0	187	153	0	0	176	0	0
Grp Sat Flow(s),veh/h/ln	1869	0	1637	1856	0	1647	1649	0	0	1698	0	0
Q Serve(g_s), s	0.0	0.0	8.9	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	8.8	0.0	8.9	6.5	0.0	6.5	2.1	0.0	0.0	2.4	0.0	0.0
Prop In Lane	0.00		0.22	0.02		0.19	0.27		0.12	0.24		0.07
Lane Grp Cap(c), veh/h	492	0	378	490	0	380	1097	0	0	1126	0	0
V/C Ratio(X)	0.61	0.00	0.70	0.43	0.00	0.49	0.14	0.00	0.00	0.16	0.00	0.00
Avail Cap(c_a), veh/h	854	0	696	843	0	700	1097	0	0	1126	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	21.1	0.0	21.2	24.3	0.0	24.3	4.7	0.0	0.0	4.8	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.3	0.6	0.0	1.0	0.3	0.0	0.0	0.3	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(95%),veh/ln	6.7	0.0	6.1	5.3	0.0	4.8	1.2	0.0	0.0	1.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.3	0.0	23.5	24.9	0.0	25.3	5.0	0.0	0.0	5.1	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		563			397			153			176	
Approach Delay, s/veh		22.9			25.1			5.0			5.1	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.6		18.4		41.6		18.4				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		25.5		25.5		25.5		25.5				
Max Q Clear Time (g_c+I1), s		4.1		10.9		4.4		8.5				
Green Ext Time (p_c), s		0.8		3.0		0.9		2.1				

Intersection Summary												
HCM 6th Ctrl Delay			19.0									
HCM 6th LOS			B									

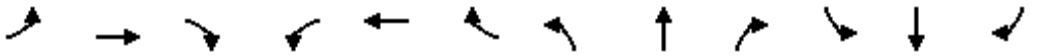
Intersection	
Int Delay, s/veh	2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	520	38	37	431	26	11	2	27	14	13	22
Future Vol, veh/h	23	520	38	37	431	26	11	2	27	14	13	22
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	25	565	41	40	468	28	12	2	29	15	14	24

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	496	0	0	606	0	0	957	1212	303	896	1218	248
Stage 1	-	-	-	-	-	-	636	636	-	562	562	-
Stage 2	-	-	-	-	-	-	321	576	-	334	656	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1064	-	-	968	-	-	212	181	693	235	179	752
Stage 1	-	-	-	-	-	-	433	470	-	479	508	-
Stage 2	-	-	-	-	-	-	665	500	-	653	460	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1064	-	-	968	-	-	179	165	693	207	163	752
Mov Cap-2 Maneuver	-	-	-	-	-	-	179	165	-	207	163	-
Stage 1	-	-	-	-	-	-	417	453	-	462	479	-
Stage 2	-	-	-	-	-	-	589	472	-	600	443	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.4	0.8	16.6	21.1
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	355	1064	-	-	968	-	-	277
HCM Lane V/C Ratio	0.122	0.023	-	-	0.042	-	-	0.192
HCM Control Delay (s)	16.6	8.5	0.1	-	8.9	0.2	-	21.1
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0.1	-	-	0.1	-	-	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	323	117	50	294	70	98	663	24	123	618	43
Future Volume (veh/h)	60	323	117	50	294	70	98	663	24	123	618	43
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	65	351	127	54	320	76	107	721	26	134	672	47
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	263	620	221	219	690	162	405	1138	965	555	1138	965
Arrive On Green	0.08	0.08	0.08	0.24	0.24	0.24	1.00	1.00	1.00	0.61	0.61	0.61
Sat Flow, veh/h	988	2568	915	916	2858	669	733	1870	1585	714	1870	1585
Grp Volume(v), veh/h	65	241	237	54	197	199	107	721	26	134	672	47
Grp Sat Flow(s),veh/h/ln	988	1777	1706	916	1777	1750	733	1870	1585	714	1870	1585
Q Serve(g_s), s	3.8	7.8	8.0	3.4	5.7	5.8	4.2	0.0	0.0	5.4	13.2	0.7
Cycle Q Clear(g_c), s	9.7	7.8	8.0	11.4	5.7	5.8	17.3	0.0	0.0	5.4	13.2	0.7
Prop In Lane	1.00		0.54	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	263	429	412	219	429	422	405	1138	965	555	1138	965
V/C Ratio(X)	0.25	0.56	0.58	0.25	0.46	0.47	0.26	0.63	0.03	0.24	0.59	0.05
Avail Cap(c_a), veh/h	320	533	512	272	533	525	405	1138	965	555	1138	965
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.55	0.55	0.55	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.2	24.6	24.6	25.4	19.4	19.5	3.1	0.0	0.0	5.7	7.2	4.7
Incr Delay (d2), s/veh	0.5	1.2	1.3	0.6	0.8	0.8	0.9	1.5	0.0	1.0	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(95%),veh/ln	1.8	6.4	6.3	1.3	4.1	4.1	0.5	0.8	0.0	1.4	8.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.7	25.7	25.9	26.0	20.2	20.3	4.0	1.5	0.0	6.7	9.4	4.8
LnGrp LOS	C	C	C	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		543			450			854			853	
Approach Delay, s/veh		26.2			20.9			1.8			8.7	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.0		19.0		41.0		19.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		19.3		11.7		15.2		13.4				
Green Ext Time (p_c), s		5.1		1.7		5.7		1.1				

Intersection Summary												
HCM 6th Ctrl Delay			12.1									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	39	140	50	18	94	31	0	0	0	27	42	22
Future Vol, veh/h	39	140	50	18	94	31	0	0	0	27	42	22
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	42	152	54	20	102	34	0	0	0	29	46	24
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	9	8.3	8.5
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	17%	13%	30%
Vol Thru, %	61%	66%	46%
Vol Right, %	22%	22%	24%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	229	143	91
LT Vol	39	18	27
Through Vol	140	94	42
RT Vol	50	31	22
Lane Flow Rate	249	155	99
Geometry Grp	1	1	1
Degree of Util (X)	0.293	0.187	0.13
Departure Headway (Hd)	4.242	4.326	4.725
Convergence, Y/N	Yes	Yes	Yes
Cap	849	832	760
Service Time	2.259	2.345	2.748
HCM Lane V/C Ratio	0.293	0.186	0.13
HCM Control Delay	9	8.3	8.5
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1.2	0.7	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	54	92	26	42	83	47	33	801	53	27	721	15
Future Volume (veh/h)	54	92	26	42	83	47	33	801	53	27	721	15
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	59	100	28	46	90	51	36	871	58	29	784	16
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	141	149	37	121	137	69	600	1224	82	367	1290	26
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.71	0.71	0.71	1.00	1.00	1.00
Sat Flow, veh/h	434	1037	259	321	955	479	680	1734	115	602	1826	37
Grp Volume(v), veh/h	187	0	0	187	0	0	36	0	929	29	0	800
Grp Sat Flow(s),veh/h/ln	1730	0	0	1755	0	0	680	0	1850	602	0	1864
Q Serve(g_s), s	0.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0	17.8	1.3	0.0	0.0
Cycle Q Clear(g_c), s	6.0	0.0	0.0	5.9	0.0	0.0	1.0	0.0	17.8	19.1	0.0	0.0
Prop In Lane	0.32		0.15	0.25		0.27	1.00		0.06	1.00		0.02
Lane Grp Cap(c), veh/h	328	0	0	327	0	0	600	0	1306	367	0	1316
V/C Ratio(X)	0.57	0.00	0.00	0.57	0.00	0.00	0.06	0.00	0.71	0.08	0.00	0.61
Avail Cap(c_a), veh/h	577	0	0	580	0	0	600	0	1306	367	0	1316
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.81	0.00	0.81
Uniform Delay (d), s/veh	24.5	0.0	0.0	24.5	0.0	0.0	2.7	0.0	5.2	4.0	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0	1.6	0.0	0.0	0.2	0.0	3.3	0.3	0.0	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(95%),veh/ln	4.5	0.0	0.0	4.5	0.0	0.0	0.2	0.0	8.6	0.2	0.0	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.1	0.0	0.0	26.1	0.0	0.0	2.9	0.0	8.5	4.4	0.0	1.7
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		187			187			965			829	
Approach Delay, s/veh		26.1			26.1			8.3			1.8	
Approach LOS		C			C			A			A	

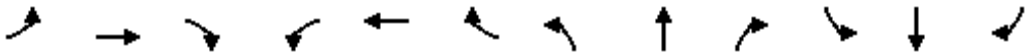
Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	46.9	13.1	46.9	13.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	32.9	18.1	32.9	18.1
Max Q Clear Time (g_c+I1), s	19.8	8.0	21.1	7.9
Green Ext Time (p_c), s	6.2	0.7	4.8	0.7

Intersection Summary	
HCM 6th Ctrl Delay	8.9
HCM 6th LOS	A

Future without Project Conditions (Year 2024)

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	338	60	6	325	45	75	115	13	12	91	5
Future Volume (veh/h)	6	338	60	6	325	45	75	115	13	12	91	5
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	367	65	7	353	49	82	125	14	13	99	5
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	65	558	97	66	579	79	438	640	67	149	1052	51
Arrive On Green	0.19	0.19	0.19	0.06	0.06	0.06	0.66	0.66	0.66	0.66	0.66	0.66
Sat Flow, veh/h	19	2934	510	20	3042	415	539	969	102	124	1594	77
Grp Volume(v), veh/h	234	0	205	217	0	192	221	0	0	117	0	0
Grp Sat Flow(s),veh/h/ln	1853	0	1610	1851	0	1627	1610	0	0	1795	0	0
Q Serve(g_s), s	0.0	0.0	7.1	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.9	0.0	7.1	6.8	0.0	6.9	2.8	0.0	0.0	1.4	0.0	0.0
Prop In Lane	0.03		0.32	0.03		0.26	0.37		0.06	0.11		0.04
Lane Grp Cap(c), veh/h	414	0	306	414	0	309	1145	0	0	1251	0	0
V/C Ratio(X)	0.56	0.00	0.67	0.52	0.00	0.62	0.19	0.00	0.00	0.09	0.00	0.00
Avail Cap(c_a), veh/h	812	0	657	810	0	664	1145	0	0	1251	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.5	0.0	22.5	26.0	0.0	26.0	3.9	0.0	0.0	3.7	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.5	1.0	0.0	2.0	0.4	0.0	0.0	0.1	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(95%),veh/ln	5.4	0.0	4.9	5.8	0.0	5.2	1.5	0.0	0.0	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.7	0.0	25.1	27.0	0.0	28.0	4.3	0.0	0.0	3.9	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		439			409			221			117	
Approach Delay, s/veh		24.3			27.5			4.3			3.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		44.1		15.9		44.1		15.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		24.5		26.5		24.5				
Max Q Clear Time (g_c+I1), s		4.8		9.1		3.4		8.9				
Green Ext Time (p_c), s		1.2		2.3		0.6		2.1				

Intersection Summary		
HCM 6th Ctrl Delay		19.7
HCM 6th LOS		B

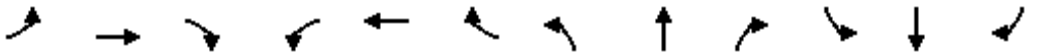
Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	26	402	35	37	392	19	16	1	26	11	7	14
Future Vol, veh/h	26	402	35	37	392	19	16	1	26	11	7	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	28	437	38	40	426	21	17	1	28	12	8	15

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	447	0	0	475	0	0	809	1039	238	792	1048	224
Stage 1	-	-	-	-	-	-	512	512	-	517	517	-
Stage 2	-	-	-	-	-	-	297	527	-	275	531	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1110	-	-	1083	-	-	272	229	763	280	226	779
Stage 1	-	-	-	-	-	-	513	535	-	509	532	-
Stage 2	-	-	-	-	-	-	687	527	-	708	524	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1110	-	-	1083	-	-	243	210	763	252	208	779
Mov Cap-2 Maneuver	-	-	-	-	-	-	243	210	-	252	208	-
Stage 1	-	-	-	-	-	-	496	517	-	492	506	-
Stage 2	-	-	-	-	-	-	631	501	-	657	506	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	0.9	14.9	16.9
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	411	1110	-	-	1083	-	-	336
HCM Lane V/C Ratio	0.114	0.025	-	-	0.037	-	-	0.104
HCM Control Delay (s)	14.9	8.3	0.1	-	8.5	0.2	-	16.9
HCM Lane LOS	B	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0.1	-	-	0.1	-	-	0.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	46	241	78	40	335	105	77	731	27	68	496	28
Future Volume (veh/h)	46	241	78	40	335	105	77	731	27	68	496	28
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	50	262	85	43	364	114	84	795	29	74	539	30
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	216	606	192	256	610	189	515	1163	985	533	1163	985
Arrive On Green	0.08	0.08	0.08	0.23	0.23	0.23	1.00	1.00	1.00	0.62	0.62	0.62
Sat Flow, veh/h	916	2654	842	1034	2673	826	843	1870	1585	665	1870	1585
Grp Volume(v), veh/h	50	173	174	43	240	238	84	795	29	74	539	30
Grp Sat Flow(s),veh/h/ln	916	1777	1719	1034	1777	1722	843	1870	1585	665	1870	1585
Q Serve(g_s), s	3.2	5.6	5.8	2.3	7.2	7.4	1.8	0.0	0.0	2.8	9.2	0.4
Cycle Q Clear(g_c), s	10.6	5.6	5.8	8.1	7.2	7.4	10.9	0.0	0.0	2.8	9.2	0.4
Prop In Lane	1.00		0.49	1.00		0.48	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	216	406	393	256	406	393	515	1163	985	533	1163	985
V/C Ratio(X)	0.23	0.43	0.44	0.17	0.59	0.60	0.16	0.68	0.03	0.14	0.46	0.03
Avail Cap(c_a), veh/h	282	533	516	330	533	517	515	1163	985	533	1163	985
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.47	0.47	0.47	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.0	24.0	24.1	23.6	20.7	20.7	1.3	0.0	0.0	4.8	6.0	4.4
Incr Delay (d2), s/veh	0.5	0.7	0.8	0.3	1.4	1.5	0.3	1.6	0.0	0.5	1.3	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(95%),veh/ln	1.4	4.4	4.4	1.0	5.3	5.2	0.1	0.9	0.0	0.7	5.5	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.5	24.7	24.9	23.9	22.0	22.2	1.7	1.6	0.0	5.4	7.4	4.4
LnGrp LOS	C	C	C	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		397			521			908			643	
Approach Delay, s/veh		25.5			22.3			1.5			7.0	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.8		18.2		41.8		18.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		12.9		12.6		11.2		10.1				
Green Ext Time (p_c), s		6.6		1.1		4.4		1.9				

Intersection Summary												
HCM 6th Ctrl Delay			11.2									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	22	144	21	12	85	12	0	0	0	18	31	14
Future Vol, veh/h	22	144	21	12	85	12	0	0	0	18	31	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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	157	23	13	92	13	0	0	0	20	34	15
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.4	7.9	8
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	12%	11%	29%
Vol Thru, %	77%	78%	49%
Vol Right, %	11%	11%	22%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	187	109	63
LT Vol	22	12	18
Through Vol	144	85	31
RT Vol	21	12	14
Lane Flow Rate	203	118	68
Geometry Grp	1	1	1
Degree of Util (X)	0.232	0.137	0.087
Departure Headway (Hd)	4.101	4.166	4.557
Convergence, Y/N	Yes	Yes	Yes
Cap	864	846	791
Service Time	2.181	2.263	2.557
HCM Lane V/C Ratio	0.235	0.139	0.086
HCM Control Delay	8.4	7.9	8
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.9	0.5	0.3



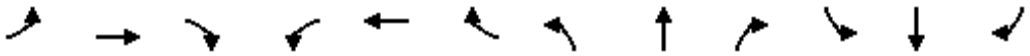
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	95	18	24	84	43	39	887	29	12	701	24
Future Volume (veh/h)	50	95	18	24	84	43	39	887	29	12	701	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	54	103	20	26	91	47	42	964	32	13	762	26
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	136	155	27	94	148	69	610	1284	43	336	1283	44
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.71	0.71	0.71	1.00	1.00	1.00
Sat Flow, veh/h	420	1132	198	179	1080	506	687	1800	60	565	1798	61
Grp Volume(v), veh/h	177	0	0	164	0	0	42	0	996	13	0	788
Grp Sat Flow(s),veh/h/ln	1749	0	0	1765	0	0	687	0	1860	565	0	1859
Q Serve(g_s), s	0.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	19.8	0.7	0.0	0.0
Cycle Q Clear(g_c), s	5.6	0.0	0.0	5.2	0.0	0.0	1.1	0.0	19.8	20.5	0.0	0.0
Prop In Lane	0.31		0.11	0.16		0.29	1.00		0.03	1.00		0.03
Lane Grp Cap(c), veh/h	317	0	0	311	0	0	610	0	1327	336	0	1326
V/C Ratio(X)	0.56	0.00	0.00	0.53	0.00	0.00	0.07	0.00	0.75	0.04	0.00	0.59
Avail Cap(c_a), veh/h	578	0	0	582	0	0	610	0	1327	336	0	1326
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.90	0.00	0.90
Uniform Delay (d), s/veh	24.7	0.0	0.0	24.6	0.0	0.0	2.6	0.0	5.3	4.7	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	0.0	1.4	0.0	0.0	0.2	0.0	3.9	0.2	0.0	1.8
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(95%),veh/ln	4.3	0.0	0.0	4.0	0.0	0.0	0.2	0.0	9.3	0.1	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.3	0.0	0.0	26.0	0.0	0.0	2.8	0.0	9.3	4.9	0.0	1.8
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		177			164			1038			801	
Approach Delay, s/veh		26.3			26.0			9.0			1.8	
Approach LOS		C			C			A			A	

Timer - Assigned Phs	2		4		6		8					
Phs Duration (G+Y+Rc), s	47.3		12.7		47.3		12.7					
Change Period (Y+Rc), s	4.5		4.5		4.5		4.5					
Max Green Setting (Gmax), s	33.0		18.0		33.0		18.0					
Max Q Clear Time (g_c+I1), s	21.8		7.6		22.5		7.2					
Green Ext Time (p_c), s	6.1		0.6		4.3		0.6					

Intersection Summary												
HCM 6th Ctrl Delay			9.0									
HCM 6th LOS			A									

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	493	57	5	352	30	41	95	18	34	127	11
Future Volume (veh/h)	1	493	57	5	352	30	41	95	18	34	127	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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	536	62	5	383	33	45	103	20	37	138	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	767	88	64	786	67	299	657	119	230	821	67
Arrive On Green	0.24	0.24	0.24	0.08	0.08	0.08	0.61	0.61	0.61	0.61	0.61	0.61
Sat Flow, veh/h	1	3143	362	11	3223	274	368	1083	196	261	1354	111
Grp Volume(v), veh/h	319	0	280	222	0	199	168	0	0	187	0	0
Grp Sat Flow(s),veh/h/ln	1869	0	1637	1856	0	1653	1647	0	0	1726	0	0
Q Serve(g_s), s	0.0	0.0	9.4	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	9.3	0.0	9.4	6.8	0.0	6.9	2.4	0.0	0.0	2.7	0.0	0.0
Prop In Lane	0.00		0.22	0.02		0.17	0.27		0.12	0.20		0.06
Lane Grp Cap(c), veh/h	516	0	399	514	0	403	1074	0	0	1118	0	0
V/C Ratio(X)	0.62	0.00	0.70	0.43	0.00	0.49	0.16	0.00	0.00	0.17	0.00	0.00
Avail Cap(c_a), veh/h	885	0	723	874	0	730	1074	0	0	1118	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	20.7	0.0	20.7	24.0	0.0	24.0	5.1	0.0	0.0	5.2	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.3	0.6	0.0	0.9	0.3	0.0	0.0	0.3	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(95%),veh/ln	7.0	0.0	6.4	5.7	0.0	5.1	1.4	0.0	0.0	1.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	21.9	0.0	23.0	24.6	0.0	25.0	5.4	0.0	0.0	5.5	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		599			421			168			187	
Approach Delay, s/veh		22.4			24.8			5.4			5.5	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.9		19.1		40.9		19.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		24.5		26.5		24.5		26.5				
Max Q Clear Time (g_c+I1), s		4.4		11.4		4.7		8.9				
Green Ext Time (p_c), s		0.9		3.3		1.0		2.3				

Intersection Summary												
HCM 6th Ctrl Delay			18.7									
HCM 6th LOS			B									

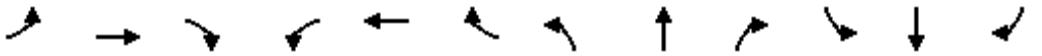
Intersection	
Int Delay, s/veh	2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	24	551	34	33	455	27	10	2	27	14	13	23
Future Vol, veh/h	24	551	34	33	455	27	10	2	27	14	13	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	599	37	36	495	29	11	2	29	15	14	25

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	524	0	0	636	0	0	997	1266	318	935	1270	262
Stage 1	-	-	-	-	-	-	670	670	-	582	582	-
Stage 2	-	-	-	-	-	-	327	596	-	353	688	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1039	-	-	943	-	-	198	168	678	220	167	737
Stage 1	-	-	-	-	-	-	413	454	-	466	497	-
Stage 2	-	-	-	-	-	-	660	490	-	637	445	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1039	-	-	943	-	-	166	153	678	194	152	737
Mov Cap-2 Maneuver	-	-	-	-	-	-	166	153	-	194	152	-
Stage 1	-	-	-	-	-	-	397	436	-	448	470	-
Stage 2	-	-	-	-	-	-	585	464	-	583	428	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	0.8	16.9	22.1
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	345	1039	-	-	943	-	-	265
HCM Lane V/C Ratio	0.123	0.025	-	-	0.038	-	-	0.205
HCM Control Delay (s)	16.9	8.6	0.2	-	9	0.2	-	22.1
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.4	0.1	-	-	0.1	-	-	0.8



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	350	121	53	316	75	101	692	27	130	647	38
Future Volume (veh/h)	59	350	121	53	316	75	101	692	27	130	647	38
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	380	132	58	343	82	110	752	29	141	703	41
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	266	662	227	220	727	172	372	1113	943	532	1113	943
Arrive On Green	0.08	0.08	0.08	0.25	0.25	0.25	1.00	1.00	1.00	0.60	0.60	0.60
Sat Flow, veh/h	962	2597	890	888	2853	673	716	1870	1585	692	1870	1585
Grp Volume(v), veh/h	64	258	254	58	212	213	110	752	29	141	703	41
Grp Sat Flow(s),veh/h/ln	962	1777	1710	888	1777	1749	716	1870	1585	692	1870	1585
Q Serve(g_s), s	3.9	8.4	8.6	3.7	6.1	6.2	5.1	0.0	0.0	6.2	14.6	0.6
Cycle Q Clear(g_c), s	10.1	8.4	8.6	12.3	6.1	6.2	19.7	0.0	0.0	6.2	14.6	0.6
Prop In Lane	1.00		0.52	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	266	453	436	220	453	446	372	1113	943	532	1113	943
V/C Ratio(X)	0.24	0.57	0.58	0.26	0.47	0.48	0.30	0.68	0.03	0.27	0.63	0.04
Avail Cap(c_a), veh/h	309	533	513	260	533	525	372	1113	943	532	1113	943
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.47	0.47	0.47	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.1	24.3	24.4	25.3	18.9	19.0	4.0	0.0	0.0	6.2	7.9	5.0
Incr Delay (d2), s/veh	0.5	1.1	1.2	0.6	0.8	0.8	1.0	1.6	0.0	1.2	2.7	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(95%),veh/ln	1.8	6.9	6.8	1.4	4.3	4.3	0.7	0.9	0.0	1.6	8.9	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.6	25.5	25.6	25.9	19.7	19.8	5.0	1.6	0.0	7.4	10.6	5.1
LnGrp LOS	C	C	C	C	B	B	A	A	A	A	B	A
Approach Vol, veh/h		576			483			891			885	
Approach Delay, s/veh		25.9			20.5			1.9			9.8	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.2		19.8		40.2		19.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		21.7		12.1		16.6		14.3				
Green Ext Time (p_c), s		4.8		1.8		5.8		1.0				

Intersection Summary												
HCM 6th Ctrl Delay			12.4									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.6
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	22	147	52	19	99	21	0	0	0	24	38	18
Future Vol, veh/h	22	147	52	19	99	21	0	0	0	24	38	18
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	24	160	57	21	108	23	0	0	0	26	41	20
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.8	8.3	8.3
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	10%	14%	30%
Vol Thru, %	67%	71%	47%
Vol Right, %	24%	15%	23%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	221	139	80
LT Vol	22	19	24
Through Vol	147	99	38
RT Vol	52	21	18
Lane Flow Rate	240	151	87
Geometry Grp	1	1	1
Degree of Util (X)	0.279	0.182	0.114
Departure Headway (Hd)	4.183	4.325	4.703
Convergence, Y/N	Yes	Yes	Yes
Cap	860	831	763
Service Time	2.198	2.341	2.724
HCM Lane V/C Ratio	0.279	0.182	0.114
HCM Control Delay	8.8	8.3	8.3
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1.1	0.7	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	99	22	54	89	57	24	827	67	38	744	15
Future Volume (veh/h)	56	99	22	54	89	57	24	827	67	38	744	15
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	108	24	59	97	62	26	899	73	41	809	16
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	146	175	34	135	143	80	576	1172	95	316	1256	25
Arrive On Green	0.16	0.16	0.16	0.16	0.16	0.16	0.69	0.69	0.69	1.00	1.00	1.00
Sat Flow, veh/h	413	1075	211	360	875	491	664	1707	139	578	1828	36
Grp Volume(v), veh/h	193	0	0	218	0	0	26	0	972	41	0	825
Grp Sat Flow(s),veh/h/ln	1699	0	0	1725	0	0	664	0	1845	578	0	1864
Q Serve(g_s), s	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.0	20.9	2.4	0.0	0.0
Cycle Q Clear(g_c), s	6.2	0.0	0.0	7.0	0.0	0.0	0.8	0.0	20.9	23.3	0.0	0.0
Prop In Lane	0.32		0.12	0.27		0.28	1.00		0.08	1.00		0.02
Lane Grp Cap(c), veh/h	356	0	0	357	0	0	576	0	1268	316	0	1280
V/C Ratio(X)	0.54	0.00	0.00	0.61	0.00	0.00	0.05	0.00	0.77	0.13	0.00	0.64
Avail Cap(c_a), veh/h	574	0	0	577	0	0	576	0	1268	316	0	1280
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.78	0.00	0.78
Uniform Delay (d), s/veh	23.6	0.0	0.0	23.9	0.0	0.0	3.1	0.0	6.2	5.9	0.0	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.0	1.7	0.0	0.0	0.1	0.0	4.5	0.7	0.0	2.0
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(95%),veh/ln	4.6	0.0	0.0	5.2	0.0	0.0	0.2	0.0	10.5	0.5	0.0	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.9	0.0	0.0	25.6	0.0	0.0	3.2	0.0	10.7	6.6	0.0	2.0
LnGrp LOS	C	A	A	C	A	A	A	A	B	A	A	A
Approach Vol, veh/h		193			218			998			866	
Approach Delay, s/veh		24.9			25.6			10.5			2.2	
Approach LOS		C			C			B			A	

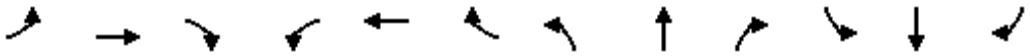
Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	45.7	14.3	45.7	14.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	32.9	18.1	32.9	18.1
Max Q Clear Time (g_c+I1), s	22.9	8.2	25.3	9.0
Green Ext Time (p_c), s	5.4	0.7	3.7	0.8

Intersection Summary	
HCM 6th Ctrl Delay	10.0
HCM 6th LOS	A

Future with Project Conditions (Year 2024)

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	343	60	6	334	51	75	115	13	17	91	5
Future Volume (veh/h)	6	343	60	6	334	51	75	115	13	17	91	5
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	373	65	7	363	55	82	125	14	18	99	5
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	65	565	97	66	578	86	436	638	67	190	993	48
Arrive On Green	0.19	0.19	0.19	0.06	0.06	0.06	0.66	0.66	0.66	0.66	0.66	0.66
Sat Flow, veh/h	19	2942	504	19	3006	448	538	970	102	184	1510	72
Grp Volume(v), veh/h	237	0	208	226	0	199	221	0	0	122	0	0
Grp Sat Flow(s),veh/h/ln	1853	0	1611	1852	0	1621	1610	0	0	1766	0	0
Q Serve(g_s), s	0.0	0.0	7.2	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	7.0	0.0	7.2	7.1	0.0	7.2	2.8	0.0	0.0	1.4	0.0	0.0
Prop In Lane	0.03		0.31	0.03		0.28	0.37		0.06	0.15		0.04
Lane Grp Cap(c), veh/h	418	0	310	418	0	312	1141	0	0	1231	0	0
V/C Ratio(X)	0.57	0.00	0.67	0.54	0.00	0.64	0.19	0.00	0.00	0.10	0.00	0.00
Avail Cap(c_a), veh/h	811	0	658	810	0	662	1141	0	0	1231	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	22.4	0.0	22.5	26.0	0.0	26.1	4.0	0.0	0.0	3.8	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.5	1.1	0.0	2.2	0.4	0.0	0.0	0.2	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(95%),veh/ln	5.4	0.0	4.9	6.0	0.0	5.5	1.5	0.0	0.0	0.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.6	0.0	25.0	27.1	0.0	28.2	4.4	0.0	0.0	3.9	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		445			425			221			122	
Approach Delay, s/veh		24.3			27.6			4.4			3.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		44.0		16.0		44.0		16.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		24.5		26.5		24.5				
Max Q Clear Time (g_c+I1), s		4.8		9.2		3.4		9.2				
Green Ext Time (p_c), s		1.2		2.3		0.6		2.2				

Intersection Summary												
HCM 6th Ctrl Delay			19.8									
HCM 6th LOS			B									

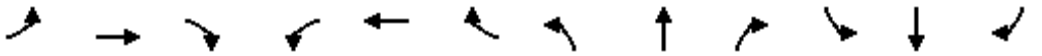
Intersection	
Int Delay, s/veh	2.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	26	402	45	47	392	19	31	1	41	11	7	14
Future Vol, veh/h	26	402	45	47	392	19	31	1	41	11	7	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	28	437	49	51	426	21	34	1	45	12	8	15

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	447	0	0	486	0	0	837	1067	243	814	1081	224
Stage 1	-	-	-	-	-	-	518	518	-	539	539	-
Stage 2	-	-	-	-	-	-	319	549	-	275	542	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1110	-	-	1073	-	-	259	221	758	270	216	779
Stage 1	-	-	-	-	-	-	509	531	-	494	520	-
Stage 2	-	-	-	-	-	-	667	515	-	708	518	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1110	-	-	1073	-	-	228	200	758	235	195	779
Mov Cap-2 Maneuver	-	-	-	-	-	-	228	200	-	235	195	-
Stage 1	-	-	-	-	-	-	491	512	-	477	487	-
Stage 2	-	-	-	-	-	-	603	483	-	642	500	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	1	17.2	17.7
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	374	1110	-	-	1073	-	-	318
HCM Lane V/C Ratio	0.212	0.025	-	-	0.048	-	-	0.109
HCM Control Delay (s)	17.2	8.3	0.1	-	8.5	0.2	-	17.7
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.8	0.1	-	-	0.1	-	-	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	54	248	78	40	340	105	77	731	27	68	496	33
Future Volume (veh/h)	54	248	78	40	340	105	77	731	27	68	496	33
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	59	270	85	43	370	114	84	795	29	74	539	36
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	224	636	196	263	638	194	501	1145	970	527	1145	970
Arrive On Green	0.08	0.08	0.08	0.24	0.24	0.24	1.00	1.00	1.00	0.61	0.61	0.61
Sat Flow, veh/h	911	2675	824	1026	2684	816	838	1870	1585	665	1870	1585
Grp Volume(v), veh/h	59	177	178	43	243	241	84	795	29	74	539	36
Grp Sat Flow(s),veh/h/ln	911	1777	1722	1026	1777	1723	838	1870	1585	665	1870	1585
Q Serve(g_s), s	3.8	5.7	5.9	2.3	7.3	7.4	1.8	0.0	0.0	2.9	9.4	0.5
Cycle Q Clear(g_c), s	11.2	5.7	5.9	8.2	7.3	7.4	11.3	0.0	0.0	2.9	9.4	0.5
Prop In Lane	1.00		0.48	1.00		0.47	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	224	422	409	263	422	410	501	1145	970	527	1145	970
V/C Ratio(X)	0.26	0.42	0.43	0.16	0.58	0.59	0.17	0.69	0.03	0.14	0.47	0.04
Avail Cap(c_a), veh/h	281	533	517	327	533	517	501	1145	970	527	1145	970
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.46	0.46	0.46	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.9	23.7	23.8	23.2	20.2	20.3	1.4	0.0	0.0	5.1	6.3	4.6
Incr Delay (d2), s/veh	0.6	0.7	0.7	0.3	1.2	1.3	0.3	1.6	0.0	0.6	1.4	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(95%),veh/ln	1.7	4.4	4.5	1.0	5.2	5.2	0.1	0.9	0.0	0.7	5.7	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.5	24.4	24.5	23.5	21.4	21.6	1.8	1.6	0.0	5.6	7.7	4.7
LnGrp LOS	C	C	C	C	C	C	A	A	A	A	A	A
Approach Vol, veh/h		414			527			908			649	
Approach Delay, s/veh		25.3			21.7			1.6			7.3	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.2		18.8		41.2		18.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		13.3		13.2		11.4		10.2				
Green Ext Time (p_c), s		6.5		1.0		4.4		1.9				

Intersection Summary												
HCM 6th Ctrl Delay			11.2									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.6
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	39	144	21	12	85	24	0	0	0	32	40	24
Future Vol, veh/h	39	144	21	12	85	24	0	0	0	32	40	24
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	42	157	23	13	92	26	0	0	0	35	43	26
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	8.9	8.1	8.4
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	19%	10%	33%
Vol Thru, %	71%	70%	42%
Vol Right, %	10%	20%	25%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	204	121	96
LT Vol	39	12	32
Through Vol	144	85	40
RT Vol	21	24	24
Lane Flow Rate	222	132	104
Geometry Grp	1	1	1
Degree of Util (X)	0.265	0.158	0.134
Departure Headway (Hd)	4.301	4.318	4.626
Convergence, Y/N	Yes	Yes	Yes
Cap	838	833	776
Service Time	2.315	2.335	2.648
HCM Lane V/C Ratio	0.265	0.158	0.134
HCM Control Delay	8.9	8.1	8.4
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1.1	0.6	0.5



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	98	29	24	86	43	49	887	29	12	701	24
Future Volume (veh/h)	50	98	29	24	86	43	49	887	29	12	701	24
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	54	107	32	26	93	47	53	964	32	13	762	26
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	132	158	42	95	161	74	603	1265	42	323	1263	43
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.70	0.70	0.70	1.00	1.00	1.00
Sat Flow, veh/h	374	1075	288	172	1095	500	687	1800	60	565	1798	61
Grp Volume(v), veh/h	193	0	0	166	0	0	53	0	996	13	0	788
Grp Sat Flow(s),veh/h/ln	1737	0	0	1767	0	0	687	0	1860	565	0	1859
Q Serve(g_s), s	1.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	20.6	0.7	0.0	0.0
Cycle Q Clear(g_c), s	6.2	0.0	0.0	5.2	0.0	0.0	1.5	0.0	20.6	21.3	0.0	0.0
Prop In Lane	0.28		0.17	0.16		0.28	1.00		0.03	1.00		0.03
Lane Grp Cap(c), veh/h	333	0	0	330	0	0	603	0	1307	323	0	1306
V/C Ratio(X)	0.58	0.00	0.00	0.50	0.00	0.00	0.09	0.00	0.76	0.04	0.00	0.60
Avail Cap(c_a), veh/h	577	0	0	583	0	0	603	0	1307	323	0	1306
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.90	0.00	0.90
Uniform Delay (d), s/veh	24.4	0.0	0.0	24.0	0.0	0.0	2.9	0.0	5.7	5.2	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0	1.2	0.0	0.0	0.3	0.0	4.2	0.2	0.0	1.9
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(95%),veh/ln	4.7	0.0	0.0	3.9	0.0	0.0	0.3	0.0	10.0	0.1	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	0.0	0.0	25.2	0.0	0.0	3.2	0.0	10.0	5.4	0.0	1.9
LnGrp LOS	C	A	A	C	A	A	A	A	A	A	A	A
Approach Vol, veh/h		193			166			1049			801	
Approach Delay, s/veh		26.0			25.2			9.6			1.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	46.7	13.3	46.7	13.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	33.0	18.0	33.0	18.0
Max Q Clear Time (g_c+I1), s	22.6	8.2	23.3	7.2
Green Ext Time (p_c), s	5.8	0.7	4.0	0.6

Intersection Summary	
HCM 6th Ctrl Delay	9.4
HCM 6th LOS	A

Intersection	
Int Delay, s/veh	3.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	34	37	39	45	78	30
Future Vol, veh/h	34	37	39	45	78	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	40	42	49	85	33

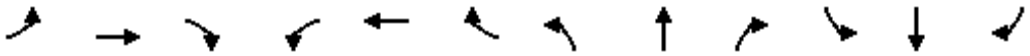
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	235	102	118	0	-	0
Stage 1	102	-	-	-	-	-
Stage 2	133	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	753	953	1470	-	-	-
Stage 1	922	-	-	-	-	-
Stage 2	893	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	731	953	1470	-	-	-
Mov Cap-2 Maneuver	731	-	-	-	-	-
Stage 1	895	-	-	-	-	-
Stage 2	893	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.8	3.5	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1470	-	832	-	-
HCM Lane V/C Ratio	0.029	-	0.093	-	-
HCM Control Delay (s)	7.5	0	9.8	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	-	-

HCM 6th Signalized Intersection Summary
1: Meridian Ave & Mission St

12/09/2021



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	502	57	5	356	33	41	95	18	41	127	11
Future Volume (veh/h)	1	502	57	5	356	33	41	95	18	41	127	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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	1	546	62	5	387	36	45	103	20	45	138	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	774	87	64	786	72	298	655	118	264	775	63
Arrive On Green	0.25	0.25	0.25	0.08	0.08	0.08	0.60	0.60	0.60	0.60	0.60	0.60
Sat Flow, veh/h	1	3150	356	11	3200	294	368	1084	196	315	1282	105
Grp Volume(v), veh/h	324	0	285	226	0	202	168	0	0	195	0	0
Grp Sat Flow(s),veh/h/ln	1869	0	1638	1856	0	1649	1647	0	0	1702	0	0
Q Serve(g_s), s	0.0	0.0	9.5	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	9.5	0.0	9.5	6.9	0.0	7.0	2.4	0.0	0.0	2.8	0.0	0.0
Prop In Lane	0.00		0.22	0.02		0.18	0.27		0.12	0.23		0.06
Lane Grp Cap(c), veh/h	519	0	402	517	0	405	1071	0	0	1102	0	0
V/C Ratio(X)	0.62	0.00	0.71	0.44	0.00	0.50	0.16	0.00	0.00	0.18	0.00	0.00
Avail Cap(c_a), veh/h	854	0	696	843	0	701	1071	0	0	1102	0	0
HCM Platoon Ratio	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	20.6	0.0	20.7	24.0	0.0	24.0	5.2	0.0	0.0	5.3	0.0	0.0
Incr Delay (d2), s/veh	1.2	0.0	2.3	0.6	0.0	0.9	0.3	0.0	0.0	0.4	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(95%),veh/ln	7.2	0.0	6.5	5.8	0.0	5.2	1.4	0.0	0.0	1.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	21.9	0.0	23.0	24.6	0.0	25.0	5.5	0.0	0.0	5.6	0.0	0.0
LnGrp LOS	C	A	C	C	A	C	A	A	A	A	A	A
Approach Vol, veh/h		609			428			168			195	
Approach Delay, s/veh		22.4			24.8			5.5			5.6	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.8		19.2		40.8		19.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		25.5		25.5		25.5		25.5				
Max Q Clear Time (g_c+I1), s		4.4		11.5		4.8		9.0				
Green Ext Time (p_c), s		0.9		3.2		1.0		2.3				

Intersection Summary												
HCM 6th Ctrl Delay			18.7									
HCM 6th LOS			B									

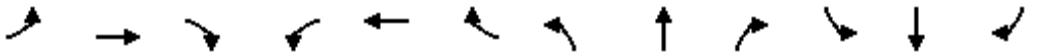
Intersection	
Int Delay, s/veh	2.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	24	550	50	49	455	27	19	2	36	14	13	23
Future Vol, veh/h	24	550	50	49	455	27	19	2	36	14	13	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	26	598	54	53	495	29	21	2	39	15	14	25

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	524	0	0	652	0	0	1038	1307	326	968	1320	262
Stage 1	-	-	-	-	-	-	677	677	-	616	616	-
Stage 2	-	-	-	-	-	-	361	630	-	352	704	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1039	-	-	930	-	-	185	158	670	208	156	737
Stage 1	-	-	-	-	-	-	409	450	-	445	480	-
Stage 2	-	-	-	-	-	-	630	473	-	638	438	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1039	-	-	930	-	-	150	139	670	176	138	737
Mov Cap-2 Maneuver	-	-	-	-	-	-	150	139	-	176	138	-
Stage 1	-	-	-	-	-	-	393	432	-	427	441	-
Stage 2	-	-	-	-	-	-	541	435	-	574	420	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	1.1	20.6	23.9
HCM LOS			C	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	293	1039	-	-	930	-	-	244
HCM Lane V/C Ratio	0.211	0.025	-	-	0.057	-	-	0.223
HCM Control Delay (s)	20.6	8.6	0.2	-	9.1	0.3	-	23.9
HCM Lane LOS	C	A	A	-	A	A	-	C
HCM 95th %tile Q(veh)	0.8	0.1	-	-	0.2	-	-	0.8



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	353	121	53	323	75	101	692	27	130	647	46
Future Volume (veh/h)	63	353	121	53	323	75	101	692	27	130	647	46
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	68	384	132	58	351	82	110	752	29	141	703	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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	264	667	226	219	734	169	368	1111	941	531	1111	941
Arrive On Green	0.08	0.08	0.08	0.26	0.26	0.26	1.00	1.00	1.00	0.59	0.59	0.59
Sat Flow, veh/h	955	2604	884	885	2867	662	710	1870	1585	692	1870	1585
Grp Volume(v), veh/h	68	260	256	58	216	217	110	752	29	141	703	50
Grp Sat Flow(s),veh/h/ln	955	1777	1711	885	1777	1751	710	1870	1585	692	1870	1585
Q Serve(g_s), s	4.2	8.5	8.6	3.7	6.2	6.3	5.2	0.0	0.0	6.2	14.7	0.8
Cycle Q Clear(g_c), s	10.5	8.5	8.6	12.4	6.2	6.3	19.9	0.0	0.0	6.2	14.7	0.8
Prop In Lane	1.00		0.52	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	264	455	438	219	455	449	368	1111	941	531	1111	941
V/C Ratio(X)	0.26	0.57	0.58	0.26	0.47	0.48	0.30	0.68	0.03	0.27	0.63	0.05
Avail Cap(c_a), veh/h	306	533	513	258	533	525	368	1111	941	531	1111	941
HCM Platoon Ratio	0.33	0.33	0.33	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	0.47	0.47	0.47	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.3	24.3	24.4	25.3	18.9	18.9	4.1	0.0	0.0	6.2	7.9	5.1
Incr Delay (d2), s/veh	0.5	1.1	1.2	0.6	0.8	0.8	1.0	1.6	0.0	1.2	2.7	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(95%),veh/ln	1.9	7.0	6.9	1.4	4.4	4.4	0.7	0.9	0.0	1.6	9.0	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.8	25.4	25.6	25.9	19.7	19.8	5.1	1.6	0.0	7.4	10.7	5.2
LnGrp LOS	C	C	C	C	B	B	A	A	A	A	B	A
Approach Vol, veh/h		584			491			891			894	
Approach Delay, s/veh		25.9			20.4			2.0			9.9	
Approach LOS		C			C			A			A	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.1		19.9		40.1		19.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		33.0		18.0		33.0		18.0				
Max Q Clear Time (g_c+I1), s		21.9		12.5		16.7		14.4				
Green Ext Time (p_c), s		4.7		1.7		5.8		1.0				

Intersection Summary												
HCM 6th Ctrl Delay			12.5									
HCM 6th LOS			B									

Intersection	
Intersection Delay, s/veh	8.9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	43	147	52	19	99	37	0	0	0	32	43	24
Future Vol, veh/h	43	147	52	19	99	37	0	0	0	32	43	24
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
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	47	160	57	21	108	40	0	0	0	35	47	26
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	1	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	1	1
HCM Control Delay	9.3	8.5	8.6
HCM LOS	A	A	A

Lane	EBLn1	WBLn1	SBLn1
Vol Left, %	18%	12%	32%
Vol Thru, %	61%	64%	43%
Vol Right, %	21%	24%	24%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	242	155	99
LT Vol	43	19	32
Through Vol	147	99	43
RT Vol	52	37	24
Lane Flow Rate	263	168	108
Geometry Grp	1	1	1
Degree of Util (X)	0.313	0.204	0.143
Departure Headway (Hd)	4.286	4.356	4.79
Convergence, Y/N	Yes	Yes	Yes
Cap	839	826	749
Service Time	2.305	2.376	2.819
HCM Lane V/C Ratio	0.313	0.203	0.144
HCM Control Delay	9.3	8.5	8.6
HCM Lane LOS	A	A	A
HCM 95th-tile Q	1.3	0.8	0.5



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	101	28	54	92	57	36	827	67	38	744	15
Future Volume (veh/h)	56	101	28	54	92	57	36	827	67	38	744	15
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		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	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	61	110	30	59	100	62	39	899	73	41	809	16
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, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	143	173	42	134	146	80	575	1169	95	313	1251	25
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.68	0.68	0.68	1.00	1.00	1.00
Sat Flow, veh/h	395	1049	253	352	885	482	664	1707	139	578	1828	36
Grp Volume(v), veh/h	201	0	0	221	0	0	39	0	972	41	0	825
Grp Sat Flow(s),veh/h/ln	1697	0	0	1719	0	0	664	0	1845	578	0	1864
Q Serve(g_s), s	0.0	0.0	0.0	0.6	0.0	0.0	1.2	0.0	21.1	2.4	0.0	0.0
Cycle Q Clear(g_c), s	6.5	0.0	0.0	7.1	0.0	0.0	1.2	0.0	21.1	23.5	0.0	0.0
Prop In Lane	0.30		0.15	0.27		0.28	1.00		0.08	1.00		0.02
Lane Grp Cap(c), veh/h	359	0	0	360	0	0	575	0	1263	313	0	1276
V/C Ratio(X)	0.56	0.00	0.00	0.61	0.00	0.00	0.07	0.00	0.77	0.13	0.00	0.65
Avail Cap(c_a), veh/h	574	0	0	576	0	0	575	0	1263	313	0	1276
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	1.00	0.78	0.00	0.78
Uniform Delay (d), s/veh	23.6	0.0	0.0	23.8	0.0	0.0	3.2	0.0	6.3	6.0	0.0	0.0
Incr Delay (d2), s/veh	1.4	0.0	0.0	1.7	0.0	0.0	0.2	0.0	4.6	0.7	0.0	2.0
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(95%),veh/ln	4.7	0.0	0.0	5.3	0.0	0.0	0.2	0.0	10.7	0.5	0.0	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.9	0.0	0.0	25.5	0.0	0.0	3.4	0.0	10.9	6.7	0.0	2.0
LnGrp LOS	C	A	A	C	A	A	A	A	B	A	A	A
Approach Vol, veh/h		201			221			1011			866	
Approach Delay, s/veh		24.9			25.5			10.6			2.2	
Approach LOS		C			C			B			A	

Timer - Assigned Phs	2		4		6		8	
Phs Duration (G+Y+Rc), s	45.6		14.4		45.6		14.4	
Change Period (Y+Rc), s	4.5		4.5		4.5		4.5	
Max Green Setting (Gmax), s	32.9		18.1		32.9		18.1	
Max Q Clear Time (g_c+I1), s	23.1		8.5		25.5		9.1	
Green Ext Time (p_c), s	5.4		0.7		3.6		0.8	

Intersection Summary		
HCM 6th Ctrl Delay	10.1	
HCM 6th LOS	B	

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	22	25	44	38	79	36
Future Vol, veh/h	22	25	44	38	79	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	24	27	48	41	86	39

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	243	106	125	0	-	0
Stage 1	106	-	-	-	-	-
Stage 2	137	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	745	948	1462	-	-	-
Stage 1	918	-	-	-	-	-
Stage 2	890	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	720	948	1462	-	-	-
Mov Cap-2 Maneuver	720	-	-	-	-	-
Stage 1	887	-	-	-	-	-
Stage 2	890	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.6	4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1462	-	826	-	-
HCM Lane V/C Ratio	0.033	-	0.062	-	-
HCM Control Delay (s)	7.5	0	9.6	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.2	-	-

Appendix D

Signal Warrant Analysis Worksheets

Fairview Court Project

Traffic Signal Warrant Analysis
Warrant 3, Peak Hour

2. MISSION STREET & FAIRVIEW AVENUE

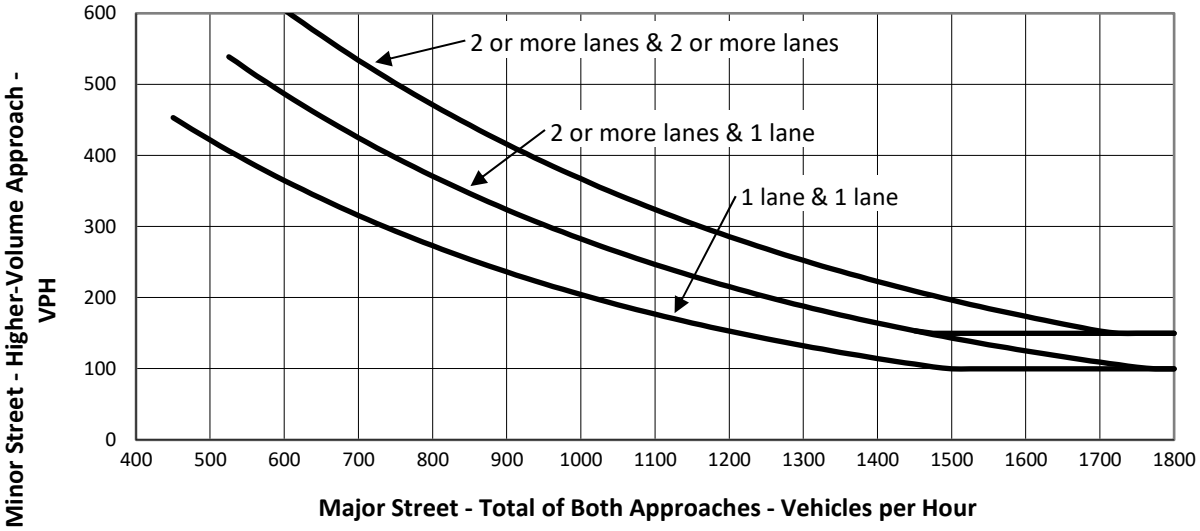
Major Street Name:	Mission Street	Vehicles per Hour (Peak Hour)	
Minor Street Name:	Fairview Avenue	Major Street (Approach 1):	458
		Major Street (Approach 2):	473
Major Street Lanes:	2	[a] Major Street Left-Turns:	0
Minor Street Lanes:	1	Minor Street (Higher Volume):	73

[b] Urban/Rural: Urban

Vehicles per Hour (Peak Hour)

Major Street (Approach 1):	458	Minimum Major Street Volume:	510
Major Street (Approach 2):	473	Satisfied?	YES
Total Major Street Volume:	931		
		Minimum Minor Street Volume:	310
Major Street Left Turns:	0	Satisfied?	NO
Minor Street (Higher Volume):	73		
Total Minor Street Volume:	73	Warrant 3 Satisfied?	**NO**

Figure 4C-3. Warrant 3, Peak Hour [c]



[a] Major street left-turn volume is added to minor street volume if a protected left-turn signal phase is proposed.

[b] Setting to "Rural" reduces minimum test volumes to approximately 70% of "Urban" test volumes. This may be used when major street speed exceeds 40 mph or in an isolated community of less than 10,000 residents.

[c] From *California Manual on Uniform Traffic Control Devices, 2014 Edition;* Caltrans.

FUTURE WITH PROJECT CONDITIONS (YEAR 2024) - PM PEAK

Fairview Court Project

Traffic Signal Warrant Analysis
Warrant 3, Peak Hour

2. MISSION STREET & FAIRVIEW AVENUE

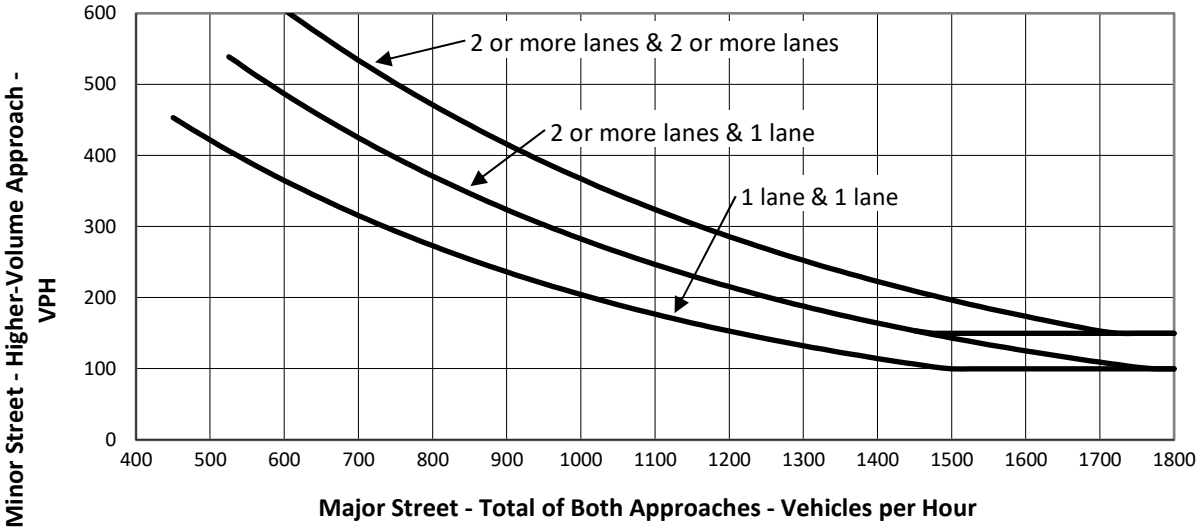
Major Street Name:	Mission Street	Vehicles per Hour (Peak Hour)	
Minor Street Name:	Fairview Avenue	Major Street (Approach 1):	531
		Major Street (Approach 2):	624
Major Street Lanes:	2	[a] Major Street Left-Turns:	0
Minor Street Lanes:	1	Minor Street (Higher Volume):	57

[b] Urban/Rural: Urban

Vehicles per Hour (Peak Hour)

Major Street (Approach 1):	531	Minimum Major Street Volume:	510
Major Street (Approach 2):	624	Satisfied?	YES
Total Major Street Volume:	1,155		
		Minimum Minor Street Volume:	229
Major Street Left Turns:	0	Satisfied?	NO
Minor Street (Higher Volume):	57		
Total Minor Street Volume:	57	Warrant 3 Satisfied?	**NO**

Figure 4C-3. Warrant 3, Peak Hour [c]



[a] Major street left-turn volume is added to minor street volume if a protected left-turn signal phase is proposed.

[b] Setting to "Rural" reduces minimum test volumes to approximately 70% of "Urban" test volumes. This may be used when major street speed exceeds 40 mph or in an isolated community of less than 10,000 residents.

[c] From *California Manual on Uniform Traffic Control Devices, 2014 Edition;* Caltrans.

1020 El Centro Mixed-Use Project

Traffic Signal Warrant Analysis
Warrant 3, Peak Hour

4. EL CENTRO STREET & FAIRVIEW AVENUE

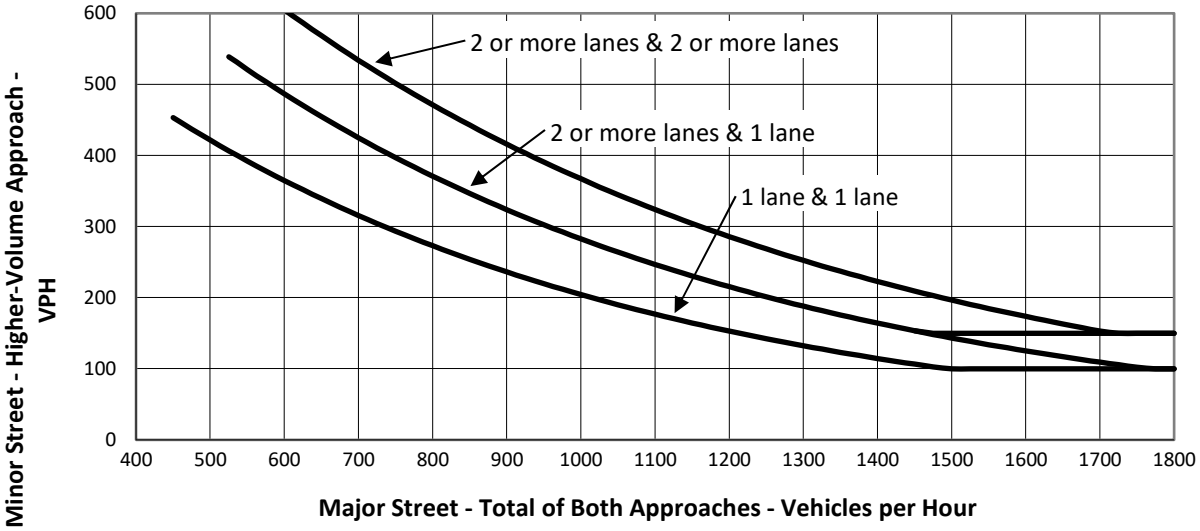
Major Street Name:	El Centro Street	Vehicles per Hour (Peak Hour)	
Minor Street Name:	Fairview Avenue	Major Street (Approach 1):	121
		Major Street (Approach 2):	204
Major Street Lanes:	1	[a] Major Street Left-Turns:	0
Minor Street Lanes:	1	Minor Street (Higher Volume):	96

[b] Urban/Rural: Urban

Vehicles per Hour (Peak Hour)

Major Street (Approach 1):	121	Minimum Major Street Volume:	450
Major Street (Approach 2):	204	Satisfied?	NO
Total Major Street Volume:	325		
		Minimum Minor Street Volume:	543
Major Street Left Turns:	0	Satisfied?	NO
Minor Street (Higher Volume):	96		
Total Minor Street Volume:	96	Warrant 3 Satisfied?	**NO**

Figure 4C-3. Warrant 3, Peak Hour [c]



[a] Major street left-turn volume is added to minor street volume if a protected left-turn signal phase is proposed.

[b] Setting to "Rural" reduces minimum test volumes to approximately 70% of "Urban" test volumes. This may be used when major street speed exceeds 40 mph or in an isolated community of less than 10,000 residents.

[c] From *California Manual on Uniform Traffic Control Devices, 2014 Edition;* Caltrans.

FUTURE WITH PROJECT CONDITIONS (YEAR 2024) - PM PEAK

Fairview Court Project

Traffic Signal Warrant Analysis
Warrant 3, Peak Hour

4. EL CENTRO STREET & FAIRVIEW AVENUE

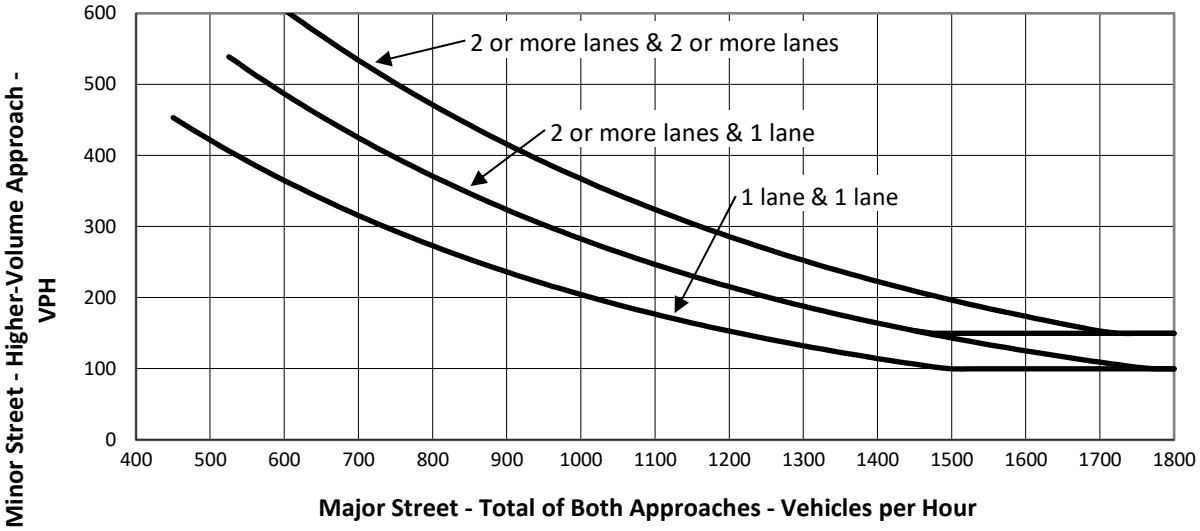
Major Street Name:	El Centro Street	Vehicles per Hour (Peak Hour)	
Minor Street Name:	Fairview Avenue	Major Street (Approach 1):	155
		Major Street (Approach 2):	242
Major Street Lanes:	2	[a] Major Street Left-Turns:	0
Minor Street Lanes:	1	Minor Street (Higher Volume):	99

[b] Urban/Rural: Urban

Vehicles per Hour (Peak Hour)

Major Street (Approach 1):	155	Minimum Major Street Volume:	510
Major Street (Approach 2):	242	Satisfied?	NO
Total Major Street Volume:	397		
		Minimum Minor Street Volume:	641
Major Street Left Turns:	0	Satisfied?	NO
Minor Street (Higher Volume):	99		
Total Minor Street Volume:	99	Warrant 3 Satisfied?	**NO**

Figure 4C-3. Warrant 3, Peak Hour [c]



[a] Major street left-turn volume is added to minor street volume if a protected left-turn signal phase is proposed.

[b] Setting to "Rural" reduces minimum test volumes to approximately 70% of "Urban" test volumes. This may be used when major street speed exceeds 40 mph or in an isolated community of less than 10,000 residents.

[c] From *California Manual on Uniform Traffic Control Devices, 2014 Edition;* Caltrans.

Appendix C

Noise Analysis

Kimley»Horn

1020 El Centro Street
Noise Analysis

Prepared for:

City of South Pasadena
Community Development Department
1414 Mission Street
South Pasadena, CA 91030

Prepared By:

Katie Wilson, M.S.
EcoTierra Consulting, Inc.
633 W. 5th Street, 26th Floor
Los Angeles, CA 90071

January 2022 (Revised July 2022)

EcoTierra
consulting

TABLE OF CONTENTS

I. INTRODUCTION AND SUMMARY 1

1. Purpose of Analysis and Study Objectives 1
2. Project Location 1
3. Project Description 1
4. Summary of Impacts 5
   - A. Construction Noise Impacts 5
   - B. Operational Noise Impacts 5
   - C. Vibration Impacts 5
   - D. Airport Noise Impacts 5

II. NOISE FUNDAMENTALS 6

1. Noise Descriptions 6
2. Tone Noise 7
3. Noise Propagation 7
4. Ground Absorption 7
5. Traffic Noise Prediction 8
6. Noise Barrier Attenuation 8

III. GROUND BORNE VIBRATION FUNDAMENTALS 9

1. Vibration Descriptors 9
2. Vibration Perception 9
3. Vibration Propagation 9
4. Constrution-Related Vibration Level Prediction 10

IV. REGULATORY SETTING 12

1. Federal Regulations 12
2. State Regulations 12
3. Local Regulations 13
   - A. City of South Pasadena General Plan 13
   - B. City of South Pasadena Municipal Code 14

4. California Environmental Quality Act Significance Thresholds 16
V. EXISTING NOISE CONDITIONS 18
1. Measurement Procedure and Criteria 18
A. Noise Measurement Equipment 18
B. Noise Measurement Locations 18
C. Noise Measurement Timing and Climate 18
2. Noise Measurement Results 20
A. Traffic Noise Modeling Results 20
VI. NOISE AND VIBRATION IMPACT ANALYSES 22
1. Exceedance of Noise Standards 22
A. Construciton Noise 22
2. Groundborne Vibration 26
A. Construciton Vibration 27
B. Operation Vibration 28
3. Operational Noise 29
A. Parking Noise 29
B. Stationary Noise Sources 29
C. Traffic Noise 30
4. Airport Noise 31
VII. NOISE/VIBRATION REDUCTION TECNIQUES 32
1. Construction Tecniques 32
2. Operational Tecniques 32
VIII. LIST OF ACRONYMS AND ABBREVIATIONS 33
IX. REFERENCES 34

APPENDICES

Appendix A: Study Area Photographic Index and Noise Measurement Data
Appendix B: Noise Meter Print Outs
Appendix C: RCNM Construction Noise and FHWA Road Noise Calculations

LIST OF FIGURES

Figure 1: Project Location Map 3
Figure 2: Site Plan 4
Figure 3: Noise Monitoring Locations 19

LIST OF TABLES

Table 1: Vibration Source Levels for Construction Equipment 10
Table 2: Construction Vibration Damage Criteria 11
Table 3: City of South Pasadena Noise Compatiblity Guidelines 15
Table 4: Existing Noise Level Measurements (dBA) 20
Table 5: Closest Sensitive Receptors to the Project Site 23
Table 6: Typical Construction Equipment Noise Levels 25
Table 7: Maximum Construction Noise Levels at Closest Receptors 26
Table 8: Project-Related Increase in Traffic Noise 30

I. INTRODUCTION AND SUMMARY

1. PURPOSE OF ANALYSIS AND STUDY OBJECTIVES

This Noise Impact Study has been prepared by EcoTierra Consulting to determine the offsite and onsite noise impacts associated with the 1020 El Centro Street Project. The following is provided in this report:

- A description of the study area and the proposed project.
- Information regarding the fundamentals of noise.
- Information regarding the fundamentals of vibration.
- A description of the local noise guidelines and standards.
- An evaluation of the current noise environment.
- An analysis of the potential short-term construction-related noise and vibration impacts from the proposed project.
- An analysis of long-term operations-related noise and vibration impacts from the proposed project.
- An evaluation of airport-related noise impacts to the proposed project.

2. PROJECT LOCATION

The project is located at 1020 El Centro Street in the City of South Pasadena. The project site is bounded by Mission Street to the north, Fairview Avenue to the east, El Centro Street to the south, and Diamond Avenue to the west. The Project is located within the City's Mission Street Specific Plan (April 1996) area. Most nearby uses include local-serving commercial and residential, as well as the South Pasadena Public Library. The project site is also located approximately 400 feet east of the Los Angeles County Metropolitan Transportation Authority (Metro) L Line (formerly Gold Line) South Pasadena Station and approximately 0.25 miles south of the Arroyo Seco Parkway (SR 110). A vicinity map showing the project location is provided on **Figure 1, Project Location Map**.

3. PROJECT DESCRIPTION

The project includes the construction of up to 108 multi-family housing units, including 22 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium located along the southern and eastern boundaries of the Project Site as part of its proposed commercial space.[1] The project site is approximately 1.9 total acres (with the existing buildings). The total commercial space would include up to 26,468 square feet (SF) of floor area with 13,234 SF of retail and 13,234 SF of high-turnover restaurant. The project would provide 274 automobile parking spaces in a subterranean parking structure with access

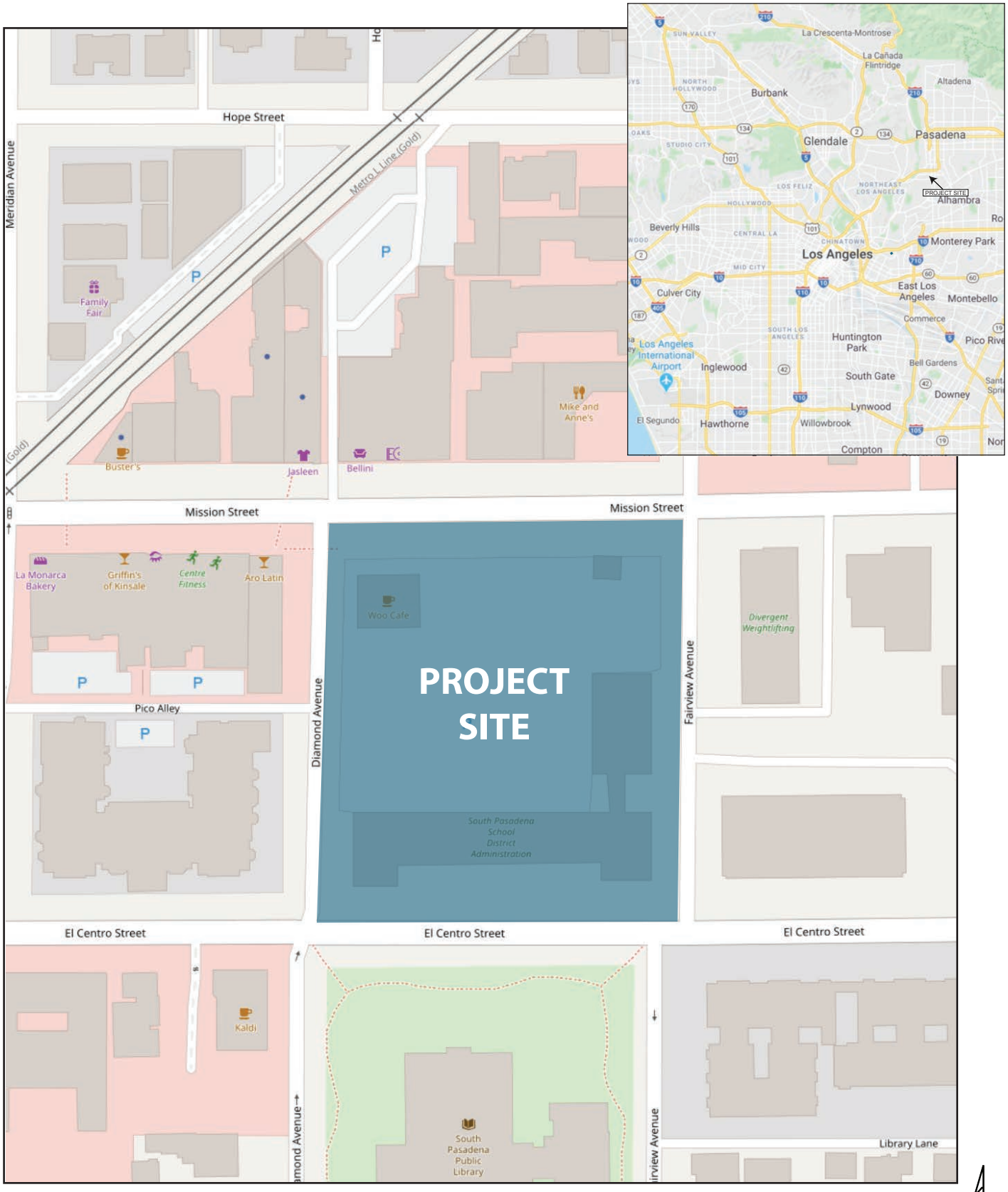
[1] Adaptive re-use will involve the removal of approximately 11,435 SF of office (school administration building).

via one driveway proposed at the approximate location of the existing driveway on Fairview Avenue. Pedestrian and bicycle access to the project site would be provided via entrances along all street frontages around the project site perimeter. The existing surface parking lot (approximately 56,628 SF) would be removed to accommodate the development of the Project.[2] **Figure 2, Site Plan**, illustrates the proposed site plan.

The project is anticipated to be built in one phase with project construction to start no sooner than March 2023 and be completed before 2025. The Project is anticipated to be operational in 2024.[3] The Project would include approximately 37,420 cubic yards (CY) of cut (export).

[2] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. As the original analysis was based on a larger project, the original analysis is more conservative and considered to be worst-case.

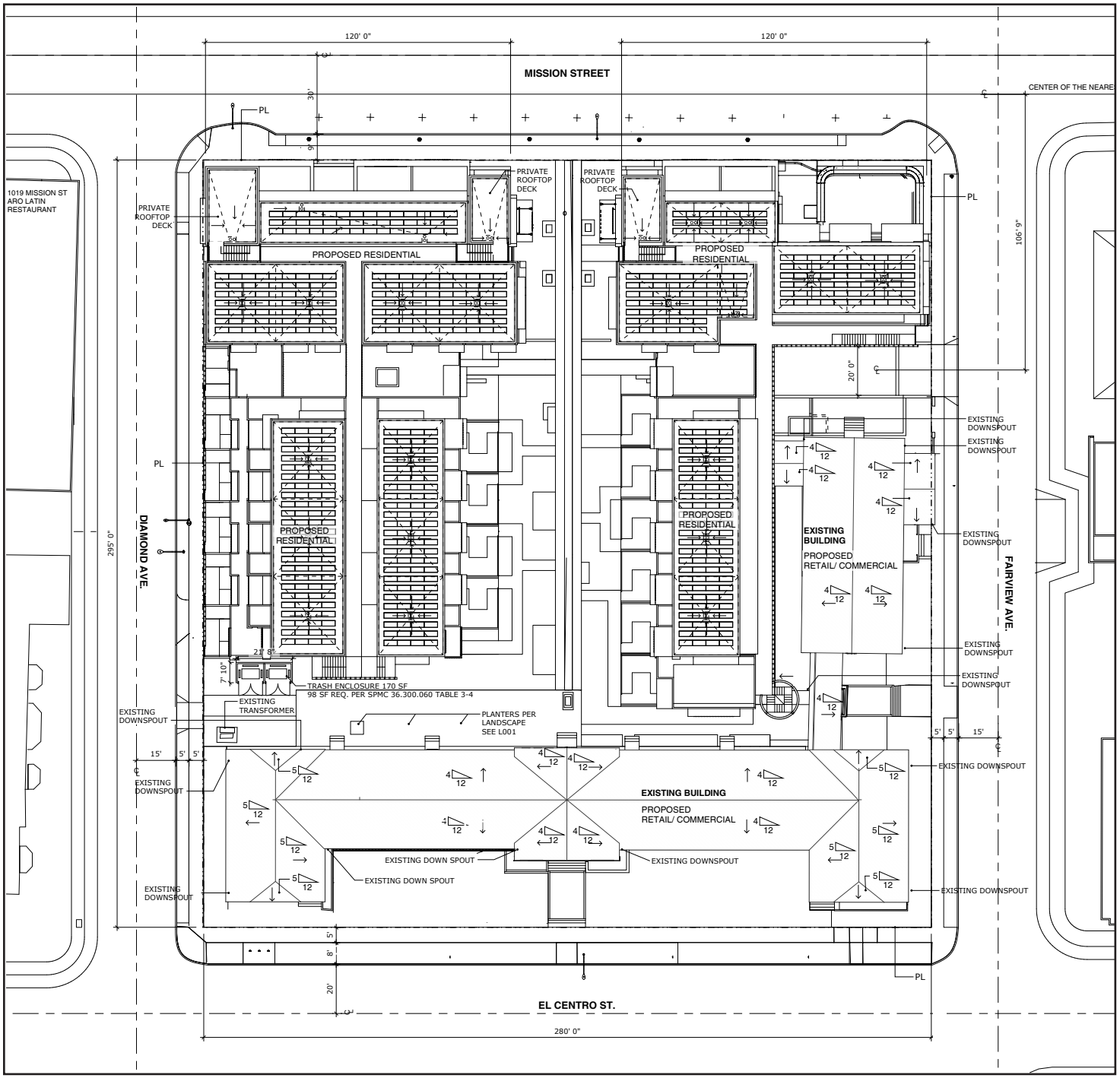
[3] Operational year in the Transportation Study (Gibson, 2021) is 2024.



Project Site

Source: Google Earth and Open Street Maps, December 2021.

Figure 1
Project Location Map



Source: Gangi Architecs, April 2022.

Figure 2
Site Plan

4. SUMMARY OF IMPACTS

A. Construction Noise Impacts

Construction noise levels were modeled for each phase using methodology presented in the Road Construction Noise Model (RCNM) User's Guide. Modeled unmitigated noise levels will not exceed 80 dBA L_{eq} at the closest sensitive receptor locations. Construction noise levels are considered to be less than significant.

B. Operational Noise Impacts

The proposed project would not result in a perceptible increase in noise due to the increase of project-related traffic on roadways in the project vicinity. The calculated noise levels show that the project would contribute a maximum of 2 dBA to existing noise levels. As the project-related increase in traffic noise does not exceed 3 dBA, the project would not contribute to a substantial permanent increase in ambient noise levels in the project vicinity. Impacts are considered less than significant.

On-site noise sources (heating, ventilation and air conditioning (HVAC) and parking lot noise) associated with the proposed project will not result in a significant increase in ambient noise levels at closest receptor locations. Impacts related to project operational noise would be less than significant.

C. Vibration Impacts

With incorporation of vibration reduction technique **VRT-1** into the project's Vibration Management Plan, groundborne vibration levels associated with vibration-generating equipment that may be utilized during project construction would not exceed any (Federal Transit Administration) FTA damage criteria or any California Department of Transportation (Caltrans) human annoyance criteria (see Section VII of this report for details on **VRT-1**). The project will not be a source of operational vibration.

D. Airport Noise Impacts

The project is not located within an airport noise contour and airport-related noise impacts are considered to be less than significant.

II. NOISE FUNDAMENTALS

Noise is defined as unwanted sound. Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm or when it has adverse effects on health. Sound is produced by the vibration of sound pressure waves in the air. Sound pressure levels are used to measure the intensity of sound and are described in terms of decibels. The decibel (dB) is a logarithmic unit, which expresses the ratio of the sound pressure level being measured to a standard reference level. A-weighted decibels (dBA) approximate the subjective response of the human ear to a broad frequency noise source by discriminating against very low and very high frequencies of the audible spectrum. They are adjusted to reflect only those frequencies that are audible to the human ear.

1. NOISE DESCRIPTIONS

Noise equivalent sound levels are not measured directly, but are calculated from sound pressure levels typically measured in dBA. The equivalent sound level (L_{eq}) represents a steady state sound level containing the same total energy as a time varying signal over a given sample period. The peak traffic hour L_{eq} is the noise metric used by California Department of Transportation (Caltrans) for all traffic noise impact analyses.

The Day-Night Average Sound Level (L_{dn}) is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time-of-day corrections require the addition of ten decibels to sound levels at night between 10 p.m. and 7 a.m. While the Community Noise Equivalent Level (CNEL) is similar to the L_{dn}, except that it has another addition of 4.77 dB to sound levels during the evening hours between 7 p.m. and 10 p.m. These additions are made to the sound levels at these times because during the evening and nighttime hours, when compared to daytime hours, there is a decrease in the ambient noise levels, which creates an increased sensitivity to sounds. For this reason, the sound is perceived to be louder in the evening and nighttime hours and is weighted accordingly. Many cities rely on the CNEL noise standard to assess transportation-related impacts on noise sensitive land uses.

Another noise descriptor that is used primarily for the assessment of aircraft noise impacts is the Sound Exposure Level, which is also called the Single Event Level (SEL). The SEL descriptor represents the acoustic energy of a single event (i.e., an aircraft overflight) normalized to one-second event duration. This is useful for comparing the acoustical energy of different events involving different durations of the noise sources. The SEL is based on an integration of the noise during the period when the noise first rises within 10 dBA of its maximum value and last falls below 10 dBA of its maximum value. The SEL is often 10 dBA greater, or more, than the L_{MAX} since the SEL logarithmetically adds the L_{eq} for each second of the duration of the noise.

2. TONE NOISE

A pure tone noise is a noise produced at a single frequency and laboratory tests have shown the humans are more perceptible to changes in noise levels of a pure tone (Caltrans 1998). For a noise source to contain a "pure tone," there must be a significantly higher A-weighted sound energy in a given frequency band than in the neighboring bands, thereby causing the noise source to "stand out" against other noise sources. A pure tone occurs if the sound pressure level in the one-third octave band with the tone exceeds the average of the sound pressure levels of the two contagious one-third octave bands by: 5 dB for center frequencies of 500 Hertz (Hz) and above; by 8 dB for center frequencies between 160 and 400 Hz; and by 15 dB for center frequencies of 125 Hz or less (Department of Health Services 1977).

3. NOISE PROPAGATION

From the noise source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise as the distance from the source increases. The manner in which noise reduces with distance depends on whether the source is a point or line source as well as ground absorption, atmospheric effects, and refraction, and shielding by natural and manmade features. Sound from point sources, such as air conditioning condensers, radiate uniformly outward as it travels away from the source in a spherical pattern. The noise drop-off rate associated with this geometric spreading is 6 dBA per each doubling of the distance (dBA/DD). Transportation noise sources such as roadways are typically analyzed as line sources, since at any given moment the receiver may be impacted by noise from multiple vehicles at various locations along the roadway. Because of the geometry of a line source, the noise drop-off rate associated with the geometric spreading of a line source is 3 dBA/DD.

4. GROUND ABSORPTION

The sound drop-off rate is highly dependent on the conditions of the land between the noise source and receiver. To account for this ground-effect attenuation (absorption), two types of site conditions are commonly used in traffic noise models: soft-site and hard-site conditions. Soft-site conditions account for the sound propagation loss over natural surfaces such as normal earth and ground vegetation. For point sources, a drop-off rate of 7.5 dBA/DD is typically observed over soft ground with landscaping, as compared with a 6.0 dBA/DD drop-off rate over hard ground such as asphalt, concrete, stone, and very hard packed earth. For line sources a 4.5 dBA/DD is typically observed for soft-site conditions compared to the 3.0 dBA/DD drop-off rate for hard-site conditions. To be conservative, hard-site conditions were used in this analysis where applicable.

5. TRAFFIC NOISE PREDICTION

The level of traffic noise depends on the three primary factors: (1) the volume of the traffic, (2) the speed of the traffic, and (3) the number of trucks in the flow of traffic. Generally, the loudness of traffic noise is increased by heavier traffic volumes, higher speeds, and greater number of trucks. Vehicle noise is a combination of the noise produced by the engine, exhaust, and tires. Because of the logarithmic nature of traffic noise levels, a doubling of the traffic volume (assuming that the speed and truck mix do not change) results in a noise level increase of 3 dBA. Based on the FHWA community noise assessment criteria, this change is "barely perceptible," for reference a doubling of perceived noise levels would require an increase of approximately 10 dBA. The truck mix on a given roadway also has an effect on community noise levels. As the number of heavy trucks increases and becomes a larger percentage of the vehicle mix, adjacent noise levels increase.

6. NOISE BARRIER ATTENUATION

Effective noise barriers can reduce noise levels by 10 to 15 dBA, cutting the loudness of traffic noise in half. For a noise barrier to work, it must be high enough and long enough to block the view of a road. A noise barrier is most effective when placed close to the noise source or receiver. A noise barrier can achieve a 5-dBA noise level reduction when it is tall enough to break the line-of-sight. When the noise barrier is a berm instead of a wall, the noise attenuation can be increased by another 3 dBA.

III. GROUNDBORNE VIBRATION FUNDAMENTALS

Groundborne vibrations consist of rapidly fluctuating motions within the ground that have an average motion of zero. The effects of groundborne vibrations typically only cause a nuisance to people, but at extreme vibration levels, damage to buildings may occur. Although groundborne vibration can be felt outdoors, it is typically only an annoyance to people indoors where the associated effects of the shaking of a building can be notable. Groundborne noise is an effect of groundborne vibration and only exists indoors, since it is produced from noise radiated from the motion of the walls and floors of a room and may also consist of the rattling of windows or dishes on shelves.

1. VIBRATION DESCRIPTORS

Several different methods are used to quantify vibration amplitude such as the maximum instantaneous peak in the vibrations velocity, which is known as the peak particle velocity (PPV) or the root mean square (RMS) amplitude of the vibration velocity. Because of the typically small amplitudes of vibrations, vibration velocity is often expressed in decibels and is denoted as L_V and is based on the RMS velocity amplitude. A commonly used abbreviation is VdB, which in this text, is when vibration level (L_V) is based on the reference quantity of 1 microinch per second.

2. VIBRATION PERCEPTION

Typically, developed areas are continuously affected by vibration velocities of 50 VdB or lower. These continuous vibrations are not noticeable to humans whose threshold of perception is around 65 VdB. Offsite sources that may produce perceptible vibrations are usually caused by construction equipment, steel-wheeled trains, and traffic on rough roads, while smooth roads rarely produce perceptible groundborne noise or vibration.

3. VIBRATION PROPAGATION

The propagation of groundborne vibration is not as simple to model as airborne noise. This is because noise in the air travels through a relatively uniform median, while groundborne vibrations travel through the earth, which may contain significant geological differences. There are three main types of vibration propagation: surface, compression, and shear waves. Surface waves, or Rayleigh waves, travel along the ground's surface. These waves carry most of their energy along an expanding circular wave front, similar to ripples produced by throwing a rock into a pool of water. P-waves, or compression waves, are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal (i.e., in a "push-pull" fashion). P-waves are analogous to airborne sound waves. S-waves, or shear waves, are also body waves that carry energy along an expanding spherical wave front. However, unlike P-waves, the particle motion is transverse, or side-to-side and perpendicular to the direction of propagation.

As vibration waves propagate from a source, the vibration energy decreases in a logarithmic nature and the vibration levels typically decrease by 6 VdB per doubling of the distance from the vibration source. As stated above, this drop-off rate can vary greatly depending on the soil but has been shown to be effective enough for screening purposes, in order to identify potential vibration impacts that may need to be studied through actual field tests.

4. CONSTRUCTION-RELATED VIBRATION LEVEL PREDICTION

Construction activity can result in varying degrees of ground vibration, depending on the equipment used on the site. Operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Buildings in the vicinity of the construction site respond to these vibrations with varying results ranging from no perceptible effects at the low levels to slight damage at the highest levels. **Table 1, Vibration Source Levels for Construction Equipment,** gives approximate vibration levels for particular construction activities. The data in Table 1 provides a reasonable estimate for a wide range of soil conditions.

Table 1
Vibration Source Levels for Construction Equipment

Equipment	Peak Particle Velocity (inches/second) at 25 feet	Approximate Vibration Level (L_V) at 25 feet
Pile driver (impact)	1.518 (upper range) 0.644 (typical)	112 104
Pile driver (sonic)	0.734 upper range 0.170 typical	105 93
Clam shovel drop (slurry wall)	0.202	94
Hydromill (slurry wall)	0.008 in soil 0.017 in rock	66 75
Vibratory Roller	0.210	94
Hoe Ram	0.089	87
Large bulldozer	0.089	87
Caisson drill	0.089	87
Loaded trucks	0.076	86
Jackhammer	0.035	79
Small bulldozer	0.003	58
Source: Transit Noise and Vibration Impact Assessment, Federal Transit Administration, Table 7-4. September 2018.		

There are no federal vibration standards or regulations adopted by any agency that are applicable to evaluating vibration impacts from land use development projects such as the proposed Project. However, the Federal Transit Administration (FTA) has adopted vibration criteria for use in evaluating vibration impacts from construction activities.[1] The vibration damage criteria adopted by the FTA are shown in **Table 2, Construction Vibration Damage Criteria.**

Table 2
Construction Vibration Damage Criteria

Building Category	PPV (in/sec)
I. Reinforced-concrete, steel or timber (no plaster)	0.50
II. Engineered concrete and masonry (no plaster)	0.30
III. Non-engineered timber and masonry buildings	0.20
IV. Buildings extremely susceptible to vibration damage	0.12
Source: FTA, Transit Noise and Vibration Impact Assessment Manual, September 2018.	

[1] *Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, Table 7-5, page 186, 2018.*

IV. REGULATORY SETTING

The proposed project is located in the City of South Pasadena and noise regulations are addressed through the efforts of various federal, State, and local government agencies. The agencies responsible for regulating noise are discussed below.

1. FEDERAL REGULATIONS

The adverse impact of noise was officially recognized by the federal government in the Noise Control Act of 1972, which serves three purposes:

- Promulgating noise emission standards for interstate commerce.
- Assisting state and local abatement efforts.
- Promoting noise education and research.

The Federal Office of Noise Abatement and Control (ONAC) was initially tasked with implementing the Noise Control Act. However, the ONAC has since been eliminated, leaving the development of federal noise policies and programs to other federal agencies and interagency committees. For example, the Occupational Safety and Health Administration (OSHA) agency limits noise exposure of workers to 90 dB L_{eq} or less for 8 continuous hours or 105 dB L_{eq} or less for 1 continuous hour. The Department of Transportation (DOT) assumed a significant role in noise control through its various operating agencies. The Federal Aviation Administration (FAA) regulates noise of aircraft and airports. Surface transportation system noise is regulated by a host of agencies, including the FTA. Transit noise is regulated by the federal Urban Mass Transit Administration (UMTA), while freeways that are part of the interstate highway system are regulated by the Federal Highway Administration (FHWA). Finally, the federal government actively advocates that local jurisdictions use their land use regulatory authority to arrange new development in such a way that "noise sensitive" uses are either prohibited from being sited adjacent to a highway or, alternately that the developments are planned and constructed in such a manner that potential noise impacts are minimized.

Since the federal government has preempted the setting of standards for noise levels that can be emitted by the transportation sources, the City is restricted to regulating the noise generated by the transportation system through nuisance abatement ordinances and land use planning.

2. STATE REGULATIONS

Though not adopted by law, the State of California General Plan Guidelines 2017, published by the California Governor's Office of Planning and Research (OPR) (OPR Guidelines), provides guidance for the compatibility of projects within areas of specific noise exposure. The OPR Guidelines identify the suitability of various types of construction relative to a range of outdoor noise levels and provide each local community some flexibility in setting local noise standards that allow for the variability in community

preferences. Findings presented in the Levels of Environmental Noise Document (EPA 1974) influenced the recommendations of the OPR Guidelines, most importantly in the choice of noise exposure metrics (i.e., Ldn or CNEL) and in the upper limits for the normally acceptable outdoor exposure of noise-sensitive uses.

The OPR Guidelines include a Noise and Land Use Compatibility Matrix which identifies acceptable and unacceptable community noise exposure limits for various land use categories. Where the "normally acceptable" range is used, it any special acoustical is defined as the highest noise level that should be considered for the construction of the buildings which do not incorporate treatment or noise mitigation. The "conditionally acceptable" or "normally unacceptable" ranges include conditions calling for detailed acoustical study prior to the construction or operation of the proposed project. The City of South Pasadena has adopted their own version of the State Land Use Compatibility Guidelines for land use planning and to assess potential transportation noise impacts to proposed land uses (see Table 3).

Title 24, Chapter 1, Article 4 of the California Administrative Code (California Noise Insulation Standards) requires noise insulation in new hotels, motels, apartment houses, and dwellings (other than single-family detached housing) that provides an annual average noise level of no more than 45 dBA CNEL. When such structures are located within a 60-dBA CNEL (or greater) noise contour, an acoustical analysis is required to ensure that interior levels do not exceed the 45-dBA CNEL annual threshold. In addition, Title 21, Chapter 6, Article 1 of the California Administrative Code requires that all habitable rooms, hospitals, convalescent homes, and places of worship shall have an interior CNEL of 45 dB or less due to aircraft noise.

Government Code Section 65302 mandates that the legislative body of each county and city in California adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines published by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of normally acceptable, conditionally acceptable, normally unacceptable, and clearly unacceptable.

3. LOCAL REGULATIONS

The City of South Pasadena General Plan and Municipal Code establish the following applicable goals policies related to noise and vibration.

A. City of South Pasadena General Plan

The City's General Plan (revised in November 2019) incorporates noise standards for various land uses, which are based on the California Office of Planning and Research's (OPR) Noise Element Guidelines. **Table 3, City of South Pasadena Noise Compatibility Guidelines,** presents the City's noise guidelines for land

use planning. The objective of the noise compatibility guidelines is to provide a means of identifying acceptable noise exposure levels for a proposed use in relation to the existing noise environment. Since the proposed project is a multi-family residential use, the normally acceptable noise level would be below 65 dBA CNEL, the conditionally acceptable noise levels would be between 65 and 70 dBA CNEL, the normally unacceptable noise levels would be less than 75 dBA CNEL.

B. City of South Pasadena Municipal Code

In addition to any measures to reduce noise levels recommended in this report, project operations will be subject to City ordinances.

The City of South Pasadena Municipal Code Chapter 19A (Noise Regulation), herein referenced as the "Noise Ordinance," establishes acceptable ambient sound levels to regulate noises generated by stationary mechanical equipment and vehicles within specific land use zones and provides procedures and criteria for the measurement of noise sources.

In accordance with the Noise Ordinance, a noise level increase from certain regulated noise sources of 5 dBA over the existing ambient noise level at an adjacent property line is considered a noise violation, with adjustments made for steady audible tones, repeated impulsive noise, and noise occurring at limited time periods. The 5 dBA increase above ambient is applicable to City-regulated noise sources (e.g., mechanical equipment), and it is applicable for any time of day.

The following sections of the Noise Ordinance are applicable to the Project:

§ 19A.13 – Construction of Building and Projects

> *A. It is unlawful for any person to perform any construction activity within a residential zone or within 500 feet thereof on Monday through Friday before 8:00 a.m. and after 7:00 p.m., Saturday before 9:00 a.m. and after 7:00 p.m., and on Sundays and city recognized holidays before 10:00 a.m. and after 6:00 p.m.*
>
> *B. For the purposes of this section, "construction activity" is activity requiring a building permit and defined to include, but is not limited to, the operation of any manual, electric or pneumatic hammer, saw, shovel, hoist, derrick or any other device used in the performance of site preparation, assembly, repair, demolition, alteration or similar action on structures, rights-of-way, or land.*
>
> *C. The prohibition of this section shall not apply to emergency work as defined in Article 1 of this chapter.*

§ 19A.12 – Machinery, Equipment, Fans, and Air Conditioning

It is unlawful for any person to operate any machinery, equipment, pump, fan, air-condition apparatus, or similar mechanical device in any manner so as to create any noise which would cause the noise level at the property line of any property to exceed the ambient noise level by more than five decibels based on a reference sound pressure of 0.0002 microbars, as measured in any octave band center frequency, in cycles per second, as follows: 63, 125, 250, 500, 1,000, 2,000, 4,000, and 8,000 and for the combined frequency bands, "(A)" band. This regulation does not apply to utilities performing emergency work.

Table 3
City of South Pasadena Noise Compatibility Guidelines

	Exterior Noise Level (CNEL dBA)						
Land Use Category	**55**	**60**	**65**	**70**	**75**	**80**	**85**
Residential – low density single family, duplex, mobile homes							
Residential- multiple family							
Transient lodging – motels, hotels							
Schools, libraries, churches, hospitals, nursing homes							
Auditoriums, concert halls, amphitheaters							
Sports arena, outdoor spectator sports							
Playground, neighborhood parks							
Golf courses, riding stables, water recreation, cemeteries							
Office buildings, business commercial and professional							
Industrial, manufacturing, utilities Agriculture, mining							

	Normally Acceptable	Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal construction, without any special noise insulation requirements.
	Conditionally Acceptable	New construction or development should be undertaken after an analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.
	Normally Unacceptable	New construction or development should generally be discouraged. If new construction or development proceeds, an analysis of the noise reduction requirements should be made and needed noise insulation features included in the design
	Clearly Unacceptable	New construction or development should generally not be undertaken.

Source: South Pasadena General Plan. Our Healthy Community, Table 2.5.4.

4. CALIFORNIA ENVIRONMENTAL QUALITY ACT SIGNIFICANCE THRESHOLDS

The California Environmental Quality Act (CEQA) Guidelines (Appendix G) establishes thresholds for noise impact analysis. This noise study includes analysis of noise and vibration impacts necessary to assess the project in light of the following Appendix G Checklist Thresholds.

> *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?*

Substantial increases in ambient noise levels are usually associated with project construction noise (temporary) and project operational noise (permanent).

Project Construction Noise (temporary): To control noise impacts associated with the construction, the City of South Pasadena has established limits to the hours of operation. South Pasadena Municipal Code Section 19A.13(a) indicates that within a residential zone or within 500 feet thereof, construction activities are limited to between 8:00 a.m. to 7:00 p.m., Monday through Friday; 9:00 a.m. to 7:00 p.m. on Saturdays; and 10:00 a.m. to 6:00 p.m. on Sundays and holidays. The Municipal Code does not establish numeric maximum acceptable construction source noise levels at potentially affected receivers. The FTA Transit Noise and Vibration Impact Assessment identifies detailed assessment criteria including an eight-hour construction noise level threshold of 80 dBA L_{eq} during daytime at residential (noise-sensitive) uses, and 85 dBA L_{eq} during daytime hours at commercial uses. The noise study relies on the FTA thresholds for land uses adjacent to future development.

Project Operational Noise (permanent): The South Pasadena Municipal Code, Chapter 19A Noise Regulation, establishes exterior noise level limits for stationary noise sources in the City as measured at the adjacent property line. Sections 19A.7(b) and 19A.12 indicate that radios, television sets, machinery, equipment, fans, air conditioning units, and similar devices/equipment shall not generate exterior noise levels in excess of the ambient noise level by more than 5 dBA. Further, amplified sound (e.g., any machine or device for the amplification of the human voice, music, or any other sound) shall not generate noise levels in excess of the ambient noise level by more than 15 dBA.

The City of South Pasadena does not currently have adopted thresholds to assess off-site project-related traffic noise impacts. Therefore, the significant threshold for off-site traffic noise is based on human perceptibility to changes in noise levels (increases), with consideration of existing ambient noise conditions, and the City's guidelines for noise compatible land use. For off-site project generated noise, increases in ambient noise along affected roadways due to project generated vehicle traffic is considered substantial if they result in an increase of at least 3 dBA CNEL and: (1) the existing noise levels already

exceed the applicable land use compatibility standard of 65 dBA for the affected sensitive receptors set forth in the City's General Plan; or (2) the project increases noise levels by at least 3 dBA CNEL and raises the ambient noise level from below the applicable standard to above the applicable standard.

b) Generate excessive groundborne vibration or groundborne noise levels?

According to the City's General Plan, Our Healthy Community Section, construction activity can result in varying degrees of ground vibration, depending on the equipment and methods used, distance to the affected structures, and soil type. It is expected that ground-borne vibration from Project construction activities would cause only intermittent, localized intrusion. Pile driving, loaded trucks, large bulldozers, and jackhammers within 50 feet of nearby sensitive land uses (e.g., residential, school, etc.) shall be minimized, or alternative equipment or methods shall be used, unless the vibration levels are shown to be less than the County of Los Angeles RMS threshold of 0.01 in/sec RMS.

Based on the FTA vibration criteria, the vibration level at which there is a risk of architectural damage is based on the FTA structural damage criteria (0.12 in/sec for historic structures, 0.2 in/sec for typical wood-framed buildings, or 0.5 in/sec for reinforced concrete, steel, or timber).

V. EXISTING NOISE CONDITIONS

To determine the existing noise level environment, short-term noise measurements were taken in the project study area at four locations in the project vicinity. The following describes the measurement procedures, measurement locations, and the noise measurement results.

1. MEASUREMENT PROCEDURE AND CRITERIA

To ascertain the existing noise at and adjacent to the project site, field monitoring was conducted on November 19, 2021. The field survey noted that noise within the proposed project area is generally characterized by traffic noise. The nearest airport is Bob Hope (Burbank) Airport, which is located approximately 12.4 miles northwest of the project site. The project site falls well outside the 65 dBA airport noise contour, and is not considered as a source that contributes to the ambient noise levels on the project site.

A. Noise Measurement Equipment

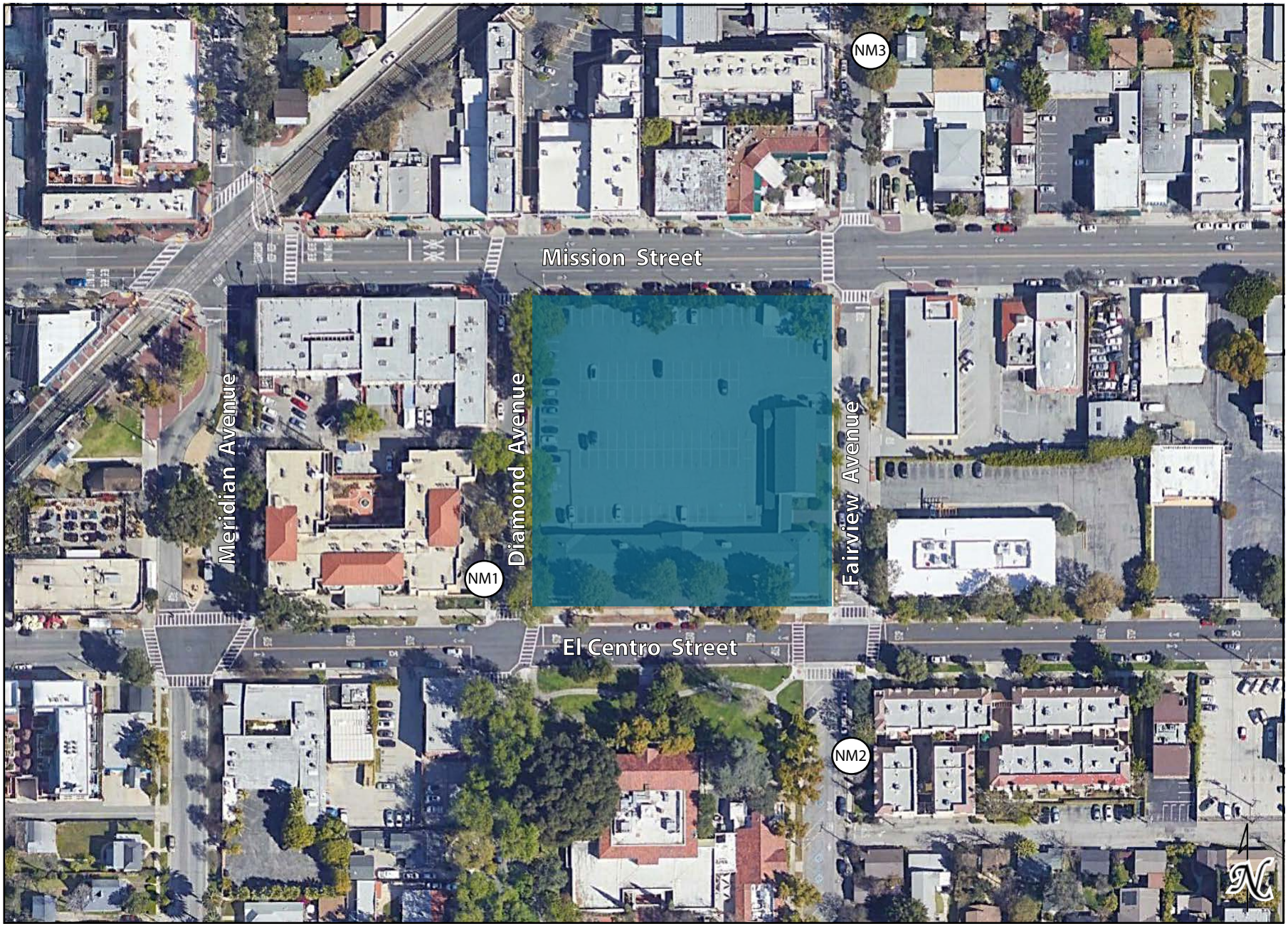
Noise monitoring was performed using an American National Standards Institute (ANSI Section SI4 1979, Type 1) Larson Davis model LxT sound level meter. The sound level meter was programmed in "slow" mode to record the sound pressure level at one second intervals for in A-weighted form. The sound level meter and microphone were mounted approximately five feet above the ground and equipped with a windscreen during all measurements. The sound level meter was calibrated before monitoring using Larson Davis Cal 250. The noise level measurement equipment meets American National Standards Institute (ANSI) specifications for sound level meters (S1.4-1983 identified in Chapter 19.68.020.AA).

B. Noise Measurement Locations

The noise monitoring locations were selected in order to obtain noise measurements of the current noise sources impacting the vicinity of the project site and to provide a baseline for any potential noise impacts that may be created by development of the proposed project. The sites are shown in **Figure 3, Noise Monitoring Locations**, on the following page. **Appendix A** includes a photographic index of the study area and noise level measurement locations.

C. Noise Measurement Timing and Climate

The noise measurements were recorded between 12:55 p.m. and 2:04 p.m. on November 19, 2021. At the start of the noise monitoring, the temperature was 61°F, 56 percent humidity, hazy sunshine, and calm wind conditions (4 mph).



Project Site

Source: EcoTierra Consulting, December 2021.

Figure 3
Noise Monitoring Locations

2. NOISE MEASUREMENT RESULTS

The noise measurements were taken at three (3) locations in the project vicinity. The results of the noise level measurements are provided below in **Table 4, Existing Noise Level Measurements (dBA)**. The dominant noise source in the area was traffic, with secondary noise from birds, residential music sources, pedestrians, and low-altitude aircraft.

Table 4
Existing Noise Level Measurements (dBA)

Site Location	Description	L_{eq}	L_{MAX}	L_{MIN}
NM 1	Approximately 37 feet west of project site, adjacent to the Golden Oaks Apartments multi-family residential use located at 1000 El Centro Street.	56.7	68.1	45.2
NM 2	Approximately 132 feet south of the project site, on the sidewalk between the South Pasadena public library and the multi-family residential use located at 1006 Fairview Avenue.	52.7	66.1	41.9
NM 3	Approximately 245 feet north of the project site, on the sidewalk adjacent to the single-family residential use located at 808 Fairview Avenue.	55.9	69.6	44.6

Note: Noise measurement details are available in Appendix B.

As shown in **Table 4**, receptors in the project vicinity are subject to average noise levels ranging from 52.7 dBA leq to 56.7 dBA leq, with maximum noise levels reaching as high as 69.6 dBA adjacent to the property line of the single-family residential use located at 808 Fairview Avenue, approximately 230 feet north of the project site.

A. Traffic Noise Modeling Results

The Noise impacts related to vehicular traffic were modeled using a version of the FHWA Traffic Noise Prediction Model (FHWA-RD-77-108), as modified for CNEL and the "Calveno" energy curves. Site-specific information is entered, such as roadway traffic volumes, roadway active width, source-to-receiver distances, travel speed, noise source and receiver heights, and the percentages of automobiles, medium trucks, and heavy trucks that the traffic is made up of throughout the day, amongst other variables.

The FHWA Traffic Noise Prediction Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). Adjustments are then made to the REMEL to account for: total average daily traffic volumes, roadway classification, width, speed and truck mix, roadway grade and site conditions (hard or soft ground surface). All modeled roadways were assumed to have a "hard site" to predict worst-case, conservative noise levels. A hard site, such as pavement, is highly

reflective and does not attenuate noise as quickly as grass or other soft sites. Any reductions in noise levels due to intervening topography and buildings were not accounted for in this analysis.

Existing and Existing Plus Project average daily traffic (ADT) were calculated from the *Draft Transportation Study for the 1020 El Centro Street Mixed-Use Development Project* (Gibson Transportation Consulting, Inc, 2021).[1]

Roadway parameters utilized to model future traffic noise levels to the Project include location, traffic volume, speed and vehicle mix (autos, medium trucks, and heavy trucks). The various scenarios that are described above were modeled to determine project-specific increases in noise levels at an arbitrary distance of 50 feet from roadway centerline. The uniform distance allows for direct comparisons of potential increases or decreases in noise levels based upon various traffic scenarios; however, at this distance, no specific noise standard necessarily applies. Therefore, the change in a noise level between scenarios is the focus of this portion of the analysis, rather than the resulting independent noise level for any one segment. FHWA calculation spreadsheets are included in Appendix C.

The calculated noise levels in **Table 7** (in Section VI of this report) shows that the baseline (existing) traffic noise in the project area is as high as 66.7 dBA at a distance of 50 feet from the centerline.

[1] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. The traffic study was updated in December 2021 and revised again in April 2022. However, as the original analysis was based on a larger project, the original analysis using the original traffic data is more conservative and considered to be worst-case, and traffic noise-related impacts would be over-estimated.

VI. NOISE AND VIBRATION IMPACT ANALYSES

Consistent with CEQA and the CEQA Guidelines, a significant impact related to noise would occur if a proposed project is determined to result in:

- Exposure of persons to or generation of noise levels in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies.
- Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels.
- Exposure of persons residing or working in the project area to excessive noise levels from aircraft.

According to the CEQA checklist, to determine whether impacts to noise resources are significant environmental effects, the following thresholds are analyzed and evaluated:

- Exceedance of noise standards for construction noise.
- Construction noise.
- Groundborne vibration.
- Operational noise.
- Airport noise.

Each of these thresholds is analyzed below.

1. EXCEEDANCE OF NOISE STANDARDS

This impact discussion analyzes the potential for project construction noise to cause an exposure of persons to or generation of noise levels in excess of established City of South Pasadena noise standards or applicable standards of other agencies.

Noise levels in the project area would be influenced by construction activities.

A. Construction Noise

As stated previously, according to Section 19A.13(a) indicates that within a residential zone or within 500 feet thereof, construction activities are limited to between 8:00 a.m. to 7:00 p.m., Monday through Friday; 9:00 a.m. to 7:00 p.m. on Saturdays; and 10:00 a.m. to 6:00 p.m. on Sundays and holidays. The Municipal Code does not establish numeric maximum acceptable construction source noise levels at potentially affected receivers. The Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment identifies detailed assessment criteria including an eight-hour construction noise level threshold of 80 dBA Leq during daytime at residential (noise-sensitive) uses, and 85 dBA Leq during daytime hours at commercial uses. The noise study relies on the FTA thresholds for land uses adjacent to future development.

The State of California defines sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions. Schools, libraries, churches, hospitals, single and multiple-family residential, including transient lodging, motels and hotel uses make up the majority of these areas. The closest receptors to the project site include: multi-family residential dwelling units located at Golden Oaks Apartments approximately 40 feet to the west (north of El Centro Street and west of Diamond Avenue) and 180 feet to the southeast (east of Fairview Avenue and south of El Centro Street) of the project site. The façade of the South Pasadena Public Library is also located at 1100 Oxley Street, approximately 200 feet from the active-construction-portion of the southern Project boundary. As the site is currently developed with the historic South Pasadena Unified School District building (built in the late 1800's), the site itself is considered to be a vibration-sensitive receptor. Please see Figure 3, Noise Monitoring Locations above and Table 5 below.

Table 5
Closest Sensitive Receptors to the Project Site

Type of use	Description	Closest Noise Measurement Location ID	Structure type/FTA building category	Distance from the façade of the receptor to the project boundary
Residential	Multi-family residential use located at Golden Oaks Apartments, 1000 El Centro Street, west of the project site.	NM1	II. Engineered concrete and masonry (no plaster)	~55 feet
Residential	Multi-family residential use located southeast of the site, at 1006 Fairview Avenue.	NM2	II. Engineered concrete and masonry (no plaster)	~93 feet
Residential	Single-family residential use located northeast of the site at 808 Fairview Avenue.	NM3	III. Non-engineered timber and masonry buildings	~280 feet
Institutional	South Pasadena Public Library located at 1100 Oxley Street	NM2	IV. Buildings extremely susceptible to vibration damage.	~140 feet
Institutional	*South Pasadena Unified School District Building, 1020 El Centro Street.	NM1	IV. Buildings extremely susceptible to vibration damage.	~0.5 feet (directly adjacent)

* Vibration-sensitive use that is on-site and is part of the project.

According to the Historic Resource Evaluation (November 2021), the project site is within both a National Register Historic District, and also within the City of South Pasadena's Mission Street Specific Plan. The subject building comprises the School building itself, the Auditorium, and the connecting Loggia[1]. The building has a State Resources Status Code of 1D, meaning that it has been identified as a Contributor in a National Register Historic District. As the School District Building is an administrative office, it is not considered to be a noise sensitive receptor; however, as the building is historic, it is considered to be a vibration-sensitive receptor. The other building within the Historic District is the Public Library directly across El Centro Street.

Short-term noise impacts could occur during construction activities from either the noise impacts created from the transport of workers and movement of construction materials to and from the project site, or from the noise generated onsite during: demolition, site preparation, building, and architectural coating activities.

Construction noise levels will vary significantly based upon the size and topographical features of the active construction zone, duration of the work day, and types of equipment employed, as indicated in **Table 6, Typical Construction Equipment Noise Levels**. Typical operating cycles for these types of construction equipment may involve one or two minutes of full power operation followed by three to four minutes at lower power settings. Although there would be a relatively high single event noise exposure potential, resulting in potential short-term intermittent annoyances, the effect in long-term ambient noise levels would be small when averaged over longer time. As shown by the ambient noise level measurements in Table 3, Existing Noise Level Measurements (see Section V. Existing Noise Conditions of this report), the project vicinity is already exposed to a maximum noise level of 69.6 dBA.

Construction noise associated with the Project was calculated utilizing methodology presented in the FTA Transit Noise and Vibration Impact Assessment Manual (2018) together with several key construction parameters including: distance to each sensitive receiver, equipment usage, percent usage factor, and baseline parameters for the Project Site (see Appendix C for details). Distance to the receptor was based on the acoustical center of the proposed construction activity.

Construction noise levels were calculated for each phase. To be conservative, the noise generated by each piece of equipment was added together for each phase of construction; however, it is unlikely (and unrealistic) that every piece of equipment will be used at the same time, at the same distance from the receptor, for each phase of construction. Furthermore, the construction noise levels reported are conservative and do not take into account any attenuation afforded by intervening structures/buildings

[1] A Loggia is a gallery or room with one or more open sides, especially one that forms part of a house and has one side open to the garden

which would reduce noise levels at receptor locations by blocking the line-of-sight between the receptor and the construction activities.

Table 6
Typical Construction Equipment Noise Levels

EQUIPMENT			NOISE LEVEL (dBA) AT 50 FEET
			60 70 80 90 100 110
EQUIPMENT POWERED BY INTERNAL COMBUSTION ENGINES	EARTH MOVING	Compacters (Rollers)	
		Front Loaders	
		Backhoes	
		Tractors	
		Scrapers, Graders	
		Pavers	
		Trucks	
	MATERIAL HANDLING	Concrete Mixers	
		Concrete Pumps	
		Cranes (Moveable)	
		Cranes (Derrick)	
	STATIONARY	Pumps	
		Generators	
		Compressors	
IMPACT EQUIPMENT		Pneumatic Wrenches	
		Jack Hammers and Rock Drills	
		Pile Drivers	
OTHER		Vibrators	
		Saws	

Source: United States Environmental Protection Agency, 1971, "Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances," NTID 300-1.

Table 7
Maximum Construction Noise Levels at Closest Receptors

Off-Site Receptor Location	Maximum Unmitigated Construction Noise Levels[1]	Applicable Noise Standard (dBA L_{eq})[2]	Exceeds Standard?
Multi-family residential use located at Golden Oaks Apartments, 1000 El Centro Street, west of the project site.	69.3	80	No
Multi-family residential use located southeast of the site, at 1006 Fairview Avenue.	65.3	80	No
Single-family residential use located northeast of the site at 808 Fairview Avenue.	62.6	80	No
South Pasadena Public Library located at 1100 Oxley Street	65.5	80	No

Notes:
(1) Construction noise worksheets showing noise levels for all phases of construction at each receptor location are provided in Appendix C of this report.
(2) FTA Transit Noise and Vibration Impact Assessment identifies detailed assessment criteria including an eight-hour construction noise level threshold of 80 dBA Leq during daytime at residential (noise-sensitive) uses, and 85 dBA L_{eq} during daytime hours at commercial uses.

As shown in Table 7, the highest construction noise level, 69.3 dBA, would occur at the closest sensitive receptor located west of the project site. This noise level would occur during the building construction phase and would not exceed the FTA construction noise standard of 80 dBA L_{eq} at sensitive receptors.

Impacts from construction noise are considered to be less than significant and no mitigation measures are required.

2. GROUNDBORNE VIBRATION

This impact discussion analyzes the potential for the proposed project to cause an exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels. Vibration levels in the project area would be influenced by construction activities and from the ongoing operations of the proposed project.

As described in the FTA's *Transit Noise and Vibration Impact Assessment Manual*, groundborne vibration can be a serious concern for nearby neighbors of a transit system route or maintenance facility, causing buildings to shake and rumbling sounds to be heard.[2] In contrast to airborne noise, groundborne vibration is not a common environmental problem, as it is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of groundborne vibration are trains, heavy trucks traveling on rough roads, and certain construction activities, such as

[2] *Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, Section 7, 2018.*

blasting, pile-driving, and operation of heavy earth-moving equipment.[3] Ground-borne vibration generated by man-made activities (e.g., road traffic, construction operations) typically weakens with greater horizontal distance away from the source of the vibration.

The types of construction vibration impact include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. Ground vibrations from construction activities rarely reach levels that can damage structures, but can achieve the audible and perceptible ranges in buildings close to a construction site. As the City of South Pasadena does not have a human annoyance vibration threshold, a human annoyance criterion of 0.24 in/sec PPV for transient vibration at sensitive receptor locations is also utilized in accordance with Caltrans guidance.[4] Significant impacts would only occur for building damage and/or if the vibrations would interfere with the use of sensitive receptors.

A. Construction Vibration

Construction activities can produce vibration that may be felt by adjacent uses. The construction of the proposed project would not require the use of equipment such as pile drivers, which are known to generate substantial construction vibration levels. The highest degree of groundborne vibration would be generated during the demolition phase due to the use of a rubber-tired dozer. Based on the Federal Transit Administration (FTA) data (see Table 1), vibration velocities from rubber-tired dozer operations are estimated to be approximately 31.47 inches-per-second PPV at 0.5 feet from the source of activity, 0.12 inches-per-second PPV at a distance of 20.5 feet from the source of activity, and 0.027 inches-per-second PPV at a distance of 55 feet from the source of activity.[5]

An on-site building that could incur vibration damage from construction-related activities is the South Pasadena Unified School District Building (a historic building) located at 1020 El Centro Street (directly adjacent to construction activity). The nearest off-site buildings that could incur vibration damage from construction-related activities would be: the façade of the Golden Oaks Apartments multi-family residential use located approximately 55 feet to the west of the site, and the façade of the South Pasadena Public Library (a historic building) is located at 1100 Oxley Street, approximately 200 feet from the active-construction-portion of the southern project boundary. Other vibration-sensitive buildings are located further than 55 feet from the project boundaries/active construction area and would not be affected by vibration from construction activities (see Table 5).

---

[3] *Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, Section 7, 2018.*

[4] California Department of Transportation, Transportation and Construction Vibration Guidance Manual, Table 6, pg 22. April 2020.

[5] *Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, September 2018.*

Based on the FTA vibration criteria, the vibration level at which there is a risk of architectural damage is based on the FTA structural damage criteria (0.12 in/sec for historic structures, 0.2 in/sec for typical wood-framed buildings, or 0.5 in/sec for reinforced concrete, steel, or timber).

The rubber-tired dozer would be used during demolition of the parking lot. The closest building to that area of activity is the existing, on-site South Pasadena Unified School District Building, located at a distance of 0.5 feet or less from the edge of the construction activity area. At that distance, the vibration level from the rubber-tired dozer would be 31.47 inches-per-second PPV which exceeds the FTA structural damage criteria of 0.12 in/sec PPV damage criteria for historic structures. Therefore, per City of South Pasadena General Plan guidance, vibration will need to minimized through use of alternative equipment or methods. At a distance of 20.5 feet, the vibration level from the rubber-tired dozer would be reduced to 0.12 in/sec PPV. Therefore, it is recommended that the Vibration Management Plan for the project specify that large bulldozers not be used within 20.5 feet of the South Pasadena Unified School District Building façades located on the project site. See **Vibration Reduction Technique 1 (VRT-1)** in Section VII of this report for details. The other historic building façade, belonging to the South Pasadena Public Library, is located approximately 200 feet from the construction activity area. At that distance, the vibration level from a rubber-tired dozer would be 0.004 in/sec PPV, and would not exceed the 0.12 in/sec PPV damage criteria for historic structures. The vibration level would also not exceed the Caltrans human annoyance criterion of 0.24 in/sec PPV for transient vibration.

The building façade of the closest off-site building, which is also the closest residential receptor, is at the Golden Oaks Apartments, located approximately 55 feet to the west of the site. At this distance, the rubber-tired dozer would generate a vibration level of 0.027 in/sec PPV, which would also not exceed either the FTA structural damage criteria of 0.2 in/sec for typical wood-framed buildings, or the Caltrans human annoyance criterion of 0.24 in/sec PPV for transient vibration.

VRT- 1 requires that large bulldozers be operated at least 20.5 feet from the façades of the South Pasadena Unified School District Building located on the project site. Construction activity that must occur within 20.5 feet of the building façades would need to be performed with smaller equipment types or employ methods that do not exceed the vibration thresholds applied herein.

As shown in above, the estimated maximum vibration levels for the construction of the Proposed Project with the use of required setback distance vibration reduction technique **VRT-1** (as part of the project's Vibration Management Plan) would not exceed any FTA damage criteria to onsite/nearby buildings or Caltrans annoyance criterion.

B. Operational Vibration

As the proposed project consists of a proposed mixed commercial/residential use, the project does not include any significant sources of operational vibration; no impacts are anticipated.

3. OPERATIONAL NOISE

This impact discussion analyzes the potential for a substantial permanent increase in ambient noise levels in the project vicinity associated with operation of the proposed project, including impacts related to offsite vehicular noise and exposure of neighboring land uses to onsite noise.

A. Parking Noise

The proposed parking areas have the potential to generate noise due to cars entering and exiting, engines accelerating, braking, car alarms, squealing tires, and other general activities associated with people using the parking areas (i.e., talking, opening/closing doors, etc.). Noise levels within the parking areas would fluctuate with the amount of automobile and human activity. Activity levels would be highest in the early morning and evening when the largest number of people would enter and exit. However, these events would occur at low exiting and entering speeds, which would not generate high noise levels. During these times, the noise levels can range from 44 to 63 dBA Leq[6]. The parking area is subterranean and, other than the driveway ramp leading down to the parking spaces, would be shielded by the walls of the parking structure. Therefore, noise generated from within the parking area would not adversely affect off-site sensitive receptors. Chapter 19A, of the SPMC establishes exterior noise standards by land use. As such, the City's Noise Ordinance prohibits any "unnecessary, excessive, or annoying noises" in the City. The Noise Ordinance does not control traffic noise, but applies to all noise sources located on private property. Therefore, through project design, and compliance with existing SPMC regulations, noise impacts associated with parking would be less than significant and no mitigation measures are required.

B. Stationary Noise Sources

As part of the Project, HVAC units are anticipated to installed for the proposed use. Although the operation of this equipment would generate noise, the closest noise sensitive use that could be affected by HVAC-related noise would be the multi-family residential use located approximately 55 feet from the project's western boundary. No details were available on the exact HVAC locations; however, it is anticipated that the HVAC units would be placed on the flat parts of the rooftops and will be shielded by parapets/roof architecture that will screen it from view. Therefore, due to the screening of HVAC equipment that will completely block the line-of-site to the roof-top equipment and existing, ambient noise sourced from traffic along El Centro Street, Fairview Avenue, Missions Street, and Diamond Avenue, noise generated by any HVAC equipment would be over-shadowed by existing noise and inaudible at the closest receptor location. Furthermore, the design of all mechanical equipment would be required to comply with the regulations. According to Sections 19A.7(b) and 19A.12 of the SPMC, the City generally limits intrusive noises from exceeding the ambient level at the property line by more than 5 dBA. The

[6] *Source: Gordon Bricken & Associates, 1996. Estimates are based on actual noise measurements taken at various parking lots.*

project is required to comply with the SPMC; therefore, impacts related to stationary noise sources are considered to be less than significant.

C. Traffic Noise

For off-site project generated noise, increases in ambient noise along affected roadways due to project generated vehicle traffic is considered substantial if they result in an increase of at least 3 dBA CNEL. In order for a new noise source to be audible, there would need to be a 3 dBA or greater CNEL noise increase[7]. Potential noise impacts associated with the operations of the proposed project are a result of project-generated vehicular traffic on the project vicinity roadways. As stated previously, the noise impacts related to vehicular traffic were modeled using a version of the Federal Highway Administration (FHWA) Traffic Noise Prediction Model (FHWA-RD-77-108), as modified for CNEL and the "Calveno" energy curves. The baseline and baseline plus project average daily traffic (ADT) were calculated from the PM peak hour volumes given in the Gibson TIA. FHWA calculation spreadsheets are included in Appendix C.

The calculated noise levels in **Table 8, Project-Related Increase in Traffic Noise** below show that there would be a marginal increase in noise due to the increase of project-related traffic on roadways in the project vicinity. The highest increase in traffic noise would be 2 dB at the road segment of Fairview Avenue south of Mission Street. As the project-related increase in traffic noise does not exceed 3 dBA, the project would not contribute to a substantial permanent increase in ambient noise levels in the project vicinity. Impacts are considered to be less than significant.

Table 8
Project-Related Increase in Traffic Noise

	Existing		Existing Plus Project		
Road Segments	**ADT**	**dB CNEL***	**ADT**	**Total dB CNEL***	**Project-Specific Increase**
Meridian Avenue					
n/o Mission Street	1,160	58.3	1,200	58.5	0.2
s/o Mission Street	1,700	60.0	1,700	60.0	0.0
Fairview Avenue					
n/o Mission Street	510	54.8	510	54.8	0.0
s/o Mission Street	560	55.2	900	57.2	2.0
s/o El Centro Street	1,050	57.9	1,110	58.2	0.3
Fremont Avenue					
n/o Mission Street	7,890	66.7	7,930	66.7	0.0
s/o Mission Street	7,850	66.6	7,850	66.6	0.0

[7] *FTA Highway Traffic Noise: Analysis and Abatement Guidance, page 9.*

Table 8
Project-Related Increase in Traffic Noise

Road Segments	Existing		Existing Plus Project		
	ADT	dB CNEL*	ADT	Total dB CNEL*	Project-Specific Increase
s/o El Centro Street	7,830	66.6	7,900	66.7	0.1
Mission Street					
w/o Meridian Avenue	3,740	63.4	3,780	63.5	0.1
e/o Meridian Avenue	5,040	64.7	5,220	64.9	0.2
w/o Fairview Avenue	4,550	64.3	4,650	64.4	0.1
e/o Fairview Avenue	5,530	65.1	5,620	65.2	0.1
w/o Fremont Avenue	4,200	63.9	4,370	64.1	0.2
e/o Fremont Avenue	4,670	64.4	4,710	64.4	0.0
El Centro Street					
w/o Fairview Avenue	1,100	58.1	1,170	58.4	0.3
e/o Fairview Avenue	1,590	59.7	1,690	60.0	0.3
w/o Fremont Avenue	1,160	58.3	1,340	59.0	0.7
e/o Fremont Avenue	1,700	60.0	1,720	60.1	0.1

**Noise levels at 50 feet from the roadway centerline. The uniform distance of 50 feet allows for direct comparisons of potential increases or decreases in noise levels based upon various traffic scenarios; however, at this distance, no specific noise standard necessarily applies.*

4. AIRPORT NOISE

This impact discussion analyzes the potential for nearby airports or private airstrips to expose people residing or working in the project area to excessive noise levels. The nearest airport is Bob Hope Airport (Burbank airport), located approximately 12.4 miles northwest of the project site. The project site falls well outside the 65 dBA noise contour[8] and is not considered as a source that contributes to the ambient noise levels on the project site. Impacts are considered to be less than significant.

[8] *Burbank-Glendale-Pasadena Airport Authority, Bob Hope Airport, 14 CFR Part 150 Noise Compatibility Study, Final Noise Compatibility Program Revision #2, website: https://hollywoodburbankairport.com/wp-content/uploads/2019/04/BUR-NCP-Revision-032816-Final-Revised-Part-1_compressed.pdf.*

VII. NOISE/VIBRATION REDUCTION TECHNIQUES

1. CONSTRUCTION TECHNIQUES

VRT-1: The construction contractor shall avoid using large bulldozers within 20.5 feet of the façades of the South Pasadena Unified School District Building located on the project site.

2. OPERATIONAL TECHNIQUES

None required.

VIII. LIST OF ACRONYMS AND ABBREVIATIONS

ADT	average daily traffic
ANSI	American National Standards Institute
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dB	decibel
dBA	A-weighted decibel
dBA/DD	A-weighted decibel per each doubling of distance
DOT	Department of Transportation
FAA	Federal Aviation Administration
FHWA	Federal Highway Administration
FICON	Federal Interagency Committee on Noise
FTA	Federal Transit Administration
Hz	Hertz
L_{dn}	Day-Night Average Sound Level
L_{eq}	Equivalent Sound Level
L_{max}, L_{min}	RMS (root mean squared) maximum level of a noise source or environment measured on a sound level meter, during a designated time interval, using fast meter response. L_{min} is the minimum level.
L_V	Vibration Level
ONAC	Federal Office of Noise Abatement Control
ONC	California Department of Health Services Office of Noise Control
OSHA	Occupational Safety and Health Administration
PPV	peak particle velocity
PMC	Pasadena Municipal Code
RMS	root mean square
SEL	Single Event Level
sq ft	square feet
UMTA	Urban Mass Transit Administration
VdB	L_V at 1 microinch per second

IX. REFERENCES

Anon. 1977. Model Community Noise Control Ordinance. Berkley, CA: California Department of Health Services, Office of Noise Control.

California, State of. Department of Transportation (Caltrans). 2020. Transportation- and Construction Vibration Guidance Manual. April.

California, State of. Department of Transportation (Caltrans). 2009 and 1998. Technical Noise Supplement. November. Website: http://www.dot.ca.gov/hq/env/noise/pub/tens_complete.pdf

Federal Transit Administration. 2018. Transit Noise and Vibration Impact Assessment. September. Website: http://www.fta.dot.gov/documents/FTA_Noise_and_Vibration_Manual.pdf.

Gibson Transportation Consulting, Inc. 2021. Draft Transportation Study for the 1020 El Centro Street Mixed-Use Development Project, South Pasadena. October.

South Pasadena, City of. 2019. South Pasadena General Plan. November 4.

South Pasadena, City of. 2021. South Pasadena Municipal Code, codified through Ordinance No. 2356, adopted May 5.

U.S. Department of Transportation. 2006. FHWA Roadway Construction Noise Model User's Guide. January. Website: http://www.fhwa.dot.gov/environment/noise/rcnm/rcnm.pdf.

APPENDICES

Appendix A: Study Area Photographic Index and Noise Measurement Data

Appendix B: Noise Meter Print Outs

Appendix C: RCNM Construction Noise and FHWA Road Noise Calculations

APPENDIX A: STUDY AREA PHOTOGRAPHIC INDEX AND NOISE MEASUREMENT DATA

KWAQN

Office
7404 Kingsley Way,
Riverside, CA

10-Minute Noise Measurement Datasheet

Project: 1020 El Centro Project, City of South Pasadena
Site Address/Location: 1020 El Centro Street, South Pasadena, CA 91030
Date: 11/19/2021
Field Tech/Engineer: Ian Edward Gallagher

General Location: 1020 El Centro Street, South Pasadena, CA 91030
Sound Meter: Larson Davis Sound Track LxT2 **SN:** 1152
Settings: A-weighted, slow, 1-sec, 10-minute interval
Meteorological Con.: 61 deg F, 4 mph wind, 56% humidity, hazy sunshine.
Site ID: NM-1 2 & 3

Site Observations:

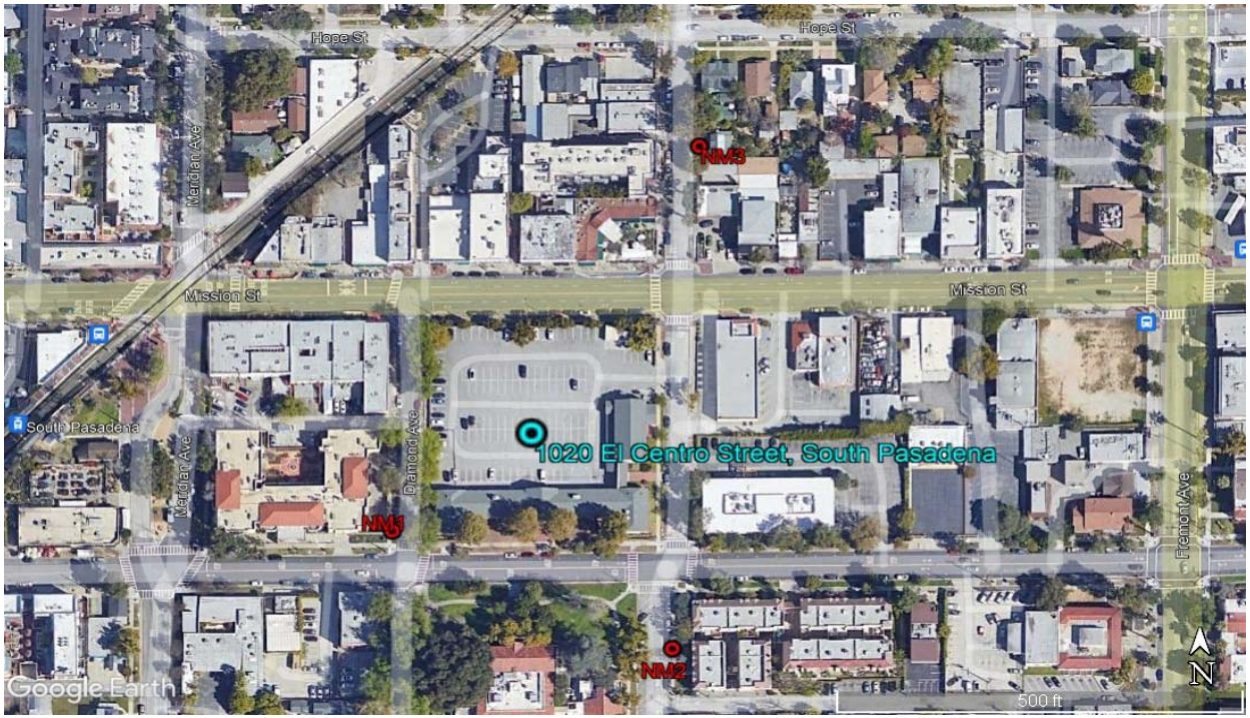
Main noise sources are from vehicular traffic travelling along El Centro Street , Mission Street, Diamond Avenue, Fairview Ave & other surrounding roads . The local buildings reflect & refract much of the sound. Other noise sources include bird song, residential ambiance, wind chimes, park ambiance, music being played, pedestrians. Occasional low altitude propeller aircraft & helicopters. Leaf rustle from trees due to 3 mph breeze. Trolley line, 150 yards NW of site, line heading SW-NE

Site Topo: Urban. Mostly residential w\ businesses at main roads intersection
Ground Type: Hard (urban) site conditions, acoustically refractive, absorptive & reflective.

NM locations, lat , long :

NM1 Meter: 34° 6'53.62"N 118° 9'22.72"W
NM2 Meter: 34° 6'52.05"N 118° 9'18.62"W
NM3 Meter: 34° 6'58.74"N 118° 9'18.22"W

Figure 1: Monitoring Locations



KWAQN

Office
7404 Kingsley Way,
Riverside, CA

10-Minute Noise Measurement Datasheet - Cont.

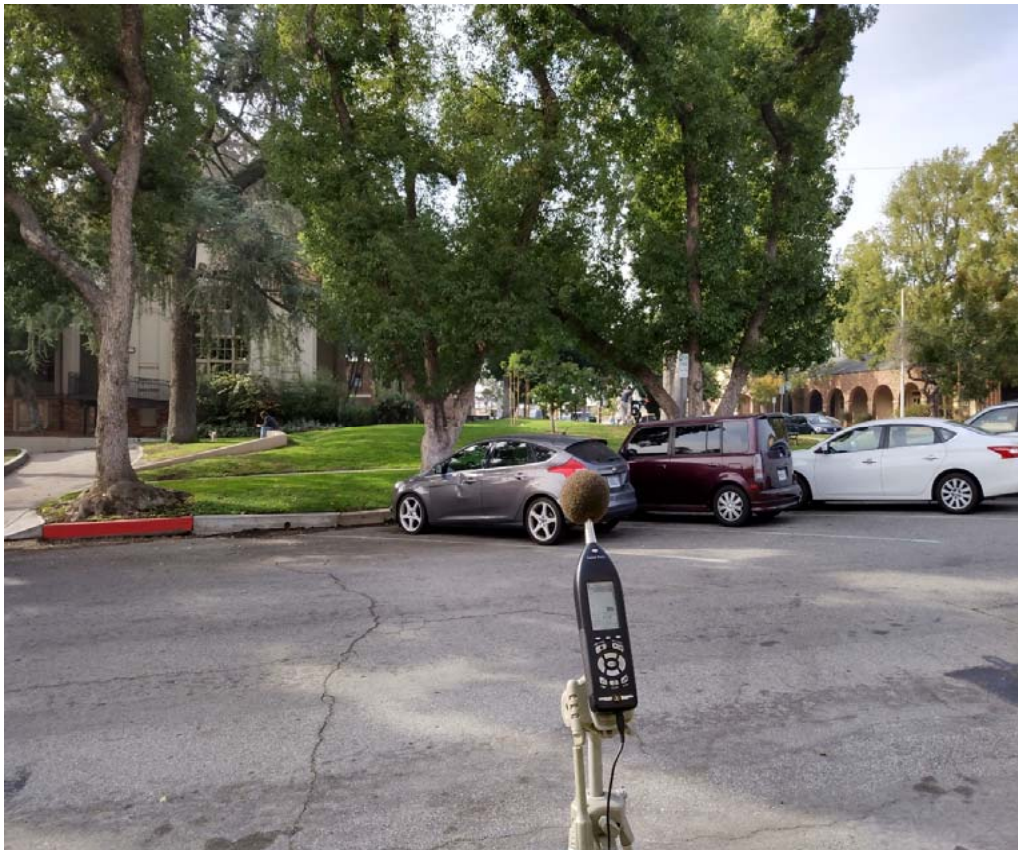
Project: 1020 El Centro Project, City of South Pasadena
Site Address/Location: 1020 El Centro Street, South Pasadena, CA 91030
Site ID: NM-1 2 & 3

Figure 2: NM1 Photo



NM1 looking S down Diamond Avenue across El Centro Street intersection. Building 1019 El Centro Street (Coffee & Tea shop) on other side of El Centro Street to the right, building 1115 El Centro Street (S Pasadena Community Room) & park on the left, far side of intersection.

Figure 3: NM2 Photo



NM2 looking W across Fairview Avenue towards park & E side of building 1100 Oxley Street (S Pasadena Public Library).

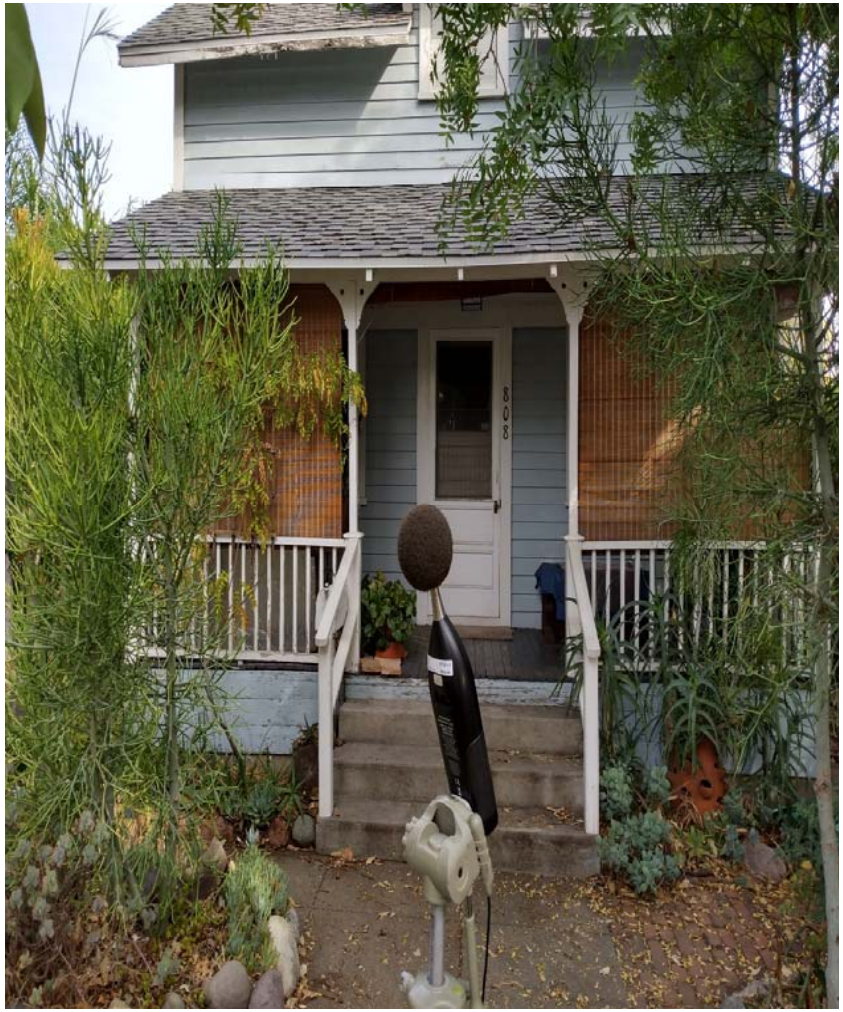
KWAQN

Office
7404 Kingsley Way,
Riverside, CA

10-Minute Noise Measurement Datasheet - Cont.

Project: 1020 El Centro Project, City of South Pasadena
Site Address/Location: 1020 El Centro Street, South Pasadena, CA 91030
Site ID: NM-1 2 & 3

Figure 4: NM3 Photo



NM3 looking E from E sidewalk of Fairview Avenue towards front yard of residence 808 Fairview Ave, S Pasadena.

KWAQN

Office
7404 Kingsley Way,
Riverside, CA

10-Minute Noise Measurement Datasheet - Cont.

Project: 1020 El Centro Project, City of South Pasadena
Site Address/Location: 1020 El Centro Street, South Pasadena, CA 91030
Site ID: NM-1 2 & 3

Table 1: Noise Measurement Summary

Location	Start	Stop	Leq/ dB	Lmax/ dB	Lmin/ dB	L2/ dB	L8/ dB	L25/ dB	L50/ dB	L90/ dB
NM 1	12:55 PM	1:05 PM	56.7	68.1	45.2	65.3	60.5	56.9	54.2	48.6
NM 2	1:22 PM	1:32 PM	52.7	66.1	41.9	61.2	57.3	51.6	49.0	45.4
NM 3	1:54 PM	2:04 PM	55.9	69.6	44.6	65.7	60.4	53.2	50.3	49.2

APPENDIX B: NOISE METER PRINTOUTS

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
1	Calibration Change	11/19/2021	12:52:28 PM															
2	Calibration Change	11/19/2021	12:52:43 PM															
3	Run	11/19/2021	12:55:05 PM															
4		11/19/2021	12:55:05 PM	50.9	60.6	52.1	52.0	84.0	16.7	49.1	55.3	67.1	64.1	59.3	50.9	47.2	45.1	41.5
5		11/19/2021	12:55:06 PM	50.7	64.8	52.0	51.2	83.9	16.1	52.3	57.3	66.9	64.5	57.5	49.7	47.5	45.2	42.5
6		11/19/2021	12:55:07 PM	50.1	62.1	51.2	50.5	83.9	16.8	53.3	58.8	66	62.8	56.9	49.7	47.6	43.6	41.6
7		11/19/2021	12:55:08 PM	51.7	75.0	51.6	50.5	83.8	15.9	53.1	57.1	67.1	66.2	58.3	50.5	46.6	44.8	42.7
8		11/19/2021	12:55:09 PM	52.1	69.6	52.0	51.7	83.9	15.2	52.2	55.1	64.1	63.4	57.8	48.8	46.9	46.4	44.8
9		11/19/2021	12:55:10 PM	54.6	68.6	54.0	51.9	83.9	15.8	49.1	59.6	68.1	66.8	63.4	52.3	50.2	49.2	45.3
10		11/19/2021	12:55:11 PM	57.2	72.3	56.3	54.0	83.9	12.3	51.8	59.1	67.4	66.1	65.8	54.2	53.1	52.7	48.4
11		11/19/2021	12:55:12 PM	59.1	70.4	58.2	56.3	84.0	14.2	52.6	59.6	66.7	69.5	66.7	56.9	53.8	55.1	49.7
12		11/19/2021	12:55:13 PM	58.6	71.8	58.6	58.2	84.0	13.9	52.7	58.6	68.2	73.3	60.6	56.4	53.8	54.2	50.4
13		11/19/2021	12:55:14 PM	66.1	81.0	65.1	58.6	84.0	8.5	53.5	59.7	65.6	68.7	64.6	63.2	62.8	61.8	56.9
14		11/19/2021	12:55:15 PM	67.4	80.5	66.7	65.1	84.3	8.8	54.5	62.7	67.4	74	70.1	64.0	63.8	64	58.5
15		11/19/2021	12:55:16 PM	62.0	74.5	66.3	64.1	84.0	11.6	51.7	63.2	67.9	73.7	68.6	59.3	56.9	58.6	53.5
16		11/19/2021	12:55:17 PM	59.9	71.9	64.1	61.9	84.0	10	53.8	61.9	67.5	64.6	67.4	56.6	54.8	55.8	52.2
17		11/19/2021	12:55:18 PM	59.4	72.2	61.9	60.5	84.1	7.6	52.9	59.5	64.9	63.1	61.7	55.7	54.9	55.8	51.7
18		11/19/2021	12:55:19 PM	59.6	72.9	60.5	59.9	84.3	8.2	50.0	57.6	62	60.5	64.3	57.1	55.6	55.1	52.1
19		11/19/2021	12:55:20 PM	58.4	69.8	59.9	59.0	84.1	8.4	51.2	57.7	62.9	62.1	60.6	56.6	54.3	53.6	51.2
20		11/19/2021	12:55:21 PM	58.9	72.2	59.2	58.9	84.1	7.3	52.1	59.1	63	61.3	60.1	54.5	54	54.7	52.6
21		11/19/2021	12:55:22 PM	57.9	70.1	58.9	58.2	84.3	7.1	49.8	57.8	63.7	60.4	58.5	54.1	54.3	53.8	50.6
22		11/19/2021	12:55:23 PM	53.4	66.4	58.2	55.8	84.4	10.9	48.4	59.2	61.5	60.5	57.6	51.3	49.3	49.3	46.4
23		11/19/2021	12:55:24 PM	52.4	64.8	55.8	54.0	84.4	12.6	47.7	58.9	59.9	61	60.4	50.0	47.9	48	45.1
24		11/19/2021	12:55:25 PM	53.9	65.1	54.0	53.8	84.4	11	50.3	57.2	63	59.5	58.3	51.8	48.5	50	46.7
25		11/19/2021	12:55:26 PM	54.6	65.9	54.4	54.0	84.4	10.2	50.4	58.7	62.2	59.7	57.4	53.1	49.4	50.7	47.5
26		11/19/2021	12:55:27 PM	55.2	68.3	55.0	54.3	84.5	11.6	47.8	58	65.2	58.5	58	53.5	52.1	50.6	47
27		11/19/2021	12:55:28 PM	55.9	68.1	55.7	55.1	84.4	9.7	53.0	57.7	67.7	59.3	56.4	51.6	52.6	51.3	48.6
28		11/19/2021	12:55:29 PM	58.7	72.4	58.0	55.5	84.5	9	54.6	59.1	65.7	59.6	60.6	55.4	53.3	54.9	51.3
29		11/19/2021	12:55:30 PM	60.3	72.7	59.6	57.9	84.5	8.7	52.1	58.5	67.3	63.8	63.4	58.3	55.2	56.5	52.3
30		11/19/2021	12:55:31 PM	59.6	71.6	59.8	59.5	84.5	8.5	55.1	57.9	63.3	63.8	63.7	57.4	53.8	55.6	52.4
31		11/19/2021	12:55:32 PM	57.7	74.5	59.5	58.3	84.4	9.9	54.0	59.3	65.2	62.7	61.4	55.9	52.4	53	51
32		11/19/2021	12:55:33 PM	56.7	69.1	58.3	57.3	84.7	11.1	51.8	60.2	65.2	64.7	60	53.4	51.8	52.2	49.7
33		11/19/2021	12:55:34 PM	55.8	68.4	57.3	56.3	84.5	11.4	55.2	57.8	65.2	66.5	58.8	53.8	51.5	51.1	48.7
34		11/19/2021	12:55:35 PM	54.2	66.4	56.3	55.1	84.7	11.4	51.7	59	60.4	64.1	58.9	52.6	49.3	49.3	47
35		11/19/2021	12:55:36 PM	55.7	67.4	55.6	55.1	84.7	9.1	55.6	56.5	62.7	60.7	59.1	53.6	51.3	50.7	48.3
36		11/19/2021	12:55:37 PM	57.1	70.2	56.8	55.6	84.7	8.4	55.8	58.7	62.4	60.2	59	56.4	52.6	52.2	49.9
37		11/19/2021	12:55:38 PM	62.7	75.6	61.5	56.8	84.9	7.4	49.5	57.6	62.3	64.1	61.8	61.5	57	58.4	55.4
38		11/19/2021	12:55:39 PM	63.0	75.6	62.5	61.5	84.9	8.3	52.9	60.6	66.3	67	65.5	61.3	58	59.5	54.9
39		11/19/2021	12:55:40 PM	59.3	72.4	62.4	60.6	84.6	11.6	56.3	66	65.4	66	65.8	57.3	54.6	55.3	51.3
40		11/19/2021	12:55:41 PM	55.1	68.4	60.5	57.9	84.9	14.3	54.9	66.2	67.7	68.3	59.9	52.4	50.1	51.8	47.5
41		11/19/2021	12:55:42 PM	52.5	63.6	57.9	55.3	84.7	11.3	55.5	60.4	61.9	67.1	57.3	51.1	47.7	49.2	44.6
42		11/19/2021	12:55:43 PM	51.0	62.7	55.3	53.1	84.7	14	55.4	58.5	60.4	60.8	55.8	49.9	46.5	47.3	42.3
43		11/19/2021	12:55:44 PM	49.9	61.4	53.1	51.3	84.9	15	53.3	57.6	61.4	63.7	56.7	48.8	45.8	45.7	41.2
44		11/19/2021	12:55:45 PM	48.3	59.7	51.3	49.7	84.9	14.2	51.1	54.7	64	60	54.3	47.1	44.8	44.1	40
45		11/19/2021	12:55:46 PM	48.2	60.6	49.7	48.8	84.9	15.2	53.7	56.6	61.5	58.3	53.9	47.1	45.2	43.1	39.9
46		11/19/2021	12:55:47 PM	48.2	59.7	48.8	48.4	84.9	15	53.9	55.2	63.9	59.7	55.2	47.4	44.3	43.3	40.2
47		11/19/2021	12:55:48 PM	48.0	59.7	48.5	48.1	84.9	14.4	52.1	58.8	61.7	59.8	55.3	46.5	44.1	43	39.4
48		11/19/2021	12:55:49 PM	48.4	60.6	48.4	48.1	85.0	14.4	53.7	56.7	62.8	59.2	54.4	47.0	45.3	44.1	39.7
49		11/19/2021	12:55:50 PM	56.7	74.4	56.1	48.4	84.9	6.6	50.7	57.1	60.6	57.7	54.3	49.3	50.2	56.4	42.9
50		11/19/2021	12:55:51 PM	49.1	59.7	54.0	51.7	85.0	13.8	56.3	57.3	60	59.4	54.4	47.8	45.2	44.7	40.6
51		11/19/2021	12:55:52 PM	50.6	64.8	51.6	50.9	85.1	11.9	62.1	57.5	61.6	59.3	54	48.2	47.3	45.8	43.2
52		11/19/2021	12:55:53 PM	51.4	64.4	51.5	51.1	85.2	12	53.0	57.1	60.7	59.9	53.7	48.4	49.1	47.7	42.9
53		11/19/2021	12:55:54 PM	50.2	65.7	51.2	50.5	85.0	13.3	52.3	57.5	62.4	60	55.4	49.7	47.2	45.3	41.9
54		11/19/2021	12:55:55 PM	49.4	67.3	50.8	50.0	85.2	14.9	54.1	58	62	61.2	57.4	49.1	46.8	43.9	41.6
55		11/19/2021	12:55:56 PM	48.9	62.7	50.0	49.3	85.2	14.4	50.3	55.3	65.3	59.6	53.6	48.8	46	43.4	41.1
56		11/19/2021	12:55:57 PM	50.2	62.7	50.1	49.2	85.3	12.8	51.4	58	64.4	59.3	53.5	49.3	46.4	45.4	42.2
57		11/19/2021	12:55:58 PM	53.5	66.9	52.6	50.1	85.2	11.3	51.2	57.5	60	63.1	56.6	52.3	52.3	46.7	45.4
58		11/19/2021	12:55:59 PM	52.3	64.8	52.6	52.3	85.3	14.2	53.1	55.5	58.6	62.2	58.6	51.3	49	46.6	43.7
59		11/19/2021	12:56:00 PM	53.4	67.4	53.2	52.5	85.3	13.9	50.9	57.6	59.3	66.8	60.9	53.8	49.2	47.1	43.4
60		11/19/2021	12:56:01 PM	52.7	64.4	53.0	52.5	85.3	13.1	53.9	58.2	61.3	63.8	61.1	53.9	48.4	46.5	44.1
61		11/19/2021	12:56:02 PM	52.8	65.1	53.0	52.7	85.3	13.4	54.0	55.8	62.6	61.2	58.1	51.5	48.8	48.2	45.2
62		11/19/2021	12:56:03 PM	54.9	67.3	54.4	52.9	85.3	13	53.0	56.8	68.2	62.4	57.8	53.3	51.4	51	46
63		11/19/2021	12:56:04 PM	55.9	68.0	55.4	54.4	85.5	12.4	55.1	61.8	68.2	62.5	58	53.6	52.3	52.5	47.1
64		11/19/2021	12:56:05 PM	55.7	68.1	55.6	55.3	85.5	13.3	52.9	65	70	62.8	56.7	52.9	51	52.4	47.9
65		11/19/2021	12:56:06 PM	56.9	69.2	56.5	55.6	85.3	13.7	53.4	64.8	70.4	65.2	58.3	53.1	51.8	53.8	48.7
66		11/19/2021	12:56:07 PM	57.8	73.6	57.4	56.5	85.5	14.9	54.3	65.9	71.1	66.4	60.3	55.4	54	54.1	49.9
67		11/19/2021	12:56:08 PM	60.1	72.2	59.2	57.4	85.3	13.3	51.9	67	74.4	67.7	59.7	56.3	55.4	57	51.5
68		11/19/2021	12:56:09 PM	58.0	69.3	59.3	58.4	85.5	16.7	52.0	69.4	74.5	67.8	61.8	55.3	53.1	53.2	50.6
69		11/19/2021	12:56:10 PM	55.7	67.4	58.4	56.9	85.7	18	52.7	69.9	75	69.5	59.7	53.5	50.5	50.5	48.6
70		11/19/2021	12:56:11 PM	55.7	68.1	56.9	56.2	85.6	18.8	56.4	69.5	75.4	67.3	58.5	52.1	51.7	50.9	48.3
71		11/19/2021	12:56:12 PM	57.1	**72.1**	57.0	56.2	85.8	18.9	58.5	66.6	77.5	73.5	64.6	54.3	53.5	51.7	48.6
72		11/19/2021	12:56:13 PM	55.4	67.6	56.7	55.9	85.6	19.8	50.8	64.3	71.5	73.4	62.7	55.1	51.5	49.6	46
73		11/19/2021	12:56:14 PM	55.6	69.0	56.0	55.7	85.6	18.6	55.1	66.9	73.3	73.7	60.8	53.0	52.4	49.5	47.3
74		11/19/2021	12:56:15 PM	56.2	68.1	56.1	55.7	85.7	18.6	50.9	65.2	71.4	74	60.1	55.4	52.5	49.8	47.3
75		11/19/2021	12:56:16 PM	57.4	73.3	57.3	55.6	85.8	15.3	52.4	63.8	72.7	71.3	62.9	57.9	53.3	51.3	49
76		11/19/2021	12:56:17 PM	54.3	65.7	57.1	55.6	85.8	16.8	53.2	65	71.4	66.1	61.5	53.4	51.5	48.4	46.9
77		11/19/2021	12:56:18 PM	53.8	65.4	55.6	54.5	85.8	17	54.0	64.6	72	65.3	60.1	52.6	50.6	48.7	45.5
78		11/19/2021	12:56:19 PM	55.6	69.8	55.4	54.3	85.7	13.9	55.1	64.6	71.5	65.1	57.8	52.7	52.1	50.7	48.4
79		11/19/2021	12:56:20 PM	58.7	75.0	58.2	55.4	85.8	9.4	49.2	61.5	69.1	64	59.3	53.8	54.4	53.1	51.9
80		11/19/2021	12:56:21 PM	61.7	76.1	60.6	58.3	85.8	7.4	53.2	58.5	66.6	65.5	62.9	59.6	58.8	56	54.4
81		11/19/2021	12:56:22 PM	60.6	74.0	60.7	60.2	85.8	7.4	53.0	58.9	63.2	61.2	60.8	57.2	58.1	54.6	53.7
82		11/19/2021	12:56:23 PM	63.6	88.8	64.1	60.3	85.9	5.5	55.8	59.3	65.5	62.6	63	61.9	56.3	56.2	57.9
83		11/19/2021	12:56:24 PM	56.4	71.0	62.0	59.4	85.8	11.7	58.0	58.9	64.4	62	61.6	60.4	52.8	50.4	45.9
84		11/19/2021	12:56:25 PM	61.9	87.7	62.1	58.3	85.9	9.3	52.8	58.4	65.6	63.9	63.6	65.3	57.6	55.7	53.1
85		11/19/2021	12:56:26 PM	59.2	76.6	61.5	60.3	85.9	10.5	56.2	56.7	66.7	64.9	63.3	62.8	56.5	51.6	50
86		11/19/2021	12:56:27 PM	60.3	83.1	60.9	58.5	85.9	8.6	53.9	55.1	68.3	61.4	62.3	59.3	54.7	54.4	53.9
87		11/19/2021	12:56:28 PM	56.0	71.0	60.9	58.5	86.0	12	52.2	59.3	68.4	61.1	62	59.0	53.1	50.8	47.8
88		11/19/2021	12:56:29 PM	56.5	69.2	58.5	57.4	86.0	10.3	51.1	55.8	68.5	60.9	60.9	55.0	51.4	52	48.4
89		11/19/2021	12:56:30 PM	59.7	82.7	59.8	57.3	85.9	10.1	53.5	57.5	64.2	64.7	65.7	61.0	53.7	53.9	51.9
90		11/19/2021	12:56:31 PM	56.3	69.0	58.5	57.2	86.2	11	53.3	61.6	63.3	64.5	61.5	56.9	52.3	50.7	49.1
91		11/19/2021	12:56:32 PM	57.5	78.9	57.9	56.8	86.3	11.4	53.5	60.9	62.5	64.5	64.6	57.9	52.2	51.6	50.1
92		11/19/2021	12:56:33 PM	55.3	68.1	57.3	56.2	86.0	13.6	54.0	59.8	64.5	66.5	63.7	57.1	50.5	49.6	46.5
93		11/19/2021	12:56:34 PM	56.1	76.7	56.5	55.5	86.2	17	53.1	59.1	61	67.8	61.1	57.7	50.6	50.1	48.6
94		11/19/2021	12:56:35 PM	56.6	70.5	56.7	55.9	86.2	17.3	52.9	56.7	66.1	75	62.1	57.8	50.3	50.5	48.2
95		11/19/2021	12:56:36 PM	58.7	69.9	58.1	56.7	86.2	18.4	52.9	58.8	69	75	63.8	60.0	53.1	53	51.1
96		11/19/2021	12:56:37 PM	61.1	73.6	60.4	58.1	86.3	17.5	56.1	64.8	76.1	73.5	64	57.2	55.1	56.1	54.7

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
36.1	28.8	28.3	53.3	58.2	66	64.7	59.7	51.3	47.9	47.7	43.3	37.6
37.1	28.8	28.5	53.1	57.8	66.8	64.7	59.8	51.2	47.9	47.4	43	37.8
36.1	29.1	29.2	53.7	58.9	66.9	64.6	58.4	50.2	47.8	46	42.9	37
41.7	36.4	30.6	54	59.3	67.2	65.7	58.2	50.6	47.7	45	42.9	42.5
43.5	35.6	29.9	53.1	57.4	66.6	65.8	58.1	50.3	47.1	46	44	44.1
41.4	36.1	30.2	52.1	58.8	67.7	66.5	62.8	51.7	49.6	48.5	45.1	42
44.6	34.9	29.1	52	59.5	68.2	67	65.1	53.5	52.3	51.8	47.5	43.8
44.8	35.3	29	52.6	59.2	67.3	69	67	56.2	53.4	54.2	49.1	44.6
45.3	38.6	29.8	52.9	59.2	68.2	72.4	66	56.4	53.8	54.3	50.2	45.4
54.1	47.3	36.7	53.8	60.4	68	72.2	64.5	62.2	61.8	60.9	55.9	52.8
53.9	47.1	37.9	54.7	61.8	67.5	73.6	68.7	64	63.5	63.1	57.6	53.7
46.6	38.3	30.4	53.7	63.1	67.9	73.8	69	62.9	62.8	62.8	57.5	53.1
46	37.7	30.3	54	63.2	68.7	73.1	69.5	60.9	60	60.5	55.5	50.3
46.1	38.2	31.5	53.8	62.2	67.3	69.8	67.6	58.7	57.4	58.2	53.7	48.1
46.9	38.6	31	53.5	60.8	66.3	66.8	65.2	57.4	56.2	56.9	52.5	47
45.8	38.4	31.3	51.6	59.3	64	64	64.5	57.1	55.7	55.7	52.3	47
46.9	39.4	31.6	52.7	59.1	63.4	62.9	62.7	56.9	55	54.8	52.4	46.9
47	39.3	30.8	51.4	58.9	64.1	62.1	61.1	55.3	54.7	54.7	52.1	47
39.7	31	28.4	51.2	59.2	63.5	61.1	60	54.6	54.1	54	51.2	46.8
37.9	30.1	28.4	49.1	59.6	62.4	61.2	60.3	52.8	51.7	51.6	48.7	43.6
39.9	32.1	28.5	49.8	58.8	62.4	60.9	59.7	51.7	49.7	50	46.9	41
40.2	32.6	28.7	50.5	58.7	62.7	60.7	59	52.7	49.4	50.5	47.3	40.6
41.3	34.2	29	50.5	59	64.5	59.6	58.3	53.3	51.4	50.7	47.2	41.2
43.6	36.4	30	52.4	58.6	67.2	59.3	58.1	53.3	52.7	51.1	48.1	42.8
46.5	39.5	31.3	54	58.8	66.8	59.7	60.1	54.9	53.1	54.2	50.5	45.6
48.6	41.2	32.7	54.4	59.1	67.6	62.9	62.4	57.5	54.5	55.7	51.7	47.8
48	40.4	31.9	54.5	58.6	67	63.9	63.5	57.7	54.6	55.9	52.3	48.1
44.9	36.8	30	54.5	59.2	65.7	63.4	63	57.3	53.9	55.6	52.2	47.7
45.1	37.5	30.1	54.9	60.8	66.1	64.3	62.2	56.4	52.9	54	51.3	46
43.9	35.5	30.1	55	59.5	65.5	66	60.8	54.8	52.3	52.9	50.3	45.5
42.3	34.1	30.5	54.8	59.7	65.2	65.8	59.5	54.2	51.6	51.8	49.2	44.3
43.8	37	32.4	55.2	58.9	63.5	64.7	59.6	53.6	51.1	50.7	48.4	43.8
45.7	39.3	34.8	56	58.7	62.9	62.5	59.5	55.7	52.2	51.9	49.5	45.3
51	44.5	36.7	55.4	58.6	62.9	63.5	61.2	60.4	56	57.3	54	49.7
50.3	42.7	34.3	54.1	60.1	65.6	66	64.4	61.2	57.4	58.8	54.7	50.2
44.5	36	29.5	55.6	65.1	65.7	66.7	65.6	60.8	57.3	58.8	54.5	49.9
39.1	30.4	28.4	55.8	66.5	67.4	67.8	65.4	58.8	55.5	56.8	52.5	47.2
36.5	28	28.4	55.8	65.8	66.7	68.5	62.7	55.9	52.9	54.2	50	43.9
35.1	27.6	28.3	56.4	63.2	64.4	66.6	60	53.5	50.4	51.7	47.4	40.7
34.5	28.1	28.4	55.8	60.8	62.3	64.6	58.2	51.5	48.4	49.5	44.9	38.1
34.1	27.2	28.2	53.7	59.3	63.7	63.7	57.1	50	46.9	47.5	42.9	36.2
34.2	27.2	28.3	54	57.1	62.7	61.5	55.6	48.4	45.8	45.6	41.3	35
33.8	27.2	28.3	54	56.9	63.7	60.1	55.1	47.7	45.3	44.2	40.5	34.6
33.5	26.9	28.2	53.8	58.1	63.5	60.1	55.4	47.5	44.7	43.6	40.3	34.2
34.1	28	28.3	53.8	57.9	63.1	59.9	55.5	47.4	45.2	43.9	39.8	34.1
36.2	29	28.5	53.1	57.8	63.2	59.3	54.8	48.8	49.1	55.9	42.2	35.7
34.6	28.4	28.3	55.6	57.5	61.7	59.2	54.6	48.3	48.3	53.3	41.8	35.2
37.2	29	28.3	60.8	58.1	61.9	59.7	54.6	48.3	47.3	50	42.7	36.8
35.7	27.8	28.3	60.5	58.1	62.1	59.8	54.2	48.4	48.6	48.5	43	36.6
35.8	28.2	28.3	57.5	58.3	62.2	60.3	54.9	49.5	48.4	47.6	42.7	36.2
35.5	28.6	28.3	55.4	58.1	62.9	61.5	56.8	49.3	48.1	46.4	42.4	35.9
35.1	28.5	28.4	54.5	57.8	64.7	60.4	56.7	49.4	47.2	45	41.9	35.7
37.6	31.2	28.5	52.9	57.7	64.6	60.2	55	49.3	46.5	45.3	42.1	37.4
40.6	34	28.7	52.3	57.8	64.6	62.4	56	51.5	51.2	46.3	44.5	39.6
38.3	31.1	28.6	52.9	57.4	62.5	62.6	57.8	51.8	51.3	46.5	44.5	39.6
38.9	30.4	28.5	52.8	57.5	60.2	65.9	60.1	53.2	49.9	47.3	44.1	39.5
38.3	30.9	28.6	53.5	58	61.2	66	61.1	53.9	49.6	46.7	44.3	38.6
39.7	32	28.7	54.2	57.9	62.3	64.2	61.5	53.6	49	47.8	44.9	39.4
40.6	33.2	29.3	54.1	57	67	62.7	59	53.2	50.8	50.2	45.7	40.2
40.9	32.6	28.6	55.1	61.4	68.1	63.1	58.8	53.8	52	51.8	46.7	40.7
40.2	31.8	28.4	54.9	64	69.3	63	58.2	53.4	51.6	52.3	47.5	40.6
40.9	33.1	28.6	54.6	64.6	70.2	64.5	58.2	53.3	51.6	53.4	48.4	40.8
43.4	35.3	29.1	54.1	65.6	71	65.8	59.9	55	53.5	53.9	49.3	42.6
45.7	40.1	31.1	54	66.8	73.8	67.3	60.2	56.1	54.8	56.1	50.8	44.9
46.5	41.5	32.2	52.8	68.6	74.8	67.9	61.6	56.3	54.8	56.1	50.9	46
44.6	38.9	31	53.1	69.8	74.7	69.4	61.6	55.4	53.6	54.4	50.6	46
43.4	36.3	30.1	55.6	70.2	75.4	68.6	60.5	54.3	52.1	52.3	49.4	45
42.8	35.3	29.8	57.7	69.5	77.2	72.8	63.6	54	53.2	52.3	49.2	44
41	34	29.2	57.3	67.6	77.2	73.4	63.8	54.7	52.8	51.5	48.5	43.2
43.2	34.6	29.1	55.2	67.5	74.6	74	62.8	54.8	52.3	50.4	47.3	43.5
41.5	33.7	28.9	54.8	66.7	73.7	74.1	61.7	55	52.5	49.9	47.3	42.2
47.1	38.3	30	53	65.5	72.9	73.9	62.5	57.5	53.4	51.1	48.8	46.3
39.9	31.8	28.5	53.3	65.2	72.4	72.2	62.5	57.4	53.3	51	48.7	46
40.1	35.4	30.7	54.3	65.1	72.4	69.3	61.8	55.4	52.3	49.7	47.7	43.3
43.5	37.2	30.2	55.1	65.3	72.1	67.4	60.7	53.9	51.9	50.3	48	43.1
47.7	44.8	37.4	55.1	64.5	71.7	66	59.3	53.7	53.9	52.6	51.2	47
51.1	48.7	40	53.8	62.5	70.2	65.7	61.9	58	57.3	55	53.9	50.5
49	43.4	33.1	53.4	60.4	68.1	65.4	61.5	57.9	58	55	53.7	49.6
57.4	46.8	37.8	55.5	59.8	66	63.5	62.7	60.9	57.9	56.8	58.3	57.4
41.5	38.4	30.2	58.2	60	65.8	63.1	62.7	60.8	56.6	55.3	55.9	54.8
48.6	42.7	36.3	56.8	59.3	65.6	63.4	63.7	64.9	57.7	56	54.1	50.8
45.4	42.8	36	56.4	58.8	66.8	65.4	64	64.8	57.4	55.4	53.3	50
49.5	45.2	34.4	55.9	57.5	68	63.9	63.4	63.5	56.7	54.9	54.3	49.9
44.6	43.5	33.5	55.5	58.7	68.4	62.4	63.2	62.3	55.9	54.9	54.3	49.9
44.7	38.6	30.5	53.1	58.4	68.7	61.5	61.9	59.4	54	52.8	51.4	47.3
48.9	44	34	54.1	57.6	68.3	64.1	65.5	61.2	53.6	54.3	52.2	49.1
42.5	37.3	29.8	54.2	60.5	66.2	64.8	64.4	59.5	53.2	53	50.8	47.3
45.8	42.8	32.4	54.2	61.5	64.6	64.6	64.4	58.3	52.9	52.1	50.7	46.5
41.2	35.4	29.4	54.9	60.6	64.5	66.1	64.3	58.1	52.3	51.7	49.9	45.4
42.7	37.4	29.8	53.8	60.9	64.5	67.6	63.8	58.1	51.4	50.6	49.2	43.5
43.2	36.9	29.6	53.7	59.5	65.3	73.4	62.4	58.1	51	50.6	48.7	43.5
46.6	38.8	30.3	53.6	58.6	68.9	74.5	63.6	59.5	52.6	52.4	50.5	45.8
50.4	42.5	32.4	55.9	63.7	75.1	74.9	64	59	54.4	55.2	53.8	49.4

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
30.2	28.7	52.9	57.8	65.7	64.5	59.6	51.1	47.8	47.4	43	37.4	30
30	28.6	51.5	56.8	65.8	64.3	58.4	50.2	47.5	46.1	42.4	37	29.3
29.3	29.2	52.7	57.1	66	63.4	57.5	49.3	47.2	44.7	42	36.5	29.1
35.3	30.2	52.7	57.4	66.2	63.3	57.2	49.9	47	44.4	41.9	36.4	29.2
36.9	30.3	52.2	55.9	65.3	64.3	57.7	49.4	46.7	45	43.1	42.1	34.9
35.8	30.2	50.7	56.4	65.1	64.2	57.6	49.5	47	46.1	43.8	41.4	34.9
35.5	30	50.5	58.4	67.1	65.9	62.8	51.7	49.7	48.6	45.2	41.9	35.1
35.5	29.5	51.2	58.7	66.7	65.3	64.9	53.5	52.3	51.8	47.5	43.8	35.1
38.4	29.8	51	57.9	66.7	68.9	63.4	55.8	53.1	53.9	49	43.9	34.7
45.9	35.6	52.9	59	66.3	70.4	62.9	56.3	53.9	54.2	50.2	45.4	38.5
46.9	37.3	53	59	65.8	70.2	64.9	62.2	61.8	61	56	52.8	46
46.3	36.7	51.8	61.2	66.9	72.3	67.1	60.9	60	60.6	55.5	50.3	43.1
43.1	33.8	52.1	62.2	67.3	69.8	67.6	58.7	57.4	58.2	53.7	48.1	40.6
40.6	32.1	53.1	60.6	65.7	66.8	64.9	57.1	56.1	56.9	52.5	46.9	39.2
39.2	31.7	51.2	59.1	63.7	63.9	64.3	56.9	55.7	55.8	52.3	46.7	38.9
38.9	31.6	50.7	58	63	62.8	62.5	56.6	54.9	54.5	51.5	46.2	38.4
39.2	32	51.2	58.3	62.2	61.9	61.1	55.4	54.3	54.5	51.8	46.4	38.7
39.5	31.4	49.7	57.8	63.3	60.9	59.6	54.6	54.1	54	51.2	46.6	39
39	31	49.1	58.2	62	60.4	58.4	52.8	51.7	51.7	48.7	43.7	35.7
35.7	29.6	47.1	58.8	60.8	60.3	58.1	51.2	49.7	49.7	46.8	41	33.1
33.1	28.9	48	57.8	60.6	59.7	58.9	51	49	49.7	46.5	40.4	32.4
32.6	28.7	49.6	57.4	62	59.6	58	51.7	49	49.9	46.9	40.2	32.4
33.8	28.9	48.2	58.1	62	58.9	57.9	52.6	49.2	50.3	46.8	40.2	32.6
35.6	29.7	48.2	57.6	64.6	58.9	57.1	52.3	51.4	50.7	47.3	41.2	33.8
38.6	30.9	52.2	57.6	66	59.2	57	52.3	51.6	51	48.1	42.8	35.6
40.4	32.1	52.6	58.1	66	59.3	60	54.9	53.2	54.2	50.4	45.6	38.6
40.7	32.3	52.6	57.8	65	62.8	62.3	57.2	53.9	55.6	51.7	47.7	40.2
40.2	31.8	53.6	57.8	63.9	62.8	62.1	56.4	52.9	54	51.3	46	38.3
38.3	30.7	52.6	59	65	63.1	60.8	54.7	52.2	52.9	50.3	45.5	37.8
37.8	30.6	51.5	57.5	64.7	64.2	59.5	54.2	51.7	51.7	49.2	44.4	36.3
36.2	30.7	53	57.9	62.9	64.6	58.8	53.2	50.4	50.4	48	43.2	35.1
36.6	32.3	52.9	57.4	62.5	62.6	59.1	53.1	50.3	50.3	47.7	42.9	35
38.8	34.6	54.6	57.1	62.1	61.3	58.8	53.5	51	50.6	48.4	43.7	36.6
43.1	35.6	52.8	57.6	62.2	60.8	58.8	55.8	52.3	51.9	49.6	45.3	38.8
43.2	35.6	52.3	57.9	62.3	63.5	61.2	60.4	56	57.3	54.1	49.7	42.7
42.7	34.7	52.2	59.9	64.6	65.7	64.4	58.8	55.6	56.8	52.6	47.2	39.7
39.6	32.1	54.6	64.7	65.4	65.6	62.7	55.9	53	54.2	50	43.9	36.1
36.1	30.2	53.7	63.2	64.3	66.6	60.1	53.5	50.4	51.8	47.4	40.8	32.8
32.8	29.2	55.1	60.8	62.3	64	57.9	51.5	48.4	49.5	44.9	38.1	30.3
30.3	28.6	53.8	59.1	61.7	63.6	57.1	50	46.9	47.5	42.9	36.2	29
29	28.5	52.3	57	61.9	61.5	55.4	48.4	45.7	45.6	41.3	35	28
28	28.3	51.9	56.4	61.5	59.7	54.7	47.7	45.3	44.2	40.5	34.5	27.5
27.5	28.3	52.9	55.7	62.3	59.5	54.6	47.3	44.6	43.6	40.3	34.1	27.3
27.3	28.3	52.6	55.6	62.5	59.5	54.6	47	44.3	43.2	39.8	33.7	27.1
27.8	28.3	52.7	56.8	61.7	59.3	54.7	46.4	44.2	43.2	39.7	33.7	27.1
29	28.4	51.6	56.8	61.7	58.3	54.4	47	45.1	43.9	39.8	34.1	27.8
28.5	28.4	51.7	56.2	60.7	58.3	54.1	47.6	46.6	50	41.1	34.5	28
29.1	28.4	54.7	57.1	59.9	58.9	54	47.9	46.1	48	40.9	34.8	28.2
28.8	28.4	57.6	56.8	60.8	58.8	53.7	48	47.2	47.5	42.5	35.9	28.2
28.3	28.3	55	56.7	60.5	59.6	53.9	48.4	47.7	46.2	42.1	35.8	28.1
28.6	28.3	54.5	55.8	61.9	60.1	54.9	48.9	47	45	41.9	35.3	28.1
28.7	28.3	52.5	56	61.7	59.7	55	48.7	46.2	44.1	41.3	35.2	28.2
30.6	28.4	51.5	56.7	63.7	59.4	54.1	48.9	45.9	43.9	41.3	35.3	28.6
32.9	28.6	51.3	56.9	62.2	59.3	54.1	49.2	46.4	45.2	42.1	37.4	30.6
32.9	28.6	50.7	56.3	60.2	61.4	55.7	51.2	49.8	46.2	43.9	38.7	31.7
31.7	28.6	51.5	56.3	59.6	62.6	57.5	51.3	49.4	46.5	43.5	38.6	31
31.1	28.6	51.9	57.1	59.8	64.2	59.5	53.1	48.8	46.2	43.1	38.1	30.7
31.8	28.7	51.9	56.5	60.3	62.6	59.1	52.4	48.6	46.7	44.3	38.6	31.1
32.7	29.2	53.3	56.6	62	61.8	58.1	52.3	48.7	47.9	45	39.4	31.7
32.7	29	52.4	56.3	67	62.4	58	53.2	50.9	50.2	45.7	40.2	32.5
32.6	28.7	52.6	61.4	67.6	62.1	57.4	52.9	51.2	51.7	46.6	40.3	32.1
32.9	28.6	53.4	64	69	63	57.2	52.6	51.2	52.3	47.5	40.3	32.1
34.7	29	53.3	64.2	70.3	64.7	57.7	53.2	51.6	53.4	48.5	40.8	33
39.1	30.6	52.7	65.1	70.6	65.6	59.5	54.9	53.4	53.8	49.3	42.7	34.8
40.7	31.6	52	66.6	73.4	66.1	59.2	55.4	53.7	54.4	50.6	44.9	39.1
40.7	31.7	52.1	67.8	73.6	68	60.2	54.2	52	52.3	49.4	45	39.5
39.5	31.2	52.3	69.2	74.2	67.8	59.2	53	51.7	51.5	48.7	44.1	37.7
37.7	30.5	55.6	67.6	75	66.7	59.1	52.7	51.5	51.5	48.5	43.2	36.4
36.3	30	54.4	65.9	74.4	72.6	62.9	53.9	52	50.3	47.1	41.9	35
35.4	29.6	54.2	65.4	73.4	73.3	61.7	53.5	51.9	49.8	47	41.9	34.5
34.5	29.2	52.9	65.5	72.1	73.3	60.8	53.6	52.1	49.8	47.1	41.8	34
37.8	29.9	52	64.4	72	72.2	60.6	54.9	51.9	49.5	46.9	41.2	33.4
37.5	29.8	52.6	64.4	71.6	69.4	61.8	55.4	52.2	49.6	47.7	43.3	34.9
35.9	30.5	53.1	64.4	71.7	67.2	60.8	53.9	51.2	49	46.4	41.5	34.7
36.7	30.2	52.7	64.5	71.5	66	59.1	52.9	51	48.9	46.2	41.3	34.5
44.4	37.2	52.3	62.5	70.2	64.6	58.7	53.1	51.9	50.3	48	43.1	36.8
48.5	40.4	52.4	60.3	68.2	64.1	59.2	53.7	53.9	52.7	51.3	47.2	44.5
46.7	38.3	52.2	59.3	65.7	63.2	60.9	57.1	57.2	54.5	52.7	49	44.9
47.9	38.9	52.1	58.2	65.3	62.7	61	57.6	56.6	54.7	53	49	44.6
45.5	36.6	54.8	59.1	64.7	62	62	60.3	54.6	52.8	52.3	50.9	42.4
43.8	36.7	54.9	58.5	64.3	61.9	61.4	60.2	53.9	51.4	49.9	48.1	39.8
43.7	36.9	54	57.4	65.4	63.1	63.2	63.5	56.6	53.5	51.5	47.9	41.5
45.4	36.3	54.4	55.9	66	62.3	62.5	61.2	55.1	52	49.6	46	41.8
45.7	35.6	53.1	55.8	67.3	61.3	62	59.5	54	52.8	51.4	47.3	44.1
44.1	34.2	52	57	68.3	60.9	61.1	57.2	52.5	52.1	49.8	45.9	41.4
44.4	34.5	51.4	57	66.2	61.1	61.2	57.1	52.5	52.4	49.5	45.7	41.2
42.7	33	51.9	57.4	64.6	64.1	62.6	57.9	52.5	51.7	49.8	45	40.3
43.1	32.7	52.2	60.2	63.3	64	62.4	57.3	52	51.4	48.9	44	39.3
42	32	53.1	59.3	62.6	64.1	63.8	57.4	51.4	50.5	48.1	43.3	39
39	30.5	50.9	59.5	62.5	65.8	62.3	56.4	50.6	49.9	47.2	42.1	37.3
38.3	30.1	53.2	57.8	62.3	67.6	61.8	57.3	50.4	50	48	42.5	37
38.6	30.2	52.9	57.5	64.2	73.4	62.3	58.1	50.7	50.6	48.7	43.6	37.9
41.6	31.9	52.2	58.5	69	73.6	63.3	57.9	52.5	52.4	50.5	45.8	38.6

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.6	51.3	37.5	52.5	54	48.9	53.5	56	52.6	63.1	51.5	58.4	59.2	58.7	53
28.5	51.9	50.6	45.8	54.7	49.8	53.4	60.8	58	63	56.2	56.2	62.7	56.1	51.1
28.6	52	43.7	47.2	52.6	52.7	54.5	64.7	59.5	60.5	54.7	59.4	59	54.4	50.6
28.8	45.9	41.9	48.9	49.1	52.3	56.9	63.9	58.6	59.6	55.3	61.1	61.5	55.9	52.3
29.7	49.1	50.1	45.5	53.8	50.6	45.6	64.8	58.1	59.5	58.9	55.5	63.8	55.6	50.9
29.7	44.5	50.2	45	49.5	50.7	54.7	61.3	59.3	61.8	57.8	59.7	63.2	61.1	52.6
29.5	47.9	50.1	48.3	48.4	55.9	57.9	66.4	63.5	60.5	62.1	62	62.4	64.2	56
29.2	45.1	43.3	47.5	49.5	53.1	57.6	63.7	59.9	62.5	61	66.6	58.7	59.9	66.1
29.1	43.1	45.4	44.7	49.8	49.5	54.9	59.8	65.1	58.3	57.7	68.8	71.4	55.1	55.2
29.8	47.5	49.8	50.1	47.8	53.5	58.8	63	64.2	59.5	58.7	60.3	68.9	55.8	55.7
35.7	42.9	48.3	52.6	52.2	54.9	58.7	59.9	61.4	59.4	56.7	56.5	73.8	68.3	54.3
33.9	48	48.9	53.1	52.1	53.7	61.5	65.6	60	62.2	58.1	56.1	73.4	61.6	65.7
32.1	45.2	44.6	45.3	49	55.3	57.9	63.5	64	62.8	57	60.3	63.7	55.8	67.8
31.7	36	46.4	50.1	57.4	60.4	56	61.4	61.4	56	53.5	58.7	59.7	57.5	54
31.3	41.1	51	51.5	53.6	54.4	55.7	61	58.1	57	58	55.6	54.1	55.4	63.2
30.7	47.9	47.1	42.5	50	51.6	52.9	59.1	55.5	59	55.8	57.6	58.2	53.4	57.3
31.5	46.3	46	43.1	54.1	53.5	55.6	56.4	59.5	55.5	55.2	58	56.1	54.8	55
31	38.1	45.6	45.6	53.3	54	55.2	59.9	60.3	57.6	55.2	55.5	57.6	55.1	51
29.6	49.6	46.6	43.1	48.9	53	57.5	55.6	56.7	56.5	54	55.2	55.9	55.4	50.8
28.9	49	43.8	39	44.8	52	57.1	58.8	57.3	54.7	56.6	57.4	54.3	59.6	49.7
28.6	39.5	49.7	43.5	53.5	51.8	56.2	56.7	58.5	56.7	55.9	56	52.1	56.4	53.4
28.6	37.6	42	47.8	47.2	51.7	54	60.3	60.5	53.9	55.3	54.8	55.2	52.1	55.3
28.7	39.2	45.9	43.8	52.6	48.9	57.1	60.2	56.7	60.1	53.8	56.2	53.6	53.9	53.6
28.9	46.4	43.8	40.7	46.2	54.2	55.1	61.3	63	60.8	55.3	53.4	54.4	53.2	51.1
29.7	41.4	47.3	50.9	50.5	54.2	55.2	63	63.5	60	55.2	57.3	51.8	51.6	58.5
30.9	38.1	46.3	47	49.4	53.8	54.6	61	64	58.7	57.9	58.5	58.3	56.2	62.1
31.8	47.9	41.7	47.8	48.2	55.3	57	57.8	62.9	55.5	56.6	61.3	60.8	57.1	62.2
30.7	53.8	46.7	51.7	46.1	50.9	56.7	61.9	57.2	58.4	55.3	59.4	58.9	54.2	60
30.3	49.8	47.7	52.7	48.2	51.9	59.8	63.7	56.4	58.4	55.9	60.5	59	53.3	58.7
30	46.9	49	47.1	50.7	53.4	52.5	62.6	60.4	57.6	55.4	65.5	55.5	52.7	56.2
29.7	42.4	46.4	51.5	50.5	53.2	57.6	56	59.2	56.8	58.3	62.8	57.1	51.4	56.3
30.4	42.9	50.7	49.9	51.6	47.4	54.8	59.3	55.8	53.6	53.9	59.9	55.6	52.4	54.9
31.9	45.3	50	53.1	53.7	49.5	52.5	59.9	55.8	56.1	56.1	53.3	52.5	52.2	56
33.5	43.4	51.8	50.4	50.4	55.2	54.8	59.5	56.4	56.6	56	62.7	55.8	54.1	59.3
34.7	45.9	48.7	51	51.7	52.5	56	60.4	57.4	58.3	55.5	64.5	60.1	58.4	63.5
32.2	48.3	48.9	44.9	51.1	54.1	59.8	63.1	61.3	55.8	54	64.8	60.5	58.4	62.8
30.2	47.1	45.1	52.8	53.3	61.7	64.4	66.2	59.7	64.2	64.2	64.5	56.2	58.1	55.2
29.2	46.3	51.8	53.9	57	62.5	60.3	59	58	59.2	67.5	54.6	52.4	56.2	49.9
28.6	46.2	51	51	51.7	57.9	56.1	58	55.2	56	54.9	54.8	54.2	54.1	51.2
28.5	39.9	48.6	47.9	52.7	53.9	55	57.7	55	58.3	63.3	55.9	53.2	54.4	51.1
28.3	47.6	50.7	45.3	46.4	51.6	55	58.9	59.5	58.5	58.3	52.9	53.6	51.6	48.4
28.3	53.5	45.8	51.4	48.7	49.7	51.9	55.5	54.9	57.7	54.1	53.3	51.5	51.8	49.1
28.3	50.6	39.8	47.9	48.6	51.4	53.9	59.2	58.7	58.4	56.6	54.7	50.8	51.5	48.4
28.2	44.1	45.6	49.2	47.1	51	56.1	57.3	59.7	54.9	56.8	55.3	52.5	53.3	49.5
28.2	50.2	45	50.8	45	52.8	54.9	58	55.4	55.5	55	54.9	51.5	50.5	49.6
28.3	48.3	50.3	49.9	50.9	51.1	56	60.8	56.9	52.9	55.6	53.9	51.8	50.6	48.8
28.3	43	48.5	46.8	46	49.2	51.7	55	57.7	55.7	55.2	54	53.2	50.2	49.2
28.3	40.1	48.5	53.4	49	52.4	55.4	55.3	55.1	54.8	56.2	54.4	54.9	51.6	48.6
28.3	40.2	54.3	51.8	51.1	53.4	54.8	59.4	55.3	56.9	56.7	54.7	50.8	50.3	48.5
28.3	49.7	57.5	49.4	52	51.1	54.4	53.3	54.4	57.7	56	55.7	53.8	52.2	47.8
28.2	58.3	50.8	45.2	47.9	54.7	53	58	55.5	56.4	57.4	55.4	54.1	54.9	50.9
28.3	50.6	46.6	47	47.3	51.9	54.8	60.5	54	56.8	56	55.5	52.3	52.2	48.3
28.3	48.6	49.1	46.6	48.4	49.5	53.8	64.3	55	55	56	56.1	52.9	50.1	49.2
28.4	51.3	45.1	49.4	49.8	53.6	53.9	60.8	54.5	54.5	60.1	55.3	53.5	54	51.4
28.6	44.5	48.1	47.6	48.6	53.1	54	55.8	53.2	56.2	57.9	57.6	52.9	52.8	56.3
28.5	44.7	44.8	48.7	50.3	49.3	54.2	55	55	53.2	55.9	63.2	64	51	51.3
28.5	45.5	46.9	47.6	46.9	53.3	54	55.1	58.1	55.4	54	58.6	61.3	50.4	58.6
28.6	45.7	49.2	47.9	51.6	53.8	53.8	54.6	59.7	54.8	54.8	58.5	52.7	51	58.6
28.7	47.5	46.9	44.5	47.7	50.6	55.4	59.7	61.9	54.5	59.8	57	55.4	54	50.8
28.7	49.2	50.3	47.6	48.4	49.4	53.7	68.9	57.4	56.7	57.6	57.3	59.4	56	51.8
28.5	48.3	50.8	49.8	48.8	53.1	62.4	69.2	59.4	57.1	55.1	58.7	55	53.5	51.9
28.5	48.8	49.8	49.3	54.5	56	62.9	70	61.2	58.9	59.7	61.5	58.6	56.2	52.3
28.6	50.9	48.7	48.7	54.2	53.7	62.7	70.9	60.3	60.3	65.5	58.7	57.5	55.9	56
29	48	50.2	49.9	50.6	55.1	63.4	73.3	62.2	66.7	63.5	59.4	59.8	59	53.6
30.6	49.5	49.5	46.8	52.2	55.6	67.7	71.1	64.2	73	56.9	58.4	64.9	58.8	51.6
31.2	44.2	47.9	49.1	53.5	62.1	65.7	71.7	62.1	72.4	62	63.1	65.8	58.4	52.3
30.5	48.6	47.5	48.1	49.9	64.8	67.1	71.5	60.9	72.8	55.9	60.1	64.7	56.9	52.8
30	47.3	47.9	54.2	62.8	64.6	64.5	70.4	61	74.9	69.8	59.6	65.6	62.3	55.3
29.5	48.2	48.6	55.5	56.4	62	59.6	70.9	63.3	70.1	70.9	71.3	64	62.3	55.3
29.2	53.9	52.6	51.1	52.4	57.9	65	72.1	65.1	61.5	63.8	73.1	59.9	58.8	55.7
29	46.7	43.7	49.9	54.5	56.8	62.7	71.7	66.5	65	55.6	73.4	63.2	55.8	55.8
28.9	42.1	48.3	37.4	52.5	49.4	59.5	70.1	65.5	63.2	64.7	67.8	69.7	58.4	54.3
29	49.5	46.8	47.4	49.3	49.8	62.6	71	66.9	66	63.1	63.5	63	61.3	52.7
29.1	44	51.1	52.4	48.5	52.7	62.7	70.7	65.4	64.9	61.5	60.7	56	59	51.5
29.7	44.6	48.6	50.3	54	48.2	61.9	71.5	64.7	60.7	62.7	58.8	59.7	54.9	52.1
30.3	45.2	45.4	49.1	46.8	52.4	60.7	69.7	65.3	64.8	59.4	59	57.9	52.6	54.5
37.3	46.6	50.1	48.6	46.9	54.7	56.1	56.5	65.9	61.4	59.7	63	58.7	55.4	55.4
35.8	47.9	50.5	48.7	49.3	53.6	54.1	60	60.5	58.7	57.2	58.2	57.4	56.4	56.6
35.3	42.7	48.6	43.9	50.8	54.8	55.4	59.5	60.6	60.7	58.1	58.3	55.2	58.9	57.7
33.7	44.7	51.7	52.2	50.9	53	58.6	60.7	61.7	58	58.7	56.3	59.5	58.8	57.1
31.9	42.5	49.6	51.9	50.7	53.5	54.2	57.7	63.6	55	61.9	55.5	57.3	58	57.1
34.4	47.1	53.5	45.1	53.8	52.5	54.3	55.4	66.2	57.2	59.4	60.5	58.7	62.3	59.3
34.4	53.6	47.6	42.5	53.2	50.3	53.1	58.1	65.6	60.8	57	58.9	57.7	56.9	59.9
34.3	49.1	54.3	52.2	48.8	49.3	54.7	62.6	64.2	57.6	56.4	55.6	55.2	55	59.4
32.3	47.6	51.2	48.2	46.4	53.8	56.2	68.6	60.4	57.3	56.8	55.7	56.3	56.8	55.4
32.2	46.1	49.3	46.3	48	51.5	53.1	65.1	62.2	57.2	54.2	58.5	62.6	60.3	57.2
31.3	44.3	48.3	39.7	53.1	48.9	57.9	56.7	59.9	57.9	59.3	62.6	57.9	56	57.1
30.8	40.8	52.2	46.9	47.7	58.3	58.8	57.8	57.7	58.8	60.1	59	58.6	59.5	58.3
30.5	45.4	50.9	49.6	53.6	55.9	56.8	57.6	57.8	58	63.3	58.8	59	60.7	55.8
29.9	48.6	47.7	46.2	49.1	52.3	57.4	60	58	58.8	65.5	55.6	59.2	57.9	55
29.6	51.5	50	48.1	49.8	57.4	54.2	59	56.9	60.6	74	63.6	57.5	57.9	55.1
29.9	45.9	45.6	48.4	50	53.1	55.8	59.8	61.7	62.9	74.5	59.9	58.1	58.4	58.3
30.2	47.6	51.4	47.9	45.6	53.8	59.7	60	59.9	75.1	74.1	61.3	59.8	60.4	57.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
48.3	49.7	45.4	42.1	42.7	42.5	40.5	40.3	40.5	39.8	38.2	36.1	34.1	33.3	30.3	28.3
49.5	47.3	43.7	42.9	45	42	40.3	40.8	40.3	40	38.5	38.3	35.9	34.7	31.3	29
47.4	46.8	43.7	42.6	45	42.7	39.6	38.9	38.8	38.9	37.8	37.4	34.6	33.4	30.8	29.1
48.6	46.2	48	42.9	43.2	42.7	41.5	40.4	39.2	40.6	39.1	37.8	36.6	38.9	36.8	34.8
49.6	45.2	43.6	42.7	42.4	43.2	41.6	41.9	41.4	41.4	41.9	39.3	39.6	40	38.7	38
50.4	48.1	48.2	44.3	43.8	45.1	46.1	45	44.4	43.1	41.8	40.1	39	37.9	35.2	36.5
58.2	50.7	48.6	47.5	47.4	46.8	49.5	48.8	47.6	45.7	44.5	43.8	42.4	41.8	39	38
54.2	53.8	51.6	47.4	48.1	47.9	50.9	52.2	50.2	48.1	46.1	44.4	43.8	42.3	39.7	36.9
56.9	50.9	53.3	50.4	48.6	48.8	49.2	48.8	50.2	48.9	46.9	45.6	43.9	42.1	40.7	37.9
59.2	54.5	58.7	59.5	57.9	57.6	58.2	58	57.3	54.5	52.7	52.1	51.1	50.4	49.4	47.7
65	57.4	59	60.3	56.6	59.2	60.6	59.6	60.1	57.9	55	53.6	51.9	50.8	48.7	47.6
59.8	52.4	56.3	52.7	52.7	52.6	51.7	53.5	54.9	53.7	50.3	47.8	46.3	43.8	41.4	39.3
56.9	50.4	53.8	52.6	50.1	49.7	50.7	51.4	51.1	50.2	48.1	46.8	46.6	43.6	39.9	38.5
58	50.6	50.2	50.9	49.9	49.9	50.3	50.8	52.4	49.5	48	46.8	46	43.4	40.7	38.6
54.6	49.1	54.7	50.3	51.6	50.2	50.1	51.2	50.6	49.7	48.2	47.2	46.4	44.5	41	39.2
56.1	50.3	54	51.7	50.4	49.8	48	49.3	49	48.8	47.6	46.4	44.9	42.9	40.5	38.5
56.9	49.4	49.1	50.6	49.8	49.5	48.9	50.4	49.7	49.9	49	48.3	46.2	43.7	41.9	40.2
53.6	48	50.5	47.1	48.7	49.2	50.5	49.7	49	48.1	47.1	45.8	44.6	43.3	42.3	40.8
50.3	46.9	47.4	44.9	45.3	45	44.1	44.3	45.4	44.2	43.5	41.3	38.9	36.8	34.6	32.3
49.3	47	45	43.9	43.9	44	41.8	43.1	43.9	43.2	42.4	40.2	37	35.2	33	29.7
49.2	47.1	47.4	46.2	43.4	44.8	42.9	44.8	45.3	45.9	43.9	41.1	38.8	37.4	34.9	31.5
50.9	48.7	49.4	46.9	44.2	45.2	45	45.4	47.2	45	45.2	42.3	39.3	37.4	35.4	32.1
50.9	49.9	49.7	44.6	44.9	47.1	49.1	45.9	46.5	45.7	44.9	40.9	39.4	38.4	36.6	33.7
52.6	48.1	47.8	45.7	44.5	47.3	49.8	46.3	45.5	47.1	46.3	42.4	41	40.2	39.1	36.4
50	48.7	51.5	50.7	46.3	49.9	47.4	49.3	49.7	50.7	49.2	45.1	42.9	43.3	42	38.8
53.3	54.7	52.8	53.5	49.4	51.5	49.5	52	52.8	50.5	49.3	46.4	45.7	45.4	43.7	41.3
53.8	53.7	52.2	51.3	48.3	50.2	49.5	50.3	51.5	50	48.8	47.4	46.6	45.4	42.7	40.4
52.7	53	51.8	49.9	46.1	48.9	48.5	48.2	48.7	48.4	47.3	46.2	44.2	42.5	39.5	36.5
50.1	50.4	48.4	46.8	47.3	47.8	47.5	47.2	47.4	47.1	45.6	44.9	44.1	42.7	39.3	37
52.9	51.6	48.8	45.6	46.5	48.1	45.8	46.4	47.3	45.7	44.3	44.1	43.6	41.8	37.9	35.2
49.2	50.5	47.1	45.2	43.7	45.7	44.1	44	45.4	43.6	42.9	42.2	41.7	39.5	36.7	35.1
56.3	48.2	48.5	48.7	46.3	47	46.4	46.8	45.6	45.9	43.9	43.5	43	40.2	38.7	37.3
54.3	51.4	52.9	49.2	47.1	47.9	48	48.1	47.5	46.9	45.2	45.4	44.2	42.5	40.8	38.3
51.3	55.9	58	54.7	50.6	53.5	51.3	53.9	54.7	52.3	51.6	50.3	49.7	48.4	45.2	44.2
57.3	53.8	59	56.9	52.7	54.4	52.3	53.9	56.2	53.8	51.3	49.8	48.8	46.8	45.5	43.8
61.3	50.9	54.7	51.9	48.3	50.9	49.4	49.3	51.7	50.6	48.6	46.1	43.4	41.5	39.5	37.4
52.7	48	48.7	47	43.9	46.1	45.3	46.4	47.4	47.3	45	41.9	38.8	36.9	33.5	30.7
50.2	48.7	46.2	43.5	42.9	44.1	41.9	44.2	45	44.1	42.1	38.8	36.2	34.2	30.6	27.9
47.2	46	46.1	42.4	41.8	42.6	40.9	42.2	43.2	42.6	39.5	36.8	35	32.8	29.5	26.4
45.6	45.9	44.3	41.4	41.1	41.7	40	40.9	41.3	40.6	37.9	36.2	34.2	32.3	29	26.4
46.5	45	42.7	39.8	40	41.4	39.1	40.4	38.7	38.8	37.1	35.2	33	31.9	27.8	24.9
47.1	44.7	41.6	40.1	40.2	40.8	39.7	38.5	38.7	37.6	36.2	35.3	32.7	32.4	27.8	25.1
49.5	44.3	41.6	39.9	39.5	40.6	39.1	39.6	38.7	37.2	37.5	34.8	32.8	31.8	27.9	25.1
47.6	43.6	42	39.6	38.8	40.3	38.8	39.7	38.5	36.9	36.8	34.2	31.9	31.5	26.9	24.7
49.8	43.7	41.8	38.9	38.9	41.9	39.3	39.9	39.7	38.1	37.1	34.1	32.9	32	27.8	25.8
47.5	45.2	46	39.6	42.3	48	43.7	56.3	40.1	39	40.4	37	35.3	33.9	29.8	28
48.9	44.1	42.5	41.2	40.2	41.2	40.9	41.2	40.1	38.2	38.3	34.9	33.2	31.5	28.2	28.9
47.2	45.4	42.3	42.2	43	42.1	42.4	42.5	40.9	39.5	39.7	38.5	37.1	34.6	32.5	27.6
48.9	45.5	42.7	41.2	43.7	43.1	45.4	44.2	42.4	39.9	40.2	36.7	36.4	33	30.5	26.5
48.8	48	43.6	41.4	43.5	42	41.1	42.7	41	38.6	39.1	36.5	34.9	33.1	30.9	27.2
48.5	46	44.1	42.2	42.5	43.8	39.3	40.1	39.3	37.9	38.9	35.8	35	32.8	30.6	27.6
48.4	46.3	42.4	41.7	40.8	42.2	41	39.3	37.6	38.2	38	35.8	34.3	32.2	30.2	26.8
46.2	46.7	43.7	41.9	41.7	42.4	41.6	42.3	39.9	39	38.7	37.4	35.9	34.7	33.1	28.9
48.1	49.2	46.8	45	48	47.5	47.5	42.9	41.6	41.6	41.8	40.5	39.5	37.8	35.4	32.5
49.4	48.8	46	43.9	44.4	44.2	45.1	42.9	42.5	39.6	40.3	38.6	36.7	35.4	33.3	30.5
59.7	48.3	50.1	46	44.3	44.3	44.5	42.9	43.3	40.2	40.6	37.8	36.4	35.4	35	30.8
52.9	52.4	47.3	46.1	43.6	44.7	41.9	42.4	42.1	40.6	41.8	38	36.1	35.9	32.9	30.5
48.4	47.9	45.6	46.5	43.5	43.8	44.4	43.3	44	42.2	42.8	39.3	37.8	37.2	34.3	31.8
51.1	49.2	49.1	47.2	45.9	46.5	45.7	47.3	46.8	43.9	43.2	39.9	39.2	38	35	32.7
51.9	50.3	49.2	48.6	47.8	47.3	48.1	48.2	49.1	46	44.2	41.4	39.9	38.2	35.6	33
50.9	47	47.3	48.8	45.5	46.8	45.9	48.6	48.3	45.9	45.9	42.1	39.5	37.6	34.7	32.1
50.2	46.3	48.6	49	46	48	48	49.7	49.7	47.3	46.6	43.3	40.3	38.3	35.5	32.5
51.9	49.1	51.5	50.1	48.2	49.7	48.9	49.5	50.5	47.6	47.1	44.7	42	40.8	38.2	35.3
53.5	52	51.1	52.3	50.3	50.2	50.9	52.6	53.5	50.5	48.6	46.7	44	42.3	40.6	39.4
53.7	50.6	50.7	50.1	47.5	48.8	48.9	49.2	49.4	47.5	47.3	45.7	44.6	43.5	40.9	39.9
50.2	49.9	47.9	47	45	46.8	45.4	45.4	46.4	45	45.2	43.1	42.9	41.6	38.8	38.5
51	49.3	46.7	46.9	46.2	47.6	46	46	45.8	46.9	45.8	42.1	41.7	40.7	37.9	36.3
53.1	49.9	50.1	49.8	48.4	48.7	48.2	46.3	47.2	47	44.8	43.6	42	39.9	37.2	35.6
55.8	50.3	50	49.1	46.6	47.5	46.3	45.4	44.8	44.4	42.4	41.1	39.7	38	35.8	33.8
54.6	49.4	48.2	47.1	47.6	48.4	46	45.1	44.5	44.3	44.2	42.1	41	40.3	38.7	34.2
55	52.7	47.5	48.3	47.8	48.5	46.3	45.6	45.2	44.6	44.1	42.1	40.5	38.7	36.5	34
57.7	54	53.7	50.3	49.2	49.3	47.1	46.3	46.7	45.1	45	43.5	44.2	44.2	42.2	37
53	50.9	48.7	47.4	46.4	47.8	45.6	44.6	43.9	42.8	43.6	42.8	39.5	37	35.1	32
50.7	48.7	48.5	46.6	45.2	47.6	45.3	45.2	43.8	43	42	40.8	38.4	36.8	35.1	32.5
52.9	49.5	45.9	46.5	46.4	48.1	46.9	46.6	45.5	44.9	45.4	43.1	41.3	41	38.5	35.2
54.8	51.2	46.6	47.4	49.8	49.8	48.7	49.2	48.2	47.2	48.3	46.9	46	44.5	43.1	39.7
61	56.5	53	53.9	54	54.8	52.9	52.1	51.8	49.8	50	49.6	49.4	48.4	45.9	43.4
55.5	54.8	49.9	51.5	52.8	53	54.1	51.1	49.5	49.4	49.2	49.4	48.1	46.2	44.6	40.7
56	58.8	56.3	53.9	53.8	50	50.4	52	52.6	50.8	52.2	50.8	54.4	54.5	51.9	48.9
56.3	57	55.7	54	48.1	48.1	46.9	46.1	46.1	44	42.6	40.6	40.1	38.3	36	35.7
58.5	62.5	61.3	57.5	55.2	51.2	51.9	52.7	51.2	52.6	49.8	46.8	47.3	44.3	45.2	42.7
57.5	59.2	58.9	56	51.8	53.5	49.7	47.7	46.5	45.8	47	45.3	43.8	42.6	40.1	38.5
58	56	54.6	53.1	50.3	48.5	48.1	48.4	49.3	48.6	47.4	50.4	49.7	47.1	44.9	41.5
55.2	56	50.3	53.1	50.2	49.4	48.2	47.7	45.5	46	44	42.5	42.8	41.4	39.1	38.3
55.2	51.5	50.8	47.8	47.2	46.3	46.6	48.5	46.2	46.8	44.9	43.7	42.1	42.1	38.5	37.6
60.7	57.7	55.3	54.7	49.4	48.9	48.6	51.2	47.2	47.5	49.3	46.2	45.8	45.7	44.7	40.5
56.6	53	53.1	49.9	46.7	47.5	48.4	47.3	44.1	45.4	45.2	45	42.2	39.5	37	36
58.7	54.8	53.3	49.5	48.6	47.3	47.6	48.4	46	45.6	46.5	45.6	42.8	42	41.9	39.3
58.3	54	52.5	50.3	46.6	45.8	44.6	45.6	44.7	43.3	43.6	41.5	39.5	38.2	35.8	34.5
57.2	52.9	53.7	49.6	47.3	45.3	45.2	45.1	45.2	44.9	46.8	42.8	40.7	39.5	38.1	35.2
57.4	52.3	53.9	48.9	47	45.8	43.8	45	46.9	44.6	44.1	43.3	42.5	40.5	38	35.2
59.8	57	56.4	50.6	47.9	49.4	46.8	49.7	48.2	47.4	47	46.1	45.9	43.9	41.3	38.7
57.9	53.6	52.1	49.6	50	51	50.5	51.6	52.4	48.9	50.6	48.9	50	47.6	44.8	42.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
25.1	23.7	22.6	22.8	23.5	24.4	46.3	50.4	50.1	51.8	53.5	53.3	62.1
25.3	23.7	22.9	22.9	23.9	24.5	50.9	50.5	50.1	54.5	52.9	53.7	61.6
25.5	23.8	23.3	23.4	25.4	24.5	51.5	50.3	48.4	55.1	52.9	54.3	63.5
32.6	32	30	27.3	24.8	24.7	51.1	47.3	49	52.8	53	56.5	64
31.9	30.9	28.8	26	24.4	24.5	49.2	49.4	48.4	53.2	52.8	55.7	65.1
31.8	32	29.5	26.4	24.8	24.8	49.1	50.2	47	53.2	51.5	54	64.3
32.2	29.6	26.2	24.4	23.9	24.5	48.3	50.2	47.8	51.2	54.9	57	65.7
32.6	29.8	26.9	24.4	24	24.5	47	50.1	48.1	50.2	54.9	57.7	65.2
34.5	35.7	28.2	25.8	24.7	24.7	45.6	47	47.5	50.6	53.4	57.7	64.3
43.8	43.5	37.3	34.6	31	26.6	46.6	49.4	49.4	50	53.4	58.5	63.6
44	42.6	38.2	35.9	32.2	27.3	46.6	49.7	51.8	51.7	54.7	58.9	62.2
35.9	32.8	29.6	26.8	24.9	24.6	47.3	49.5	53.8	52.4	54.3	60.9	64.4
35.2	32.2	29.4	26.7	24.8	24.7	47.5	48.9	51.9	52	55.6	60.3	64.4
35.8	32.8	29.6	28.3	26.5	24.6	45.8	47.1	50.1	56.5	59.4	58.8	64.2
36.1	33.4	29.8	28.3	24.9	24.5	42.3	49.8	51.3	55.5	58.6	57.9	62.5
36.1	32.5	29.3	27.8	26.1	24.6	47.1	49.8	50.9	54.1	56.4	56	61.9
36.9	34.2	30.8	28.7	26.2	24.7	47.8	48.5	47.5	54.1	55	55.6	60.5
36.4	34.3	31	27.7	24.9	24.8	46	47	46.6	53.6	53.9	56	59.8
28.4	25.2	23.2	23	23.6	24.3	48.2	46.6	45.3	53.3	54	56.9	59.5
26.9	25	23	22.9	23.5	24.5	49.5	46.6	43.6	51.2	53.4	57.4	58.8
29	27.4	24.2	23	23.6	24.4	48.1	48.9	43.1	52.2	52.8	57.5	58.7
29.7	27.4	25	23.5	23.8	24.5	44.7	47.9	47.1	52.1	52.4	56.4	59.9
31.2	29	26.5	24.5	23.7	24.6	41.6	46.4	47.1	52	52.1	57.2	60.3
33.7	31.4	28.5	25.9	24.4	25.3	45.5	45.3	45	51.8	53.9	56.1	61.2
36.6	34.6	31.5	28.2	25.7	25.1	44.9	47	49.2	50.8	54.3	55.6	62.3
38.5	35.9	33	30	26.9	25.1	43.2	46.5	49.2	50.2	54	56	62.3
37.6	35.2	32.5	29	26.2	24.9	47.3	46.5	48.5	49.7	55	56.4	61.9
33.3	32.1	29.4	26.1	24.3	24.8	52.4	46.4	51	48.6	54.9	56.8	61.3
34.2	32.6	30.6	26.5	24.4	24.6	52.4	47.9	52.1	48.5	52.9	59.3	63.1
32.4	30.5	28.3	25.1	24.9	25.9	50.5	48.9	52.1	50.4	53.8	58.9	63.5
30.7	29.2	27.2	24.9	25.3	26.6	48.8	48.7	51.6	50.5	53.9	58.2	62.5
33.5	32.4	29.7	26.7	26.9	29	46	50.5	50.9	51.8	52.7	56.8	60.4
35.7	35	31.8	28.7	28.7	31.8	45	51.6	52.4	53.2	50.7	55.8	60.6
41.2	40	36.7	33.1	30.1	31.9	45	51.8	52.7	53.2	54.5	55	59.9
39.7	37.6	35	31.8	28.6	25.9	45.5	51.8	51.4	52.1	54.4	56.3	60.5
33.2	30.8	27.7	25.1	24.3	24.8	47.9	50.7	51.4	51.9	54.2	59	62.5
27.2	25	23.5	23	23.6	24.4	48.1	49.2	51.6	53.3	60.5	63.3	65.4
24.3	22.7	22.3	22.8	23.5	24.5	48.4	50.8	54	56	62.4	63.5	65.3
23.7	22.4	22.2	22.8	23.7	24.4	46.8	52	52.5	55.3	62.3	61.2	62.2
24.6	22.8	22.3	22.6	23.7	24.4	46.6	50.3	52	54	59.8	58.7	59.8
23.1	22.1	21.9	22.5	23.4	24.4	47.3	51.6	49.7	52.9	57.2	57.3	59.3
23.2	21.8	22	22.5	23.5	24.5	52	49.7	50.3	49.8	54.5	55.5	59.1
23	22	22.1	22.6	23.5	24.5	52.6	47.5	50.4	49.6	52.4	54.5	59
22.6	21.9	22	22.5	23.4	24.4	50.7	45.8	50.1	49.4	52.2	55.8	58.7
23.9	23	22.2	22.6	23.6	24.5	49.6	45.7	50.3	47.3	52.8	56.2	59.1
25.5	23.8	22.7	23.2	23.5	24.5	49.6	48.9	50.7	49.8	52.2	55.9	60.7
24.6	23.2	22.4	22.7	23.6	24.4	48.6	49	49.8	49.8	51.7	56.2	59.7
25.5	24.1	22.5	22.7	23.4	24.5	46	48.9	53	49.4	51.9	54.9	56.9
24	22.6	22.2	22.7	23.5	24.4	43.1	53.3	53.6	51.3	53.1	55.1	58.5
24.5	23	22.4	22.7	23.4	24.4	48.7	56.9	51.7	51.5	53.7	55.2	58.2
25.5	23.3	22.4	22.6	23.5	24.4	56.9	56.7	50.6	51.3	54.3	54.7	57.9
24.6	23.5	22.8	22.7	23.5	24.5	56.7	53.8	48.5	49.6	53.3	55.8	60.1
27.6	26.8	24	23.1	23.6	24.5	53.8	50.8	47.5	49.3	53	54.1	63
31.2	28.6	26	23.6	23.7	24.5	52.2	49.9	48.9	50.5	53	54.8	62.8
27.9	26.2	24.2	23.2	23.7	24.5	51.1	48	49.4	49.3	53.5	54.8	61.4
26.9	25.4	23.9	23.2	23.6	24.4	48.4	48	49.3	50.4	52.9	54.1	58.9
28.1	25.5	23.9	23.3	23.7	24.6	46.2	47.3	48.4	50	53.7	54.6	57
29.2	26.6	24.5	23.4	23.9	24.5	46.5	48.6	49.1	51.3	53.7	54	55.8
30.3	27.7	25.9	24.7	24.4	24.6	47.1	48.9	47.7	51.9	54.2	55.1	58.9
29.7	27.5	24.7	23.4	23.7	24.4	49	50.3	47.8	49	51.6	54.6	67.1
29.1	26.5	24.1	23.1	23.6	24.4	48.8	51.3	49.6	50.2	52.8	60.9	68.6
30.7	27.6	24.7	23.6	23.5	24.4	49.2	50.5	49.6	54.1	55.4	62.2	69.7
33.1	30	26.6	24.6	24.1	24.5	50.3	50.4	49.9	54.9	55.3	62.9	70.6
37.6	35	31.7	27.9	25.6	24.7	50.1	50.9	49.8	53.9	55.6	63.4	72.6
38.6	37.1	33.1	29.1	26.5	25.1	49.6	49.9	49.6	52.6	55.8	66.8	73.4
36	34.3	30.6	27.4	26	25.1	49.4	50.1	49.2	53.9	60.7	66.7	71.9
33.7	31.4	28.2	25.9	25.2	24.9	48	48.7	48.7	53	63.6	67	72
32.4	30.4	27.6	25.4	24.9	24.7	48.3	48.3	53.1	61	64.5	67.1	71.5
31.3	28.7	26.4	24.4	24.3	24.7	48.4	48.7	55.3	60.7	64.3	65.3	71.1
31.4	29.8	26.9	24.6	23.9	24.6	52.9	51.6	54.2	58.3	62.8	65.2	71.9
30.8	28.6	26.4	24	23.9	24.5	52.9	51.4	53	56	60.2	65.3	72.1
34.9	34	29.8	26.2	24.4	24.6	49.8	48.4	51.2	55.2	58.4	63.9	71.7
28.9	26.9	24.2	23.4	23.6	24.5	48.9	48.4	47.9	53.5	55	62.5	71.1
32.5	29.8	28.8	26.9	25.8	24.6	48.8	50.2	51.3	51.4	53.4	62.7	71
33.8	32.8	29.7	26.1	25.3	24.6	46.2	50.6	51.4	53.8	52.6	63.1	71.4
40	40.6	39.6	35.5	30.9	28	45.7	48.9	50.7	52.1	52.1	62.2	71.5
44.3	44.1	43	38	33	29.3	46.9	49.2	49.9	49.7	54.6	61.2	69.9
40.4	38.8	35.8	30.5	27.3	25.1	47.8	51	49.6	49.7	54.3	58.8	66
42	43.8	39.3	36.9	28.5	25.8	47.8	49.9	48.9	50.4	54.7	56.3	63.1
35.1	33.6	30.7	26.8	24.4	24.8	45.5	51.1	51.3	51.8	54.7	57.9	62.5
40.1	36.6	36.2	34.1	31	26.5	44.5	51	52.8	51	54.6	57.6	60.7
38.2	38.4	37.1	34.7	28.7	26.7	46.8	53	51	53	53.9	56	59.3
39.5	42.4	37.9	32.4	27.9	25	52.5	52.4	48.2	53.5	52.8	55	58.5
37.9	39.7	38.1	30.5	28.2	25.2	51.5	53.9	51.2	53	51.5	54.9	62.1
35.2	34.7	30.7	27.4	24.8	24.5	50.6	54.5	50.4	50.9	53.3	56.6	66.8
40.3	39.6	36.7	31.2	28.5	24.9	48.4	51.9	49	48.9	53	55.3	67.4
33.7	33.4	29.5	26.1	24.2	24.5	48	50.2	47.5	52.1	52.1	57.2	65.2
40.1	38.6	34.4	30.1	26	25	45.3	51.9	46.3	52.2	57	58.4	61.8
32.2	30.8	28	25.3	23.9	24.5	45.1	51.8	49.2	52.9	57.2	58.3	59.9
34	33.8	29.1	25.8	24.3	24.6	48.1	51.5	49.4	52.8	56.3	57.8	60.5
33.5	32.3	29.6	25.4	24.1	24.6	50.9	50.3	48.1	51.3	57.3	57.3	59.8
36.3	33.7	30.7	26.6	24.9	24.6	49.9	49.7	48.7	50.8	55.8	56.1	60.9
40.3	37.3	33.9	29.4	26.9	25.3	48.4	50.4	49.2	49.7	54.4	59.2	60

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
60.6	62.3	56.3	60.8	61.5	58.2	53.8	50.4	48.5	45.5	43.7	43.8	42.9
59.9	63.4	56.7	60.4	62.5	58.4	53.4	50.6	48.6	45.4	43.9	44.8	42.9
59.8	62.4	55.9	59.5	62.3	56.8	52.4	49.6	47.8	44.4	43	45.1	42.7
59.4	61.3	55.6	60.5	61.7	56.3	52.6	48.6	47.5	47.1	43.3	45	42.9
59.7	60.2	58	60.8	63.3	56.1	52	49.7	46.7	46.9	42.9	43.7	43.2
59.7	61.9	58.2	60	63.3	60.9	52.6	50.4	47.8	47.5	44	43.8	44.8
62.9	61.3	61	62.1	64.9	63.3	55.3	56.9	49.8	48.3	46.8	46.6	46.3
61.7	62.3	62.1	66.5	61.9	63.8	64.9	57.1	53.1	50.8	47.5	47.8	47.5
64.2	62	60.3	68.9	70.3	60.8	64.3	56.8	53.1	52.7	49.7	48.4	48.3
65.3	60.1	59.9	67.3	70.6	58.3	60.7	58.8	54.1	57.7	58.3	56.9	56.8
63.5	59.9	58.3	64.2	73.1	66.9	58.2	63.9	56.6	59.4	60.1	57	58.7
62.9	61.7	58.1	61	73.6	66	65.3	64	56.1	58.1	59.1	56.7	58
63.4	62.9	58.1	60	73.2	63.7	68.1	61.5	54	57.2	56.2	54.4	55.4
62.7	62.2	57.3	60	69.6	60.5	66.3	59.5	52.2	55	54.5	52.2	52.7
62.6	59.7	57.6	59.7	65.9	58.8	63.5	58.4	51.3	54.4	52.6	51.9	51.3
60.1	59.3	57.5	57.7	62.2	57.2	63.1	56.5	50.7	54.3	52	51.4	50.7
59	58.5	57.1	58.3	60.1	55.3	60.4	57.5	50.4	54	52	50.8	50.3
60.2	57.4	56	57.8	59	55.5	57.8	56.4	49.5	51.6	50.9	50.1	49.7
59.7	57.5	55.6	56.4	57.8	56.1	54.6	55.1	48.8	51	48.9	49.1	49.3
58	56.5	56.3	57.2	56.4	58.9	52.7	52.5	47.6	48.9	46.8	47	47.1
58.6	56.5	56.2	57.4	55.2	58.7	53.4	50.8	47.4	47.4	46	45.2	45.6
59.9	56.3	56.4	56.5	55.5	57.5	54.9	50.7	48.3	48.7	46.8	44.6	45.4
59.6	59.1	55.2	56.1	54.3	54.9	54.9	50.9	49.4	49.6	46.3	44.8	46.5
62.4	60.2	55.4	56.4	54.5	54.6	54.1	52.3	49.3	49.5	45.7	44.9	47.4
63.8	60.7	55.6	56.5	54.4	53.6	58	51.9	49.1	51	49.7	46.3	49.4
64.2	60	57.5	58.5	57.5	55.3	61	52.8	53.8	52.5	52.5	48.6	50.8
64.7	60	57.5	61.1	60	56.6	62	53.9	54	52.4	52.6	48.9	50.8
62.9	58.3	57.2	59.8	60.2	56.2	61.9	53.4	53.8	52.4	51.5	48.3	50.2
60.4	58.8	56.3	60.4	59.9	54.8	60.8	52.8	53.1	52.1	50.6	47.5	49.4
60.4	58.3	56.1	64.4	59	54.4	59.4	52.8	52.1	50	48.5	47.2	48.8
61.4	58.7	58.5	64.3	57.6	53.3	57.4	52.5	52	49.4	46.8	46.8	48
59	57.2	56.8	63.3	57.3	52.6	57.5	54.9	50.8	48.7	48.1	46.1	47.1
57.4	56.2	56.2	61.4	56.5	52.8	56.1	55.9	50.9	51.9	48.9	47	47.8
57.5	56.9	56.7	62.1	55.8	53.8	58.7	54.2	55	56.9	53.6	49.9	52.5
57.6	58.1	56.1	64	59.2	57.7	62.4	56.5	55.2	58.2	56	51.9	53.8
60.7	58.1	55.9	65.6	60.4	58.3	63.1	60.8	54.1	58.2	55.7	51.9	53.8
60.2	63.1	63.4	65.2	60.4	58.8	62.5	60.2	52.2	56.1	53.5	49.7	52
60	62.9	66.9	64.1	57.8	57.9	59.3	57.1	50.1	52.9	50.5	47.1	49.2
58.3	60.4	66	60.5	56.1	56.9	55.8	54	49.1	49.9	47.6	44.9	46.7
56.6	58.5	63.4	58	54.3	55.7	53.4	51	47.4	48	45	43.2	44.7
58.4	59.1	63.1	57	54.6	54.5	52	48.6	46.7	45.9	43.2	42	43
58.4	58.1	60.7	55	53.4	53	50.6	47.4	45.6	44.2	41.1	40.8	42.2
58.6	58.6	57.7	55.1	52.3	52	49.3	49	45.3	42.8	40.7	40.5	41.3
60.2	58.2	57.5	55.2	52.3	53	49.4	48.6	44.9	42.4	40.5	40	41
58.9	56.3	57.2	55.3	52.9	53.3	49.8	49.2	44.3	42.8	39.8	39.4	41.7
57.6	55.9	56.3	55.4	52.3	51.5	49.5	49.1	45.1	45.2	39.6	41.4	47.1
58.1	55.4	55.9	54.6	53	50.9	49.8	49.4	44.8	44.4	40.7	41.6	45.7
57	55.3	56.5	54.6	54.4	51.7	49.5	48.5	45.1	43.2	41.8	42.5	43.4
56.5	56.8	56.7	55	54	51.3	49.1	48.8	45.6	43	41.7	43.4	43.2
55.3	57.5	57	55.8	53.5	52.3	49	48.8	47.6	43.6	41.8	44	43.2
56.6	57.7	57.5	55.8	54.5	54.1	50.2	48.8	47.3	43.9	42.1	43.8	43.5
54.8	57.5	56.9	55.6	54.3	54.3	49.9	49.1	46.9	43.7	42.4	42.5	43.4
55.2	56.6	56.6	56.6	53.3	52.8	49.7	48.9	46.9	43.8	42	41.8	42.7
55.2	56.1	59.6	55.7	53.9	53.7	51	48.1	48.6	46.3	44.4	46.9	46.6
55.3	55.9	60.3	57.1	53.8	53.8	55.2	49.1	49	46.5	44.8	47.3	46.7
54.9	56.1	58.4	62.1	62.9	52.8	55.2	58.3	49	49.4	45.5	45.2	45.1
57.7	55.3	56.7	61.1	63.4	51.9	57.9	58.3	51.5	49.3	45.9	44.8	45.2
59.3	55.2	55.3	59.9	61.4	51.3	60	55.4	51.1	48	46.6	44.2	44.6
61.6	55.7	59.2	58.9	58	53.5	57.3	52.4	49.6	48.4	47.2	45.7	45.7
60.8	56.3	58.9	58.5	58.6	55.3	54.6	52.2	50.7	49.2	48.1	47.7	46.7
59.9	56.8	58.3	58.8	58.4	55.1	53	51.7	49.6	48.7	48.9	46.7	47
61.1	58.5	59.2	61.5	58.8	56	52.7	51.3	48.6	48.4	49	46.3	47.7
61.2	59.9	64.3	60.6	58	56.3	55.3	51.8	49	50.8	49.9	47.9	49.2
62	65.7	64.6	59.7	59.6	58.1	55.6	53	51.1	51.1	51.8	49.6	50
63.6	71.4	63.5	59.3	64.1	59.2	53.9	53.7	51.2	51.4	51.9	49.6	50.2
63.7	72.3	62.2	62.3	65.3	60	52.7	53.2	50.9	50.6	50.6	48.2	49.1
63.1	72.8	61.2	61.8	65.4	58.7	53.2	51.7	50.2	49.2	48.7	46.4	48
61.9	74.3	69.5	60.6	65.8	61.7	54.8	53	49.9	49.7	49.3	47.9	48.7
62.9	74.8	71.7	69.7	66.3	62.6	55.3	55	50.3	50.1	49.7	47.8	48.5
64.4	71.6	69.5	72.1	64.2	61.8	55.6	55	50.3	49.9	49.1	47.6	48.3
66	68	66.6	73.1	63.2	60.1	55.9	55.2	51.9	48.8	48.3	47.9	48.5
65.8	66.2	64.5	73.4	68.5	58.9	55.9	57.1	53.7	53.1	50.1	49.1	49.3
66.6	66.1	64.6	70.1	67.7	60.7	55.1	56.7	53.7	53.2	50.2	49	49.2
66.5	66	63.2	67.2	65	60.4	53.6	54.7	52.2	50.8	48.7	47.5	48.7
66.1	65.6	63.2	64.5	61.5	59.5	52.6	53.2	50.3	49.6	47.4	46.5	48.2
65.9	64.4	62.4	61.8	60.6	57.1	53.8	54.5	51	47.8	47.4	49.1	49.5
66	64.4	60.8	62.6	59.4	55.7	55.1	59.7	55.3	51.6	52.3	52.6	53.6
65.6	62.7	60.4	62.5	59.3	56.6	56.4	58.8	55.5	51.3	51.9	52.7	53.5
63.1	61.6	58.5	60.2	58.2	58.4	57.4	56.8	57.8	55.3	53.5	54.1	52.8
62.2	60.4	59.1	59	59.1	59.2	57.5	56.7	57.6	55.6	54	53.1	51.2
63.2	59.5	61.4	57.4	58.8	58.4	57.4	58.8	62.3	61.1	56.9	54.9	51.5
65.4	57.3	61.2	60.3	59.8	61.6	58.7	59	62.4	60.8	56.9	54.7	53.6
65.8	60.7	60.1	59.7	58.6	60.5	59.8	58.6	60.5	59.7	56.4	53.3	52.7
65.7	59.8	58.1	58.8	57.3	58.5	60.3	57.6	58.6	57.1	55.3	52.1	51.5
64.4	58.5	57.7	57.1	56.4	57.2	59.2	56.3	56.5	54	53.1	50.4	49.3
62.7	58.2	56.8	58	62.3	60.3	57.5	60.2	58	55.6	55	49.7	48.5
62.3	58	58.4	61.3	61.6	59.4	57.9	59.3	56.2	54.4	53.3	49.1	48.4
61.2	58.8	59.8	61.3	59.6	59.4	58.5	58.6	55	53.7	51.4	48.6	47.8
59.4	58.6	62.8	59.8	59.6	60.4	58.1	58.8	54.9	53.5	50.6	48.2	47.5
59.5	58.8	64.8	58.8	59.6	60.2	57	58.5	54.6	54.1	50.6	47.7	46.6
57.9	60.4	72.4	62.5	59	58.8	55.9	58	53.5	54.3	50.2	47.5	46
60.8	63	74	62.6	58.7	58.7	58.1	59.2	55.8	55.9	50.4	48.1	48.8
61.7	73.7	74.6	61.4	59.6	60.1	58.2	59.2	55.8	55.3	50.3	49.4	50.4

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
42.6	43.3	43.5	42.3	40.4	38	36.1	35	32.2	30.2	27.2	24.8
42.2	42.9	43	42	40.1	38.4	36.1	35.5	31.9	29.9	26.8	24.6
41.2	41.6	41.5	40.7	39.2	38.7	35.9	34.4	31.5	29.3	25.9	24
41.2	40.5	40	40.4	39	37.9	38.1	38.8	36.7	35.2	31.8	30.7
41.6	41.5	41.1	41.1	41.2	38.9	39.7	41.2	39.7	37.2	33.5	32.3
45.3	44.3	43.6	42.6	41.8	39.9	39	38.7	37	36.6	31.8	31.5
48.5	47.9	46.6	44.9	43.6	42.7	41.4	41	38.2	37.7	32.1	31.2
50.3	51.1	49.3	47.3	45.5	43.9	43	42.1	39.1	37.5	32.7	30.3
50.1	51	50	48.5	46.6	45.3	44	42.3	40.5	38	34.4	35.4
57.2	57.1	56.4	53.6	51.7	51.1	50	49.2	48	46.3	42.5	42.1
60	58.9	59	56.7	54	52.8	51.4	50.5	48.8	47.5	43.6	42.8
59	58.5	58.8	56.7	54	52.6	51.1	49.8	48.1	46.8	43.1	42.1
55.9	55.9	56.6	54.9	52	50.3	48.8	47.1	45.2	43.7	40	38.6
53.3	53.7	54	52.5	49.9	48.4	47.6	45.3	42.7	41.2	37.7	35.8
51.7	52.4	53.2	50.8	48.8	47.5	46.7	44.4	41.5	39.7	36.6	34.2
50.6	51.5	51.6	50.2	48.5	47.3	46.4	44.4	41.2	39.5	36.5	33.7
49.3	50.5	50.5	49.9	48.9	47.9	46.2	44	41.6	39.8	36.7	34
50.4	50.5	49.9	49.7	48.5	47.7	45.9	43.5	42.2	40.7	36.9	34.4
49.8	49.9	49.2	48.6	47.5	46.5	45	43.3	41.8	40.3	36.3	33.9
47	47.1	47.2	46.3	45.3	43.9	42.2	40.3	38.7	37	33	30.4
44.5	45.4	45.5	45.6	43.9	41.9	39.7	37.9	36	33.9	30.2	28.4
44.6	45.4	46.8	45.7	44.7	42.1	39.5	37.7	35.8	32.6	29.6	27.5
48.2	45.8	46.8	45.6	45	42	39.5	38.3	36.3	33.3	30.8	28.6
50.1	46.3	46.7	46.7	45.9	42.1	40.5	39.6	38.2	35.5	32.8	30.6
48.8	48.5	49	49.6	48.2	44.3	42.2	42.5	41.1	38	35.8	33.6
49.2	51.1	51.6	50.2	49	45.7	44.8	44.5	43	40.4	37.7	35.2
49.5	51.1	51.8	50.3	49.2	46.9	45.9	45.2	43.3	40.8	38	35.5
49.4	50.5	51.5	50.2	48.8	46.9	45.9	45	42.6	40.1	37.4	35.1
48.9	49.2	49.8	48.9	47.7	46.3	45	43.4	40.8	38.2	35.2	33.3
47.8	48.2	48.5	47.8	46.4	45.5	44.5	43.1	39.9	37.4	34.6	32.8
46.6	46.9	47.7	46.5	45.1	44.4	43.7	42.1	38.6	36	33.1	31.3
46.2	46.4	46.4	45.7	44	43.6	43.1	40.6	38.6	36.9	33.1	31.9
47.6	47.8	47.2	46.6	45	44.9	43.9	42	40.3	38	35.2	34.4
50.3	52.6	53.5	51.2	50.3	49.1	48.2	47.1	44	42.8	39.9	38.6
51.7	53.6	55.4	53.1	51	49.7	48.8	47.3	45.1	43.5	40	38.7
51.7	53.3	55.3	53	51.1	49.6	48.4	46.8	44.8	43.3	39.6	37.8
50.2	51.1	53.2	51.6	49.3	47.5	45.8	44.1	42.1	40.4	36.6	34.7
47.7	48.7	50.4	49.2	47	44.8	42.7	41	38.6	36.8	33	31.1
45	46.4	47.9	46.7	44.6	42	39.8	38	35.3	33.4	29.7	27.8
43	44.3	45.5	44.6	42	39.5	37.4	35.5	32.6	30.4	27	25.2
41.4	42.8	43.3	42.5	39.9	37.6	35.6	33.7	30.6	28.2	25.5	23.8
40.2	41.1	41	40.6	38.3	36.2	34.1	32.7	29.1	26.5	24.3	22.9
39.8	40	39.7	39	37.5	35.7	33.4	32.5	28.4	25.7	23.6	22.2
39.4	39.7	39.1	37.9	37.4	35.1	33	32.1	28.2	25.4	23.2	22.1
39.4	39.8	39.4	38.1	37.2	34.6	32.7	31.9	27.7	25.7	23.8	22.8
43	55.9	40.2	38.9	39.8	36.4	34.6	33.5	29.5	27.8	25.4	23.9
42.2	53.2	40	38.6	39.2	36	34.3	33	28.9	28.9	24.8	23.3
42.5	49.4	40.9	39.3	39.5	37.8	36.3	34.2	31.7	28.8	25.6	24.2
44.8	46.6	42.4	39.8	40.1	37.9	36.8	33.9	31.6	28.1	25.3	23.7
44.3	45.5	41.8	39.5	39.9	37	36.3	33.7	31.1	27.3	24.6	23.1
42.7	43.7	41.4	39.1	39.6	36.9	35.7	33.3	31	27.7	25.4	23.4
41.4	41.8	40.1	38.7	39	36.2	35.3	33.2	30.8	27.5	25.3	23.6
41.6	42.2	39.7	38.9	38.8	37.2	35.8	34.4	32.7	28.6	27.1	26.2
46.5	42.9	41.2	40.9	41	39.7	38.5	36.8	34.6	31.4	30	27.8
46.2	42.9	42.1	40.7	41	39.7	38.5	36.8	34.5	31.4	30	27.8
45.8	43.3	43.6	40.5	40.9	39	37.5	36.3	35.2	31.5	28.6	26.7
44.9	42.8	42.4	40.7	41.8	38.3	36.6	36	34.2	30.8	28.1	25.9
44.1	43.1	43.7	41.8	42.6	39	37.4	36.8	34.2	31.6	28.9	26.4
45.2	46.3	46.1	43.4	43	39.8	38.7	37.7	34.8	32.3	29.9	27.3
47.1	47.6	48.4	45.4	43.8	40.9	39.5	38.1	35.3	32.8	29.8	27.6
47	48.5	48.4	45.7	45.3	41.8	39.5	37.9	35.3	32.6	29.8	27.4
47.6	49.4	49.4	46.9	46.2	42.9	40.1	38.2	35.5	32.5	30.5	27.5
48.8	49.6	50.2	47.4	46.8	44.1	41.4	40	37.5	34.6	32.4	29.4
50.3	51.7	52.6	49.6	48	45.9	43.2	41.7	39.8	38.3	36.6	33.9
50.3	51.7	52.5	49.6	48	46	44.2	43	40.6	39.3	37.9	36.2
49.2	50	50.7	48.4	47.5	45.6	44.1	43	40.4	39.4	37.9	36.1
47.2	47.7	48.5	47	46.1	44.2	43.3	42.1	39.3	38.7	36.6	34.9
47.9	47	47.9	47.8	46.1	43.7	42.8	41.2	38.5	37.3	35	33
47.5	46.4	47	46.6	45.2	43.2	42	40.4	37.7	36.2	33.5	31.5
46.8	45.9	45.7	45.4	44.2	42.1	41.5	40.8	38.7	35.1	32.5	30.7
46.4	45.7	45.3	44.9	44.4	42.2	40.7	39.2	37.4	34.3	31.5	29.6
47.2	46.3	46.6	45	44.9	43.4	43.7	43.4	41.4	36.6	34.4	33.4
47.1	46.2	46.4	44.9	44.8	43.5	43.6	43.2	41.2	36.4	34.2	33.1
46.3	45.8	45.2	43.8	44.2	43	41.5	40.4	38.4	34.2	32.9	30.8
46.7	46.3	45.4	44.5	44.9	43	41	40.4	38	34.7	33.4	32.2
48.1	48.6	47.6	46.8	47.5	46	45.3	43.8	42.5	38.9	39.3	40.1
51.6	51.2	50.6	48.8	49.5	49.2	48.7	47.8	45.6	42.5	43.9	43.9
53.4	51.4	50.6	49.3	49.4	49.3	48.1	46.8	44.8	41.7	42.2	42.3
53.3	52.8	52.9	51.5	52.8	51.8	54.6	54.5	52	48.9	43.5	44.5
51.5	51.3	51.4	49.8	50.6	49.5	52.1	51.8	49.3	46.3	41.1	42
52.2	52.8	51.6	52.7	50.3	47.7	48.9	47.9	46.6	43.9	40.8	38.7
51.9	52.3	51	51.9	49.6	47	48.1	46.4	45.8	43.2	40.2	39
50.5	50	49.8	49.5	48.5	50.6	49.9	47.4	45.4	41.9	40.1	42.4
49.9	49.8	49.8	49.7	48.5	50.5	49.9	47.4	45.3	41.9	40.2	42.4
48.3	48.7	47.6	47.7	46.2	47.3	46.9	44.6	42.5	39.9	38.6	40.7
48.7	51.2	47.9	48.2	49.1	47	46.6	46	44.8	41.1	40.5	40.2
48.5	50	46.8	47.2	47.7	46.2	45	44.4	42.8	39.4	38.7	38.6
48.4	49.1	46.1	46.2	47.1	46.4	43.9	42.9	42.5	39.8	40.3	39
47.8	48.3	45.8	45.7	46.4	45.4	42.9	42	41.2	38.7	39	37.8
46.1	46.9	45.3	45.1	47.2	43.5	41.4	40.2	39	36.5	36	35.1
45.6	45.9	46.5	44.9	46.5	43.5	42.4	40.7	38.5	35.9	35	34.5
46.2	48.8	47.8	46.6	46.5	45.4	45	43.1	40.6	37.9	35.9	33.8
49.5	50.8	51.7	48.2	49.7	48.1	49.1	46.6	43.8	41.7	39.3	36.5

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.3	23.1	24.3	24.4	43.6	49.6	49.4	51.1	53	53	61.5	59.9	62.2
23.2	23	24.1	24.5	46.5	48.9	48.1	51.4	51.4	52.8	60.8	58.4	62.2
23.3	23.4	25.4	24.5	49.8	47.4	46.5	52.9	50	53.2	61.2	58.6	61.3
28.5	26.4	25	24.7	48.4	44.7	47.8	50.9	52.1	54.3	62.7	58.4	60.2
29.9	26.7	24.9	24.6	47.6	44.7	46.7	50.2	51.4	52.2	63.8	58.2	59.7
29.4	26.4	24.8	24.7	46.8	49.4	45.3	51.2	50.1	51.9	62.7	57.2	59.6
28.7	26.1	24.7	24.7	46.7	49.4	45.7	49.5	51.2	53.6	62.5	60	60.1
27.4	25.1	24.2	24.6	45.7	47.1	47	49	53.4	55.9	64.1	60.1	60.4
28.2	25.7	24.7	24.7	43.8	45.9	45.9	49	50.9	55.8	62.2	60.7	59.9
36.1	33.4	30	26.2	44.6	44.5	45.5	47.8	51.7	55.6	62	63.6	59.6
37.5	35.2	31.7	27.1	44.4	48.3	49.5	47.6	52.3	56.8	60.9	62	58.7
37.1	34.6	31	26.6	44.7	48	51.9	50.6	52.9	59	61.1	60.9	59.9
34	31.4	28.2	25.5	45.9	46.8	49	50	52.2	58.8	63.2	60.9	61.5
31.7	29.2	26.5	25	42.3	45.6	48.8	50.9	55.7	57.1	62.5	60.8	59.4
30.5	28.7	26.5	24.8	40.9	47.1	49.6	54	56.5	56	61.3	60.1	57.9
30.1	28.5	26.4	24.6	42	48.2	47.6	51.6	54.2	54.2	60.1	57.9	58.2
30.4	28.9	27.1	24.7	46	47	45.5	51.7	53.4	54.1	58.5	58	56.4
31	28.4	26	24.8	42.8	46.2	45.1	52.5	53.1	54.9	58.3	59.1	56.4
30.6	27.9	25.3	24.8	42.9	46.2	43.7	51.3	53.3	54.5	57.4	57.7	56.6
27.5	25.5	24.3	24.5	48.1	44.5	41.4	48.4	51.7	56.2	56.5	57.2	55.6
25.3	24	23.9	24.5	44.8	45.5	40.9	48.1	52.2	56.4	56.3	57	55.3
25	23.5	23.7	24.5	41.6	45.1	43.2	49.7	51	54.8	58	57.9	54.9
26.1	24.3	23.8	24.6	39.9	45.3	45	49.7	50.2	55.1	58.6	57.9	54.8
27.8	25.3	24.2	25.1	40	44.4	43	49.1	50	55.4	59.6	58.4	58.8
30.6	27.5	25.3	25.3	43.1	44.6	43.2	48.7	52.9	54.4	60.7	62.5	59.9
32.2	29.3	26.4	25.1	40.7	45.4	47.8	48.7	53.3	54.8	61.5	61.9	57.9
32.7	29.5	26.6	25.1	39.9	43.9	46.1	48.6	53.6	54.8	59.3	63	57.3
32.2	28.9	26.1	25	47.4	43	48	46.9	52.9	56.2	59.6	60.4	57.1
31	27.3	25	24.8	50.6	45.7	50.4	47.4	51.5	56.3	61.3	58.3	57.7
30.5	26.7	25.2	25.9	48.9	46.6	49.4	47.5	52.1	56.1	62.5	57.8	56.8
29	25.7	25.5	26.7	46	47.1	48.4	49.4	52.7	55	59.6	59.1	57.2
29.4	26.3	26.8	28.9	43.9	45.5	50.1	48.6	50	55.8	59.2	57.4	55.3
31.3	28.2	28.9	32.3	43.7	49.5	50.5	51.9	49.2	53.7	59.1	56	55
35.3	31.9	29.2	32.9	43.8	48.1	50.8	51.7	49.7	53.3	58.9	56.2	55.9
35.4	32.2	29.2	30.4	43.8	50	49.2	51.3	53.3	54.3	58.4	55	56.2
35	31.7	28.7	28.1	44.9	49.2	48.5	51	53.3	55.5	60.3	57.6	56.4
31.8	28.6	26.4	26.4	46.7	47.1	48.5	50.9	53.6	58.8	62.6	59	57
28.5	26	24.9	25.3	46.4	47	51.7	53.5	59.8	61.3	62.3	58.4	60.4
25.7	24.3	24.1	24.8	45.1	50.3	51.2	53.1	59.8	58.7	59.8	56.6	58.1
23.8	23.4	23.8	24.6	43.8	48.6	49.8	52.9	57.3	56.9	58.3	55.4	57.6
22.9	22.9	23.7	24.5	43.7	49.7	47.4	49.7	54.5	55.5	57.9	55.8	58
22.3	22.7	23.5	24.5	47.4	47.5	47.8	48.3	52.1	53.6	57.1	56.6	57.2
22.2	22.6	23.5	24.5	50.7	44.3	48.9	48.6	51.2	53.6	57.4	55.7	58
22.1	22.6	23.5	24.5	47.6	43	48.7	47.4	51.1	53.1	57.2	58.7	56.2
22.2	22.6	23.6	24.5	47.2	44.8	48.6	45.7	50.6	55	57.4	56.9	55.5
22.7	23	23.6	24.5	48.6	45.3	49.8	45.5	51.2	54.4	57.3	56.9	54.1
22.5	22.9	23.6	24.5	46.1	48.3	48.2	47.7	50.1	53.2	56.9	56.8	54
22.6	22.8	23.6	24.5	43.1	48.5	47.9	46.2	50.1	52.8	55.9	55.6	54.4
22.5	22.8	23.5	24.5	41.4	48.3	51.8	49.6	51.9	53.9	56	55.3	55.3
22.4	22.7	23.5	24.5	41.2	52.9	50.6	50	51	54.6	55.8	54.1	55.3
22.5	22.7	23.5	24.4	48.1	53.9	47.8	49.6	50.4	52.7	55.9	54.8	56.6
22.7	22.8	23.5	24.5	53.9	50.8	46.9	47.8	51.5	54	56.9	53.8	56.2
23.7	23	23.6	24.5	51.4	49.9	46.2	48.2	50.9	53.5	60.4	53.8	55.2
25.4	23.4	23.7	24.5	51.1	47.3	46.7	47.6	50.9	53.6	61.5	53.6	54.7
25.4	23.4	23.7	24.5	48.4	46.9	47.9	47.4	52.8	53.6	59	53.9	54.6
24.6	23.3	23.7	24.5	46.2	46.4	47.8	48.7	51.2	53.4	56.8	53.6	54.3
24.1	23.3	23.7	24.5	45.6	45	46	48.1	50.7	53.7	55.8	54.9	54.1
24.5	23.4	23.8	24.6	45.4	47.4	47.7	47.9	51.9	53.5	54.7	56.7	54.6
25.5	24.6	24.3	24.6	45.1	47.2	46.1	48.9	51.7	53.8	55.3	59.3	54.3
25.3	24.1	24.1	24.5	47	45.8	45.5	47.8	50.2	53.3	59	58.7	54.3
24.9	23.7	23.9	24.5	47.5	50.1	47	48.5	50.5	54.4	67.1	58.6	55.7
24.7	23.5	23.7	24.4	48.6	48.6	47.3	47.8	52.9	60.6	68.7	59	56.3
26.2	24.3	24	24.5	48.6	49.3	48.7	53.9	53.7	61.4	69.4	60.3	58.1
30.6	27.1	25.2	24.7	48.9	49.2	49	52.1	54.7	62.6	70.7	59.9	59.6
32.3	28.5	26.1	25	48.2	48.1	47.7	51.3	53.9	63.3	71.3	62	65.9
32.3	28.5	26.2	25.1	46.9	48.7	46.7	52.2	55.9	65.6	70.6	62.6	71.3
31.1	27.7	26	25	47	47.9	47.7	50.8	60.7	66.1	71.5	61.3	72.2
29.5	26.6	25.4	24.9	47	46.7	48.7	51.8	63.5	65.3	70.5	61	72.7
28.4	25.9	25.1	24.8	46.9	47.9	53.1	58.3	62.8	62.7	70.7	60.8	71.6
27.6	25.1	24.6	24.8	47.8	48.8	52.5	55.6	60.2	61.7	70.9	62.8	68
26.9	24.7	24.1	24.7	49.8	48.3	51.2	55	58.4	63.7	71.6	64.2	66.2
29.5	26	24.4	24.6	46.7	47.9	47.3	53.5	55	61.7	70.8	65.1	64.4
29.2	25.8	24.3	24.6	46.4	47	46.1	51.4	52.4	61.6	70.6	65.6	63.9
28.9	26.7	25.5	24.6	46.3	47.9	47.8	49.7	52.4	61.8	70.7	65.3	64.7
29.3	26.2	25.4	24.6	45.3	48.9	50.5	49.9	50.5	61.9	70.8	64.5	63
39.3	35.1	30.5	27.8	44.8	47.2	49.8	49.7	50	61.2	70	64.8	62.9
43.2	38.4	33.3	29.8	45.4	47.2	48.6	48.2	52.1	58.8	66	65.4	62.8
41	36.2	31.4	28.1	44.7	49.3	48.8	48.4	52.6	56.4	63.1	63.1	60.7
40.8	37.7	30.2	26.8	45.1	48.7	46.5	47.9	53.7	55.2	60.3	61.8	60.4
38.4	35.2	28.5	25.9	44.6	48.5	46.4	50.2	53.4	56.1	60.7	61.5	59.1
37.1	34.7	31	26.6	42.2	48.6	51.1	49.1	53.2	55.7	59	61.7	56.8
37.7	35.5	30.4	27.1	44.1	51	48.3	51.1	52.5	54.8	57.1	63.2	56.4
38.1	34.8	29.7	26.7	45.5	50	45.6	52.8	51.5	53.6	56.1	65.1	56.9
39.6	33.8	29.7	25.8	49.7	49.5	45.6	50.9	50.2	52.9	58.7	64.4	58.4
37.8	31.9	28.3	25.4	48.5	51.9	49	48.8	50	55	60.8	62.3	57.3
37.5	31.9	28.9	25.1	46.6	50.3	47.6	48.2	52	54	65.2	61.6	57.3
35.5	30.2	27.3	24.9	45.3	49.1	44.4	47.9	50.4	54	61.8	61.1	56.9
34.9	30.3	26.4	24.9	43.1	48.5	44.1	49.4	50.6	56.8	59.8	59.2	57.7
33.8	29.4	25.8	24.9	42.7	50.6	46	50.2	56	57.4	57.8	58.2	57.9
31.1	27.2	24.7	24.7	44.5	49.6	47.4	50.6	54.4	57	58.3	57.8	57.6
30.4	26.5	24.5	24.7	47.2	49.3	46.9	49.8	54.5	55.5	58.8	57.2	58.5
30.8	26.5	24.8	24.7	47.8	47.3	47.1	49	54.1	54.6	59	57.2	58.9
33.2	28.7	26.4	25.1	46	47.6	47.6	47.7	52.9	55.8	58.7	59.9	63.5

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
55.8	60.5	61.2	57.9	53.4	50.1	48.2	45.3	43.4	43.5	42.8	42.2	42.9
55.5	58.3	61	56.8	51.9	49.3	47.7	44.3	43	43.5	42.1	41.1	41.6
55.1	58.4	60.3	55.5	51.3	48	46.9	43.6	42.5	43.9	42.2	40.2	40.1
54.5	58.9	59.7	55.2	51.3	47.6	46.5	44.2	42.4	43.7	42	40.3	39.9
55.6	57.8	61.7	55.4	50.6	48.6	45.4	45	42.6	42.9	42.7	40.9	40.4
57.2	56.1	62.2	55.4	50.7	48.5	46	45.1	42.6	42.7	43	41.6	41.5
57.7	58.8	61.9	61.2	52.8	50.4	47.7	47.2	44	43.8	44.8	45.3	44.3
60.4	59.6	60.4	60.9	54.8	55.1	49.6	48.3	46.5	46.5	46.1	48.5	47.9
58.9	66.6	60.1	58.3	60.7	55.2	51.6	50.6	47.5	47.3	47.4	49.1	49.7
58.2	64.2	69.2	56.6	58.3	55.4	51.1	52.7	49.5	48.4	48.3	49.8	49.6
57.1	61	69.1	57.1	56.2	58.5	54.3	57.7	58.3	56.5	56.8	57.3	57.1
56.6	58.5	72	63.8	55.4	61.5	54	57	56.2	54.5	55.4	55.9	55.9
57.3	57.9	69.6	60.5	65.5	59.3	52	55	54.5	52.3	52.7	53.3	53.7
55.2	59.1	66	58.9	62.5	58.2	51.2	52.7	52.5	50.8	51.1	51.7	52.1
55	57	62.2	57.1	62	56.4	50	52.5	51.2	50.8	50.6	50.7	51.5
56.5	56.6	60.2	55.3	60.4	55.6	50	53.8	50.9	50.6	50.1	49.2	50.2
55.4	57.4	58.3	54.8	57.8	56.4	49.5	51.6	50.9	50	49.6	48.9	50.2
54.4	56.5	57.5	54.6	54.7	54.7	48.5	51	49	49.2	49.3	49.1	49.9
54.3	55.7	56.3	55	52.6	52.6	47.5	48.9	46.8	47.1	47.1	47	47.2
54.4	55.5	55	55	51	50.8	47.1	46.8	45.2	45.2	45.4	44.5	45.1
55.4	56.5	53.2	57.4	50.1	49.8	46.7	46.8	45	44.1	45	43.5	44.8
55.2	55.2	53	54.9	53.4	49.8	47.3	47.3	46	44	45	43.6	44.6
54.4	55.2	53.6	54	54	49.9	48.2	48.6	45.4	43.9	45.1	44.5	45.3
54.2	54.2	53.6	53.7	52.5	50.9	48.4	48.3	45.2	44.3	46.4	48.2	45.7
54.8	54.3	52.6	52.4	52.2	50.7	48	48.4	45.7	44.2	46.5	47.5	46
54.8	55.8	52.9	52.6	58	50.6	49.2	50.8	49.7	46.2	49.4	48.4	48.5
56.2	58.8	57	55.4	60.6	52.8	53.5	51.9	51.4	48.2	50.2	49	50.6
56	59.3	58.7	54.8	60.6	52.7	53.1	51.7	50.4	46.9	49.4	48.8	49.1
55.4	59	59	53.8	59.4	51.3	51.7	50.1	48.6	46.7	48.4	47.9	48
55.3	60.4	57.1	52.9	57.4	50.9	51.1	49.2	46.8	46.7	48	46.6	46.9
55.8	63.4	56.3	52.1	56.6	50.6	50.8	48	45.8	45.1	46.7	45.2	45.4
54.8	61.4	56.2	51.5	55.5	51	49.3	47.7	46	45	46.4	45.1	45.4
55.1	58.3	54.3	52.2	55.1	54.1	49.2	48.4	48	45.8	46.8	46.2	46.3
55.4	58.1	53.8	52	55.5	52.6	50.6	51.9	49	46.8	47.7	47.6	48
54.5	61.9	55.7	53.8	58.7	52.5	54.1	57	53.7	49.8	52.5	50.2	52.6
54.5	63.6	58.3	56.7	61.8	56.1	52.2	56.1	53.6	49.7	52	50.2	51.1
54.7	63.2	57.8	57.8	59.3	57.2	50.2	52.9	50.5	47.1	49.2	47.7	48.7
63.4	60.6	55.3	56.6	55.8	54.1	49.2	50	47.5	44.9	46.7	45	46.4
62.4	58	54.3	55.1	53.5	51.1	47.4	48	45.1	43.2	44.6	43	44.3
62.2	56.8	53.5	54.3	52	48.5	46.3	46	43.1	42	43	41.3	42.4
60.7	54.9	53.1	52.7	50.2	47.1	45.6	44.2	41.2	40.8	42	39.9	41.1
57.7	53.7	52.1	52	49.3	46.7	44.5	42.8	40.2	40.1	41.3	39.7	39.6
56.6	54.2	51	51.4	48.7	47.4	44.5	41.9	40	39.8	40.6	39.3	39.4
56.7	54	51	51.8	48.4	47.9	43.9	42	39.8	39.3	40.4	38.9	39.4
55.6	53.9	51.4	51.4	48.8	47.9	43.4	41.6	39.1	38.7	40.4	38.8	39.5
54.8	54.1	50.9	50.6	48.7	48.1	44.2	41.5	39.1	39.4	41.7	39.3	39.8
54.7	53.8	51.2	50.2	48.5	48.2	44.2	43.1	39.4	40.5	43.4	41.4	49.4
55.8	53.7	52.3	50.4	48.5	47.7	44.6	42.5	40.7	40.1	42.3	40.8	46.6
55.5	53.6	52.4	50.5	48.1	47.6	44.6	42.5	41	42.4	42.5	42.2	45
56.1	55	52.3	50.5	48	48.4	45.5	42.7	41.1	43	42.4	42.5	43.7
55.7	55.2	53.5	51.1	48.3	47.8	46.5	43.3	41.3	42.5	42.5	40.8	41.8
56	54.5	52.5	52.8	48.9	48	45.9	42.8	41.5	41.5	42.5	40.7	40.4
55.6	55.3	51.3	51.3	48.7	47.2	46.2	42.6	41.2	41	42.3	40.4	39.8
55.9	54.9	53.1	51	48.7	47	46.4	43.5	42	41.8	42.2	41.5	42.2
58.2	55.7	52.6	52.7	50.4	47.7	47.9	45.6	43.7	45.2	45.2	45.4	42.5
56.7	57.1	52.9	51.5	52.8	48.8	48.4	45.8	43.8	44.4	44.1	44.9	42.7
55.1	59.8	61.4	50.6	52.1	55.4	48.5	48	45.4	43.9	44.6	43.3	42.3
54.1	58.8	58	49.6	57.4	52.4	49.3	46.8	45.5	43.6	44	43.1	42.6
55.3	57.8	56.1	50.8	54.5	51.7	48.6	46.6	46.4	43.2	44.3	44	43.1
58.1	57.1	56.9	53.5	53.1	51.4	49.5	48.3	46.9	45.7	45.6	45.2	46.2
56.4	56.9	56.7	54.1	52.1	51.1	48.2	47.8	48	45.9	46.5	46.2	47.4
56	58.5	56.3	53.4	51.4	50.7	46.9	47.7	48	46	46.7	46.4	48.2
59.1	58.9	57.2	54.8	52.7	50.2	46.5	48.5	48.8	45.8	47.6	47.4	49.4
63.5	59	57.1	56.1	53.9	51.8	49.1	50.4	49.8	47.8	49	48.8	49.4
60.6	58	59.6	56.7	52.7	52.9	50.6	50.7	50.6	48.2	49.1	49.2	50
60.3	59	64.2	58.3	52.1	51.5	50	49.2	48.7	46.4	47.9	47.2	47.7
58.7	60.6	64.8	57.3	52.5	51.1	49.4	47.8	47.6	46	47.5	46.4	46.7
58.1	59.5	64	56.8	52	50.5	49.1	47.6	47.3	45.9	47.4	46.2	46.4
69.6	60.4	64.3	61.7	54.7	52.9	49.5	49.2	49	47.1	47.7	46.7	45.6
66.7	69.7	62.1	60.1	54.7	54.5	49.3	48.7	47.9	46.8	47.7	46.2	45.3
63	71.9	61.5	57.9	55.1	54.3	49.5	47.8	47.8	47.3	48.1	46.1	45.3
62.8	70.1	63.4	56.6	54.9	54.8	51.7	48.1	47.7	47.5	47.8	45.5	45
63.3	67.2	65.1	58.8	53.7	54.7	52.2	50.8	48.6	47.5	48.2	46.2	45.2
62.3	64.6	61.6	59.5	52.4	52.5	50.3	49.6	47.4	46.1	47.8	45.6	45.1
61.9	61.8	60.4	57.1	51.9	52.4	49.5	47.8	46.8	45.7	47.5	45.3	44.9
60.9	60.1	58.7	54.9	52.4	52.5	50.1	47	46.7	46.6	47.8	46.7	46.3
59.9	60	57.5	53.9	53.2	54.6	50.6	47.4	47.6	49	49.5	48.1	48.7
58.3	60.2	58.1	55.9	55.1	56.9	54.7	50.4	51	52.2	52.8	51.5	50.9
57.3	59.1	56.1	55.7	56.1	56.1	54.9	50.6	51.7	52.5	51.2	51.6	51
57.4	57.4	57.1	58.1	57	56	57.2	54.6	52.6	50.6	49.5	49.2	48.8
58.5	56.2	57.6	57.4	56.3	55.3	56.9	54.8	53.8	49.9	48.6	48.1	47.5
59.9	56.6	57.4	58.4	57.7	57.9	60.4	59.7	56.2	53.1	50.7	50.3	50
58.1	58.1	57.4	58.5	58.3	57.7	58	57.1	54.4	51.5	50.5	49.1	48.4
57.1	57	56.2	56.5	59	56.2	56.5	54	53.2	50.5	49.3	48.3	48.2
56.6	56.1	55.6	55.6	57.3	55	54.1	52.2	50.6	48.7	47.6	47.2	47.6
55.2	56.1	56.5	56.3	56.5	55.5	54	52	49.8	48.6	47.5	47	48.7
55.5	58.1	59.7	57.5	56.9	57.8	54.5	53.3	51.4	47.7	47.8	48	48.5
58.1	59.5	58.6	57.1	56.5	57.4	53.9	52.7	50.3	47.6	47.1	47.5	48.2
59.8	58.9	58.8	59.2	56.6	58.2	54	52.4	49.8	47.2	46.4	46.1	46.9
62.2	57	58.5	58.8	55.9	57.3	53	52	49.3	46.9	45.7	45.4	45.9
64.1	57.2	57.8	58.1	55.1	56.8	52.7	53.3	49.4	46.7	45.5	44.5	45.2
72.2	60.6	57.6	58.3	55.2	57.5	53	54.1	49.4	47.2	45.8	44.7	45.3
73.8	60.2	58.1	57.9	57.5	58.4	54.3	53.7	49.7	47.5	48.8	46.1	48.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
43.1	42	40.1	37.7	35.8	34.7	31.9	29.9	26.8	24.6	23.2	23
41.5	40.7	39.2	37.2	35.5	34.4	31.6	29.3	25.9	24	23	22.9
40	39.6	38.3	37.6	35.1	33.7	31.1	29	25.5	23.8	23	23
39.4	39.6	38.1	37.3	35.1	33.7	31.1	29.2	25.7	23.9	23.1	23.2
39.4	40.4	39	38.2	37.9	38.7	37	35.6	31.2	30.2	28	25.7
41.1	40.9	40.9	38.5	37.5	38	35.8	36	31.1	30.2	28.1	25.7
43.7	42.7	42	39.9	39	38.5	36.3	36.6	31.5	30.3	27.4	25.1
46.7	44.9	43.7	42.7	41.4	41	38.1	36.9	32.1	29.9	27	24.6
49.2	47.3	45.6	43.8	42.4	41.2	38.8	36.1	31.9	29.6	26.7	24.5
49.9	48.6	46.5	45.3	44	42.3	40.6	38.1	34.5	35.4	28.2	25.7
56.6	53.7	51.7	51.1	50.1	49.3	48	46.3	42.5	42.1	36.2	33.4
56.6	54.9	52	50.3	48.8	47.1	45.2	43.7	40.1	38.6	34	31.4
54	52.5	49.9	48.4	47.5	45.3	42.7	41.2	37.7	35.8	31.8	29.2
53.1	50.9	48.7	47.4	46.6	44.1	41.5	39.8	36.6	34.2	30.5	28.5
51.6	50.2	48.4	47.2	46.4	44	41.2	39.3	36.2	33.8	30.1	28.3
50.2	49.2	47.7	46.5	45.5	43.5	40.5	38.7	36	32.8	29.3	27.5
49.7	49.3	48.1	46.9	45.6	43.5	40.9	39	36.2	33.2	29.8	28.4
49.3	48.6	47.5	46.5	45.1	43.3	41.6	39.8	36.3	33.8	30.4	27.9
47.2	46.3	45.4	43.9	42.2	40.3	38.7	37	33	30.4	27.5	25.5
45.3	44.6	43.8	41.9	39.7	37.9	36.1	33.9	30.2	27.8	25.3	24
45.2	44.6	43.5	41.3	39	37.5	35.3	32.6	29.5	27.4	24.6	23.4
45.3	45.2	44	41.5	39.2	37.4	35.2	32.2	29.5	27.2	24.5	23.4
46.4	45.1	44.3	41.3	38.9	37.3	35.2	32.3	29.6	27.5	25	23.6
46	45.6	45	41.5	39.5	38.3	36.4	33.4	30.8	28.6	26.2	24.3
46	46.5	45.9	42	40.4	39.6	38.2	35.5	32.8	30.6	27.8	25.3
49.3	49.6	48.2	44.3	42.2	42.5	41.1	38	35.8	33.6	30.6	27.5
51.5	50	48.7	45.7	44.9	44.5	42.6	40.2	37.4	35	32.2	28.9
49.8	49	47.7	46.3	44.8	43.4	40.9	38.2	35.3	33.3	30.7	27.3
48.4	47.8	46.5	45.4	44.2	43	39.9	37.3	34.6	32.8	30.5	26.7
47.6	46.6	45.2	44.4	43.7	42.1	38.6	36	33.2	31.3	29	25.7
46.3	44.9	43.8	43.1	42.5	40.6	37.6	35.4	31.9	30.2	28	25.2
45.9	44.8	43.5	42.9	42	40.1	37.3	35.4	31.7	30.2	27.9	25.2
45.9	45.7	43.9	43.5	43.1	40.5	38.6	36.9	33.1	31.9	29.4	26.3
47.2	46.6	45	45	44	42.1	40.3	38	35.2	34.4	31.4	28.2
53.5	51.3	50.3	49.1	48.4	46.8	44	42.9	39.6	37.9	35	31.7
53.2	51.6	49.4	47.6	45.8	44.1	42.1	40.5	36.7	34.7	31.8	28.7
50.5	49.3	47.1	44.8	42.7	41	38.7	36.9	33.1	31.1	28.5	26
47.9	46.7	44.6	42	39.8	38	35.4	33.4	29.7	27.8	25.7	24.3
45.5	44.6	42	39.5	37.4	35.5	32.7	30.4	27	25.2	23.8	23.4
43.3	42.5	39.9	37.6	35.6	33.7	30.6	28.2	25.5	23.9	22.9	22.9
41	40.6	38.3	36.3	34.1	32.7	29.1	26.5	24.2	22.9	22.3	22.7
39.7	39	37.1	35.7	33.3	32.4	28.3	25.7	23.6	22.2	22.1	22.5
39.1	37.9	37	35.1	32.9	32.1	28.1	25.3	23.2	22.1	22.1	22.5
38.8	37.1	37	34.5	32.3	31.6	27.4	24.9	22.8	21.9	21.9	22.5
38.7	37.1	36.8	34.2	32.3	31.6	27.4	24.9	22.7	21.9	22	22.5
39.4	38.1	37.1	34.2	32.7	31.9	27.7	25.7	23.8	22.9	22.2	22.6
39.6	38.2	38.6	35.3	33.5	32.2	28.2	26.4	24.2	23	22.3	22.8
39.7	38.2	38.4	35.3	33.4	32	28.4	28	24.4	23	22.3	22.7
40.8	39.1	39.5	37.1	35.9	33.2	30.8	27.2	24.6	23.1	22.3	22.7
40.3	38.7	39.2	36.6	35.4	33.1	30.6	27.1	24.4	22.9	22.2	22.7
40.2	38.2	39	36.2	35	32.5	30.3	26.9	24.3	22.9	22.3	22.6
38.7	37.7	38.3	35.4	34.5	32.5	30.2	27	24.8	23	22.4	22.6
38.7	38.2	38.1	36.1	34.6	32.5	30.5	27.1	25	23.6	22.7	22.7
39.6	38.9	38.8	37.2	35.9	34.4	32.8	28.7	27.1	26.2	23.7	22.9
41.1	39.9	40.5	38.9	37.4	36	33.6	30.6	28.6	26.7	24.6	23.3
42	40	40.4	38.1	36.6	35.4	33.8	30.6	27.7	25.9	24.1	23.2
41.8	39.7	40.1	37.8	36.2	35.1	33.2	30	27.5	25.5	23.9	23.2
42.2	40.6	41.9	38.2	36.4	35.9	33.5	30.8	28.1	25.7	24	23.3
43.7	41.7	42.6	38.9	37.4	36.8	34.2	31.6	28.9	26.4	24.4	23.4
46	43.4	43	39.8	38.6	37.6	34.7	32.2	29.6	27.1	24.9	23.7
48	45.3	43.8	40.8	39.3	37.7	34.9	32.3	29.3	26.8	24.4	23.3
48.3	45.6	45.3	41.7	39.4	37.6	34.8	32.2	29.3	26.8	24.4	23.3
49.2	46.8	46.2	42.9	40.1	38.3	35.4	32.7	30.5	27.5	24.7	23.4
50.1	47.3	46.8	44.1	41.4	40	37.5	34.6	32.5	29.5	26.2	24.3
50.7	48.4	47.5	45.6	43.2	41.7	39.8	38.3	36.6	33.9	30.6	27.1
48.6	46.6	46.1	44.2	43.3	42.1	39.3	38.7	36.6	34.9	31.1	27.7
47.1	46.1	45.7	43	42.3	41.2	38.5	37.3	35	33	29.5	26.6
47	46.6	45.2	43	41.9	40.4	37.7	36.2	33.5	31.5	28.4	25.9
45.7	45.3	43.6	42	40.6	39	36.6	34.8	32.1	29.9	27.2	25
44.9	44.7	43.4	41.9	40.6	39	36.6	34.3	31.6	29.6	26.9	24.6
45	44.5	44	41.8	40.4	38.9	36.8	34.1	31.1	29	26.5	24.3
44.5	44.4	43.9	41.6	40	38.3	36.3	33.6	30.5	28.2	25.8	23.9
45.1	43.7	44.1	42.6	41.5	40.4	38.4	34.2	31.7	30.3	26.8	24.5
44.2	43.2	42.9	41.7	39.8	38.5	36.6	33.1	31.6	29.7	26.7	24.5
44.1	43.2	42.8	41.3	39.6	38.3	36.3	32.8	31.4	29.4	27.4	25.5
45.5	44.5	45	43	41	40.4	38	34.7	33.5	32.2	29.4	26.2
47.6	47.1	47.6	46.1	45.6	43.9	42.7	39.1	39.4	40.2	39.6	35.3
49.8	48.2	48.7	47.6	47.3	46.2	43.8	41.1	41.2	40.4	38.5	33.6
49.9	48.9	48.6	48.2	47.7	46	44.4	40.9	40.9	40	38.1	33.1
48.8	47.1	47.3	46.1	48.3	47.9	45.5	42.6	38.4	38.7	35.2	31.9
47.2	45.4	45.2	43.8	45.6	45.1	42.6	39.9	35.8	36	32.6	29.5
48.9	49.2	47.7	45.4	46.1	44.4	43.3	41	38.4	36.4	34.6	32.2
47.4	47.1	46	44.4	44	42.9	41.1	39.3	37.3	37.4	35.8	32.6
47.6	47.7	46.3	47.3	46.9	44.6	42.6	39.9	38.7	40.8	37.3	31.9
46.8	46.9	45.4	45.5	44.6	43.3	40.6	38.1	36.4	37.9	34.9	29.5
46.8	46.8	45.2	45	44.2	43	40.2	38.5	36.7	37.7	34.5	29.5
45.3	46.1	46.4	45	43.4	42.1	40.2	37.7	36.4	36.3	32.8	28.2
45.3	45.7	45.7	44.2	42.4	41	39	37	35.4	35.3	31.7	27.6
45.1	44.4	44.9	43.4	41.1	40	38.7	36.6	36	34.8	31.1	27.3
44.9	43.9	43.8	42.4	40.3	38.9	37.4	35.4	34.2	32.9	29.4	26.2
44.9	44.5	45.2	42.8	40.5	39.2	37.8	35.2	33.8	32.9	28.8	25.6
46.5	44.9	45.5	43.4	42.4	40.7	38.6	35.7	34.6	33.5	30.3	26.1
47.7	46.6	46.6	45.4	45	43.1	40.6	37.9	35.9	33.7	30.5	26.5

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
24.1	24.4	0.6	No	No	
23.9	24.4	1.3	No	No	
24	24.4	0.2	No	No	
24.5	24.5	-1.1	No	No	
24.5	24.5	3.1	No	No	
24.4	24.5	0.5	No	No	
24.2	24.6	1.2	No	No	
24.1	24.5	0.3	No	No	
23.9	24.5	0.5	No	No	
24.7	24.7	0.6	No	No	
30.1	26.2	2.8	No	No	
28.2	25.5	3.4	No	No	
26.5	25	2.5	No	No	
26.4	24.8	0.4	No	No	
25.6	24.6	1	No	No	
24.9	24.6	0.8	No	No	
26	24.6	0.1	No	No	
25.3	24.7	2	No	No	
24.3	24.5	2.4	No	No	
23.8	24.5	0.1	No	No	
23.7	24.4	0.4	No	No	
23.6	24.4	0.4	No	No	
23.7	24.4	0.1	No	No	
23.7	24.5	0	No	No	
24.2	25	0.3	No	No	
25.3	25	0.2	No	No	
26.1	24.9	0.9	No	No	
25.1	24.8	2.6	No	No	
24.7	24.7	0.3	No	No	
24.4	24.6	1	No	No	
24.4	25	0.2	No	No	
25.2	26.2	0.4	No	No	
26.4	28.1	0.1	No	No	
27.5	29.5	0.5	No	No	
28.7	28.1	1.5	No	No	
26.4	26.4	3.3	No	No	
24.9	25.3	4.1	No	No	
24.1	24.8	2.4	No	No	
23.8	24.5	0.8	No	No	
23.7	24.5	0.1	No	No	
23.5	24.4	0.7	No	No	
23.5	24.4	0.2	No	No	
23.4	24.5	1.1	No	No	
23.4	24.4	0.5	No	No	
23.4	24.4	1	No	No	
23.5	24.4	16.3	No	No	
23.5	24.4	12.6	No	No	
23.5	24.4	8.3	No	No	
23.5	24.4	5	No	No	
23.4	24.4	1.1	No	No	
23.4	24.4	1.5	No	No	
23.4	24.4	0.5	No	No	
23.5	24.5	0.3	No	No	
23.6	24.5	2.3	No	No	
23.6	24.4	0	No	No	
23.6	24.4	1.6	No	No	
23.6	24.4	1	No	No	
23.7	24.5	0.1	No	No	
23.8	24.5	0	No	No	
23.8	24.5	1.5	No	No	
23.7	24.4	0.8	No	No	
23.6	24.4	0.6	No	No	
23.6	24.4	0.9	No	No	
24	24.4	0.4	No	No	
25.2	24.6	1	No	No	
26	25	0.4	No	No	
25.5	24.9	0.9	No	No	
25.1	24.8	2.8	No	No	
24.6	24.7	0.8	No	No	
24.1	24.6	0	No	No	
24	24.6	1.5	No	No	
23.9	24.5	4.8	No	No	
23.9	24.5	2.1	No	No	
23.9	24.5	1	No	No	
24.7	24.5	0	No	No	
25.4	24.6	-0.7	No	No	
30.5	27.9	2.4	No	No	
29.3	26.5	2.2	No	No	
28.5	25.9	15.5	No	No	
26.4	25.2	13.8	No	No	
25.3	24.9	14.8	No	No	
28.7	25.7	11.1	No	No	
27.9	25.6	1.3	No	No	
28.4	25.4	12.4	No	No	
26.5	24.9	6.8	No	No	
26.3	24.9	10	No	No	
25.7	24.6	8.3	No	No	
25.3	24.6	7.5	No	No	
24.7	24.6	5.3	No	No	
24.4	24.6	7.3	No	No	
24.1	24.6	1	No	No	
24.4	24.6	0.4	No	No	
24.8	24.6	0.1	No	No	

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
97		11/19/2021	12:56:38 PM	63.0	74.7	62.3	60.5	86.2	14.8	51.6	66.2	79.2	74.4	68.5	60.1	55.2	58	57.2
98		11/19/2021	12:56:39 PM	62.3	75.3	62.6	62.1	86.3	15.3	53.5	64.2	79.2	67.1	65.5	60.0	55.6	57.1	56.5
99		11/19/2021	12:56:40 PM	59.4	71.0	62.1	60.5	86.3	12.9	53.5	64.2	79.3	69.3	66.1	57.6	56.2	54.3	51.5
100		11/19/2021	12:56:41 PM	58.4	74.8	60.5	59.3	86.4	12.8	55.2	63.4	67.3	67.6	65.3	57.8	55.8	52.2	49.6
101		11/19/2021	12:56:42 PM	60.8	72.7	60.4	59.4	86.3	14	54.2	63.2	68.5	68.5	69.2	62.1	56.9	54.5	50.8
102		11/19/2021	12:56:43 PM	61.2	75.4	61.0	60.5	86.2	16.5	51.2	64.3	74.9	66.9	68.4	62.5	58.5	55.5	52.1
103		11/19/2021	12:56:44 PM	60.1	73.5	61.2	60.2	86.4	15.3	57.2	61.2	76.8	75.6	67	62.7	55.9	53.4	52.2
104		11/19/2021	12:56:45 PM	57.0	68.3	60.2	58.4	86.5	16.3	54.2	61.9	73.2	61.5	58.6	60.2	51.1	51.1	49.5
105		11/19/2021	12:56:46 PM	54.2	66.9	58.3	56.2	86.4	19	49.6	57	75.6	70.5	58.7	55.4	50.6	48.3	45.8
106		11/19/2021	12:56:47 PM	54.5	66.9	56.2	55.2	86.6	16.4	52.6	60.5	69.3	71.8	59.6	55.2	50.2	48.3	47.3
107		11/19/2021	12:56:48 PM	54.8	68.7	55.2	54.8	86.4	14	54.9	63.4	61.8	68.1	56.8	52.1	50.9	48.7	48.7
108		11/19/2021	12:56:49 PM	55.3	66.7	55.3	55.0	86.6	9.1	52.5	60.7	69	62.8	56.5	52.1	52.9	49.5	48.6
109		11/19/2021	12:56:50 PM	54.1	65.1	55.3	54.6	86.5	13.4	63.2	57.4	61	61.8	57.2	53.5	51.1	48.1	46.9
110		11/19/2021	12:56:51 PM	55.1	67.3	55.1	54.6	86.6	11.7	55.7	59.4	68.6	65.2	57.9	54.0	51.4	50.1	48.3
111		11/19/2021	12:56:52 PM	57.0	69.1	56.4	55.1	86.8	8.9	54.2	59	59.7	65.3	59.4	55.1	52.9	52.3	50
112		11/19/2021	12:56:53 PM	57.8	69.6	57.4	56.4	86.6	11.2	57.3	55.4	59.9	64.9	63.3	55.1	54.6	52.7	48.9
113		11/19/2021	12:56:54 PM	56.3	68.6	57.4	56.7	86.5	9.1	51.8	58.7	60.6	65.2	62.2	53.2	53.3	52.8	47.9
114		11/19/2021	12:56:55 PM	57.7	70.1	57.4	56.8	86.9	7.9	53.6	58.2	63.3	60.9	59.2	53.0	52.4	54	50.4
115		11/19/2021	12:56:56 PM	56.3	68.7	57.5	56.5	86.8	9	53.4	58.5	63.1	61.8	60.3	52.5	52.6	52.7	49.3
116		11/19/2021	12:56:57 PM	54.5	70.0	56.5	55.5	86.8	10.5	53.4	58.5	61.8	59.6	58.4	51.3	51.3	50.8	47.1
117		11/19/2021	12:56:58 PM	52.2	67.1	55.5	53.6	86.8	11.5	53.5	58.1	63.7	59.7	57.5	49.8	49.7	47.6	44.8
118		11/19/2021	12:56:59 PM	52.1	65.1	53.6	52.6	86.8	10.6	51.7	55.9	62.6	59.1	55.2	51.0	48.9	47.4	44.7
119		11/19/2021	12:57:00 PM	50.2	60.6	52.6	51.3	86.9	12	53.8	60	61.3	57	55.2	50.4	48.9	44.1	40.4
120		11/19/2021	12:57:01 PM	49.6	61.4	51.2	50.2	86.9	11.9	54.7	59.8	61.4	56.4	54.7	49.5	47.9	43.8	40.3
121		11/19/2021	12:57:02 PM	49.8	63.2	50.3	49.8	87.0	12	57.4	56.8	60.4	55.6	53.8	49.0	47.3	44.8	41.2
122		11/19/2021	12:57:03 PM	51.2	64.4	50.9	50.1	86.9	11.6	54.3	58.7	59.1	59.2	55.2	50.0	48.9	47	41.7
123		11/19/2021	12:57:04 PM	52.0	63.6	51.7	50.8	86.8	11.2	59.6	57.4	60	58	55.7	49.9	49.4	47	43.9
124		11/19/2021	12:57:05 PM	54.0	66.2	53.1	51.7	86.9	10.6	61.9	59.3	60.7	60.3	56.3	51.8	52	48.7	46
125		11/19/2021	12:57:06 PM	54.8	66.9	54.3	53.2	87.1	11.8	59.8	58.2	61.6	64.5	57.8	52.8	50.8	49.7	47.7
126		11/19/2021	12:57:07 PM	56.7	69.8	55.9	54.3	87.0	10.1	56.2	59.5	61.4	64.5	57.8	52.4	52	51.5	50.7
127		11/19/2021	12:57:08 PM	56.6	70.6	56.6	55.9	87.0	15.7	55.2	62.3	65.3	67.7	60.7	54.7	53.4	51.9	48.6
128		11/19/2021	12:57:09 PM	57.5	69.2	57.0	56.2	87.2	10.3	54.7	70.1	72.9	66.7	58.2	54.2	52.5	53.6	50.6
129		11/19/2021	12:57:10 PM	56.0	68.4	57.1	56.3	87.0	13	60.1	60.8	68	64.6	59	54.1	52	51.9	48
130		11/19/2021	12:57:11 PM	56.8	68.3	56.7	56.2	87.1	11.5	59.5	60.2	67.6	63.4	58.4	53.4	53.6	52.3	48.7
131		11/19/2021	12:57:12 PM	57.9	70.5	57.5	56.7	87.2	10.8	55.0	59.2	67.8	64.7	59.8	53.8	55.1	52.8	49.6
132		11/19/2021	12:57:13 PM	57.2	69.2	57.5	57.3	87.0	13.5	54.8	59	68	67.2	61.4	54.3	53.3	51.9	49.3
133		11/19/2021	12:57:14 PM	57.2	69.0	57.3	57.2	87.1	11.7	54.5	60.2	70.3	66.1	62.5	56.9	53.7	52.9	47.9
134		11/19/2021	12:57:15 PM	57.9	70.3	57.8	57.0	87.2	9.7	59.8	63.7	64.4	64	59.2	57.1	53.2	52.4	50.5
135		11/19/2021	12:57:16 PM	60.4	80.0	59.6	57.8	87.1	13.2	62.1	59.3	67.3	70.4	62.5	57.0	55.6	53.8	53.8
136		11/19/2021	12:57:17 PM	61.4	72.8	60.9	59.6	87.2	14	54.2	70.8	70.6	72.7	61.6	59.9	55.3	54.1	53.8
137		11/19/2021	12:57:18 PM	61.8	73.9	61.7	60.9	87.2	13	60.6	63.4	61.3	76.2	64.7	63.4	57.9	54.4	52.4
138		11/19/2021	12:57:19 PM	57.6	70.5	61.3	59.3	87.3	12.2	56.7	62.4	64.6	68.6	65.3	59.8	54.4	52.3	48.2
139		11/19/2021	12:57:20 PM	55.1	**68.7**	59.3	57.1	87.2	8.9	50.7	62.9	65.8	62.6	58.1	55.7	50.7	50.9	47.1
140		11/19/2021	12:57:21 PM	53.6	72.4	57.1	55.2	87.2	9.7	49.4	59.4	61.2	58.9	55.3	52.4	49.4	49.9	45.4
141		11/19/2021	12:57:22 PM	51.8	64.1	55.2	53.4	87.2	11	54.1	59.6	61.6	60.5	54	51.1	47.7	47.7	43.8
142		11/19/2021	12:57:23 PM	48.9	60.6	53.4	51.2	87.6	13.8	49.3	57.3	60.6	59.4	55.6	49.3	45.7	43.5	39.9
143		11/19/2021	12:57:24 PM	48.2	60.6	51.1	49.5	87.3	13.5	50.9	57.8	61.6	57.9	54.3	47.7	45.2	43.3	39.2
144		11/19/2021	12:57:25 PM	48.5	62.7	49.5	48.9	87.3	13.1	51.8	56.9	60.1	57.4	53.3	50.4	44.8	42.3	39.1
145		11/19/2021	12:57:26 PM	46.9	60.6	48.9	47.7	87.2	15.3	53.1	58.9	59.9	57.9	52.9	47.2	44.3	40.7	37.4
146		11/19/2021	12:57:27 PM	47.0	58.4	47.8	47.2	87.6	15.2	48.9	59.3	60.7	59	52.5	47.2	44.1	41.5	37.3
147		11/19/2021	12:57:28 PM	46.8	58.4	47.2	46.8	87.5	15.1	51.5	57.6	60.7	58.6	52.1	47.8	44.4	40.9	36.3
148		11/19/2021	12:57:29 PM	46.6	56.7	47.1	46.7	87.5	14.8	55.6	56.5	60	58.2	52.8	47.4	44.9	40.4	35.9
149		11/19/2021	12:57:30 PM	46.7	56.7	46.9	46.7	87.6	14.5	55.1	56.7	57.8	59	52.5	47.4	44.6	40.8	36.6
150		11/19/2021	12:57:31 PM	47.6	60.6	47.4	46.7	87.7	14.4	53.0	57.1	59.5	58.8	54.1	47.2	44.8	41.5	38.7
151		11/19/2021	12:57:32 PM	47.9	60.6	47.8	47.3	87.6	15.6	51.9	54.2	59.4	61.4	53.3	47.5	45.4	42.2	37.8
152		11/19/2021	12:57:33 PM	52.1	73.4	51.6	47.8	87.7	17	48.0	56.3	59.1	64.6	55.8	51.5	49.4	47.3	44.4
153		11/19/2021	12:57:34 PM	49.3	61.4	50.5	49.8	87.6	13.4	49.4	69.3	69.1	59.1	56.1	47.5	45.4	44.6	40.8
154		11/19/2021	12:57:35 PM	48.9	61.4	49.9	49.4	87.7	11.8	58.7	56	59.9	59	53.6	49.6	46	43.4	40.9
155		11/19/2021	12:57:36 PM	50.2	61.4	49.9	49.4	87.7	13.2	51.6	57.3	59.1	57	56.1	51.6	46.6	44.4	42.1
156		11/19/2021	12:57:37 PM	50.5	61.4	50.4	49.9	87.7	15.9	50.0	60.3	58.5	62.4	61.1	48.4	46.8	44.1	41.3
157		11/19/2021	12:57:38 PM	50.9	62.1	50.8	50.4	87.7	13.2	51.9	62.3	59.2	64.4	60.8	48.0	46.8	46.1	43.1
158		11/19/2021	12:57:39 PM	51.0	61.4	51.0	50.8	87.7	11.7	51.3	60.6	60.5	60.1	55.3	49.6	47.7	45.5	43.4
159		11/19/2021	12:57:40 PM	51.6	64.8	51.6	50.8	87.6	12.3	49.5	59.7	59.7	60.2	55.1	50.3	47.8	46.1	43.5
160		11/19/2021	12:57:41 PM	53.6	66.2	52.9	51.6	87.7	10.7	53.0	58.1	59.9	60	56.5	52.7	49.6	48.2	45.9
161		11/19/2021	12:57:42 PM	53.3	74.3	53.2	52.9	87.8	11.5	53.8	62.7	61.5	60.3	54.8	52.0	49.6	49.1	45.1
162		11/19/2021	12:57:43 PM	52.3	72.6	53.2	52.7	87.8	10.7	53.3	62.3	63.1	60.4	56.7	49.3	49.5	47.5	44.3
163		11/19/2021	12:57:44 PM	53.7	68.4	53.5	52.6	87.8	8.2	54.1	58.3	59.4	56.2	54	49.3	49.2	48.2	45.9
164		11/19/2021	12:57:45 PM	56.1	72.3	55.4	53.4	87.8	6.4	51.8	58.7	59.1	58.8	53	51.1	51.4	52	48.6
165		11/19/2021	12:57:46 PM	52.9	66.9	55.4	53.8	87.9	9.3	56.2	56.4	59.9	58.6	53.3	47.7	49	47.9	45.1
166		11/19/2021	12:57:47 PM	52.8	73.4	54.4	53.1	87.9	9.1	50.4	56.2	59.5	59.9	53.9	48.8	48.1	48.5	46.4
167		11/19/2021	12:57:48 PM	56.8	70.9	56.3	53.0	87.9	9.8	51.5	56.8	58	62.5	60	50.7	50.4	51.1	50.5
168		11/19/2021	12:57:49 PM	63.0	76.4	61.9	56.3	88.1	6.1	52.8	57.7	60.7	65.1	61	57.9	60.2	58	55.2
169		11/19/2021	12:57:50 PM	66.2	77.7	65.0	62.1	87.8	4	51.9	60.7	59.6	64.8	62.8	62.2	64	61.4	58.6
170		11/19/2021	12:57:51 PM	66.7	78.9	66.1	65.0	88.1	5.2	51.5	61	62.9	64.1	64.5	62.2	67.4	60	57.5
171		11/19/2021	12:57:52 PM	66.1	78.4	66.2	66.0	87.9	5.8	54.4	64	63.1	65.3	64.6	63.1	63.3	62.6	57.4
172		11/19/2021	12:57:53 PM	63.7	76.1	66.1	64.5	88.1	7.9	55.5	64.6	67.6	61.7	64.7	62.7	59.8	60	55.5
173		11/19/2021	12:57:54 PM	61.6	87.4	64.7	62.7	88.2	11.8	54.3	66	69.1	71.2	62.9	57.4	59.6	55.9	54.1
174		11/19/2021	12:57:55 PM	58.7	71.0	62.7	60.6	88.2	11.9	59.7	67.3	64.2	71.2	57.8	54.8	56.1	53.8	49.9
175		11/19/2021	12:57:56 PM	57.4	78.3	60.6	58.8	88.1	9.5	60.5	67.7	66.6	64.6	56.1	52.7	52	52.8	50.4
176		11/19/2021	12:57:57 PM	59.6	89.8	60.8	58.3	88.3	9.1	60.8	62.5	65.6	61.5	56.8	51.0	50.6	50.4	51.5
177		11/19/2021	12:57:58 PM	53.6	69.0	59.0	56.5	88.2	12.9	53.3	61.2	70.2	61.7	55.6	51.0	49.5	49.3	44.8
178		11/19/2021	12:57:59 PM	54.3	74.4	56.5	55.2	88.2	13	55.6	59.9	62	65.4	54.7	54.0	49.9	49.4	47
179		11/19/2021	12:58:00 PM	67.2	87.6	66.6	54.3	88.3	2.2	54.1	58.2	61	65.8	54.7	52.7	60	62.5	63.2
180		11/19/2021	12:58:01 PM	52.0	64.1	65.6	61.7	88.2	15.5	54.7	54	63.2	64.8	53.3	52.9	48	47.2	43.3
181		11/19/2021	12:58:02 PM	50.5	62.7	61.6	57.9	88.2	14.2	53.7	58.4	64.7	65.7	53.8	50.3	46.8	45.4	42.2
182		11/19/2021	12:58:03 PM	50.8	65.4	57.9	54.9	88.2	13.7	51.5	55.8	63.3	61.9	54	49.3	46.8	45.9	43.5
183		11/19/2021	12:58:04 PM	54.3	68.6	54.9	54.2	88.5	9.4	50.3	56.3	62.7	60	54.9	53.3	50.6	49.2	46.8
184		11/19/2021	12:58:05 PM	56.8	69.2	56.1	54.8	88.4	7.5	52.1	59.4	60.7	59.6	55.5	54.6	53.2	53.6	47.8
185		11/19/2021	12:58:06 PM	58.1	71.4	57.6	56.1	88.3	7.7	45.5	56.3	59.4	60.1	54.9	56.2	55.1	54.7	49.8
186		11/19/2021	12:58:07 PM	59.2	71.3	58.7	57.6	88.3	7.4	52.7	57	62.6	63	57.2	55.5	54.5	56.5	51.6
187		11/19/2021	12:58:08 PM	56.7	69.2	58.8	57.3	88.5	8.1	49.9	57.8	63.6	62.8	56.3	51.2	51.2	54.7	48.7
188		11/19/2021	12:58:09 PM	52.7	64.8	57.3	54.9	88.3	11.4	52.2	56.5	61	62.4	55.4	50.0	49.6	49.3	43.9
189		11/19/2021	12:58:10 PM	50.4	62.7	54.9	52.7	88.4	12.3	51.3	54.6	59.8	60.1	54.9	48.7	48.2	45.7	41.6
190		11/19/2021	12:58:11 PM	48.8	61.4	52.7	50.7	88.4	13.7	51.0	55.9	61	59.4	54	48.2	46.3	43.7	39.5
191		11/19/2021	12:58:12 PM	47.7	58.4	50.6	49.1	88.7	15.2	52.5	56.7	58.8	61	52.1	47.9	45.8	42.4	37.6
192		11/19/2021	12:58:13 PM	46.5	56.7	49.1	47.6	88.5	15.6	53.0	58.6	61.6	59.9	52.2	46.1	45.4	40.6	37.2
193		11/19/2021	12:58:14 PM	45.7	53.6	47.6	46.5	88.7	15.7	49.4	58.3	60.8	58.1	51.4	45.3	44.6	39.6	35.7
194		11/19/2021	12:58:15 PM	45.0	56.7	46.5	45.6	88.5	15.7	51.9	56.9	61.5	58	51.6	45.4	42.8	38.7	35.5

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
51.9	43.7	34.1	55.7	66.3	78.1	75.2	67.6	59.6	54.9	57.4	56.3	51.1
51.6	42.8	33.4	53.8	65.7	78.9	73.7	67.3	60.4	55.5	57.6	56.7	51.7
46.8	38.1	30.6	54.1	64.8	79.9	70.9	66.8	59.6	55.9	57	56.3	51.1
46	40.7	31.9	55.3	64.3	78.7	69.9	66	58.5	56	55.5	53.7	48.7
46.6	38.8	30.2	55.6	63.9	74.9	69.3	68.4	61.3	56.8	54.3	51.8	47.5
48.6	40.6	30.5	54.1	64.4	74.7	68.5	68.8	62.3	57.9	55.1	51.8	48.1
47.2	39.6	29.9	56.2	64.2	76.6	74.2	68.6	62.9	57.9	55.1	52.5	48.1
44.2	36	28.9	57	62.7	75.6	73.8	67.1	62.1	56.5	53.9	51.8	47.3
40.7	34.6	28.9	54.4	62	75.5	70.7	63.7	60.7	53.9	52.3	50.4	45.5
42	35.3	29	52.7	60.7	75.4	71.8	61.5	58.1	52.1	50.2	48.1	43.1
44.1	36.9	29.6	54.5	62.4	72.4	71.2	60.1	56.6	51.2	49.1	48.5	43.8
44.1	38.3	30.2	54.2	62.5	69.5	69.2	58.4	54.3	52.5	49.4	48.8	44
42.9	36.2	29.4	61.6	61.3	68.6	66.2	57.5	53.6	52.5	49.3	48.5	44
43.3	35.4	29.1	61.4	59.4	68.2	65.1	57.9	54	51.7	49.7	48.2	43.5
44.2	36.9	29.3	58.7	59.4	68	65.3	59	54.8	52.5	51.6	49.3	44
44.1	36.4	29.1	57.5	59.2	64.7	65.6	62.7	55.2	54.2	52.3	49.4	44.1
42.3	34.2	28.7	56.7	58.6	62.7	66.5	63.6	55.2	54.2	52.6	49.1	44.2
44.8	36.5	28.7	54.4	58.6	63	64.7	61.8	53.9	53.6	53.6	49.8	44.6
40.3	31.2	28.4	54.7	58.8	63.8	62.6	60.9	53.4	53.6	53.9	50	43.7
37.8	28.1	28.4	53.9	59.1	62.9	62.1	60.2	52.9	52.5	52.7	49.3	41.9
37	28.8	28.3	54	59	63.4	61.1	59.7	51.8	51.9	51.8	48.2	40
36	32.8	28.6	53.4	58.1	64.1	60.2	58	51	50.6	49.6	46.2	38.1
33.4	28.3	28.5	53.8	59.4	62.6	59.3	56.5	50.9	49.5	48.2	45.3	36.9
33.7	28.3	28.5	54.6	60.1	61.8	58.3	55.7	50.8	49.2	46.1	42.9	35.1
35.6	28.7	28.4	56.9	59.5	61.7	57	55.2	49.8	48.5	44.9	41.4	35.6
36.2	29.6	28.4	56.3	58.8	60.8	58.6	55.2	50	48.5	46.5	41.9	36
37.7	29.7	28.4	58.8	58.3	60.4	58.5	55.7	50	49.1	46.9	43.3	37.3
39.6	32.6	28.5	61.9	59.4	61	60.1	56.3	51.3	51.1	48.1	45	38.9
42	33.1	28.6	60.3	58.5	61.5	63.7	57.5	52.4	51.1	49.2	46.9	41.2
44.9	36.2	28.7	60.3	59.7	61.9	64.3	57.6	52.8	51.8	50.8	49.7	44
43.2	33.8	28.7	58	61.2	65.9	67.7	60.3	54.1	53.1	51.5	49.6	44.2
45	35	28.8	57.1	68.9	72.3	67	59.5	54.3	52.6	52.9	50	44.4
42.2	33.7	29	59.4	68.1	69.7	66.9	59	54.3	52.6	53	50.2	44.4
45.6	38.5	32.1	60.6	64.9	69.2	65.8	59.2	54	53.3	52.3	48.9	45.1
47.9	41.8	35.6	59	62.7	68.2	64.7	59.4	54.1	54.6	52.7	49.4	47.1
48.4	42.2	36	56.9	60.8	68.4	66.6	60.8	54.5	54.4	52.7	49.5	47.9
46.1	39.7	33.2	56.5	60.8	69.9	66.8	62.1	56.1	54	52.7	49.2	47.9
48.9	43.4	34.1	59.4	63.1	69.5	66.3	62	57.1	54	52.8	50.2	48.5
52.3	46	35.8	61.4	63	68.8	69.3	62.2	57.2	54.8	53.4	52.6	51.3
53	47.3	37.2	60.9	70.1	71.4	72.3	62.4	59.2	55.3	54	53.4	52.4
50.2	44.5	34.2	60.5	68.4	68.7	75.5	64.1	62.4	57.1	54.4	53.4	52.4
44	37.2	29.4	60	65.8	65.9	74.8	65.7	62.4	57	54	52.6	50.9
41.3	33.7	28.6	58.2	64.3	66.4	71.8	64.3	60.9	55.4	53	50.3	47.8
41.1	31.9	28.7	54.8	63.3	65.1	68.3	61.3	58.2	53.1	51.7	48.5	44.9
38.7	29.8	28.3	53.7	61.6	63.1	64.8	58.6	55.5	51	50.7	46.8	42.9
35.4	29	28.3	53.2	60.4	62.4	62.4	56.4	53.2	49.2	49.1	45.2	40.6
35.3	30.3	28.5	51.4	58.8	61.8	60.6	55.8	51.2	47.4	46.4	42.7	38.2
36.4	33	29.4	52.1	58.4	61.8	59.1	54.9	50.4	46.1	44.7	40.8	37.1
34.7	30.4	28.4	52.9	58.8	61.2	58.3	54	50.3	45.5	43.3	39.7	36.3
33.9	28.9	28.2	52.6	59.6	61	59.1	53.2	48.5	44.7	42.3	38.6	35.5
31.8	27.3	28.3	51.6	58.9	60.8	59.5	52.8	47.9	44.5	41.5	37.6	34.3
32.6	28.7	28.3	55.1	58.8	60.6	59	52.8	48.2	44.9	41.2	36.9	32.9
33.5	29.6	28.4	55.5	57	60.2	58.9	53	47.7	45	41.2	36.5	33.4
35.7	29.7	28.5	54.9	57.9	59.9	59.1	53.7	47.5	44.8	41.2	38.1	35
32.7	27.1	28.4	53.6	56.7	60	60.9	53.6	47.7	45.4	42	38.3	35
39	31.8	28.4	52.3	56.7	60	64	55.6	51.1	49	46.8	43.6	38.3
36.6	30.2	28.3	50	68.3	68.3	63.9	56.2	50.4	47.9	45.6	42.5	37.3
35.5	29.1	28.6	57.8	67.8	66.4	61.7	56.5	49.5	46.9	45.1	41.6	37
37.1	30.9	28.6	57.7	64	63.3	59.9	56	51.2	46.6	44.6	41.9	36.8
36.9	30.1	28.4	54.8	61.4	61.4	61.5	60.2	51	46.8	44.3	41.8	37.2
39.2	31.8	28.3	53	61.9	60	64	61.2	49.4	46.8	45.5	42.6	38.7
39.2	31.8	28.4	52	62.1	60.7	63.1	60.3	49.4	47.5	45.6	43.2	39.4
41.1	32.8	29.3	51.7	60.7	60.4	61.4	57.8	50.2	47.7	46	43.8	40.9
43.3	35.2	31.7	52.9	60.2	60.4	60.8	56.7	52.2	49.1	47.5	45.2	42.5
41.4	35.3	30.1	53.8	61.9	61.2	60.6	56.4	52.3	49.6	48.7	45.3	42.3
40.9	35.7	31.4	54.2	62.3	62.4	60.8	56.6	52	49.7	48.6	45.1	41.8
41.3	47.7	46.6	55.6	62.3	62.4	60.4	56.5	50.6	49.5	48.4	45.7	41.5
41.3	47.7	46	53.3	60.2	61.1	58.9	54.7	50.7	51	51	48	41.4
40.6	45	42.8	55.4	59.3	60.2	59.1	53.7	50.6	51	50.9	47.8	41.4
41	35.5	29.2	55.4	58	60	59.6	54.1	48.9	50	50	47.1	41.4
47.7	41.2	32.5	53.1	57.3	59.9	62.4	59.4	50.3	50.2	50.8	49.9	46.9
51.8	45.8	36.9	53	57.9	60.4	64.6	60.6	56.8	59.1	56.8	54.2	50.7
55.1	51.4	40.9	53.3	60.4	60.2	65.4	62.3	61	62.6	60.1	57.5	54
54.1	49.5	40.4	52.1	61.3	62.2	64.8	64	61.9	66.3	60.2	57.7	54.3
54.6	49.7	40.6	53.9	63.2	63.1	65.7	64.9	62.8	66.5	62	57.5	54.4
52.1	47	35.9	55.3	64.4	66.5	65	64.7	63.3	64.3	62	57.4	54.4
51.4	44.8	32.5	55.3	66	68.5	70	64.5	62.2	62	60.5	57	53.9
49.6	41.4	34.6	59.1	67	68.4	71	63.4	59.9	60.4	58.2	54.5	51.6
48.8	41.9	33.4	60.2	68.3	67.2	70.7	60.6	57.4	58.1	55.9	52.2	50.5
56.3	44.1	35.4	61.5	66.9	66.3	67.8	58.3	55	55.2	54.1	52.8	56.4
44	38.3	31.1	60.2	64.5	69.3	64.9	57.6	52.9	52.9	52.1	51	54.3
43.2	37.7	30.9	57.5	62.6	69.3	65.1	56.5	53.5	51.1	50.6	48.7	50.7
51.2	39.9	32.2	55.8	61	66	65.9	55.5	53.5	59.4	61.9	62.6	51.3
39.9	32.9	28.7	55.1	59.4	63.6	65.3	54.8	53.2	58.6	61	61.6	50.3
36.6	31	28.5	55	58.2	64.6	66.2	54.2	53.2	55	57.1	57.4	46.7
37.3	30.8	28.6	54	58.4	64.3	65	54.5	51.5	51.7	53.3	53.4	43.1
40.3	33	28.9	52.7	57.1	64.3	63.5	54.7	52.7	50.4	50.2	49.9	40.6
41.9	33.4	28.8	52.8	58.8	63.4	61.6	55.6	54.3	52.3	52.7	48.5	41.4
42.5	32.7	28.7	51.3	58.2	61.5	60.7	55.4	55.7	54.4	54.2	49.4	42.3
42.4	33.6	28.7	52	57.7	62.1	62.3	56.8	56.1	55	55.9	51	42.7
37.3	30.1	28.4	51.8	57.7	63	63.1	56.5	55.3	54.3	56.2	50.9	42.2
35.1	28.7	28.4	52.6	57.8	63.4	62.8	56.8	53.2	52.5	54.8	49.4	39.7
34.5	28.2	28.3	51.7	57	61.4	62.6	55.8	51.4	50.7	52.1	46.7	37.4
37.4	27.9	28.3	51.5	56.6	61.2	61.3	55.6	50.1	49.6	49.3	44.3	37.7
31.7	26.8	28.4	52.2	56.8	61.2	60.9	54.3	48.9	47.8	46.5	41.8	37.4
30.1	26.3	28.3	52.9	57.9	61.3	61.1	53.1	48.3	46.9	44.4	39.7	34.7
29.3	25.9	28.3	53.2	58.4	61.4	60.3	52.6	47	45.9	42.4	38.2	32.3
30.3	26.6	28.3	51.9	58.3	61.9	58.7	52.1	46.2	45.1	40.9	36.8	30.7

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
43	33.5	53.5	63.3	75.2	73	63.8	57.8	54.5	55.2	53.8	49.4	41.7
43.3	33.7	53.1	63.7	78	70.8	66.2	59.4	54.8	57	56.3	51.1	42.7
42.7	33.3	52.8	63.6	78.8	69.9	65.9	58.5	55.2	55.5	53.8	48.8	40.3
41.3	32.4	53.5	63.2	74.9	68.5	65.3	57.9	55.4	53.7	51.7	46.9	38.5
41	32.2	54.1	62.9	72.1	68.1	65.6	58.1	55.7	53.5	51	46.8	39.8
40.4	31.1	52.4	63.7	71.4	67	67.8	61.4	56.9	54.3	51.3	47.1	39.9
40.5	30.7	52.3	61.9	74.8	67.6	67.2	61.8	56.5	53.9	51.8	47.3	39.6
39.6	30.1	54.5	62	74.5	69.9	63.7	60.7	54	52.3	50.4	45.5	37.6
37.6	29.4	52.1	59.5	74.2	69.2	61.3	58.2	52.1	50.2	48.1	43.1	36
36	29.1	51.4	59.7	72.4	70.6	60.2	56.6	51	49.1	47.6	42.5	35.6
36.6	29.4	52.6	59.8	68.8	69.3	58.3	54.3	50.9	48.6	47.4	42.3	35.6
37.6	29.9	52.4	61.2	68.7	66.3	57.1	53.1	50.9	49	48.4	43.6	36.6
37.8	29.9	53.5	59.1	65.6	64.1	56.9	52.7	51.6	48.6	47.5	43.3	36.7
36.7	29.5	58.7	58.7	65.2	64	57	53.2	51.2	48.5	47.5	42.9	35.9
36.6	29.3	56.2	58.9	64.7	64.8	57.8	53.9	51.5	49.7	48.2	43.5	36.1
36.6	29.3	56.1	57.3	62.3	63.7	58.9	54.5	52.5	51.6	48.9	43.7	36.4
36.4	29.2	54.3	57.1	61	64.7	61.9	53.9	53.5	52.3	48.3	43	35.1
36.9	29	52.7	57.8	61.1	62.7	60.4	53.3	52.8	52.5	48.5	43.5	35.4
35.4	28.8	53.5	58.1	62.6	62.1	60.2	52.8	52.5	52.8	49.3	41.9	33.2
33.1	28.5	52.8	58.3	62	60.7	58.7	51.7	51.7	51.5	48	40	30.7
30.9	28.4	53.2	57.7	62.1	59.9	58	50.6	50.6	49.6	46.2	38.2	29.5
32.6	28.6	52	56.8	62.6	59.3	56.4	50.5	49.5	48.2	45.2	36.9	29.1
31.7	28.5	51.8	56.9	61.8	57.7	55.6	50.5	49.1	46.1	42.9	35.1	30
30	28.5	53.3	58.7	61.1	57.1	54.7	49.8	48.2	44.8	41.4	34.3	29
29	28.5	54.3	57.9	60.9	56.1	54.3	49.1	47.7	44.4	41	34.1	28.5
29.5	28.5	53.9	57.5	59.7	56.1	54.5	49.4	47.8	44.9	41.4	35.6	29
29.8	28.4	55.6	57.6	59.1	58.1	54.7	49.7	48.6	46.4	41.6	36	29.2
31.8	28.5	58.4	57.8	59.8	58	55.5	50	49.2	46.8	43.3	37.3	29.8
32.7	28.5	59.5	57.8	60.7	59.5	55.9	51.2	50.8	48	45.1	38.9	31.8
35.4	28.6	58	58.5	60.5	63.6	57.2	52.3	50.8	49.2	47	41.2	32.7
35	28.7	56.3	58.9	61.5	63.2	57.6	52.3	51.5	50.9	48.9	43.4	34.3
34.8	28.8	55.3	60.5	67.3	66.5	58.6	53.7	52.2	51.5	48.8	43.3	34.3
34.8	28.9	54.2	64.9	68.1	65.7	58.4	53.9	52.2	52.1	48.7	43.1	34.1
37.6	31.5	59	62.7	67.9	64.4	58.4	53.6	52.2	51.8	48.4	43.2	34.2
40.8	34.6	56.8	60.8	67.2	64.1	58.6	53.5	53.3	52.3	48.8	45.1	37.7
41.7	35.5	55.4	59.5	67.4	64.7	59.4	53.6	53.6	52.2	49.2	47.2	40.8
41.6	35.4	54.3	58.3	68.3	66	60.6	53.9	53.3	52.1	48.4	46.7	40.4
42.9	34.3	54	61	67	64.6	60.4	55.7	53.3	52.3	48	46.4	40.2
45.2	35.4	59.7	61	64.3	64.7	60.2	56.4	53.2	52.3	50.3	48.6	42.9
46.6	36.6	58.1	60.8	68.7	68.8	61.5	57.2	54.7	53.3	52.7	51.3	45.3
46.6	36.6	57.1	65.9	65.8	72.3	61.2	58.8	55.3	54	52.6	50.9	45.1
45.1	34.9	58	64	64.8	71.9	63.8	60.9	55.5	53	50.3	47.9	41.8
41.8	32.3	54.8	63.3	65	68.3	61.3	58.3	53.1	51.8	48.5	44.9	38.5
38.5	30.4	52.4	61.2	63.1	64.8	58.6	55.5	51.1	50.7	46.8	42.9	35.6
35.6	29.4	52.5	60.3	62	62.4	56.2	53.2	49.2	49	45.2	40.6	32.9
32.9	28.8	51.2	58.5	61.1	60.7	55.7	51.2	47.4	46.4	42.7	38.2	30.9
30.9	28.5	50.6	57.6	61.1	59.1	54.9	49.3	46.1	44.7	40.8	36.6	30.1
32.6	29.3	50.3	57	60.5	58	53.8	48.7	45.3	43.3	39.7	36.3	30.9
31.9	28.9	52	56.6	59.9	57.5	53.3	48.5	44.7	41.9	38.5	35.3	31
31	28.6	50.4	57.9	60	58	52.7	47.7	44.3	41.5	37.6	34.3	29.7
29.7	28.4	50.3	57.2	60	58.5	52	47.5	44	41	36.8	32.9	28.3
28.7	28.4	50.8	57	59.8	58.1	52	47.4	44.5	40.6	36.2	32.6	28.1
29.3	28.4	54.2	56.4	58.7	58.2	52.5	47.2	44.5	40.4	36.2	32.8	28.7
29.5	28.4	53.4	56.7	58.9	58	52.3	47.1	44.4	40.6	36.6	33.4	29.3
29.5	28.4	52.3	55.3	58.9	59.2	53	47.1	44.4	41.3	37.7	33.6	28.2
31	28.4	49.9	55.2	58.7	61	53.2	47.4	45.3	42	38	33.7	28.2
30.5	28.4	49.4	55.3	58.5	61.5	54.5	48.8	46.5	44.6	41.5	36.8	30.2
30.4	28.6	49.7	64	63.4	59.8	54.4	48.6	46.2	44.2	41	36.2	29.6
30.5	28.7	54.8	61.1	60.9	58.2	54	49.4	46.1	44.1	41.2	36.3	29.7
30.5	28.5	52.6	60.4	59.9	58	56.1	49.4	46.3	44	41.3	36.6	30.2
31.4	28.4	52	60.4	59.4	61.5	60.3	48.4	46.6	44.3	41.4	36.6	30
31.7	28.4	51.6	60.7	58.9	61.4	57.8	48.6	46.7	45.4	42.7	38.7	31.4
32.6	29.2	50.2	60.1	59.5	60.5	56.2	49	47.1	45.4	42.6	38.7	31.7
34.4	31	49.9	58.6	59.8	60	56.1	50.1	47.6	46.1	43.8	40.9	32.6
35.1	30.7	51.2	59.1	59.8	59.6	55.3	52	49.1	47.6	44.9	41.5	34.4
35.7	31.7	52.1	60.8	60.7	60.4	55.5	50.5	49.2	47.9	44.6	41.3	34.7
46.5	45.2	53.3	60.2	60.6	58.2	54.6	49.7	48.9	47.6	44.5	41.2	35.5
47.4	45.9	52.3	59.3	59.8	58	53.7	49.8	49	48.1	45.5	40.9	36.4
48.5	46.8	52.2	57.3	59.4	58.4	53.2	48.8	49.7	49.1	46.3	40.7	45.3
45.3	43.4	53.2	56.8	58.8	58.6	53.6	48.5	48.8	48.7	46.2	40.9	41.7
41.8	39.4	51.5	56.2	58.6	58.5	53.3	48.8	48.7	48.3	46	40.8	40.5
45	37	51.5	56.2	59.1	62.5	59.1	50.2	50.2	50.8	49.9	46.9	41.8
50.1	40	52	57.2	59.6	64.3	60.5	57	59.4	56.9	54.2	50.7	45
50.2	40.3	51.1	59.9	60	63.4	62.3	60.7	62.5	59.9	57.4	54	49.6
49.7	40.5	52	61	61.9	63.6	63.6	61.6	64.4	60.1	57.3	53.9	49.5
49.7	40.3	53.3	63	62.5	63.3	64.2	62.2	62	60.6	56	52.8	47.8
48.7	37.8	53.4	64	65.6	62.9	63.3	59.9	60.5	58.2	54.5	51.6	45.7
45.7	35.3	55	65.5	66.2	69.7	60.7	57.4	58.1	55.9	52.2	50.5	43.7
43.7	35.2	58.7	66.2	66.2	67.8	58.3	55	55.2	54.1	51.1	49.5	42.6
44.9	35.8	59.9	64.5	65.4	64.9	57.4	52.9	52.9	52.2	50.7	49.4	42.5
43.2	34.5	57.2	62.6	66.1	63.2	56.3	51.6	51.2	50.6	48.2	50.7	40.7
40.7	32.6	55.9	61	66	62.6	55.3	51.9	50.5	49.8	47.3	47.5	38.9
40	32.4	54.9	59.4	63.6	65.1	54.8	52.9	49.9	48.9	46	45.8	39.2
39.4	31.8	54.4	57	62.9	64.6	53.9	52.4	55	57.1	57.4	46.7	36.5
36.5	30.1	54	56.9	63.4	65.1	53.5	51.5	51.7	53.3	53.4	43.1	33.9
33.9	29.3	52.6	56.6	63.6	63.5	53.9	50.2	49.4	50.3	49.9	40.4	32.2
32.8	28.9	51	56.3	62.9	61.6	53.8	50.4	49.2	49.2	48.3	39.9	32.2
33.2	28.9	51.4	56.4	61.6	60.3	54.1	52.8	50.4	50	48	40.6	32.8
33.1	28.8	48.6	57	60.1	59.5	54.8	53.7	52.3	52.6	48	41.5	32.7
33.5	28.8	48.5	56.8	60.5	60.8	55	55.3	54.3	54.2	49.4	42.1	33
33.2	28.7	50.7	56.5	61.7	62	55.8	53.2	52.5	54.9	49.4	39.8	31.4
31.4	28.5	50.8	56.3	61.5	61.6	55.7	51.5	50.8	52.1	46.7	37.5	30
30	28.4	50.9	55.3	60.3	61.3	55.1	50	48.8	49.3	44.3	35.9	29
29	28.4	50.7	55.6	60	60.2	54.3	48.9	47.8	46.6	41.9	34.7	28.3
28.3	28.4	51.2	55.3	59.6	60	53.1	48.3	46.7	44.4	39.7	34.7	27.3
27.3	28.4	52.1	57	59.2	60	52.5	46.9	45.9	42.4	38.2	32.4	26.7
26.7	28.3	50.8	57.4	60.1	58.6	51.7	46	45.1	40.9	36.8	30.7	26.2
26.6	28.3	50.7	57.3	60.4	58.2	51.3	45.5	43.8	39.7	35.9	30.3	26.1

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
31.9	46.1	47.2	52.2	48.7	58.3	65.2	57.6	75.7	75.7	66.8	71.7	70.8	64.4	62.4
33.3	48.5	52.3	47.2	52.8	62.4	61.4	58.6	78.8	59.9	58.8	65.2	59.6	62.2	61
31.7	47.1	50.2	45.4	48.5	60.1	61.4	63.7	79.7	64.5	60.7	67.1	60.8	62.5	60.6
30.6	46.4	47.8	49.7	53	59.7	61	72.1	59.9	64.6	56.7	66.2	60.9	59.6	61.9
31.1	51.8	46.4	52	54.1	56.3	62.2	59.2	57.4	65.6	66.5	60.4	64.8	64.7	66.6
30.7	46.5	51.1	52	52.2	57.7	60.6	64	70.6	67.4	59.5	60.4	63.9	66.2	61
30.1	48.1	48.8	46.7	55	62.1	56.2	57.6	65.1	77.7	75.3	59.9	55.9	66.7	59.8
29.4	43.9	45.5	56	57.3	56	55.7	55.1	58.6	71.8	67.9	58.2	58.7	57.5	51.5
29.1	46.1	52.3	45.6	56.9	59.3	53.3	54.8	63.5	74.3	64.9	56.4	57.1	57.1	53.3
29	49.3	47.1	49.1	54.8	53.8	57.6	62.3	63.6	69.5	72.6	57.1	61	57.2	52.1
29	47.4	43.7	48.3	48.5	54.3	57.3	58.7	57	57.1	68.7	57.7	55.9	53.4	52.1
29.5	43.2	45.9	46	47.6	60.8	57.7	57.4	54.4	68.5	57.6	59.4	53.2	52.5	50.5
29.5	40.6	50.2	53.8	55.3	58.4	54.9	52.6	53.9	57.4	59.9	53.3	52.2	52.8	53.3
29.3	53.2	46.5	54.3	54.4	54	55.4	61	61.2	60.8	63.9	54.7	56.3	52.8	53.4
29.3	44.1	58	49.4	50.5	51.6	55.6	63.8	58.1	58.8	64.3	56.6	52.7	56.5	53.5
29.2	59.7	54.3	49.1	53.4	53.3	54.8	56.1	53.5	53.6	61.1	56.5	56.1	55.8	54.8
28.9	52.4	50.8	53.5	50.8	47.9	54.8	56.2	55.9	54	55	62	64.1	57.4	54.5
28.8	50.8	49	44.1	50.5	51.2	55.1	59.3	54.8	53.3	51.9	57.7	56.7	51.3	57.2
28.5	51.2	47.4	45	55.3	52.2	55.7	59.8	58.9	58.5	53.9	54.9	59.1	51.4	56.6
28.4	48.3	49.1	47.8	53.8	54.2	55.2	51.8	54	58.5	55	54.1	56.1	53.5	54.5
28.4	50.1	49.5	46.6	50.5	54.1	53.8	53.4	58.7	59.4	53.7	51.6	57.5	52.1	56.3
28.4	51.5	48.9	49.1	52.9	53.8	53.3	58.6	59.8	57.7	56.8	53.1	52.8	50.9	48.7
28.5	49.4	47.9	46	49.9	52.2	54.3	54.5	56.5	57	53	52.2	51.8	50.2	48.3
28.5	48.3	45.3	50.1	48.1	54.6	57.7	56.9	55.6	52.2	54.1	51.3	51.4	48.8	49.7
28.5	47.8	48.6	51.7	54.7	55.9	50.3	58.2	57.4	54.2	52.6	51.6	51	49.6	48.7
28.4	48.5	50.7	44.3	51.9	53.9	54.1	55.8	54	56.2	55.7	52.7	52.6	50.2	48.5
28.4	50.6	53.1	50.4	53.9	51	53.7	55.8	54.4	56.6	55.1	53.2	51.8	51.3	49.1
28.4	53.6	49.4	52	52.3	54.2	57.7	54	55.6	59.3	54.9	55.5	53.1	52.1	49.1
28.5	47.3	56.6	54.8	53.4	50	52.3	53.7	56.5	59.4	58.3	60.1	56.1	52.6	51.9
28.5	57.6	56.6	53.1	47	55.3	54.1	56.2	54	57.4	59.7	62.5	55.5	50.9	54.2
28.6	59.5	54.4	43.9	55	55.5	55.2	57.3	56.8	61.4	62.2	63.7	65.3	56.8	53.9
28.7	53.1	55.5	53	53.5	59.1	68.6	70.7	64.5	63	64.4	56.2	55.6	51.7	51.5
28.8	52.7	50.8	49.1	61.2	57.1	61.8	60.6	58.1	64.2	62.7	54.7	54.9	53.6	53.1
28.9	51.1	50.4	60.1	59.7	58.9	54.1	57.5	61.5	67	61.9	56	58	56.1	52.2
31.5	45.6	54.2	56	54.6	55.8	54.8	59.2	62.2	66.7	58.4	55.3	58	55.6	53.6
34.6	45.4	53.5	50.7	56.9	53.1	57	60.2	58.4	65.8	60.9	55.3	63.1	56.1	55.9
34	50.3	42.9	51.2	51	54.7	53.6	63	61	69.1	57.5	59.3	63.7	58.4	56.5
33.5	50.2	50.5	51.1	49	50.6	60.2	60.3	61.6	64.7	58.1	52.4	61.4	56.4	54.2
34.3	50.4	47.2	56.3	52.9	58.7	60.4	57	56.5	57.1	65.1	67.4	62.5	59.4	56.3
35.4	49.7	52.5	57.4	52.9	55.7	68.7	70.4	67.4	64.2	58.5	62.7	70	51.9	57.5
35	54	57.9	51.7	63.8	61.5	61.5	57.3	55.3	57.8	51.9	61.6	76.5	54.8	53.4
32.3	55.5	50.6	58.4	57.6	59.7	54.7	59.6	55.4	61.2	53.9	55.5	68.9	62.4	55.4
30.4	47.4	53.5	50.7	51.2	58.5	59.2	57.3	62.3	63.2	56.4	53.2	61.1	50.9	53.5
29.4	50.9	53.7	44.4	55.2	60.4	57.2	56.8	56	56.2	53.1	54.4	53.6	49.7	50.9
28.8	50.7	44.5	48.7	51.2	54.5	58.1	58.3	54.8	52.6	55	56.6	55.3	51.1	49.5
28.5	46.1	46.3	49.6	48.9	55.1	57.1	56.6	57.3	54.6	56.8	50.6	51.7	51.6	50.1
28.4	44.8	49.4	44.2	51.1	51	52.9	54.1	58	55.3	55	51.3	52.4	52	48
28.6	43.7	41.3	44.4	52.5	52.6	52.7	57.6	57.7	54.2	54.6	53	52.6	49.5	47.7
28.6	45.6	45.4	40.7	46.7	56	54.1	55.9	54.3	53.1	53.6	53	53.7	48.5	49
28.4	47.4	44.8	43.1	44.4	55.8	55.7	54.2	56.9	56.3	53.4	51.4	56.2	48.6	49
28.3	49.9	49.5	45.6	53.1	50.9	55.8	56.2	55.2	56.6	54.2	53	54.8	47.1	47.2
28.3	51.5	42	43.2	51	50.5	55.8	53.8	55.5	57.1	54.4	52.3	54.1	48	49.8
28.3	44.2	46	50.9	51.2	51.7	51.7	54.3	55.5	54.8	55.2	52.1	54.2	47.5	50.1
28.4	47.2	52.6	47.7	48.7	52.6	54.5	55	53.6	55.1	52.7	52.8	54	50.7	50.2
28.4	51.6	49.9	47.4	50.5	52.7	50.9	57.1	55.6	53.8	56	55.5	56.1	48.7	50.5
28.3	50	47	45.8	44.8	52.4	52.2	55.8	52.9	53	55.2	56.7	60.8	51.9	52.1
28.4	50.5	49	43.6	48.7	52.1	59.9	68.8	61.5	57.8	60	54.9	55.4	53.5	45.9
28.3	46.7	43.4	44.4	56	61.9	66.2	59.6	55.6	54.2	53	53.1	55.9	54.5	48.2
28.5	42.9	40.1	56.6	62.9	51.6	52.2	54.3	52.6	52.4	52.8	52.6	52.1	50.5	50.2
28.4	44.2	51.7	47.4	48.7	52.9	54.3	52.5	55.8	54.4	55	50.2	61	58.3	49.8
28.3	47.5	52.6	40.2	56.5	55.7	50.5	54.1	51.9	55.6	56.8	53.1	63.7	60.9	48.9
28.4	44	45.4	46	58.5	58	56	53.9	55.3	54.7	55.4	51.3	57.2	54.5	48.6
28.4	46.9	50.5	45.6	55.2	58.4	57.1	52.1	56.1	57.2	51.4	53.5	57.2	50.8	50.3
29.3	42.2	42.6	47.9	48.7	52.5	54.9	55.7	58.3	56.6	55.7	54.1	56.7	50.8	53.2
30.2	49.7	38.2	43.9	52.9	55.6	53.7	56.2	55.8	58.2	55.4	51.5	58.7	51.7	50.9
29.9	41.2	49.5	50.5	57.1	58	58.9	54.6	54.5	60.5	54.4	54.4	58.6	51.1	52
31.1	46.7	46.2	51.6	56.8	55.7	57	56.7	53.6	57.3	52.1	51.7	52.9	50.9	48.7
45	47.9	50.5	47.3	53.9	57.5	53.9	55.9	53.7	55.5	54.6	53.8	51.4	49.5	49.8
43.4	46.1	53	47.2	51	53.9	54.7	56.4	54.6	52.7	55.8	53.9	52.9	50.2	48
39.4	42.6	45.9	53.5	49.4	51.3	53.6	53.5	53.5	54.9	56.1	53.8	55.7	51.5	50.2
36.6	46.7	48.3	47.8	50.1	49.3	54.6	58.1	51.7	51.4	54.8	53.1	58.8	57.2	50.4
36.3	47.9	48.9	49.5	49	50.1	52.1	56.2	54	56.6	55.9	61	61.1	56	59.3
37	40.9	46.2	48.7	52.2	52.4	53.1	53.6	55.2	58.3	54.3	60.6	63.7	57.6	58.5
40	42.1	48	41.7	53.2	57.7	53	53.7	58.5	57.9	53.5	55.2	62.7	59.4	57.5
40.2	47.3	46.2	48.6	55.6	58.8	58.2	57.6	57.3	57.7	58.1	56	64.3	62.4	55.4
37.9	48.8	47	51.2	55.9	60.1	60.5	64.3	61.2	59.9	57.1	56.6	56.7	63.9	57.1
35.3	47.4	45.9	50	58.5	57.1	61.5	63.8	61.8	63.8	59.1	55.9	70.6	59.3	55.1
34.7	50.1	49.9	53.5	60.5	62.9	59.4	63.3	63.6	60.8	55.7	59.1	71.3	54.3	52.1
34	48.7	48.3	55.8	62	63.7	62.8	61.6	57.7	63.6	56.8	60.5	63.1	53.3	49.6
34	49.7	50.7	59.5	64.5	63	61.2	59.2	59.5	62.6	59	57.6	58.6	51.9	51.5
32.6	53.9	56	52.4	58.7	55	58.4	57.8	67.3	62	55	57.7	55.6	54.4	49.6
31.4	50	58.6	53.2	50.8	56.4	54.4	54.5	65.5	62.8	61.3	57.7	57.9	52.6	48.7
31.9	51.5	51.5	51.4	56.6	55.4	55.7	55.5	52.8	58.4	56.1	65.7	56.8	51.1	49.2
30.2	45.8	49.3	52.6	54.9	51.4	52.2	53.1	58	57.9	55.6	62.6	55.9	50.6	50.2
29.2	47.3	48.6	49.9	49.9	49.5	53.6	55.8	61.5	57.8	54.5	65.6	56.8	50.5	49.7
28.8	43	50.1	50.9	49.4	53.3	54.4	63.1	57.4	57.2	55.1	57.4	55.8	50.2	48.9
28.7	48	49	48.7	44.9	52.7	54.5	54.8	58.4	59.9	54.2	57.6	56.4	50.9	48.1
28.8	45.5	44.6	48.4	49	46.1	55.1	58.6	55	57.9	55.6	52	52.8	53.5	47.1
28.7	45.6	42.5	46.5	49.7	56.7	53.3	56.8	55.1	57.1	55.6	53.5	56.9	52.3	48.4
28.7	46.6	49.1	46.5	49.3	51.3	54.2	57.1	55	57.9	58.3	60.6	55.3	51.9	54.5
28.5	41.1	40.9	47.8	48.2	54	54.7	57.1	61.1	57.3	59.1	56.8	60	53	48.9
28.4	37.7	42.1	48.6	49.4	48.5	50.8	55.4	60.3	53.8	54.7	51.8	60.8	54.2	50
28.3	49	45.8	48.5	49	54.3	53.6	52.7	55.9	56.1	54.1	52.2	56.9	53.8	48
28.3	43.8	46.5	48.2	49.3	48.3	49	55.9	56.5	54.6	55.5	51.5	56.5	52	48.3
28.4	44	42.2	47.3	46.9	54.9	51	56.8	51.5	56.1	54.6	52.8	58.5	48.4	46.8
28.3	42.4	48	48.1	48.1	49.5	54.9	55.5	54.6	53.3	54.2	54.4	57.4	49	47.5
28.3	46.9	45.4	49.5	49.2	55.9	54.9	57.2	56.1	56.6	54.3	53	52.5	48.5	48.2
28.2	47.8	49.7	43.4	49.2	52.9	56.3	56.4	56.7	54.7	54.1	53.3	49.3	49	45.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
62.6	55.2	56.1	53.1	51.1	51	49.4	51.1	55.7	50.5	53	52	52	48.8	46.6	45.4
60.6	56.6	56.5	53.3	53	50.5	50.1	52	54.3	50.5	52.7	51	51.3	48.6	46.3	44.3
60.1	54.2	51.2	52.2	52	51.4	49.3	50.9	50	48	47.7	45.9	46.5	44	41.7	39.4
59.1	55.3	51.9	50.6	53	50.5	48.5	48.8	48.1	45.7	45.2	44.9	43.9	43	41.1	38.7
58.6	54.5	59.4	54.2	54.4	51.7	48.8	50.2	50.7	46.9	46.3	45.4	46.2	44.1	40.6	39.1
59.5	55.4	60.8	56.3	56	54	48.9	50.7	51.8	49.1	48.3	46.4	47.1	45.9	43.1	41.1
58.9	54.6	61.2	53.3	53	51.6	48.9	49.2	49.1	48.6	47.6	47.1	46.8	44	42.2	40.4
53.9	53.8	59.1	51.2	47	46.9	46.7	46.9	46	45.8	46.9	43.5	42.7	41.7	38.3	36.6
50.7	51.6	53	47	46.6	47	45.2	44	43.5	42	42.4	40.8	39.4	38	35.1	33.9
54.1	49.8	52.8	46.7	46.2	45.9	44.4	44.2	43.6	42.6	44	41.7	41.1	39.6	36.5	33.7
51.7	48.7	46.6	46	46.8	47	44.6	44.8	43.7	43	44.8	44.2	43.5	41.6	39.2	36.2
51.5	48.4	47.2	45.9	47.7	49.6	45.7	46.3	43.8	44	45.4	43.7	42.1	41.4	38.9	35.9
50.7	49.9	47.5	48.1	48	47.2	43.7	44.7	43.1	42.8	43.6	41.6	40.9	40.2	37.9	34.3
50.9	50.5	48.4	48.1	47.2	47.2	44.6	45	45.4	45	43.9	44.3	41.9	40.6	38.5	35
50.4	52.3	48.4	48.8	49.1	48.2	47.6	48	48.5	46.7	46.7	45.4	43.6	41.4	39.4	37
60	50.3	48.6	48.4	48.9	49.5	51.1	48.7	48.6	46.2	45	43.5	43.8	41.3	38.9	36.1
58.8	48.8	47.6	46.6	48.3	48.8	47.5	49.7	47.2	46.3	44.8	42.7	41.4	39.7	37.2	34
52	50.1	47.8	47.7	48.4	47.8	47.6	48.1	51.1	47.9	47.7	45.4	42.8	41.7	39.9	36.8
56.5	48.2	48	46.8	48.4	48.1	47	47.6	49.1	47.1	46.2	44.5	41.9	37.7	35.2	31.7
50.2	46.3	47	46.5	46.7	46.9	45.4	47.1	45.9	44	43.7	43.4	38.5	34.9	33	29.3
49.8	46.7	45.5	43.5	45.8	45.2	43.8	45.5	41.9	40	41.5	40.6	36.9	34.5	32	28.3
51.2	46.1	45.1	43	46.3	44	42.8	41.7	43.9	42.2	41	41.2	35.8	33.3	30.4	28.1
52.5	47.1	41.5	44.2	45.1	42.7	44.7	39.6	39.7	38.2	37.5	36.2	32.5	30.8	28.5	25.1
50.6	46.4	42.6	44.3	43.2	44.1	40.6	40	39.2	38.5	37.4	35.5	33.1	31	28.5	25.6
50.2	43.3	42	43.4	43.7	43.1	41.8	40	40.6	39.3	37.4	35.9	35.4	33.4	29.8	26.6
51.8	44.9	44.4	43.5	44.8	43.8	42	42.8	42.6	41.4	38.4	36.5	35.4	33.7	30.9	27.8
52.4	45.7	44.6	43.7	45.9	46	42.7	42.8	42.9	40.3	40.1	39.1	38	35.3	32.2	28.9
52.6	47.9	46	45.3	45.7	49.8	44.7	44.7	44.7	42.2	42	41.8	39.5	36.8	34.3	31.7
54.6	47.9	48	45.5	45.8	46.7	45.7	45.5	44.9	45.2	43.6	43.1	41.7	39.9	36.5	33
53.7	47.3	48.5	47	45.5	49.2	47	47.1	46.4	46.4	45.6	46.4	45.9	42.5	39.4	35.9
56.3	48.6	50.3	49.5	50.6	46.8	48.1	47.8	47	46.5	45.1	43.4	42.7	40.4	38	35.1
54.9	50.3	49.7	47.7	47.2	47.7	47.1	47.4	49.3	49.9	46.4	46.1	44.3	42.1	40.5	36.1
52.7	49.4	49.3	48.8	48.3	47.3	47.2	47.3	48	46.6	45.1	43.1	41	39.4	37.3	34.4
52	48.5	49.9	48.4	48.2	50.1	48.4	47.6	48.4	45.7	45.1	44.2	42.3	41.5	41.6	39.5
52.9	48.3	48.8	48.2	51.6	48.9	50.9	48.9	48.8	46.1	45.4	45.3	43.4	42.4	44.6	42.5
53.2	48.5	49.7	49.6	50	46.9	46.5	47.8	48	45.6	44.8	45.7	42.2	43.1	44.8	42.6
51.3	54.7	49.5	49.3	49.7	49	48.1	50.4	46.7	45.2	44.6	43.4	40.2	41.3	42.3	40.5
51.6	55.2	50.9	47.5	49	50.1	45.7	48.8	48.5	45.4	46.7	46.2	43.9	45.4	44.2	42.1
56.9	51.9	52	51.9	50.9	52	48.8	48.3	50	48.8	49.6	49.2	47.9	49.1	47.4	44.9
57.6	54.3	51.7	57.8	52.3	48.6	50.4	49	49.9	48.9	49.3	48.6	48.7	50.1	47.6	46.6
62.6	51.3	56.8	61.5	54.9	51.2	50.2	49.3	50.4	48.9	48.9	47.3	45.8	46.8	45.3	43.8
57.3	55.8	54.7	54.9	51.3	48.3	48.2	47.7	47.9	46.6	45	43.3	41.1	41.3	38.8	36.9
54	53.1	51	49.8	46.3	46.7	45.5	45.8	46.6	45.7	44.2	42	39.5	38.3	36.3	34.1
50.2	48	49.2	44.8	43.1	46.5	43.5	44.7	46.2	44.2	42.8	39.1	39.1	37.5	36.9	32.9
49.7	45.5	48.1	44.9	42.6	43.7	42.8	42	44.9	41.3	41	37.1	38.8	36.9	31.2	30
48.9	44.2	47.2	42.5	40.9	42.5	38.9	39.2	38.9	38.3	36.4	35.1	33.1	32.2	30.4	29
48.4	43.2	44.6	40.3	40.6	41.2	38.9	40.3	38.3	36.5	35.6	34.2	32.8	31.4	30.7	29.4
48.4	43.3	46	45.8	39.6	41.7	37.2	38.4	38.5	36.5	35.8	34.2	32.4	32.2	31.9	31.3
46.4	41.2	43.7	42	39.1	41.3	37.1	36.7	36.5	34.8	34.4	32.3	30.4	31.5	28.8	29.4
46.7	40.6	42.7	41.4	38.8	40.5	37.9	38.5	36.6	35.5	33.6	32.3	30.8	30	29	28.5
45.4	43.9	43.8	40.6	39.3	40.4	39.7	37.4	35.9	34.2	32.6	31.8	29.6	28.5	27	24.9
45.9	43.7	43.7	39.8	40.2	41.4	38.1	36.9	35.2	33.8	32.6	31.1	28.9	28.2	27.2	28.1
46.4	42.8	43.7	40.9	39.6	41	38.2	37.5	35.5	34.2	33.6	31.3	29.9	28.8	28.5	28.9
43.8	41.5	42.6	41.7	39.4	41.7	38.2	37.7	37	35	35.4	33.7	32.5	31.9	31.2	29.4
45	43.9	43.4	39.3	40.9	41.6	39.8	38.7	37.3	35.5	34.5	33	30.8	29.6	28.2	25.5
46.1	48	45.9	44.8	45.1	43.1	44.5	44.1	41.2	40.1	37.4	38.7	41.3	36.1	32.5	31.6
46	44.7	43.2	39.7	40.4	42	40.2	41.4	40.3	37.2	37	36.3	34.2	33.3	31.7	30.2
46.1	46.9	44.3	40.3	41.5	41.2	41	39.7	38.4	37.7	37.5	36.2	33.9	32.6	30.3	28
47.3	50.4	44.1	40.8	40.9	42.5	41.7	40.3	39.6	38.4	38.2	37.6	35.9	33.9	31.7	30.8
47.9	44.9	44.7	40.4	41.9	43.4	40.2	40.2	39.3	38.1	37.2	37	34.8	34	31.8	29.8
48.9	43.7	42.8	42.3	41.7	43.4	40.7	41.4	40.2	42.2	39	38.6	37.2	36.7	33.2	32.1
49.6	44.4	44.1	45.6	43.4	43.4	40.8	41.4	40.7	41.1	39	38.6	38.4	36.4	33.8	32.1
47.7	43.7	45.7	45.9	43.6	42.8	41.5	41.9	41.2	41.2	39.1	37.3	40	38	34.7	35
46.1	47.9	49.6	45.5	45.3	44.3	44.5	44.4	43.1	42.7	41.1	39.3	42.4	41.2	36.1	35.4
48.4	49.4	46.2	47.2	45.2	43.5	45.2	44.5	43.7	43.9	41.6	40.2	39.3	37.8	36.2	35.2
51.6	44.4	45.5	45.7	45.5	44.3	43.5	43.7	42.9	42.1	40.1	39.9	38.1	37.7	35.5	34.4
43.3	43.6	44.9	44.9	44.3	44.7	43.9	43.2	43	43.7	41.7	41.7	39.6	38.4	35.8	34.6
44.5	45.3	45.8	47.3	45	45.8	48.1	47.9	47.4	46.5	46.5	43.8	40.5	38.3	35.9	34.2
46.2	44.2	41.8	42.4	43.2	44.9	45	43.5	43	42.5	41.4	40.7	38.9	37.7	34.9	34.3
46.3	44.8	44.4	41.2	42.9	43.5	43.2	43.4	44	44.2	42.8	41.4	40	38.7	34.9	33.6
45.6	46.1	46.9	45.1	45.8	44.7	45.9	46.2	46.1	46.4	45.3	45.7	46	45.2	41.9	40
52.6	52.6	51.8	53.3	54.8	54.1	56.3	54.2	52.3	52.1	50.7	50.5	50	48.8	46.6	44.6
55	58.5	55.4	56.3	60.2	57	60.6	57.5	56.2	55.1	54.3	53.8	53.6	51.9	49.9	48.8
61.6	57	55.1	59.4	65.3	58.1	59.4	56.9	55.1	53.8	53.7	52.6	51.4	50.6	49.4	47.9
59.4	61.1	54.7	54	60.7	57.8	58.3	59.3	57	56	53.3	52.7	50.9	50.9	49.6	48.7
55.6	61.9	54.4	52.2	53.9	54.2	56.2	57.6	54.9	53.2	51	51.3	49.6	48.5	47.4	46
54.6	52.2	54.5	50.5	56.9	52.3	53.6	52	50.8	49.3	48	49.5	49.8	47.5	46.8	43.5
50.2	50.7	51.6	49.1	53	50	51	50.3	49.2	47.1	45.4	45.5	44	45.5	46.4	40.6
48.4	49.8	48.6	46.9	46.4	47.7	48.3	48.7	48	47.6	46.1	45.4	45.2	45.3	44.9	41.2
47.8	47.2	47.1	45.5	43.8	46.1	46.4	45.7	46	44.9	45.4	46.5	50	48.3	53.6	44.2
46.3	46.7	47	43.4	45.3	45.4	45.1	45.7	44.3	42.4	41.2	40.1	38.6	39.2	40.4	37.6
47.5	49.4	51.6	44.1	43.9	45.1	45.6	45.2	44	44.2	43.7	41	40	38.8	38.8	36.6
47.7	49.4	49.7	43.4	56.3	57.7	44.7	53.2	60	56.4	61.5	58.2	52.4	50.5	43.2	39.8
45.2	47.9	50	42.3	40.8	43.9	43.6	43.6	42	40.7	40.1	38.9	36.1	35.7	36.1	33.5
47.7	47.8	47.3	41.3	40.6	43	42.7	41.3	41	39.6	38.4	36.5	37	32.9	31.7	30.1
49.1	45.7	43.6	43.9	43.1	42.6	41	41.4	41.8	40.4	39.8	39	36.6	33.6	32.5	30.7
49.9	45.8	50.6	46.3	44.8	46.2	46.1	45.9	44.5	42.6	43.6	41.6	40	37.4	35.2	33
47.7	52.5	49.4	46.1	47	49.4	49.2	49.7	50.4	45.6	45.4	42	41.3	39.1	36.5	34
49.2	50.2	52.6	50.8	50.3	49	50.7	50.7	50.4	47.9	47.6	43	42.6	39.8	37.5	33.9
49.6	52	51	50.4	49.3	49.6	50.4	51.8	52.7	49.9	49.8	45.1	43.4	39.8	36.8	34
47.6	47	47.2	45.1	46.3	45.8	47.6	49.7	50.9	48.6	47.1	42.7	38.6	34.6	32.5	29.2
47.7	44.8	46.2	44.4	45.1	43.4	45.2	45.8	45.2	43.4	41.9	38.6	34.5	31.4	30.4	27.8
45.5	44.9	44.4	41	41.7	46	40.8	41.8	41.3	40.2	39.2	36.4	33.8	31.9	28.7	27.5
46	45.8	42.9	40.4	41.1	42.7	39.8	38.9	39.8	38.9	36.6	34.5	32.1	35.5	32.1	26.5
44.9	44.1	43.2	40	40.8	41.9	39.3	38.5	38.4	35.2	34.9	32.9	30.4	28.7	26.6	24.1
43.8	42.1	41.7	39.3	40.3	42.1	38.1	37.5	35.9	34.1	34.6	31.8	29.3	27	24.8	22.7
42.2	41.6	40	39.3	39.4	41.7	37.1	36.1	35.3	33.5	32.5	30.8	28.6	26.2	24.2	22
42.9	42.1	41.4	37.2	38.2	39.8	35.9	35.7	34.1	32.5	32.4	30.8	28.4	27.1	25.3	23.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
41.1	38.4	35.3	31.4	28.7	26	48.9	50.8	51.7	48.6	57.6	64.1	59.8
40.5	37.3	34.1	30.6	27.9	25.6	48.3	52	51.1	52.1	61.5	63.5	59.1
35.7	32.4	30.2	27	25.4	24.8	47.9	52.7	49.5	51.9	61.7	62.4	63.4
37.5	36.2	32.7	28.9	26.1	25	47.7	50.5	49.6	52.3	60	62.1	71.1
36.4	33.2	30.8	26.7	24.6	24.5	50.9	49	51	54	60.1	62.3	69.5
38.5	34.4	31.9	27.1	24.7	24.8	50.8	50.6	53.1	53.4	58.2	62	66.2
37.6	33.3	30.4	25.9	24.3	24.6	49.1	50.1	50.8	54.8	61.3	60.8	64.5
34	29.7	27.7	24.3	23.8	24.5	48.1	48.9	54.8	56.9	61.4	58.3	61.5
31.7	29.5	26.8	24.2	23.7	24.5	46.3	51.4	54.7	57.6	59.2	56.9	58.8
32.2	30.4	27.7	24.2	23.9	24.5	48.5	51	51.1	56.8	59.2	57.2	61.6
33.3	32.1	29.9	25.4	24.1	24.6	49.1	48.4	50.2	55.3	56.6	58.2	60.1
34.6	33.7	31.9	26.4	24.6	24.6	47.1	46.7	48.9	52.6	60.3	57.8	59.6
32.8	31.6	28.9	25	24	24.6	44.9	49.2	53	54	60.2	57.1	58.1
32.7	30.2	27.5	24.5	24	24.5	51.6	48.8	54.5	54.5	58.3	56	60
34.4	31.6	28.3	25	24	24.6	51.6	56.6	53.4	54.1	56	56.6	63.8
33.5	31.5	28.1	24.7	23.9	24.5	58	56.4	51.5	53.5	54.3	56.3	61.8
31.8	28.5	25.8	23.8	23.7	24.4	57.9	55	53.4	53.9	53.4	55.5	59
34.4	30.7	26.4	23.9	23.5	24.5	55.3	52.8	51.9	51.3	51.9	55.9	59.3
28.3	26	23.4	22.9	23.6	24.5	53.4	51.3	48.7	54.5	52	55.7	60
24.5	23.2	22.2	22.9	23.6	24.4	51.4	49.4	48	54.4	54.2	55.6	59.5
24.7	24.3	22.5	22.7	23.6	24.4	50.4	49.8	48	53.9	55.4	55.6	56.4
29.3	28.8	25	23.4	23.7	24.5	51.7	49.5	49	52.8	54.2	54.4	57.6
23.9	23.8	22.8	23	23.6	24.4	50.6	49.9	48.3	52.6	53.7	54.7	57.2
24.2	23.4	22.7	23	23.7	24.5	50.3	48.7	49.5	51	54.4	56.9	56.8
24.8	24	22.7	22.9	23.5	24.5	49.4	48.6	51.4	53.7	55.7	56.5	58
25.9	25.3	22.9	22.8	23.6	24.4	48.7	50.2	51.5	53.3	55.8	54.4	58.1
26.6	24.9	22.8	22.8	23.5	24.4	50.3	52.6	50.2	53.9	54.3	54.9	56.9
30	27.7	24	23.2	23.7	24.5	53.1	52.8	51.7	53.9	54	57.1	55.6
30.7	27.6	24.7	23.3	23.7	24.5	52.5	55.2	53.9	53.3	53.9	57	54.8
33.9	30.4	27.7	23.6	23.6	24.5	56.1	56.4	53.7	53.1	54.7	55.1	55.9
31.2	28.2	25.7	23.8	23.7	24.5	59.2	56.1	53.2	54.4	55.6	55.1	57.2
32.6	29.2	26.4	24	23.9	24.4	57.9	57.1	52.3	54.2	58.6	67.7	69.9
31.1	28	25.8	24.1	24	24.5	55.3	54.8	52.3	60.7	57.6	67.9	68.9
35.5	33.2	31.5	29.3	26	25.4	54	52.7	58.5	61.3	59.6	64.7	65.7
38.5	36.8	34.9	33.6	29.1	26.9	52.5	54.2	58.4	59.8	57.7	61.1	62.3
38.9	37.2	35.2	34	29.4	27	49.5	55	56.9	57.9	56.9	58.4	60.9
36.6	34.7	32.6	31	26.3	25.7	49.6	53.1	54.5	56.9	55.5	57.9	62.6
40.6	38.4	35.4	32.1	27.7	25.2	50.7	50.8	53.1	54	54.5	59.2	62.5
43.4	41.2	37.8	33.7	29.7	25.6	50.6	50	55.6	52.8	57.3	60.6	61.1
44.6	42.5	38.8	35.1	31.4	26.8	50.9	52.2	57.4	53.1	58.3	68	70
41.9	39.5	35.8	31.9	28.3	25.4	53.4	56.5	56.4	63.2	60.5	67.9	68.3
34.8	32.1	27.8	25.3	24.1	24.5	55.6	56.5	57.9	63.4	60.7	65	64.5
31.3	28	25.2	23.6	23.7	24.5	54	53.9	56.5	60.3	60.3	61.7	62.3
29.4	26.3	23.8	23.3	23.7	24.5	51.7	54.6	53.9	56.7	60.4	60	60.8
27.5	23.7	22.4	22.6	23.5	24.5	51.4	53.4	50.4	55.8	59.8	58.7	58.8
26.3	23	22.2	22.6	23.5	24.6	51.5	50.1	50.6	53.3	57.7	58.5	58.3
27.8	24.6	23.2	23	23.6	24.6	48.4	49.3	49.4	51.9	55.7	57.3	57.3
30.4	27.2	25.5	24.8	24.5	24.7	46.9	49.1	46.9	52.1	53.8	55.3	57
28.4	23.9	21.8	22.8	23.6	24.6	45.7	45.8	45.3	51.9	55.4	54.2	57
26.2	22.9	21.9	22.6	23.4	24.3	47.4	45.8	43.5	49.2	55.8	55.7	56.6
23.1	22.3	21.9	22.6	23.4	24.5	49.7	48.2	45.8	52.4	55.5	56.8	56.4
26	22.6	21.9	22.7	23.4	24.5	50.9	48.2	44.7	52.5	53.6	56	55.6
27.3	23.2	22.1	22.7	23.6	24.5	50.9	46.3	49.8	52	53.4	55.7	54.8
27.3	23.3	22	22.7	23.6	24.7	48.6	51.5	50.6	51	52.3	54.6	55.2
23.4	21.7	21.9	22.7	23.6	24.4	50.7	51.4	48.1	51.1	52.8	54	56.2
29.6	26.2	23.2	23	23.5	24.5	50.3	50.5	47.8	50.2	52.7	52.8	56.2
28	23.6	22.1	22.7	23.5	24.6	50.8	49.1	46.8	49	52.8	59.7	68.1
25.7	23.8	22.8	23.5	23.6	24.6	50.4	48.8	46.2	55.8	61.2	66.1	67.7
29	24.6	22.6	22.8	23.9	24.7	48.6	46.2	55.4	62.4	61.1	63.3	64.4
27.9	23.9	22.2	22.8	23.5	24.4	45.9	51	54.3	59.9	57.4	59.6	60.7
29.8	25.5	22.6	22.7	23.5	24.6	46.9	53.2	51.1	56.8	56	56.9	57.4
29.6	25.9	22.8	22.8	23.6	24.6	46.2	51.2	47.6	58.4	57.9	55.7	55.5
30.5	27.2	23.1	23.1	25.3	25.2	46.4	50.3	46.5	58.5	58.7	56.9	54.8
33.5	28.6	24.6	23.4	29	27.2	46.2	50	47.6	56.3	57.8	57.3	55.1
33.2	29.8	25.3	24.1	26.4	25.3	48.4	46.8	47.6	54	56	55.5	56.1
32.8	29.7	29.6	29	24.6	24.6	48.1	49	50.1	56.6	57.6	57.9	55.8
33.4	32	47.8	46	24.9	24.9	46.5	49.5	51.2	58	56.6	58.6	56.9
32.3	29.5	48	45.1	24.1	24.7	47.8	49.5	51.2	56	58	56.7	56.4
33	29.3	45.2	41.5	24.1	24.5	47.9	52.3	49.4	54.7	56.8	56	56.6
32.9	30.5	26.2	24.8	24	24.6	46.6	51.6	52.5	53.5	54.9	54.8	56.2
38.9	35.8	32.4	30.1	26.1	25.2	46.2	49.3	51.6	51.1	53.5	55.1	57.7
43.3	40.5	37.5	35.6	29.2	26.3	47.9	50	50	50.4	50.9	54	57.3
49	46.1	42.5	39.6	33.4	28.2	46.6	48.6	49.8	51.5	51.9	53.5	56.2
46.8	44.4	41.5	38.9	33.2	28	44.5	48.2	49.1	53.4	56.9	53.5	54.7
47	44.5	41.6	39.4	32.5	28	46.1	48.7	48.5	54.7	58.1	56.8	56.9
44.9	41	37.9	34.3	28.3	25.8	48.6	47.3	50.5	55.9	59.5	60.1	63.1
42.8	38	33.7	29.8	26.8	25.1	47.9	47.3	51	58	59.3	61.1	63.8
38.7	35.9	33.8	32.3	29.1	26.2	49.6	49.4	52.9	60.2	62.2	61.6	64.8
39.4	36.4	33.5	30.8	27.7	25.5	49.6	49.9	55.1	61.6	63.9	62.5	62.9
40.7	39.7	35.3	33.2	29.1	26.8	49.7	50.6	58.2	63.8	63.7	62.3	62.6
35.9	32.4	30.2	27.8	25.6	25	53	54.6	58.2	63.8	63	62.1	60.6
34.1	32.7	31.5	27.6	25.3	24.7	52.7	57.8	55.1	61.1	59.7	60.1	59.2
36.5	34.6	34	29.4	26.2	24.9	52	57.6	54.4	58.2	57.7	57.4	57
30.8	26.6	24.6	23.7	23.6	24.5	51	54.7	53.2	57	56.4	56.5	56.2
28.8	24.8	23.1	23.1	23.7	24.4	48.4	52	52.7	55.3	53.8	54	56.2
28.4	24.7	23.6	23.4	23.8	24.6	47.6	50.6	51.7	52.7	53.1	55.5	62.2
30.8	27.1	25.1	23.9	23.8	24.5	48	50.3	51	50.7	53.8	54.4	60.7
31	27.4	25	23.8	23.7	24.5	48.6	49.1	49.2	48.9	52.4	55.5	59.1
29.9	26.9	24.7	23.9	23.6	24.5	46.5	46.7	48.8	50.1	55.4	54.7	58.1
31.3	27.8	25.2	23.6	23.7	24.5	47.7	48.4	47.4	49.6	55.1	54.4	57.8
27.1	24.7	22.8	22.8	23.6	24.5	46.1	47.6	48.1	50	54.3	55.1	57.5
25.6	23.6	22.4	22.9	23.6	24.5	43.6	44.7	49	49.6	53.9	55.1	57.2
25.1	22.4	21.9	22.5	23.6	24.4	47.7	45.2	49.9	49.6	53.6	54.2	56.1
24.5	22.4	21.9	22.5	23.6	24.5	47.8	46.7	49.5	50.2	53.2	52.9	55.7
22.7	21.5	21.7	22.6	23.4	24.6	45.9	45.5	48.1	49	54.3	51.5	57.2
21.4	21.2	21.9	22.7	23.5	24.4	44.2	46.7	48.9	48.6	53.8	54.8	56
20.8	21	21.7	22.6	23.5	24.4	46.1	46.8	49.7	49.2	54.6	55.2	57.6
22.6	21.4	21.8	22.6	23.6	24.4	47.4	49.1	48.5	50	54.5	56.1	56.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
74.6	75.8	73.7	70.9	69.9	63.9	61.3	62	55	55.7	52.5	50.5	50.8
77.7	74.3	70.6	69.8	69	64	61.5	61.4	56.3	56.9	53.2	52.5	50.8
79.4	70.3	66.8	67.7	65.7	63.1	61.8	61.1	56	55.9	53.1	52.3	51.3
78.8	67.8	64.1	67.9	63	62.5	61.8	60.5	55.4	53.7	52.3	53.2	51.2
74.6	66.2	66	66.5	64.5	64.3	65.6	59.9	55.2	58.2	53.4	54.2	51.5
71.5	67.6	65.7	63.8	64.7	65.7	65.2	60	55.3	60.5	55.7	55.5	53.4
71.6	75.8	74.1	61.7	63.6	66.7	63.1	59.4	55.9	61.2	55.6	55.5	53.3
68.2	75.5	74.3	61.3	60.4	66	60.7	58.7	54.6	60.6	54.2	53.8	51.9
64.8	74.3	70.8	58.9	59.7	62.5	57.2	56.1	54.4	59.2	52.4	50.8	49.4
64.2	74.4	71.5	57.6	60.9	60.1	55.3	54.3	52.7	56.3	49.8	48.6	48
64.2	71.4	71.3	58.4	60.1	58.5	53.5	53.9	51.2	54.6	48.1	47.4	47.3
60.9	68.5	69.7	59.3	58.1	56	52.6	52.9	49.7	51.4	46.8	47.9	49.1
58.2	68.1	65.9	58.4	55.7	54.2	52.8	51.6	49.7	49.3	47.9	48.4	49.2
60.6	64.4	63.9	56.1	55.9	53.5	53.6	51.3	50.5	48.8	48.4	47.7	48.3
61.2	63.1	64.4	56.5	55.8	55.6	53.8	51.3	52	48.6	48.6	48.6	48
58.8	60.3	64.1	56.8	55.9	56.1	54.6	58.9	51.8	48.7	49	49	49.1
56.7	57.6	62.3	60.8	63.2	56.9	55.1	60.2	50.8	48.6	48.5	49	49.4
56.4	55.6	59.1	60	61.3	56.7	56.6	58	50.1	48.1	47.8	48.8	48.9
58.4	58	56.2	58.5	59.6	54	57.2	56.6	49.9	48.4	48	49.1	49
58.2	58.9	55.6	56.7	59.1	53.3	56.3	56.1	48.9	48.3	47.7	48.1	47.9
58.2	59.5	54.6	55.4	58.5	53.4	57	53.5	47.8	47.3	46.5	47.3	47.4
60	58.6	56.6	54	57.2	52.9	55.2	51.7	46.8	46.2	44.9	46.6	46.1
58.5	58.2	55.7	53.4	55.3	51.4	52.5	52.5	47.2	45.6	44.2	46.3	44.9
57.6	57.5	54.5	52.9	53.8	50.8	50.6	51.9	47.1	43.6	44.7	45.6	44.6
57.7	55.2	54	52	52.6	50.2	49.9	51	46.5	43.1	43.9	44.5	43.9
56.6	56.3	55.4	52.8	52.4	50.2	49.3	51.9	45.3	43.8	44	44.6	43.7
55	57.3	55.7	53.3	52.7	51.2	49.3	52.2	45.6	44.5	43.8	45.9	45.4
55.4	59.1	55.8	55	52.9	52	49.3	52.7	47.3	45.7	45.3	45.8	48.7
56.3	59.6	57.8	59.4	55.2	52.5	51.5	54.2	47.7	47.3	45.6	46	48.2
56.2	59.4	59.1	61.6	56	52.3	53.6	54	48	48.3	46.8	45.8	48.8
56.6	61	61.8	63.7	64.8	56.3	54.5	55.5	48.3	49.6	48.9	50	48.5
63.5	62.5	63.9	63.6	64.1	55.5	53.2	55.7	49.8	49.9	48.5	48.9	47.7
62	63.8	64.1	60.3	60.8	54	53	54.8	49.9	49.9	48.6	48.3	47.6
61.2	66.3	63.4	57.7	58.5	55.7	53.3	53.6	49.5	49.8	49.1	48.5	49.5
61.9	66.9	62.2	56.9	58.4	55.5	53.4	53.3	48.9	49.9	48.4	50.6	49.7
61.5	66.6	61	56.6	62.3	56.4	55.2	53.5	48.8	49.8	49.7	50.5	49
61.2	68.3	60.7	59	63.3	58.2	56.5	52.8	53.5	49.7	49.6	50.6	49
61.7	68.3	58.7	57.6	63.5	58.2	55.9	52	55.3	50.6	48.8	50.1	50.2
60.5	66.2	64.1	66.3	63.1	59.8	56	56	54.7	51.8	50.7	50.6	51.3
66.7	64.8	63.8	66	69.3	58.5	57.1	57.7	54.6	51.8	56.2	52	51
64.7	63	61.1	64.7	75.1	55.6	56.9	61.8	53.6	55.9	60.4	54	50.8
61.2	61.6	57.5	62.4	74.8	61.7	55.5	61.4	54.7	56.1	60.4	53.8	50.7
61.9	62.7	56.6	59.4	71.9	60.4	55.6	59.1	55.3	54.9	57.6	52.3	49.3
61	62.1	55.9	56.7	68.1	56.9	54	56.4	53.4	52.8	54.3	49.5	47.9
58.7	59.5	55.2	56.4	64.1	53.9	52.3	53.6	50.8	51	50.8	46.6	46.8
58.4	56.5	56.9	56.3	60.7	52.4	51	51.6	48.3	49.3	48	44.5	45.1
58.2	55.8	56.4	53.6	57.3	52.5	50.3	50	46.3	48.1	45.5	42.8	43.7
58	55.6	55.5	53.3	55.2	51.8	49.1	49.3	44.5	46.4	45.9	41.4	42.4
57.3	54.9	55	53.1	54.2	50.4	49.5	48.6	44	46.4	45.7	40.6	42.1
56.7	55.5	54.6	52.9	55.7	49.5	49.2	47.4	42.1	44.8	43.6	39.5	41.7
56.4	56.4	54.5	53.2	56	48.8	49.1	46.9	43.4	44.3	42.4	39.5	40.9
56.2	57.3	54.6	53.4	55	48.6	49.5	46.4	43.8	44.1	41.6	40.3	41.3
55.6	57.2	55.1	52.3	54.8	48.1	50.6	46.4	43.5	43.8	41	39.9	41.6
55.5	55.8	55.3	53.1	54.3	50.1	50.2	46.3	43.1	43.7	41.5	40.1	41.6
55.4	55.3	55.2	55.2	55.6	50.2	50.6	45.3	43.8	43.5	41.3	40.7	42.1
55.5	54.6	55.4	56.8	59.4	51.4	52.5	46.4	47.4	45.7	44.6	44.5	43.1
60.2	57.2	59.3	57.3	59.3	53.2	51.8	46.2	47.2	45	43.4	43.9	42.5
60.3	56.3	57.8	55.2	57.7	55.3	49.2	46.9	46.8	44.5	41.6	42.4	42.7
57.5	55.4	55.4	54.2	56.1	53.2	49.9	47.1	49.8	44.5	41	41.8	42.3
56.2	54.6	55	53.6	59.6	56.8	50.1	47.8	49.5	44.7	40.9	41.9	43.1
55.3	55.3	56.3	52.9	63.1	59.7	50.1	48.9	47.1	44.3	41.9	41.9	43.6
55.3	55.4	56.3	52.7	62.2	59.6	49.5	49.5	45.4	44	44.8	43.1	43.5
56.5	57	56	53.4	59.8	56.7	50.1	49.3	44.7	45.5	45.7	43.6	43.5
57.8	57.9	55.7	54.2	58.6	53.9	52.4	48.7	47.5	48.9	46.2	44.9	43.9
57.8	57.7	56.2	53.6	58.6	52.7	52.4	48.2	48.9	48.8	46.6	45.4	43.8
56.6	59.8	56	54.1	59.1	52.2	51.9	51.2	48.5	47.8	46.8	45.7	44.2
55.4	60	54	54.2	58.4	51.8	51.8	50	46.3	46.2	46.2	45.3	44.8
54.6	58.3	54.3	53.6	55.8	50.9	50.2	47.1	45.3	45.8	47.1	45.2	45.9
54.7	56.6	55.4	54.7	53.9	50.3	49.8	46.4	45	45.7	46.9	45	45.9
54.8	55.9	56.2	54.1	55.2	51.1	50.1	46.4	45	44.3	44.5	44	45.4
53.6	54.6	56	54.2	58.9	56.9	50.5	46.1	45.8	46.5	44.7	45.2	44.8
54	56.1	56.1	60.2	61.9	58	57.9	51.9	51.6	51.2	52.4	53.8	52.6
55.5	57.7	55.6	62.2	63	57.5	58.6	54	57.1	54.4	55.6	58.7	55.8
57.5	58.4	54.9	59.5	63.3	59.1	58.5	60.5	57.9	54.9	58.6	64.2	57.4
57.7	58.7	57.5	57.3	64.3	61.6	58.1	60.9	60.3	54.9	58.2	64.6	58.2
60.4	59.2	57.3	57.1	64.1	63.1	57.1	59.5	61.7	55.6	55.8	61.8	57.3
61.7	63.2	59.2	57	69.7	63.1	56.7	57.4	60.7	54.6	54.1	58.5	55.6
63.9	63.1	59.5	58.5	70.9	60.8	55.6	56	57.4	54.7	52.1	57.5	53.8
62.2	63.4	57.4	59.8	70.8	57.8	53.7	53.1	54.5	52.6	50.4	54.9	51.7
60.2	63.1	58.6	59.8	67.3	55.6	51.7	50.7	52.2	50.4	48.4	51.5	49.5
66.3	63.7	58.2	58.6	64	54.7	51.7	49.5	49.7	48.6	46.8	48.5	47.7
67.9	63.6	60.7	58.3	60.6	54.3	50.5	47.7	49.1	50.9	45.4	46.7	46.5
64.9	61.9	60.4	63.7	59.2	52.9	49.9	48.3	49.7	50.7	44.5	55.6	57.1
61.1	60.2	58	63.8	57.7	52.1	49.9	47.7	49.1	50.3	43.9	55.1	56.4
61.1	59.3	56.8	65.1	57.4	51.3	50.2	47.2	49	50.6	43.1	51.1	52.5
60.7	58.3	55.5	64.4	56.8	51.4	50	48.5	48	48.3	43.4	47.5	49
59.6	59.9	55.4	61.5	56.8	51	49.3	49.7	46.7	49.8	45.7	45.5	46.4
58.3	59.2	55.5	59.2	56.4	53.2	48.6	49.6	51	50.1	46.5	46.6	48.6
56.2	58.1	56.1	56.1	56.3	53.3	48.3	49.2	50.8	52	49.9	49.6	49
55.9	58.6	57.4	59.6	56.5	53.2	53.5	49.9	51.7	52.4	50.5	50.1	49.4
59.7	57.9	58.9	59.1	59.2	53.2	52.9	49.5	51.3	51.2	49.8	49.4	49.1
61.2	57.6	58.2	57.4	60.9	54.7	51	48.4	49	49.1	47.4	47.6	47.1
59.5	56.2	56.1	54.6	60.8	54	50.2	47.6	46.7	47.4	45.8	46.1	46.3
58.1	56.3	55.8	53.3	58.9	54.1	49	46.9	46.4	45.9	43.4	43.8	46.3
56.7	55.9	55.2	52.9	58.3	52.6	48.4	46.4	45.5	44.4	41.6	42.3	44.3
55.1	55.6	55	54.2	59	50.5	48.2	45.3	44.9	43.6	41.1	41.9	43.1
56	55.9	54.8	54.4	57.3	49.7	48.2	44.4	43.2	42.4	40	40.7	42.5
56.6	56.2	54.7	53.7	54.8	49.5	48.2	43.6	42.9	41.8	39.4	39.7	42

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
49.8	51.2	54.9	50	52.2	51	51.2	48.1	45.8	44.3	40.5	37.7
50.1	52.1	55.3	50.4	52.8	51.2	51.5	48.8	46.5	44.6	40.9	37.9
50	51.7	54.2	50.2	52.3	50.9	51.1	48.1	45.8	44.1	40.3	37.3
49.3	51.1	52	48.8	49.9	48.3	48.6	45.8	43.5	41.6	38.4	36.6
48.9	50.5	50.7	47.2	47.6	46.7	46.4	44.5	42.5	40.3	38.1	36.3
49	50.6	51.6	48.6	47.9	46.4	46.9	45.4	42.6	40.7	38	34.9
49.6	50.5	51.4	49	48.1	47.2	47.4	45.4	42.9	41.1	38.4	34.5
48.6	49.6	49.8	48.4	47.8	46.5	46.5	44.3	42.1	40.1	37.5	33.6
47.6	48	47.7	46.9	47.1	44.8	44.5	42.8	40	38.1	35.5	31.5
46	45.9	45.5	44.5	44.8	42.7	42	40.4	37.6	36	33.5	30.5
45.3	45	44.5	43.5	44.8	43.7	43.2	41.3	38.6	35.9	33.3	31.7
45.8	45.9	44.6	43.9	45.5	43.9	43.1	41.3	38.8	35.8	34.1	33
45.4	46	43.9	43.8	45.1	43.6	42.5	41.4	38.8	35.8	34.2	33.2
44.8	45.2	44.9	44.6	44.1	44	41.9	40.8	38.7	35.2	33.2	32
47	47.2	47.6	46.1	45.8	44.9	43	41.3	39.1	36.4	34	31.4
50.3	48.3	48.3	46.3	45.9	44.9	43.6	41.4	39.1	36.4	34	31.6
50.4	49.3	48.2	46.5	45.3	44	43.6	41.4	39	36.1	33.6	31.4
48.6	49.2	50.2	47.5	47.1	44.8	42.7	41.8	39.5	36.5	34.7	31.4
48.4	48.7	50.4	48	47.4	45.2	42.7	40.8	38.8	35.8	33.1	29.8
47.1	47.8	49.3	47	46.2	44.7	42.2	39.2	36.9	33.6	30.6	27.7
46.3	47.9	47.5	45.5	45	43.8	40.4	37.2	35	31.5	27.9	25.9
45.1	46.2	45	43.1	43	42.5	38.4	35.4	33.2	29.7	29.2	28.5
44.6	44	44.1	42.3	41.8	41.5	36.9	34.2	31.6	28.7	28.3	27.5
44.3	41.7	41.9	40.3	39.6	38.9	34.7	32.4	30	26.9	26.1	25.6
43.2	40.6	40.6	39.5	38.4	37	35.2	33.2	29.9	26.7	25.1	24.4
42	41.9	42.1	41.1	38.4	36.8	35.7	33.6	30.5	27.4	25.7	25.2
42.5	42.7	42.7	41.1	39.5	38.5	37.4	34.9	31.8	28.6	26.4	25.2
44.1	44.4	44.1	41.7	41.1	40.7	38.9	36.2	33.6	30.9	29	26.8
45.3	44.9	44.6	44.4	42.9	42.3	41	38.9	35.8	32.5	30.2	27.4
46.5	46.6	45.9	45.6	44.8	45.8	44.6	41.6	38.6	34.9	33.3	29.8
47.5	47.3	46.7	46.3	45.1	44.9	44.7	41.7	38.8	35.3	32.7	29.3
47.4	47.5	48.6	48.7	46	45.3	44	41.6	39.7	35.8	32.4	29
47.5	47.6	48.9	48.7	46.2	45.6	44	41.6	39.7	35.8	32.4	29
48.1	47.7	48.5	47.3	45.3	44.2	42.5	41.3	40.9	38.7	34.8	32.3
50.2	48.6	48.8	46.6	45.4	45	43.1	42	43.7	41.5	37.5	35.7
49.8	48.6	48.7	46.3	45.7	45.6	43	42.8	44.4	42.2	38.5	36.6
48.3	49.6	48.1	46	45.1	45.4	42.5	42.8	44.4	42.2	38.4	36.6
48	49.9	48.4	45.5	46.4	45.9	43.4	44.8	44.1	42.1	40	37.8
48.4	49.1	49.5	47.8	48.6	48.1	46.5	48	46.6	44.2	42.5	40.4
49.9	48.9	49.9	48.6	49.1	48.5	48	49.4	47.2	45.9	43.9	41.8
50.4	49.7	50.4	49	49.5	48.5	48	49.4	47.3	45.9	43.9	41.7
50	49.1	50.1	48.7	48.8	47.5	46.5	47.7	45.8	44.4	42.5	40.2
48.9	48.3	48.9	47.4	46.8	45.3	43.9	44.8	42.7	41.2	39.2	36.8
47.1	46.8	47.5	46.4	45.3	43.4	41.6	41.8	39.8	38.1	36	33.4
45.2	45.8	46.7	45.1	43.9	41.2	40.6	39.6	38.2	35.6	33	30.4
43.7	43.6	45.9	43	42.5	39.1	39.1	37.9	35.1	32.9	30.4	27.4
41.4	41.8	42.8	40.7	39.7	37	36.3	35.3	32.8	30.9	28.3	25.2
39.9	40.7	40.5	38.6	37.6	35.5	34.5	33.4	32.5	31.2	30	27.1
38.5	39.2	39.3	37.4	36.5	34.5	33.2	33	31.5	30.7	29.5	26.1
37.9	38.9	37.9	36.6	35.4	33.6	31.8	31.9	30.4	30.2	28.9	24.9
39.6	38	37	35.4	34.3	32.5	31	30.5	29.2	28.8	27.1	23.7
39.6	37.7	36.4	34.7	33.4	32	30.4	29.3	28	27.9	25.9	22.9
39	37.9	35.8	34.5	33.3	31.5	29.9	29	28.3	28.6	26.9	23.1
38.6	37.7	36.6	34.8	34.9	33	31.8	31	30.4	29.1	27.2	23.3
39.7	38.4	37.2	35.2	35.2	33.3	32	31.1	30.4	29.1	27.2	23.2
43.9	43.6	40.7	39.3	37	37.8	40.5	35.4	31.8	30.5	28.7	25.5
42.7	42.4	40.7	38.5	37.1	37.1	39	34.3	31.7	30.2	28.3	24.9
41.5	42	40.4	37.9	37.5	36.7	36.7	33.8	31.6	30.2	28.1	24.2
41.9	41.3	39.5	38.3	38.2	37.3	35.9	33.7	31.4	30.1	28.2	24.4
41.5	40.5	39.5	38.3	37.9	37.2	35.7	34.3	32	30.5	28.4	24.4
40.8	41.2	40	41.1	38.7	38.1	36.8	36.1	32.9	31.6	29.4	25.2
40.9	41.3	40.5	41.3	38.9	38.6	37.9	36.7	33.6	32.1	29.8	25.7
41.4	41.7	41.1	41.3	39.2	38.4	40.1	38.2	34.5	34.2	30.4	26.8
43.7	43.7	42.5	42.3	40.6	39	41.5	40.2	35.5	35.1	32.6	28
44.8	44.4	43.3	43.6	41.2	39.9	41.4	40	36.1	35.4	33.3	29.3
44.7	44.4	43.4	43.5	41.2	40.1	40.2	38.7	36.1	35	33.1	29.7
44.2	43.9	43.2	43.6	41.6	41.3	39.6	38.5	36	34.9	33.6	31.3
47.2	47	46.3	45.9	45.6	43.2	40.3	38.4	36.1	34.6	33.3	31.4
47.1	46.6	46.1	45.8	45.5	43.2	40.3	38.3	36.1	34.6	33.1	30.3
46	45.4	45.3	45.5	44	42.3	40	38.6	35.7	34.7	33.7	31.1
45.9	45.8	45.8	46.1	45	45.1	45.2	44.2	41.1	39.2	38.1	35
55.1	52.9	51.1	51	49.7	49.4	48.9	47.8	45.3	43.4	42.1	39.4
59.2	56.6	54.8	54	53.3	52.7	52.4	50.8	48.9	47.6	47.6	44.8
59.7	56.8	55.1	54	53.7	52.7	52.4	50.8	49.5	47.9	47.7	45
59.2	58.6	56.7	55.3	53.5	52.8	51.7	51	49.5	48.5	47.1	44.5
58.6	59	56.7	55.4	53.4	52.8	51.3	50.9	49.6	48.5	47.1	44.5
57	57.6	55.4	53.8	51.7	52.5	52	50.2	48.8	47.3	46.6	42.7
55	55	53.2	51.6	49.7	49.9	49.2	47.9	47	44.6	43.5	39.9
52.8	52.6	50.9	49.2	47.5	47.8	46.9	46.6	46.6	42.8	41.3	38
50.5	50.5	49.3	48.2	47.1	47.7	50.5	48.7	53.6	44.7	41.8	40.2
48.3	48.2	47.4	46.3	45.7	46.2	48.4	47.2	51.5	43	40.2	38.5
46.6	46.8	45.7	44.9	44.3	43.4	44.8	43.9	47.8	40.4	37.9	35.7
46.1	52.7	59.3	55.8	60.9	57.7	52	50.1	44.7	40.2	36.8	35.1
45.3	52.1	58.4	55	59.9	56.6	50.9	49.1	43.8	39.4	36.2	34.1
44.2	48.7	54.3	51	55.7	52.5	46.9	45.2	40.6	36.6	33.7	30.9
43.3	45.6	50.4	47.3	51.6	48.4	43.5	41.3	37.1	33.7	31.2	28.1
45.5	45.6	47.1	44.5	47.8	45	40.6	38.2	35.3	32.9	30.5	26.9
48.1	48.7	49.3	45.1	46.1	43.2	41	38.7	36.1	33.6	30.9	27.2
50.1	50.2	50.2	47.2	47.2	42.9	42.1	39.5	37.2	33.9	30.7	27.2
50.4	51.6	52.2	49.1	49.1	44.5	43.1	40	37.4	34.2	31.1	27.7
50.3	51.6	52.5	49.6	49.2	44.5	42.9	39.5	36.8	33.9	30.8	27.4
48.7	50.3	51	48.4	47.6	43.2	40.6	37	34.5	31.4	28.8	25.8
46.6	47.9	48.2	45.8	44.8	40.8	37.7	34.4	32.5	29.5	27.1	24.6
43.9	45.1	45.2	43.2	42.2	38.7	35.8	35.6	32.2	28.4	26	23.4
41.8	42.3	42.5	40.9	39.5	36.5	33.9	35.3	32.1	27.2	25.1	22.8
40.4	40.3	40.4	38.2	37.1	34.5	32	32.4	29.4	25.4	23.6	22
39	38.8	38.2	36.1	35.7	33	30.4	29.8	27.1	23.9	22.3	21.5
37.9	37.4	36.6	34.7	34	31.7	29.3	27.9	25.6	23.2	22.4	21.4

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
34.6	30.6	28	25.7	46.6	48.1	46.6	47.2	54	59.2	58.4	59.4	73.8
34.7	30.9	28.2	25.8	46.3	46.8	48.9	48.1	56.8	62.2	57.9	74.7	70.3
34.1	30.5	27.8	25.6	46.6	50.5	46.7	50.2	60	61.4	57.3	77.7	67.8
33.2	29.5	26.7	25.2	46.8	49.1	46.6	49.7	59.1	60.6	63.6	74.7	66
32.9	29.2	26.5	25.1	46.8	47.6	48.3	52.3	58	60.9	65.8	70.6	65.7
32	27.9	25.4	24.9	48.6	47.6	50.8	52.4	57.1	60.8	64.6	68.5	64.5
31.8	27.3	25	24.8	48.1	49	48.8	51.6	58.1	58.4	61.5	68.2	67.8
30.8	26.4	24.6	24.7	45.9	47.2	48.7	54.7	58.5	56.9	58.8	64.8	73.8
28.9	25.1	24.1	24.6	45.4	47	51.2	56.6	58.1	55	56.7	63.8	73.7
27.9	24.5	23.9	24.6	46.2	48.4	50	55.3	56.6	53.9	56.5	62.7	71.5
29.5	25.1	24	24.6	47.2	46	48.9	52.6	55.3	56.9	59	60.9	67.6
31.1	25.9	24.4	24.6	44.9	44	47.2	49.9	55	56.9	58.2	58.2	67.2
31.1	25.9	24.4	24.6	42.7	46.9	46.6	50.5	58.3	55.8	55.7	55.8	64.4
29.6	25.3	24.1	24.6	43	47.3	53.1	54	56	54.6	55.6	55.9	62.3
28.6	25	24.1	24.6	48.3	47.4	51.3	52.3	54	55.5	59.8	58.9	60.3
28.4	25	24	24.6	48.4	55	50.1	51.8	53.4	54.8	59.1	56.1	57.3
28.1	24.8	23.9	24.5	55.3	52.8	50.4	51.4	50.8	54.6	57.6	55.7	55.6
27.4	24.4	23.8	24.5	53	50.8	48.7	50.7	50	54.4	56.8	55.2	54.1
26.3	23.9	23.7	24.5	51.4	49.1	46.8	50.9	50.6	54.3	58.8	55.3	53.9
24.7	23.4	23.6	24.5	49.6	48.2	45.6	53	51.4	53.9	56.4	55.9	57.5
23.3	23	23.6	24.5	48.3	49.2	46.1	52.1	53.7	54.4	54.6	56.4	58
24.8	23.4	23.8	24.5	50.5	47.9	47.8	51.9	53.2	53.5	54.5	58.3	57.9
24.3	23.2	23.7	24.5	49.3	48.2	47	51	52	53.1	55.4	57.3	57.1
23.4	23.1	23.7	24.5	49	46.5	46.7	48.9	53	54.3	55.1	56.2	55.1
23.1	23.1	23.7	24.5	48.2	46.1	49.5	49.7	53.3	53.7	56.7	56.2	54.3
22.9	23	23.6	24.5	47.9	48.4	48.1	52.4	54.4	52.7	56	54.9	53.7
22.9	22.9	23.6	24.5	47.6	49.7	47.7	51.9	52.5	53.5	55.5	53.9	56
23.6	23.1	23.7	24.5	50.2	50.5	49.8	52.6	52.2	52.4	54.6	54.6	55.7
24.5	23.2	23.7	24.5	50.2	50.5	51.8	52.3	52	54.6	53.9	55.1	59
26.9	23.5	23.7	24.5	50.2	55.3	52.9	50.4	52.2	54.1	53.4	54	57.8
26.7	23.7	23.7	24.5	56.2	54.5	49.7	49.6	54.1	54	55.4	55.5	58.2
26.4	23.9	23.8	24.6	55.3	54.8	49.3	53.2	54.8	55.3	56.7	55.8	60.7
26.3	24.1	23.9	24.5	54	52.7	50.2	53.8	56.6	64.7	65.7	59.9	62.2
30.6	28.4	25.6	25.2	52.5	51.4	50.6	59.8	57.7	61.1	62.4	59.8	63.6
33.9	32.5	28.2	26.4	49.6	49.7	57	57.3	55.9	58.4	60.5	60.8	65.8
34.7	33.5	29	26.8	47.2	53.2	54.2	56.9	54.9	57	60.1	59.6	65.8
34.6	33.4	28.8	26.7	47.9	49.6	52.2	54.1	54.5	55.6	60.4	59.8	66.3
35.1	32.3	27.7	26	49.6	49.3	51.5	51.5	52.6	55.8	61.1	60.2	66.2
37.1	33.4	29.2	25.6	49.6	48.2	51.4	51.3	52.7	59.2	59	58.4	62.7
38.3	34.5	31	26.5	49.3	47.1	55.3	51.4	55.9	58.2	58.7	58.2	62.6
38.3	34.5	30.7	26.4	49.1	52.3	54.2	52.9	55.5	65.1	64.6	61.2	60.4
36.5	32.7	29.1	25.7	53.5	53.5	54.2	60.3	59	61.4	62.4	58.7	60.6
33.1	29.6	26.7	25	51.4	52.4	53.9	56.7	59.2	60	59.5	58.6	60.5
29.9	26.8	25	24.7	50.7	53.2	50.4	55.8	59.1	58.2	58.1	58.7	59.5
27	25	24.2	24.6	49.3	50.1	49.3	53.4	57.1	58	57.6	56.5	56.6
24.7	23.6	23.8	24.6	48.5	48.2	49	51.2	55.8	57.3	56.9	56.3	55
23.5	23.1	23.6	24.6	46.7	47.4	46.9	50.8	53.4	55	55.5	56.1	55.2
25.4	24.6	24.3	24.7	45	45.8	45.3	50.7	52.7	53.4	55.3	57	54.5
24.4	23.9	24.1	24.7	44.5	45.1	42.8	49.2	52.6	52.4	55.5	55.6	53.5
23	23.2	23.8	24.6	44.8	44.7	42.7	46.8	54.2	53.7	55.1	55.5	53.9
22.4	22.9	23.6	24.5	46.8	45.5	42.8	47.2	53.3	55.2	55.5	55.6	55.3
22.2	22.8	23.5	24.5	49.7	45.2	43.2	51.1	51.6	54.5	54.5	55.4	56.3
22.1	22.8	23.5	24.5	47.8	44.2	43.1	50.6	51.1	53.2	54	55.2	55.4
22.1	22.7	23.7	24.7	46.9	45.9	48	49.2	50.6	53.1	54.4	54.3	54.9
22	22.7	23.6	24.7	46.6	50.5	47.2	49.9	51.9	52.4	54.5	54.1	54.3
22.9	22.9	23.6	24.5	49.4	48.7	46.2	47.5	51.6	51.7	55.2	53.8	53.3
22.7	22.9	23.6	24.6	50.2	48.6	44.8	46	51.2	51.2	56.2	52.8	53.4
22.7	23.3	23.6	24.6	48.6	46.2	44.5	47.8	52.1	60	64.4	57.5	55
22.9	23.5	23.8	24.7	45.9	43.3	44.5	56.1	57.4	59.6	60.8	55	53.7
22.6	22.9	23.7	24.6	44.8	43.8	51.1	56.2	55.3	56.9	57.4	54.8	53.7
22.6	22.9	23.6	24.6	44.9	51.1	47.5	55.1	54.1	54	55.6	53.6	53.9
22.8	22.8	23.6	24.6	44.9	48.7	46.5	56.6	55.7	54.1	54	53	53.9
23	23	25.1	25.2	45	48.3	45.2	56.3	56.9	55.2	53.2	55.3	54.7
24.1	23.3	27.9	26.6	44.1	46.9	45.9	53.2	55.2	55.4	52.9	55.6	56.4
24.9	23.8	27.5	26.3	44.5	43.4	45.4	52.5	54.8	53.7	54.6	56.6	56
29.2	28.7	26.9	25.7	44.9	42.4	45.8	51.2	55.4	54.9	54.9	55.4	57.7
46.5	44.6	25.6	25	44.2	46.9	47.7	56	55.2	56.8	55.1	54	58.2
47.6	45.1	25.3	25.1	45.8	47.1	49.4	54.7	56.7	55.2	55.6	53.7	56.6
48.8	45.9	24.6	24.8	46.6	49.5	47.9	52.4	54.9	54.5	55.4	53.8	54.4
45.4	42.4	24.4	24.6	44.2	49.1	47.8	50.9	52.6	53.8	54.5	53.6	54.2
41.2	38.3	25.7	25	44.9	47.2	49.5	50.1	51	53.6	54.9	52.5	52.7
37.9	35.6	28.3	25.9	46.1	48.6	49	49.3	50	52.7	56.2	52	52.8
41.5	38.6	32.3	27.6	44	46.8	48.1	48.9	50.6	52.3	54.5	54.2	55.4
41.8	39	33	27.9	42.7	46.8	46	51.5	51.8	51.9	53.8	54.3	57
41.6	39.2	32.9	28	43.1	46.6	44.9	52	57	53.2	53.9	56.9	57.4
41.5	39	32.5	27.9	46	45.7	48.2	54.1	57.9	55.9	56.7	57.4	57.6
39.3	36.4	30.2	26.6	46	46.4	49.9	55.4	57.9	58.7	63	59.3	58.8
36.5	33.5	29.1	26.1	47.7	45.6	49.6	58.1	57.6	59.4	62.9	61.9	61.7
35.3	33.1	29.2	26.3	48.8	48.3	52.4	59.3	62	59.6	61.5	59.9	61.3
36	33.7	29.7	26.9	49	47.8	55	61.7	62.2	61.1	60.7	59	61.8
34.5	32.2	28.4	26.2	49.7	50.8	55.1	61.1	59.7	60.1	59.2	59.9	62
32.4	29.9	26.8	25.4	50.6	54	53.5	57.5	57.7	57.4	57	64.9	61.9
33.8	29.6	26.5	25	50	54.8	52.7	56.7	56.4	56.5	56	61.2	60
32.9	29	26	24.9	48.4	52.1	52.3	55.3	53.9	54	54.7	59.2	59
29.6	26.4	24.7	24.7	47.6	50.3	51.1	52.7	51.6	53.2	53.4	59.7	57.8
26.7	24.7	24.2	24.6	45.4	50.1	50.8	50.7	51.3	53.7	56.5	59	57.2
25.3	24.1	23.9	24.5	43.9	49.1	49.2	47.7	52.4	53.1	58	58.3	58
25.1	23.9	23.8	24.6	46	46.8	48.5	47.3	49.7	54.4	57.7	56.2	57.9
25.1	23.9	23.7	24.5	44	44.7	47.4	48.7	49.5	53.7	57.3	55.1	56.4
25.3	23.9	23.7	24.5	46.1	44.7	45.7	48.1	52.8	53	57.1	55	57.7
25	23.7	23.7	24.5	43.6	44.7	46.7	48.6	53.1	52.9	56.3	55.7	56.5
23.7	23.1	23.7	24.5	40.9	42.9	46.6	47.6	51.2	52.6	56.2	59.6	55.6
23	23	23.7	24.5	40.6	43.4	48.2	49	51.6	52.7	54	57.6	55.5
22.4	22.7	23.6	24.5	45.6	44.9	47.8	49	50.9	50.9	53.9	56.7	54.8
22	22.6	23.6	24.6	44.3	43.5	46.2	47.7	50.8	49.8	55.1	54.4	54.8
21.9	22.7	23.5	24.6	42.8	43.6	47.8	46.3	51.5	50.8	54.9	53.5	54.2
21.9	22.7	23.6	24.5	43.4	45.8	47.9	48.2	51.4	53	55.9	54.5	54.4
21.8	22.7	23.6	24.4	45.8	45.5	45.9	48.9	53.3	54.3	55.9	55.5	55

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
70.7	60.8	59.3	59.6	57.6	58.4	54.3	53.6	49.6	49	50.1	49.3	50.5
66.8	67.6	65.7	62.7	60.3	60.7	54.9	55.1	52.4	50.4	50.4	49.3	51
64.2	66.6	63	62.2	60.6	60.4	55	53.5	52.2	51.7	50.6	49.2	51
61.1	66.5	61.8	60.9	60.3	59.6	55	52.6	50.8	51.7	50.5	48.6	49.8
59.9	63.7	61.8	59.9	61.9	58.7	54.6	52.6	51.5	52.7	50.7	48.5	49.5
62.9	61.7	63.6	64	62.8	58.6	54.6	58.2	53.2	54.2	51.7	48.5	50
62.3	60.3	60.4	65.7	60.8	58.7	54.6	59.3	54.2	53.8	52	48.5	49.6
70.8	59	58.7	62.6	57.3	56.1	53.8	59.2	52.4	50.8	49.4	47.5	48
67.8	57.4	58.1	60.1	55.3	53.5	52.7	56.4	49.8	48.6	48.1	46	45.8
68.7	56.6	58.3	58.5	53.6	53.2	51.1	54.6	48.1	47.3	46.8	45.1	44.9
69.7	57.2	58.1	56	52.6	52.6	49.6	51.4	46.8	46.9	46.8	44.5	44.4
65.9	57.3	55.7	54.1	51.1	51.6	48.8	49.3	46.2	46.5	46.7	44.8	44.9
63.3	56.1	53.9	53.3	51.4	51	48.7	47.8	46.1	47.8	47.9	44.4	44.9
62.7	55.2	53.7	52.6	52.6	50.3	49.4	47.9	47.8	47	47.4	44.1	44.8
63.7	55.3	54.3	53	52.8	50.5	50.4	48.2	47.4	47.5	47.4	44.7	44.9
62.4	55.2	54.1	55.5	52.6	50.8	50.7	48.1	48.2	48	47.8	47	47.1
59.1	57	56.1	55.5	54.3	58.1	49.6	47.8	47.3	48.3	48.7	48.6	48.3
56	58.5	59.1	54	54.2	55.3	49.4	47.5	46.8	48.3	48.1	47.9	48.5
54.8	56.4	58.8	52.5	56.2	54.6	48.9	47.4	47	48.1	47.9	47.2	47.7
54.4	55.3	57.4	52.5	54.6	53.5	47.5	47.2	46.5	47.1	47	46	46.4
53.9	53.4	57	52.2	55.2	51.5	46.8	46.2	44.8	46.2	46.1	44.9	46.2
54	53.2	54.7	51.4	52.4	51	46.1	45.4	43.6	45.7	44.8	43.6	44
54	52.4	53.2	50.6	50.2	51.4	46.3	43.5	43.8	45.6	43.5	43.2	41.8
53.9	51.6	52.3	49.3	49.6	51	46.5	42.9	43.9	44.3	43.7	42.1	40.6
52.4	51	51.3	49.5	49.1	50.1	44.8	42	43.3	43.8	43.1	41.7	39.8
53	51.5	50.9	49.1	48.5	51	44.4	42.4	43.4	43.8	43.2	41.5	40.3
55	52.1	51.8	50	48.3	51.2	44.7	43.3	43.2	44.5	43.6	41.6	41.9
54.7	52.6	51.6	51	48.6	51.6	45.3	44.3	43.1	44.8	45.3	42.6	42.4
54.6	55.1	52.7	51.6	49.2	52.3	46.9	45.4	44.6	45.5	47.1	44.1	43.5
57.9	59.5	55.1	51.5	50.9	53.3	47.3	47.3	45.4	45.4	47.2	45.1	44.8
58.4	59.7	55.4	51.5	53.1	53.8	47	47.5	46.2	45.6	47.2	46.3	46.6
61.3	60.4	60.8	53.5	51.5	54.9	48.2	49	47.9	47.9	47.1	47.1	47.1
62.7	57.8	58.1	52.3	52	53.6	49.2	49.2	47.9	47.9	47.2	47.1	47.1
62.2	56.6	57.3	54.1	52.3	52.6	48.6	48.9	48.2	47.8	47.4	47	47.1
60.3	55.6	57.5	54.8	52.3	52.7	48.1	49.1	47.9	48.1	48.9	47.9	47.6
60.2	55	57.9	55.4	53.3	52.7	48.3	49.1	48.2	49.7	47.5	48.1	48
58.7	55	62.1	55	55.2	51.9	48.4	48.8	48.9	49.6	46.8	47.7	48
57.8	54.9	61.8	57	54.7	51.2	52.8	49.6	47.6	49.4	49	46.7	48.8
58.6	55.1	60.2	56.2	54.6	51.8	52.7	50.3	48.4	49.2	49.3	46.5	48.4
61.1	64.2	62.6	55.6	55.5	55.8	53.6	51.1	50.8	50.1	49.6	48.4	48.2
57.5	62.4	69.4	54.9	54.9	56.5	52.1	51.7	55.9	52.1	49.4	49.7	48.8
55.7	59.4	71.9	55.2	54.6	59.1	52.6	54.9	57.6	52.3	49.3	49	48.3
55.7	56.7	68.2	56.9	54	56.5	53.4	52.9	54.4	49.4	47.8	47.1	46.8
54.4	55.3	64.2	53.9	52.3	53.7	50.8	50.9	50.8	46.6	46.8	45.1	45.7
53.5	55.3	60.7	52.2	50.7	51.5	48.3	49.3	48.1	44.5	45.1	43.7	43.7
54.5	53.6	57.4	51.6	50.2	50	46.2	48.1	45.5	42.6	43.7	41.3	41.4
55.3	52.4	55	51.7	48.8	49.1	44.5	46.2	43	41.4	42.4	40	40.6
54.7	52.4	53.6	50.3	48	48.5	43.8	45.3	41.8	40.3	41.7	38.5	39.3
54	52.4	53	49.4	48.4	47.3	42.1	44.8	43.6	39.3	41.5	37.5	37.9
53.3	51.7	53.8	48.8	47.8	46.9	41	43.6	42.4	39	40.9	37.3	37.8
53.6	52.5	54.9	47.6	47.8	46	41.2	43.6	41.2	39	40.5	37.5	37.6
53.3	52	54.1	47.7	47.4	45.7	43.4	43.5	40.1	39.2	40.6	38.6	37.1
53.5	51.7	54.2	46.6	49.4	45.7	42.8	43.4	40.1	39	40.9	38.2	36.9
53.6	50.9	53.7	48.1	49.1	45	42	42.8	40.3	39.4	40.7	37.9	37.2
53.5	52.8	54.2	48.9	49.6	44.6	41.7	43	40.1	39.3	41.2	37.9	37.5
54.9	54.4	55.4	48.9	49.4	44.6	43.4	43.4	39.8	40.6	41.4	39.4	38.4
55.3	55.2	57.3	50.7	49.1	45.4	45.8	43.9	41.6	42	41.8	41.4	41.3
55.5	53.7	56.2	53.2	48.4	45.9	45.3	43.5	40.8	41.4	41.6	40.7	40.7
54.1	52.9	54	51.3	48.2	45.7	46.8	43.7	40.4	41.1	41.6	41.1	40.3
53.9	51.8	53.7	51.9	48.9	46.7	47.1	44.2	40.3	41.2	41.8	40.6	40
54.7	51.9	59.7	56.9	49	47.6	45.3	43.5	40.5	41.4	43	40.2	40.3
55.2	51.7	59.8	56.8	48.7	47.8	44.7	43.4	42.1	41.5	43	40.4	40.8
53.6	51.7	58.2	53.9	48.5	48.4	43.9	43.6	44.6	42.2	42.8	40.7	41.2
53.4	53.4	57	52.1	50.1	47.1	44	45	45.1	43.6	42.9	41.3	41.6
54.8	52.4	57.4	51.6	51.1	47.1	47.5	47.3	45.3	44.7	43.1	43.7	43.7
54.1	52.2	58.4	50.9	50.7	48.3	46.3	46.2	45.9	45	43.7	43.9	43.7
52.9	52.5	55.8	50.7	49.9	47	44.7	45.4	45.2	44.5	43.7	43.6	43.3
52.4	52	53.5	49.7	49.8	45.5	44.6	45.1	45	43.9	44	43.8	43.4
54.3	53.4	52.9	49.8	48.7	45.5	44.4	43.5	44.5	43.9	45.2	45.4	44.6
55.4	53.1	53.1	50.2	48.8	45.6	44.3	43.3	42.8	43.2	44.2	44.4	44
55	51.3	54	50.6	48.5	45.2	44.6	44.3	42.5	43.1	43.8	43.9	43.9
54.5	54.5	59.2	56	50.6	45.5	45.7	46.1	44.7	44.9	45	46	45.9
54.7	59.5	59.5	55.4	57.4	52.1	51.6	51.1	52.4	54	52.6	55.2	53
53.7	57.3	61	57.3	57.7	53.7	56.6	53.7	55.4	58	55.5	59.1	56
54.2	56.5	62.1	58.3	56.3	59.5	56.5	54.1	55.9	61.8	57.3	58.4	56.7
55.8	56.2	61.1	61.5	56.3	57.5	59.9	54.2	53.9	58.5	55.6	57	57.6
56	55.9	60.5	60.8	55.6	56	57.4	53.9	52.1	57.5	53.8	55	55
57	55.7	69.8	57.8	53.7	53.2	54.5	52.6	50.4	55	51.6	52.9	52.7
56.7	58.7	67.4	55.6	51.5	50.8	52.1	50.5	48.5	51.6	49.5	50.6	50.5
56.8	58.4	64	53.7	50.9	49.1	49.8	48.6	46.9	48.4	47.7	48.3	48.2
56.5	57.6	60.6	53.6	50.2	47.3	48	47.4	45.1	46.7	46.3	46.7	46.8
56.3	56.8	59.2	52.9	49.4	46.9	47.7	48.1	44.4	45.2	45.7	45.9	45.8
58	58.4	57.7	51.7	49.1	47.1	48.9	50.1	43.8	44.3	45.3	45.2	44.9
56.5	62.9	56.3	51	49.1	46.2	48.2	49.2	42.8	51.1	52.5	44.2	48.8
55.2	63	56.7	50.3	48.9	46.3	47.7	48.3	41.8	47.5	49	43.3	45.6
54.3	61.4	55.9	50.3	49.2	47	46.5	46	41.6	45.4	46.1	42	43.5
54.2	59.1	55.8	49.8	48.5	48.3	46	45.9	43.2	44.8	45.7	41.9	43.2
54.3	56.1	54.4	50.4	47.5	48.4	46	49.4	45.6	45	46.5	45.6	45.6
55.4	54.6	54.4	52	47.3	48.2	50.2	49.2	45.8	46.8	48.1	48	48.6
55.2	54.4	55.3	51.9	48.2	49.1	50.3	50.9	49.7	49.2	48.6	50	50.2
57.5	57.4	55.4	51.5	50.7	48	49	49.1	47.4	47.6	47.2	48.7	50.3
56.2	54.6	57.7	53	50.2	47.6	46.8	47.4	45.8	46.1	45.2	46.6	47.9
54.8	53.2	58.8	52.6	48.9	46.4	45.4	45.7	43.4	43.8	43.9	44	45
54.7	52.1	57.3	52.7	48.2	45.7	45.6	44.4	41.7	42.4	44.4	41.8	42.3
54.3	52.1	57.3	50.3	47.3	45.3	44.6	43.6	40.7	41.3	43	40.3	40.3
54	52.8	57.3	49.3	47	44.4	43.3	42.5	39.8	40.6	42.5	39	38.8
53.9	53.2	54.8	48.8	47.5	43.2	42.3	41.1	39.3	39.7	41.9	38	37.3
53.5	52.5	52.3	48.7	46.7	42.9	42	40.9	38.1	38.9	40.7	36.4	36.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
51.6	48.3	49.7	48.2	49.1	46.7	43.9	41.7	39.3	36.6	33.2	28.8
54.2	49.9	52.2	50.9	51.1	48.1	45.8	44.1	40.3	37.3	34.1	30.5
52	48.8	49.9	48.3	48.7	45.8	43.6	41.6	37.9	34.7	31.9	28.5
50	47.1	47.6	46.5	46.4	44.1	41.6	39.6	36.1	32.9	30.2	27
49.6	46.5	46.7	46	45.9	44	41.4	39.6	37	34.8	31.8	27.9
50.6	47.2	47	45.8	46.3	44.4	41.6	39.7	37.3	34.5	31.8	27.3
49.8	48.4	47.5	46.4	46.5	44.3	42.1	40.2	37.5	33.6	30.8	26.4
47.7	47	46.9	44.8	44.5	42.8	40	38.2	35.5	31.5	29	25.1
45.5	44.6	44.8	42.7	42.1	40.4	37.6	36	33.5	30.3	27.7	24.5
44.4	43.5	44.3	42.1	41.5	39.9	37	34.7	32.7	30.1	27.4	24.3
43.8	42.8	44.2	42	41	39.7	36.9	34.6	32.7	30.4	27.7	24.3
43.8	43.4	44.7	43.5	42.4	41.1	38.4	35.7	33.1	31.7	29.5	25.1
43.3	43.1	44.1	42.4	41.6	40.6	38.2	34.9	33.2	32	29.6	25.3
43.4	43.1	43.7	42.4	41.2	40.3	37.8	34.5	32.7	31	28.5	24.8
44.9	44.5	44	44	41.9	40.8	38.7	35.2	33.1	31.1	28.3	24.9
47.5	45.7	45.2	43.9	42.9	40.7	38.9	36.2	33.6	31.3	28.2	24.8
47.4	46.1	44.8	43.3	42.3	40.4	37.9	34.9	32.6	29.8	26.8	24.2
47.5	46.2	45.2	43.3	42.3	40.6	37.9	35.2	33	29.8	26.3	23.9
49.3	47	46.3	44.4	41.6	39.1	36.9	33.6	30.7	27.7	24.7	23.4
47.5	45.5	44.8	43.2	40.4	37.1	35	31.5	27.9	25.5	23.3	23
44.8	42.9	43	41.9	38.4	35.5	33.2	29.7	26.1	24.6	22.9	22.9
44.1	42.3	41.9	40.6	36.9	34.2	31.6	28.6	25.4	24.2	22.8	22.8
41.9	40.3	39.6	38.9	34.6	32.4	29.9	26.9	26.1	25.6	23.4	23
40.4	39.2	38.3	37	33.7	31.5	29.1	26.1	25	24.4	23	22.9
40.2	38.9	37.5	36.2	33.3	31.5	28.8	25.8	24.6	23.7	22.7	22.9
40.5	39.1	37.8	36.2	35.1	33.1	29.9	26.7	25.1	24.4	22.8	22.9
41.8	40.5	38.1	36.4	35.2	33.6	30.5	27.4	25.5	24.5	22.7	22.8
42.7	40.6	39.5	38.5	37.4	34.9	31.8	28.7	26.4	25.2	22.8	22.9
43.7	41.6	41	40.8	38.9	36.2	33.6	30.9	29	26.8	23.6	23
44.6	44.4	42.8	42.3	41	38.9	35.8	32.5	30.2	27.4	24.5	23.2
45.8	45.7	44.6	44	43.3	40.8	38.1	34.7	31.8	28.6	26.1	23.5
46.5	46.1	44.9	44	43.3	40.7	38.1	34.9	31.8	28.6	26.1	23.7
48	47.3	45.2	43.8	42.2	40.3	38.3	34.9	31.5	28.4	25.9	23.8
47.7	46.3	44.8	43.7	42	40.3	38.3	34.9	31.6	28.5	26.1	24.1
48.3	46.2	45.2	44.1	42.5	41.2	41	38.7	34.9	32.3	30.6	28.5
48.1	45.6	44.9	45	42.5	42.1	43.8	41.5	37.6	35.8	33.9	32.5
47.3	45.3	44.7	44.2	41.1	41.6	43	41	37.2	35.4	33.3	31.9
47.1	44.9	44.2	43.9	40.9	41.4	42.6	40.6	37	35.2	33	31.3
48.1	45.5	46.4	46	43.6	44.8	44.1	42.1	40	37.8	35.1	32.3
49.1	47.7	48.6	48.1	46.5	48	46.6	44.3	42.6	40.4	37.1	33.4
49.8	48.6	48.8	47.5	46.6	47.7	45.8	44.4	42.5	40.2	36.6	32.8
48.8	47.4	46.8	45.3	43.9	44.8	42.8	41.2	39.2	36.9	33.1	29.6
47.5	46.4	45.3	43.4	41.6	41.9	39.8	38.2	36	33.4	29.9	26.8
46.6	45.1	43.9	41.2	40.2	39.7	38.2	35.6	33.1	30.4	27.1	25
45	43.1	42	39.1	39.1	37.9	35.2	32.9	30.4	27.4	24.7	23.6
42.8	40.7	39.7	37	36.4	35.3	32.8	30.9	28.3	25.2	23.3	23
40.6	38.6	37.6	35.4	34.5	33.3	31.5	29.8	27.6	24.3	22.7	22.7
39.3	37.4	36.5	34.6	33.2	32.5	31.5	30.1	28.2	25.2	23.6	23.1
37.8	35.9	35.4	33.3	31.6	31.8	30	30	28.8	24.9	23	23.2
36.9	35.4	34.3	32.5	31	30.5	29.2	28.8	27.1	23.7	22.4	22.8
36.2	34.7	33.3	32	30.2	29.4	28	26.8	25	22.8	22.1	22.7
35.6	34.2	32.7	31.4	29.4	28.5	27.5	26.3	24.6	22.5	21.9	22.7
35.5	34	32.9	31.1	29.2	28.3	27.5	28	26	22.8	22	22.7
35.6	34.2	33.4	31.5	29.9	29	28.4	28.6	26.8	23	22	22.6
36.5	34.7	34.4	32.6	31.1	30	29	27.1	25.1	22.3	21.9	22.5
37.2	35.2	34.5	33.2	31.3	30.1	29	27.2	25.2	22.2	22	22.7
38.9	37.8	36.1	36.2	36.7	33.6	31	29.8	27.9	24.2	22.3	22.8
39.3	37.4	36.7	36.1	35.2	33	30.7	28.9	26.8	23.7	22.2	22.7
39.2	37.7	37.4	36.5	35.3	33.2	31	29.1	26.8	24.1	22.6	22.9
39.2	37.8	37.4	36.9	35	33.6	31.4	29.8	27.9	24	22.3	22.8
39.3	38.3	37.4	37	35	33.6	31.4	29.6	27.7	24	22.3	22.7
39.8	41	38.6	38	36.9	36.1	32.9	31.6	29.3	25.3	22.5	22.7
40.3	40.7	38.7	37.6	37	35	33.2	31.8	29.3	25.7	22.7	22.8
41.1	41.3	39.1	37.8	40.1	38.2	34.4	34.3	30.5	26.8	23.1	23
42.4	42.3	40.6	39.1	40.2	38.7	35.5	34.8	32.6	28	24.1	23.3
42.8	42.8	40.6	39.7	39	38	35.7	34.6	32.6	29	24.8	23.7
42.6	42.6	40.2	39.9	39	38.2	35.6	34.5	32.7	29.4	28.6	28
42.9	43.3	41.3	41.2	39.4	38.1	35.2	33.9	32.3	30.2	46.4	44.4
44.1	43.8	43.4	41.8	39.5	37.8	35	34.1	32.4	29.4	45.4	42.4
43.9	43.7	42.9	41.4	39.6	38	35.1	33.8	32.7	29.8	41.2	38.3
43.6	43.2	42.6	41.3	39.7	38.2	35	33.6	32.6	29.5	38	35.2
45.9	46.1	45.1	45.1	45.2	44.2	41.3	39.3	38.1	35	37.5	34.9
51.2	51	49.7	49.4	48.9	47.8	45.3	43.4	42.2	39.5	37.8	35.6
54.7	53.7	53.2	52.5	51.7	50.6	48.9	47.6	47	44.4	41.3	38.6
54.9	53.9	53.2	52.5	51.3	50.4	49	47.7	46.9	44.2	41.3	38.7
55.4	53.9	51.8	51.6	50.1	49.3	47.9	46.8	45.5	42.3	39.3	36.4
53.1	51.6	49.7	49.9	49.2	47.9	47	44.7	43.5	39.9	36.5	33.5
51	49.3	47.5	47.8	46.7	46.6	46.6	42.6	41.2	37.9	35.1	32.6
49.3	48.2	46.6	46.5	45.7	45.8	45.5	41.7	40.1	36.9	34	31.6
47.4	46.3	45.7	46	45.3	45.8	45.4	41.6	40.1	36.9	34	31.6
45.7	44.3	43.4	43.4	44.9	43.9	47.8	40.4	37.9	35.7	32.3	29.9
44.6	44.1	43.2	41.9	42.3	41.3	44.4	38.3	35.9	33.9	30.9	28.2
43.7	43.3	42.2	40.6	40.6	40	42.7	37.2	35.4	34.1	32.4	29
54.4	51.1	55.7	52.5	47	45.2	40.6	36.7	33.7	31	29.6	26.5
50.5	47.3	51.6	48.4	43.5	41.3	37.1	33.7	31.2	28.2	26.8	24.7
47.1	44.5	47.9	45	40.6	38.2	34.9	32.1	29.7	26.3	25	23.8
45.5	43.3	45.7	43.3	39.8	37.4	34.5	31.8	29.7	26.2	24.7	23.7
46.1	43.6	45.4	42.5	40.5	37.9	35.3	33	30.4	26.7	24.9	23.8
48.9	45	45.6	42.4	41	38.6	36.1	33.5	30.1	26.8	24.7	23.8
50.1	47.2	47.1	42.9	42.1	39.4	36.8	33.6	30.4	27.1	24.9	23.6
51	48.4	47.6	43.2	40.6	37.1	34.5	31.5	28.8	25.8	23.7	23.1
48.2	45.9	44.8	40.8	37.8	34.4	32.5	29.6	27.1	24.4	22.8	22.9
45.2	43.2	42.2	38.5	35.7	32.8	30.4	28.4	26	23.4	22.4	22.7
42.6	40.9	39.5	36.5	33.9	31.8	29.2	27.2	25.1	22.8	22	22.6
40.5	38.2	37.1	34.6	32	32.4	29.5	25.5	23.6	22	21.8	22.6
38.2	36.1	35.7	33	30.4	29.8	27.1	23.9	22.3	21.5	21.8	22.6
36.6	34.7	34	31.7	29.3	27.9	25.6	22.8	21.4	21.2	21.7	22.6
35.3	33.4	32.9	30.8	28.6	27.4	25.1	22.5	21.3	21.1	21.7	22.6

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
26.4	25.1	0.2	No	No	
27.8	25.6	1.4	No	No	
26.4	25.1	0.8	No	No	
25.3	24.9	1.9	No	No	
25.4	24.8	0.5	No	No	
25	24.7	0.7	No	No	
24.6	24.6	2.6	No	No	
24.1	24.6	2.6	No	No	
23.9	24.5	0.6	No	No	
23.8	24.5	1.3	No	No	
23.9	24.5	1.7	No	No	
24	24.5	0.5	No	No	
24.1	24.6	0.3	No	No	
24	24.5	0.1	No	No	
24	24.5	0.6	No	No	
23.9	24.5	1.1	No	No	
23.8	24.4	0.5	No	No	
23.6	24.5	0.4	No	No	
23.6	24.5	3.5	No	No	
23.5	24.4	2.6	No	No	
23.6	24.3	4.2	No	No	
23.5	24.4	4.3	No	No	
23.6	24.4	0.7	No	No	
23.6	24.4	-0.3	No	No	
23.6	24.5	0.4	No	No	
23.6	24.4	0.8	No	No	
23.6	24.4	-0.2	No	No	
23.5	24.4	0.1	No	No	
23.6	24.5	0.3	No	No	
23.6	24.5	0.5	No	No	
23.6	24.4	2.8	No	No	
23.7	24.4	0.6	No	No	
23.7	24.4	0.3	No	No	
23.9	24.5	0.4	No	No	
25.6	25.2	0.6	No	No	
28.2	26.4	0.4	No	No	
27.3	26.1	0.3	No	No	
27	25.6	0	No	No	
27.8	25.5	1.5	No	No	
29.3	25.6	0	No	No	
29.1	25.7	2.9	No	No	
26.7	25	2.7	No	No	
25	24.7	2.7	No	No	
24.3	24.6	2.7	No	No	
23.8	24.5	4.6	No	No	
23.6	24.5	2.7	No	No	
23.5	24.5	0.5	No	No	
23.6	24.5	2.5	No	No	
23.8	24.6	1.2	No	No	
23.6	24.4	0.8	No	No	
23.5	24.4	1.4	No	No	
23.4	24.4	1.1	No	No	
23.4	24.4	0	No	No	
23.5	24.5	1	No	No	
23.5	24.5	1.6	No	No	
23.5	24.5	11.4	No	No	
23.5	24.5	7.1	No	No	
23.4	24.5	3.3	No	No	
23.6	24.6	0.3	No	No	
23.6	24.5	0.4	No	No	
23.5	24.5	0.2	No	No	
23.5	24.5	0.9	No	No	
23.6	24.5	-0.1	No	No	
25.2	25.2	0	No	No	
26.7	25.7	0.4	No	No	
25.6	25	1.6	No	No	
24.9	24.8	0.7	No	No	
24.6	24.8	2.1	No	No	
24.3	24.6	2.2	No	No	
24	24.6	5	No	No	
24	24.6	-0.3	No	No	
25.7	25	-0.3	No	No	
28.4	25.9	0.9	No	No	
32.4	27.6	0.5	No	No	
32.5	27.8	0.4	No	No	
30.2	26.6	4.7	No	No	
28.4	25.7	6.5	No	No	
28.2	25.7	6.1	No	No	
28.1	25.7	4.7	No	No	
28.1	25.7	16.1	No	No	
26.8	25.4	13.6	No	No	
25.7	25	10.5	No	No	
26	24.9	22.4	No	No	
24.7	24.7	21.9	No	No	
24.1	24.5	19.2	No	No	
23.8	24.5	15.7	No	No	
23.7	24.5	7.9	No	No	
23.7	24.5	4.4	No	No	
23.6	24.5	0.3	No	No	
23.6	24.5	0.9	No	No	
23.6	24.5	3.1	No	No	
23.5	24.4	3.6	No	No	
23.6	24.4	1.7	No	No	
23.5	24.4	2.8	No	No	
23.5	24.5	1.1	No	No	
23.4	24.5	1	No	No	
23.5	24.4	1.3	No	No	
23.5	24.3	0.1	No	No	

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
195		11/19/2021	12:58:16 PM	46.1	56.7	45.9	45.7	88.4	14.9	49.5	57.1	58.5	56.7	52.5	46.1	43.8	39.6	38.1
196		11/19/2021	12:58:17 PM	46.6	56.7	46.5	45.8	88.7	15.3	49.8	58.4	59.7	58.3	51.9	45.7	45.5	39.5	38.8
197		11/19/2021	12:58:18 PM	47.6	60.6	47.3	46.5	88.5	14.9	47.3	56.9	60.2	57.8	51.3	45.2	45	40.7	41.3
198		11/19/2021	12:58:19 PM	47.5	61.4	47.6	47.0	88.7	14.3	51.6	62.6	62.2	57.4	51.4	44.6	46.9	40.6	39.4
199		11/19/2021	12:58:20 PM	47.2	62.7	47.6	47.2	88.7	14.5	57.3	58.1	61.4	57.9	52.9	44.6	45.7	42.9	37.9
200		11/19/2021	12:58:21 PM	46.6	56.7	47.5	46.9	88.7	15.3	53.3	59	59.3	57.9	51.6	43.9	45.1	41.8	37
201		11/19/2021	12:58:22 PM	47.6	59.7	47.6	47.0	88.7	13.6	49.8	60.6	61.1	58.7	51.2	44.1	46.4	43.2	36.7
202		11/19/2021	12:58:23 PM	48.8	60.6	48.6	47.2	88.7	11.5	50.8	55.8	60.1	57	51	43.6	47.7	44.3	37.6
203		11/19/2021	12:58:24 PM	48.0	60.6	48.7	48.1	88.8	13.7	55.4	57.6	58	58.3	52.1	45.1	47.3	43.6	37.3
204		11/19/2021	12:58:25 PM	45.1	56.7	48.0	46.5	88.7	15.8	52.6	59.7	60.6	57.6	51.3	44.0	43.5	39.1	36.1
205		11/19/2021	12:58:26 PM	45.3	56.7	46.5	45.8	89.0	16.1	54.5	59.8	61.8	57.4	50.5	44.3	44.4	38.7	35
206		11/19/2021	12:58:27 PM	45.6	58.4	45.8	45.5	88.8	14.8	59.1	55.6	60.2	56.8	50	43.7	45.1	39.6	35.6
207		11/19/2021	12:58:28 PM	45.9	58.4	46.2	45.8	88.7	15.8	54.1	55.4	60.7	56.2	50.9	43.6	45.2	39.8	36.5
208		11/19/2021	12:58:29 PM	45.0	56.7	45.8	45.3	88.8	17.4	51.5	54.3	62	58.1	51.2	43.5	42.9	39.6	34.6
209		11/19/2021	12:58:30 PM	46.9	62.1	46.5	45.2	88.9	14.2	51.7	54.9	63.6	57	50.8	44.4	44.2	42.5	38
210		11/19/2021	12:58:31 PM	46.7	62.1	46.7	46.3	88.7	15.5	50.3	55.7	62	58.6	52.1	45.7	44.9	41	37
211		11/19/2021	12:58:32 PM	47.9	65.9	47.7	46.6	88.9	13.8	46.4	57.8	61.7	58.1	51.2	44.9	44.9	43.5	40.8
212		11/19/2021	12:58:33 PM	48.2	63.6	48.3	46.9	88.9	17.5	49.3	55.8	60	57.5	52.7	45.9	45.2	43.3	39.4
213		11/19/2021	12:58:34 PM	47.9	59.7	48.3	47.9	88.8	15.2	49.3	64.4	64.7	60.7	54	46.8	44.9	43.4	39.5
214		11/19/2021	12:58:35 PM	47.0	58.4	48.1	47.4	89.1	15.6	53.1	66.5	63.6	59.6	52.5	45.3	44.2	42	38.6
215		11/19/2021	12:58:36 PM	49.0	62.7	48.5	47.4	89.0	12.4	52.0	60.3	61.3	55.9	52.1	47.2	45.7	44.2	41.4
216		11/19/2021	12:58:37 PM	51.5	69.9	50.9	48.5	89.1	11.9	50.9	55.8	59.3	60.2	51.7	47.8	48.5	45.9	44.3
217		11/19/2021	12:58:38 PM	52.6	71.6	52.1	50.9	89.0	9.9	51.1	56.9	61	59.9	51.4	49.1	48.4	48	45.1
218		11/19/2021	12:58:39 PM	50.8	66.7	52.0	51.2	89.1	13.5	53.4	56.8	61.5	58.7	52.4	49.4	48.3	46.7	41.9
219		11/19/2021	12:58:40 PM	49.6	63.2	51.2	50.2	88.9	17.7	50.8	57.1	66.7	63.4	52.7	47.2	48	44.4	39.8
220		11/19/2021	12:58:41 PM	49.7	74.1	50.9	49.7	89.1	17.9	47.7	59.2	67.7	62.6	52.1	46.1	46.3	43.9	40.9
221		11/19/2021	12:58:42 PM	49.7	63.6	49.8	49.4	89.0	15.2	48.6	55.7	68	58.6	51.4	47.4	46.9	44.4	41.5
222		11/19/2021	12:58:43 PM	52.1	70.0	51.3	49.8	89.1	11.5	51.4	62.3	65.1	59.7	53.7	48.9	49.7	46.7	44.8
223		11/19/2021	12:58:44 PM	51.7	63.6	51.6	51.3	89.1	12.2	48.2	57.2	62.6	58.9	52	50.1	49.4	47.2	43.2
224		11/19/2021	12:58:45 PM	52.8	71.1	52.5	51.6	89.0	12.1	52.2	57.4	64	60.4	53.8	50.8	50.8	48.1	43.6
225		11/19/2021	12:58:46 PM	54.4	68.6	53.9	52.4	89.1	9.7	44.6	55.6	66.2	58.9	53.3	51.5	51.7	50.8	45
226		11/19/2021	12:58:47 PM	54.0	66.9	54.0	53.7	89.1	11.2	49.9	55.7	63.7	60.4	55.6	51.4	51.2	50.4	45.5
227		11/19/2021	12:58:48 PM	54.0	66.9	54.1	54.0	89.2	13.3	49.8	56.9	65	61.2	53.6	50.5	49.9	50	46.6
228		11/19/2021	12:58:49 PM	53.2	66.4	54.0	53.5	89.2	17.2	49.7	55.5	68.8	63	55.8	51.2	49.7	48.7	44.6
229		11/19/2021	12:58:50 PM	54.5	67.4	54.3	53.6	89.1	16.4	49.5	56.8	70.6	69.8	59.2	53.5	51.3	49.7	45.4
230		11/19/2021	12:58:51 PM	54.1	66.9	54.3	53.8	89.4	17.1	49.1	58.5	64.3	70.6	55	50.7	50.1	50.1	45
231		11/19/2021	12:58:52 PM	53.8	67.6	54.4	53.8	89.4	16.2	50.0	57.1	62.7	71.9	55.1	50.8	49.8	49.3	45.4
232		11/19/2021	12:58:53 PM	51.0	63.2	53.8	52.2	89.4	21.9	53.8	61.6	62.1	72.1	54.7	49.1	47.1	45.6	41.6
233		11/19/2021	12:58:54 PM	50.2	63.2	52.2	51.0	89.4	22.3	54.5	59.3	63.5	73.7	54.6	48.9	46.4	44.8	40.7
234		11/19/2021	12:58:55 PM	49.0	61.4	51.0	49.7	89.4	17.8	56.2	56.5	61.6	70.6	52.4	47.3	45.7	44	40.8
235		11/19/2021	12:58:56 PM	48.0	59.7	49.7	48.8	89.2	17.4	51.0	57	62.8	63.1	53.2	47.8	45.1	42.9	39.2
236		11/19/2021	12:58:57 PM	49.1	60.6	49.0	48.7	89.4	18	48.2	55.1	60.3	67.3	53.9	47.4	46.1	43.5	39.2
237		11/19/2021	12:58:58 PM	48.8	62.7	49.0	48.8	89.4	17	53.8	55.8	63.1	64.4	53.9	47.6	46	43.3	40.7
238		11/19/2021	12:58:59 PM	49.2	59.7	49.1	48.9	89.5	15	52.7	58.4	65.4	62.5	53.9	47.4	46.7	44.6	40.3
239		11/19/2021	12:59:00 PM	48.6	62.1	49.0	48.7	89.5	13.4	48.9	58.3	59.7	59.9	53.4	47.3	45.9	44	39.5
240		11/19/2021	12:59:01 PM	49.8	62.7	49.7	48.7	89.4	13.5	51.0	58.1	58.5	61.3	54.2	47.2	45.9	45.4	42.3
241		11/19/2021	12:59:02 PM	49.7	62.1	49.9	49.6	89.6	13.9	54.1	58.1	60.1	59.5	53.4	48.2	46.3	45.4	42
242		11/19/2021	12:59:03 PM	48.5	60.6	49.6	48.9	89.5	16.4	50.6	57.8	63.5	60.7	54	47.3	45.9	43.9	39.1
243		11/19/2021	12:59:04 PM	49.0	60.6	49.2	48.9	89.5	15.3	49.6	57.3	65	60.2	54.5	47.0	45.6	44.6	40.5
244		11/19/2021	12:59:05 PM	49.0	62.1	49.2	48.8	89.6	15.8	49.1	56.4	64.8	61.3	54.7	48.2	46	44.8	40.2
245		11/19/2021	12:59:06 PM	51.5	64.8	51.2	48.8	89.6	13.1	51.9	64.2	63.2	60.8	56	53.7	47.9	45.5	41.1
246		11/19/2021	12:59:07 PM	52.8	65.1	52.2	51.2	89.6	13.2	61.7	55.3	60.5	62.7	61.9	57.5	49.3	47.2	42.6
247		11/19/2021	12:59:08 PM	53.5	65.1	53.1	52.2	89.6	12.4	56.0	55.6	59.7	61	60.6	54.9	50.5	48.4	43.6
248		11/19/2021	12:59:09 PM	55.3	67.3	54.6	53.1	89.6	11.8	54.3	56	62.7	61.9	61.1	55.8	53.6	50	45.1
249		11/19/2021	12:59:10 PM	55.6	67.8	55.3	54.6	89.6	12.3	50.4	56.2	63.3	62	60.9	55.1	53.8	50.9	45.8
250		11/19/2021	12:59:11 PM	56.1	67.8	55.8	55.2	89.7	12.5	50.6	57.3	65.7	67.6	60.7	54.1	52.5	52.5	47.1
251		11/19/2021	12:59:12 PM	55.0	68.4	55.9	55.2	89.6	11.3	49.6	56.4	61.5	64.4	59.1	53.9	52.2	51.4	45.7
252		11/19/2021	12:59:13 PM	53.0	64.8	55.2	53.9	89.7	14.8	52.0	61.5	63.5	64	55.4	51.3	50.4	48.7	44.1
253		11/19/2021	12:59:14 PM	51.7	63.6	53.9	52.6	89.6	13.8	56.6	67	66.9	61.7	56.3	50.6	48.7	48.2	42.4
254		11/19/2021	12:59:15 PM	50.5	62.7	52.6	51.4	89.8	13.3	61.0	59.8	65.4	60.5	55.5	50.0	47.5	46	41.5
255		11/19/2021	12:59:16 PM	50.2	60.6	51.4	50.7	89.7	13.4	58.5	54.3	63.1	58.9	57.1	50.4	46.4	45.5	42.2
256		11/19/2021	12:59:17 PM	49.3	60.6	50.7	49.9	90.0	15.2	52.4	60.1	63	59.3	56	48.0	45.9	45	41.2
257		11/19/2021	12:59:18 PM	49.4	60.6	49.9	49.4	89.8	15.1	46.9	59.3	65.5	59.7	58.2	49.4	46	43.2	39.9
258		11/19/2021	12:59:19 PM	50.6	63.2	50.3	49.6	89.8	16.5	47.7	58.5	64.7	59.9	57.9	52.1	46.8	44.4	41.3
259		11/19/2021	12:59:20 PM	51.2	63.2	50.9	50.3	89.8	13.6	48.5	57.7	68.6	62.5	56.2	50.5	48.1	46.1	42.8
260		11/19/2021	12:59:21 PM	53.4	68.6	52.7	50.9	89.7	11.9	48.9	58.8	63.4	61.2	57.6	52.2	49	49.8	44.7
261		11/19/2021	12:59:22 PM	55.8	69.7	55.0	52.8	89.7	11.1	47.3	59.5	64.3	61.6	55.8	52.2	52.3	53	46.4
262		11/19/2021	12:59:23 PM	56.2	67.6	55.8	55.1	90.0	10.8	52.2	61.4	67	63.3	57.4	54.2	52	53.7	46.8
263		11/19/2021	12:59:24 PM	56.6	68.4	56.4	55.8	90.0	13.4	48.3	60.9	66.9	62.9	58.2	55.8	53.2	53.2	47.2
264		11/19/2021	12:59:25 PM	55.6	67.3	56.3	55.8	90.0	15.1	55.8	61.6	72	62.1	59.3	54.1	52.4	51.6	46.3
265		11/19/2021	12:59:26 PM	55.7	68.4	56.2	55.6	90.1	14.8	52.7	57.9	73.1	63.3	58.8	53.5	52.7	51.9	47.2
266		11/19/2021	12:59:27 PM	55.0	66.4	55.6	55.3	90.0	15.9	53.0	62.6	72.7	64.6	58.9	55.5	52.2	50.5	45.8
267		11/19/2021	12:59:28 PM	55.8	67.6	55.7	55.2	90.0	15.2	49.7	64.1	73.4	68.7	60.2	54.7	52.6	51.6	46.3
268		11/19/2021	12:59:29 PM	57.9	70.5	57.1	55.7	89.8	13.9	52.9	66.6	71.3	64.6	58.7	55.5	54.5	53.9	49.7
269		11/19/2021	12:59:30 PM	55.8	67.6	57.2	56.2	90.1	14.2	51.2	58.8	75.2	63.1	59.2	54.0	52.8	51.4	47.4
270		11/19/2021	12:59:31 PM	58.4	73.4	58.3	55.7	90.3	11.3	52.7	57.8	67.8	61	58.6	54.1	52.2	51.7	51.7
271		11/19/2021	12:59:32 PM	62.1	74.8	60.9	58.3	90.1	13.1	49.8	59.2	73.6	69.8	63.1	58.5	55.9	54.9	55.8
272		11/19/2021	12:59:33 PM	58.2	70.8	60.8	59.3	90.2	13.7	50.2	60.9	76	63.9	61	56.1	53.3	53.2	50.7
273		11/19/2021	12:59:34 PM	56.2	70.0	59.3	57.5	90.1	16.5	51.8	60.8	74.6	62.2	60.9	57.1	52.2	50.6	47.4
274		11/19/2021	12:59:35 PM	56.8	71.1	57.5	56.9	90.1	12.6	53.8	61	74.6	64.9	59.8	56.0	53.6	50.6	49.3
275		11/19/2021	12:59:36 PM	60.0	72.7	59.4	57.2	90.1	11.9	49.9	60.5	66.3	67.6	63.7	58.5	56.1	54.9	52.8
276		11/19/2021	12:59:37 PM	61.2	73.0	60.6	59.4	90.2	12.1	49.7	63.6	73.4	66.2	64.2	59.7	57.8	56.7	52.6
277		11/19/2021	12:59:38 PM	60.5	73.0	60.7	60.2	90.2	16.5	54.2	63.7	74.7	64.4	70	61.7	55.3	53.6	49.6
278		11/19/2021	12:59:39 PM	58.6	71.5	60.6	59.4	90.2	16.3	56.6	62	79.3	63.9	69.5	62.2	54.8	50.9	45.9
279		11/19/2021	12:59:40 PM	56.9	69.1	59.4	58.1	90.2	20.7	58.6	63.3	76.9	65.4	66.8	58.3	53.4	49.5	45.3
280		11/19/2021	12:59:41 PM	56.0	66.7	58.1	56.8	90.2	16.8	54.1	59.4	79.7	68.7	66.5	57.0	53.8	49.5	46.3
281		11/19/2021	12:59:42 PM	54.2	67.1	56.8	55.3	90.2	16.1	50.4	57.5	72.9	69.7	59.4	55.0	51.7	48.3	45.2
282		11/19/2021	12:59:43 PM	52.8	65.1	55.3	53.8	90.1	16.7	48.0	57.8	69.2	69.2	60.3	56.3	49.4	46.3	42.6
283		11/19/2021	12:59:44 PM	52.6	65.1	53.8	52.9	90.3	15.9	48.7	57.5	67.2	65.4	60.1	56.3	50.2	45.8	40.5
284		11/19/2021	12:59:45 PM	53.8	66.7	53.7	53.1	90.4	14.7	48.7	56.6	67.4	65.6	58	56.4	52.5	48	42.6
285		11/19/2021	12:59:46 PM	55.6	66.4	55.0	53.7	90.3	14.4	49.9	59	68.1	64	59.3	59.4	52.7	50.9	45.2
286		11/19/2021	12:59:47 PM	56.3	68.7	55.9	54.9	90.4	13.7	48.9	58.1	72.8	60.7	58.2	56.7	52.2	52.8	48.1
287		11/19/2021	12:59:48 PM	56.1	69.3	56.1	55.9	90.2	9.6	50.3	59.4	71.2	60.3	60	54.9	53.2	52.2	47.7
288		11/19/2021	12:59:49 PM	58.0	70.1	57.6	56.0	90.4	7.6	52.9	56.4	64.2	58.8	58.2	56.3	55	54.1	49.7
289		11/19/2021	12:59:50 PM	63.6	76.5	62.2	57.7	90.4	7.6	54.8	57.9	63.8	61.5	66	62.5	59.9	60.8	52.8
290		11/19/2021	12:59:51 PM	60.4	72.0	62.2	60.9	90.4	8.5	49.2	60.8	63.3	66.4	64.8	60.4	56	58.1	50.1
291		11/19/2021	12:59:52 PM	55.0	67.8	60.9	58.1	90.6	12.8	51.5	60.1	64.2	63	61.1	55.5	50.8	51.3	44.5
292		11/19/2021	12:59:53 PM	53.3	65.1	58.1	55.8	90.4	12.3	55.1	62.6	65.6	61	59	55.3	50.3	49.1	42

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
31	26.9	28.3	51.7	58.2	61.7	58.3	52.5	46.3	44.1	39.8	37.6	30.8
31.8	27.4	28.3	50.7	58.3	60	58.3	52.4	45.9	45.1	39.7	38.5	31.6
34.9	27.2	28.3	50	58.4	60.3	58.6	52.1	45.9	45.1	40.5	40.5	34
33.3	27.7	28.4	51.2	61.9	62.1	58.2	51.9	45.4	46.8	40.8	40.6	34.2
32	27.2	28.3	56.1	60.3	61.6	58.1	52.6	45.1	46.8	42.4	39.7	33.2
31.6	27.5	28.2	56.3	59.9	61.5	58.3	52.6	44.6	46.1	42.5	38.8	32.6
30.2	27.1	28.3	54.9	60.1	61.2	58.6	52	44.5	46.3	43	37.6	31.8
29.8	26.5	28.4	52	60	61.3	58.6	51.5	44.1	47.7	43.9	38.1	30.9
31	27.3	28.3	54.8	58.4	60.1	58.1	52	44.7	48.1	44.2	37.9	30.8
31.8	27.5	28.4	55.3	59.4	60.1	58.2	52.1	44.7	47.1	43.6	36.9	31.5
30.5	26.8	28.4	55	60.4	61.5	57.8	51.7	44.4	45.3	41.4	36.7	31.7
29.6	26.7	28.5	58.1	59.5	61.2	57.9	50.9	44.5	45.2	40	35.9	30.8
30.4	27.1	28.5	57.7	57.6	62.2	57.2	51	44.1	45.4	40.5	36.8	30.9
29.3	26.7	28.6	55.4	56.5	61.5	57.7	51.3	43.8	45.1	39.8	36	30.2
31.4	27.2	28.5	53.7	55.4	63.2	57.6	51.2	44.3	44.2	41.9	37.4	30.9
32.4	28.6	29.3	52.3	55.8	63.2	58.5	51.8	45.5	44.7	41.9	37.3	32.1
32.7	27.7	29.6	51.4	57.8	62.4	58.6	51.8	45.6	44.9	42.9	40.3	32.8
32.4	28.1	29.7	49.6	56.8	61.8	58.3	52.5	46.2	45.4	43.5	39.9	32.6
32.5	28.3	29.3	49.7	64.6	64.6	59.8	53.5	46.7	45.6	43.7	39.9	32.7
33.6	31.3	30.1	52.5	67.4	64.3	60.5	53.4	46.3	45	43.4	39.9	33.3
36.6	34.5	30.5	53.1	64.5	64	59.4	53.1	46.8	45.5	43.7	40.6	35.7
40.1	36.8	32	52	62.3	62.2	59.6	52.4	47.7	47.8	45.4	43.8	39.5
41.4	37.7	39	52.1	59.6	61.1	60.3	51.9	48.7	48.2	47.3	44.9	41.6
36.9	35.2	34.5	53.3	58.1	61.9	59.5	52.4	49.4	48.3	47.4	44.5	40.7
36.5	35.3	36.9	52.6	57.8	65.6	62.9	52.7	48.9	48.9	46.8	43	38.6
40.7	37.7	30.4	51.3	59.2	67.3	63.3	52.8	48	47.8	45.6	42.3	41.3
37.8	30	28.7	49.7	58.4	68.4	62.5	52.3	47.4	47.2	44.6	41.4	38.7
40.6	33.4	29.3	50.8	61	67.4	60.6	53.2	48.5	48.9	46	43.9	39.9
38.8	31.7	28.7	50.6	60.7	66	60.1	53.2	49.7	49.4	46.9	43.7	39.7
40.6	34.5	29.9	51.7	58.8	64.6	60.5	53.9	50.7	50.5	47.7	43.7	40.4
41.2	33.1	28.9	51.2	58.4	66.1	60.8	53.6	51.4	51.5	50	44.7	41.1
41.3	34.1	28.9	50.3	57.1	65.9	60.2	55	51.6	51.5	50.3	45.4	41.3
42.4	35	28.9	49.8	57.2	65.2	61.1	54.7	51.4	51.3	50.3	46.3	42
41.2	34.6	29	50.2	56.5	67.9	62.9	55.3	51.2	50.5	50.1	46.1	42
42.5	34.9	29.3	50.8	56.9	70	68.3	58.1	52.8	51	49.8	45.5	42.3
42.3	35.5	29.4	50.2	58.1	69.4	70	58	52.7	50.8	50.1	45.4	42.4
42.3	34	29	50	58.1	66.8	71.2	56.4	51.6	50.5	50.3	45.6	42.9
35.3	29.2	28.4	53.6	61.2	64.3	72.2	55.6	51	50	49.4	45.2	41.9
35.9	28.7	28.4	54.7	60.7	64	73.2	55.6	49.9	48.3	47.3	43.2	38.9
35	27.1	28.3	56	60	64	73.2	54.7	49.5	47.2	45.9	42	37.4
32.1	26.4	28.3	55.5	58.6	62.8	71.4	53.6	48.3	46.2	44.8	41	35.6
31.8	26.9	28.3	53.4	57.4	62.7	68.1	54	48	46	43.7	40	33.9
33	27.7	28.4	53.1	56.6	62.8	67.8	54	47.9	46.3	43.8	40.5	33.2
33.3	27.4	28.4	53.3	58.4	64.8	65.8	54.3	48.1	46.4	44.3	40.6	33.6
33.6	29.8	29	53.2	59.4	64.4	64.2	53.9	47.5	46.4	44.2	40.3	33.4
35	27.3	28.3	51.2	58.6	62.1	61.9	54.1	47.5	46.2	45.1	42.1	34.8
34.5	28.3	28.3	53.2	58.7	60.6	61.5	54.1	48	46.3	45.4	42.5	35.1
32.2	27	28.4	53	58.5	63	60.7	54	47.8	46.4	45.3	41.9	34.7
32.9	26.8	28.3	51.3	58.1	64.4	60.7	54.4	47.8	46.1	44.9	40.7	33.3
32.9	27.7	28.3	50.4	58.1	65.2	61.1	54.7	47.9	46	44.8	40.7	33.3
33.7	27.9	28.3	51.9	62.7	65.2	61.1	55.9	53.5	47.2	45.3	41	33.6
36.4	30.4	28.4	60.1	61.8	64	62.5	60.6	56.7	48.6	46.6	42	35.5
37.3	31.1	28.6	60.2	58.9	62.2	62.7	60.7	56	50	48	43.2	36.9
38.8	31.8	28.6	57.6	57.1	62.2	62.2	61.4	55.6	52.6	49.4	44.5	38.2
39.4	32.5	28.6	55.6	57.3	63.3	62.1	61.7	55.7	53.5	50.6	45.4	39
39.4	31.1	28.4	53.3	57.5	65.3	66.4	60.8	55.2	53.4	52	46.5	39.2
37.9	29.6	28.4	52	57	64.3	66	60.8	54.6	52.9	52.1	46.6	39.2
35.6	27.7	28.3	52.6	60.5	63.9	65.1	59.6	54	52.2	51.4	45.9	38.2
35.4	26.8	28.3	56.1	65.8	65.9	64.8	57.4	52.5	51.2	49.9	44.8	36.9
33	26.7	28.3	60.5	65.6	66	63.3	56.8	51.3	49.7	48.9	43.4	35.9
33.4	26.7	28.4	60.7	62.7	65.1	61.5	57.1	51	48.4	47.3	42.4	34.3
31.9	26.7	28.3	58.8	60.7	63.9	60.1	56.9	50.4	47.3	46.3	42.3	33.8
32.9	26.8	28.3	56	59.8	65.2	59.9	57.7	49.4	46.6	45.4	41.6	33
34.4	28.2	28.4	52.6	59.8	65.4	59.9	58	51.2	46.7	44.4	41.1	34
36.5	29.9	28.6	50.3	58.9	67.6	62	58	51.3	47.7	45.7	42.3	35.8
37.9	30.7	28.6	50.2	59.1	67.4	61.8	57.7	51.9	48.5	48.8	44	37.2
39	31.7	28.7	48.8	59.9	65.3	61.8	57.7	52.1	51.5	52.1	45.7	38.5
39.3	31.9	28.8	51.7	61.2	66.7	63.1	57.1	53.6	51.9	53.1	46.4	39.1
40.1	33.2	29.5	51.6	61.7	67	63.1	58.1	55.3	52.9	53.2	47	39.8
41.6	34.9	30.4	55.2	61.5	71	63.2	59	55.3	52.7	53.1	46.8	41.2
42.8	35.7	30.5	53.7	61.3	72.5	63.5	59.4	54.5	53.2	52.5	47.2	42.5
41.2	34.1	29.5	53.8	62.5	73.6	64.1	59.1	55	52.4	51.9	46.8	41.9
42.2	35.2	29.5	53.7	64.3	73.4	67.9	59.9	55.1	52.6	51.5	46.4	42
44	37	29.8	53	65.9	72.8	67.8	59.9	55.7	53.8	53.2	48.8	43.3
41.9	36.3	29.6	52.7	65.4	74.8	66.2	59.7	55.2	53.9	53.3	48.8	43.3
50.6	45.6	36	52.6	62.5	74.9	64.6	59.1	54.5	53	52.1	51.3	49.8
54.8	49.4	38.4	52.5	60.3	73.9	68.5	62.3	57.5	55.2	54.1	54.5	53.4
48.6	43.1	33.1	51.3	60.7	76.1	68.5	61.9	57.3	54.8	54	54.4	53.4
44.7	38.3	30.4	51.8	61.1	75	66.1	61.5	57.1	53.9	53.5	52.3	50.8
44.6	37.5	29.5	53.8	61.4	75.4	64.8	61.4	57	53.5	51.8	49.8	47.9
49	42.8	32.1	52.8	60.9	74.4	66.9	62.9	57.9	55.5	54.2	52.1	48.5
48.7	43.3	34	51.2	63.1	73	67	64.1	59.3	57.1	56	52.6	48.9
45.4	39.4	32.8	53.6	63.6	74.5	66.2	69.2	61.4	57.1	55.9	52.3	48.4
41.4	34.8	30.2	56	63.6	78.5	65.1	69.5	62.4	56	54.5	50.7	46.7
41.5	34.8	29.4	58.4	63.6	78.3	65.4	69.3	61.6	55.3	52.5	48.2	44.1
42.4	36.1	29.4	57.4	63.2	80.2	67.6	68.7	59.7	54.3	50.8	46.8	42.8
41	34.9	28.9	55.3	61.1	78.3	69.1	66.4	58.2	54.1	49.9	46.5	42.6
37.6	31	28.6	53	59.5	75.7	69.4	63.4	56.5	52.6	48.8	45.6	41.6
36	29.7	28.5	50.8	59.1	72.9	69.2	61.8	56.6	50.8	47.4	43.8	39.3
37.8	30.4	28.6	50.2	57.6	70.4	67.3	60.7	57	52.2	47.7	42.6	37.8
37.4	29.8	28.5	49.9	58.9	69.1	66.3	59.6	58.6	52.7	50	44.5	37.8
39.3	30.9	28.7	49.6	59.1	72	64.8	59.7	58.3	52.4	52	47.2	38.8
38.8	31.1	28.5	50.4	59.2	72.5	62.8	59.7	57.4	53.1	52.2	47.5	38.9
41.3	34.3	29.1	52.7	59.1	71.1	61.2	59.4	56.4	54.5	53.7	49.2	40.9
45.8	37.9	30.7	54.2	58.2	68	61.5	65	61.2	58.7	59.4	51.8	44.5
42.1	34.6	29.5	54.3	59.8	65.8	65.1	66	61.3	58.7	59.5	51.7	44.6
37	30	28.4	52	60.7	64.7	65	64.4	60.4	57	58.2	50.6	42.9
35.4	29.6	28.4	2/23/1900	2:24:00 PM	65.2	63.9	62.5	58	54.3	55.2	47.7	40.1

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
26.8	28.3	50	56.9	59.8	57.2	51.6	45.4	43.7	39.5	36.3	30.5	26.5
27.1	28.3	49.4	56.6	59.2	56.8	51.8	45.2	43.5	39.3	37.6	30.8	26.7
27.3	28.3	48.4	57.3	59.5	57.9	51.5	45.4	44.7	39.5	38.5	31.6	27.1
27.6	28.4	48.5	57.3	59.9	57.5	51.2	44.8	44.7	40.5	39.6	33.1	27.2
27.4	28.4	50.3	59.1	60.8	57.1	51.6	44.5	46	40.3	38.7	32.5	27.3
27.5	28.3	53.9	58.8	60.2	57.4	51.9	44.1	45.4	41.9	37.6	31.8	27.2
27.4	28.3	51.9	58.8	59.6	58	51.3	43.9	45.4	42	36.9	30.9	27.2
27.2	28.4	51.2	57.9	60	57.4	51	43.6	45.7	42.6	37	30.2	26.8
27.1	28.4	50.9	57.4	58.7	57.3	51.1	43.6	47.1	43	36.9	30.2	26.8
27.5	28.4	53.1	57	58.7	57.6	51.3	44.1	45.2	41.4	36.3	30.6	27.1
27.3	28.4	51.9	59.2	59.9	57.1	50.9	44	44.6	39.9	35.5	30.8	26.9
27	28.5	55.3	57.4	60.3	56.8	50.2	43.9	44.5	39.4	35	29.8	26.7
27.2	28.5	55.5	56.3	60.2	56.2	50.5	43.5	44.9	39.6	36	30.2	26.9
26.9	28.6	53.5	55.2	60.1	56.7	50.3	43.4	43.8	39.5	35.2	29.6	26.7
27.2	28.6	52.3	54.2	61.7	57.1	50.7	43.7	43.7	39.4	35.3	29.6	26.7
28.2	29.2	50.8	54.8	61.9	57.1	50.9	43.8	44.2	41.2	36.7	30.7	27.2
28.2	29.6	48.9	56	61.8	57.5	51.2	45.1	44.4	41.4	37.3	32	27.8
28.1	30.1	48.7	55.8	60.7	57.5	51.1	44.3	44.4	42.1	38.4	31.8	27.6
28.5	29.7	48.7	56	59.9	57.7	52.4	46.3	44.9	43.4	39.2	32.3	27.6
30.8	30.2	49	64.5	63.4	59.4	52.7	45.6	44.4	42.6	39	32.9	28.3
33.7	30.4	52	62.4	62.2	57.6	52.3	45.7	44.3	42.6	39	33.2	30.9
36.5	32	51	59.5	60.5	57.2	51.8	46.6	45.4	43.6	40.7	35.7	33.1
38.4	38.6	50.6	58.1	60.4	59.4	51.1	47.5	47.7	45.5	43.7	39.1	35.8
37.1	37.8	51.5	57	60.2	58.5	51.7	48.6	48	46.8	43	38.7	35.6
36.1	37.5	51.1	57.1	61.5	58.8	51.9	47.9	47.8	45.4	41.3	37.4	34.8
39.3	37.5	49.3	57	65.2	62.5	51.8	46.8	46.9	44.5	40.7	37.4	35.9
36	34.3	48.7	56.9	67.3	60.4	51.7	46.7	46.8	44.3	40.4	38	33.4
34	31.7	48	57.1	66	59.8	51.8	47.1	46.8	44.6	41.4	38.2	33.1
33.2	30.3	49.2	58.8	64.1	59.2	52.4	48.3	48.5	46	43.4	39.2	32.3
34.2	30.2	48.8	57.2	63.7	58.8	52.3	49.4	49.2	47	43.3	39.1	32.3
33.6	29.6	48.2	56.8	63.8	59.3	53.2	50.5	50.5	47.7	43.4	39.9	33.1
33.9	29.2	48.2	56.1	64.5	59.2	53.5	51	51.2	49.8	44.6	40.8	33.3
34.6	29	48.8	56.2	64.4	59.9	53.9	50.8	50.4	50.1	45.3	41.3	33.8
34.7	29	47.9	54.8	64.9	60.7	54.1	50.8	49.8	49.2	45.2	41.5	34.5
34.9	29.2	49.3	55.9	67.9	63.2	55.3	51	50.2	49.2	45.1	41.5	34.5
35.3	29.3	48.5	56.3	66.7	68.4	56.4	51.5	50.3	49.3	44.8	41.9	34.9
35.4	29.3	49	57.2	64.3	70	55.6	51	49.9	49.4	45.2	42	34.2
34.2	29	49.6	57	62.5	70	54.9	49.8	48.3	47.4	43.2	38.9	31.8
31.7	28.6	51.2	59.5	63	72.2	54.6	49.3	47.2	45.9	41.8	37.2	30.1
30.1	28.5	54.8	58.2	61.9	71.4	53.3	48.2	46.2	44.8	41.1	35.7	28.5
28.4	28.4	53.4	57	61.9	68.1	53.1	47.9	45.4	43.7	40	33.9	27.3
27.4	28.4	51	55.9	60.9	67.4	52.7	47.5	45.6	43.4	39.5	32.8	27
27.5	28.4	50.9	55.3	60.8	65.8	53.3	46.7	45.8	43.3	39.5	32.7	27
27.5	28.4	52.5	55	62.8	64.1	53.7	47.5	45.9	43.4	40.2	32.9	27.3
29.1	28.8	50.6	58	62.1	61.9	53.4	47.2	45.8	43.8	39.8	32.9	27.6
29	28.7	50.2	57.1	60.3	61.3	53.5	47.2	46	44.2	39.7	33.3	28
28.4	28.5	51.4	57.4	59.9	60.3	53.5	47.2	45.9	45.1	41.7	34	27.7
28.2	28.4	51.4	57.7	60.2	59.9	53.4	47.4	45.8	44.3	40.3	33.2	27.4
27.4	28.4	50.2	57.2	62.9	60.1	53.5	47.1	45.6	44.4	40.2	32.8	27
27.6	28.3	49.1	56.7	63.1	60.4	54.2	46.9	45.6	44.4	40.2	32.8	27.1
28	28.3	49.6	56.6	63.8	60.5	54.5	47.6	45.8	44.4	40.1	32.7	27.2
29.7	28.4	50.8	59	62.2	61.1	55.6	54.1	47.1	45.4	41.1	33.6	28
30.7	28.5	57.6	57.1	60.7	61.3	60.2	54.9	48.5	46.5	42	35.5	29.7
31.4	28.6	55.6	56.2	60.4	61.2	60.4	54.6	49.9	47.9	43.2	36.9	30.7
32.2	28.6	53.3	56.1	61.8	61.2	60.5	55.1	52.5	49.3	44.4	38.2	31.4
32	28.6	51.3	55.9	62.5	62.3	60.1	54.5	52.7	50.5	45.4	38.9	31.4
31.4	28.5	50	56.1	62.5	64.7	59.6	54	52.2	51.4	45.9	38.2	30.2
30.2	28.5	50.7	56.4	62.5	64.1	57.4	52.4	51.1	49.9	44.8	36.8	28.8
28.8	28.4	50.7	59.4	63.2	62.7	56.6	51.3	49.7	48.9	43.4	35.9	27.6
27.6	28.3	54.3	62.7	65.1	61.5	55.9	50.2	48.3	47.3	42.4	34.3	27.1
27.1	28.4	58.8	59.5	63.9	59.9	56.3	50.5	47.2	46.3	42	33.8	26.8
26.9	28.4	56.1	59.1	62.8	59.3	56.1	49.1	46.5	45.4	41.6	32.7	26.7
26.8	28.3	52.6	58.2	63.5	59.1	56.1	48.9	46.1	44.2	40.6	32.6	26.7
27.8	28.4	50.1	58.9	64.5	59.3	57.4	49.5	46.1	44	40.5	32.8	26.8
29.3	28.5	48.5	57.9	64.6	59.9	56.9	50.7	46.4	44.4	41.1	34	27.8
30.2	28.6	48.3	57.5	65.3	60.9	56.5	50.6	47.6	45.7	42.3	35.8	29.3
31.3	28.7	47.9	57.6	64.4	60.9	56.5	51.6	48.8	48.9	44.1	37.2	30.2
31.7	28.8	47.7	59.8	64.8	61.3	56.6	52.1	51.5	52.1	45.8	38.5	31.3
32.8	29.3	49.7	60.7	66.2	62.2	56.8	53.3	51.8	53	46.4	39.1	31.7
34.4	30	49.5	60.5	67.1	62.4	58.1	54.4	52.3	52.2	46.5	39.8	32.8
35.4	30.3	52.1	59.5	71.1	62.5	58.7	53.9	52.4	51.9	46.6	41.2	34.4
35	30.2	52.2	58.6	72	62.6	58.3	53.9	51.9	51	46.2	41.5	34.5
35	29.8	51.2	62.5	72	64	58.8	54.4	52.2	51	45.9	41.5	34.5
36.4	29.8	52.1	63	71.2	66.2	58.9	55	52.5	51.5	46.4	41.9	35
36.6	29.7	51.6	62.5	72.1	64.6	58.9	54.3	53	52	47.9	42.4	36.2
44.7	35.2	51.2	60.2	71.6	62.6	58.1	53.7	52.1	51.2	47.7	42.4	36.2
48	37.5	51	59.4	69.8	63.1	59	54.5	53	52.1	51.5	49.9	44.8
47.9	37.1	50	59.1	74	66.2	61	56.4	53.9	53.4	52.3	50.9	45.4
45.3	34.9	50	59.9	74.2	64	61	56.5	52.8	51.8	49.8	47.9	42.2
42.2	32.6	51.7	60.5	74.3	63.6	60.2	56.2	52.7	51.1	49.3	46.3	40
42.2	31.9	51.2	60.1	71.2	64.9	60.2	56.4	53.5	51.1	49.6	46.3	40
43	33.4	49.6	60.8	70.7	66.2	62.3	57.9	55.5	54.3	52.2	48.4	42.3
42.7	33.4	50.9	62.7	72.6	65.1	64	59.3	56	54.5	50.7	46.7	40.9
40.8	33	52.8	62.5	74.2	64.4	68.9	61.5	55.3	52.5	48.2	44.1	38
38	31.4	55	61.7	77.4	63.8	67.7	59.7	54	50.8	46.7	42.8	36.4
36.5	30.3	55.3	61.1	77.4	65.4	66.4	58.2	54	49.9	46.4	42.5	36.2
36.2	29.8	53	59	75.7	67.7	63.4	56.5	52.6	48.8	45.6	41.6	35.4
35.3	29.2	50.5	58.3	72.9	68.5	61.8	56	50.8	47.3	43.8	39.3	33
33	28.8	49	57.6	70.4	67.3	60.6	55.8	50.2	46.3	42.1	37.7	31.3
31.3	28.6	48.5	55.7	68.4	66.1	59.1	56.2	50.6	46.4	41.8	37.5	30.8
30.8	28.6	49	57.6	68.3	64.8	58.9	56.5	52.1	47.7	42.6	37.5	30.2
30.7	28.7	48.6	57.8	68.5	62.7	58.4	57.4	52.2	50	44.5	37.5	30.1
30.9	28.6	49.4	57.6	71.1	61.2	58.4	56	52.2	52	47.2	38.7	30.7
33.7	29	49.3	57.6	68	59.8	58.4	56	52.9	52.1	47.5	38.8	30.9
36.8	30.2	52.8	57.2	65.8	59.6	58.8	56.2	54.5	53.7	49.3	40.9	33.7
36.8	30.2	51.5	58	64.4	61.4	64.4	60.4	57	58.2	50.6	42.9	35.2
35.2	29.6	50.4	59.6	64	63.8	62.5	57.8	54.2	55.2	47.8	40.2	32.7
32.7	28.9	51.8	59.8	64.3	62.3	60.6	56.6	52.2	52.4	45	37.8	31

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.3	43.1	46.2	48.1	50.3	51	54.8	57.5	56.2	54.5	51.1	54	51.4	49.9	48.3
28.3	45.1	48.1	44.3	46.5	54.1	49.7	53.6	54.8	56	52.8	54.3	52.1	48.1	47.8
28.3	46	45.5	47.4	51.4	50.7	54.9	53.7	56	55	51.6	51.8	54.6	46.7	46.3
28.3	43.9	42.5	45.5	55.1	50.3	59.2	58.7	57.4	57	52.7	51.9	51.6	49.1	47
28.3	45.3	38.7	50.8	51	58.7	54	55.4	55.3	55.8	55.5	51.7	51.1	49.7	48.5
28.2	45.5	43.5	54.9	50.9	55.1	56.4	60.2	55.1	53.2	54.1	53.2	52.4	50	47.3
28.2	46.7	51.6	47.4	51.3	54.1	55.7	55.7	54.8	57.6	56	54.7	51.7	47.1	46.7
28.3	46.3	50.1	43.6	55.9	53.1	53.8	56.6	54	53.6	54.2	51.8	51	48.6	46
28.3	47.3	44.4	47.5	54	52.5	54.5	56.2	52.1	53.8	55.9	51	51.2	48.3	46.6
28.3	46.3	45.3	50.8	52.4	52.6	53	57	55.2	52.5	55.7	50.5	51.8	48.8	46.3
28.3	47.1	47.9	45.1	47.8	54.3	57.8	55	52.3	57.6	53.3	52.9	51.8	47.6	45.7
28.4	49.9	50.1	49.9	56.1	53.1	54.8	55.3	53.1	58.6	52.6	49.8	50.5	47.4	45.3
28.4	48.5	48.7	48.3	43.1	51.5	51.8	56.9	54.1	56.7	51.9	51.6	50.4	47.8	45.9
28.4	51.8	54.5	49.4	49.4	50.5	51.3	57.6	58	57.5	53	51.6	52.8	48.4	45.6
28.5	57.3	47.5	48.6	48.6	49.9	51.1	54.9	58.5	59	52.5	51.8	51.5	47.3	44.9
28.5	50.2	46.7	48.9	46	47.9	53.8	56.5	56.9	53.6	54.9	51.7	52.2	48.2	47.7
28.7	42.7	46.6	49	46	50.4	56.4	58.4	58.2	56.6	54.5	50.7	51.9	49.4	45.2
29.1	44	43.1	45.6	46.8	51.1	50.6	55.4	56	59.5	54.6	52.2	51.5	48.1	47.7
29.1	40.9	40.4	46.2	49	51.5	54.3	54.7	55.7	57.3	54.9	55.9	52.5	51.9	48.4
29.4	38.7	42.7	47.4	50.7	52.1	67	63.9	55.3	58.4	56.2	56.6	52.7	49.6	48
29.8	43.2	45.2	49.7	54.9	60.9	53.9	59.3	53.2	57.6	55.2	49.7	52.4	50.2	46.4
29.8	42.4	44.7	46.1	51.6	57.4	55.3	57.2	55.3	56.2	56.6	50.6	52.7	48.5	46.1
31.3	45.3	48.7	47	50.1	49.1	52.2	55.2	56.2	59.1	57.4	51.8	51.3	48.6	46.2
35.7	45.9	47.4	49.7	49.1	54.3	53.2	57.1	55.7	56.8	57.7	51.1	53.1	48.8	46.2
33.9	46.4	43.3	47.3	46.9	52.5	54.4	59	62	58	59.9	54.1	54.6	48.9	46.3
34.3	47.8	50	40.8	47.9	53	56.4	60.9	57.6	66.3	60.8	51.9	55.8	47.4	47.1
31.7	46.8	48.6	42.6	48.4	55.5	52.1	53.3	52.2	68.6	51.9	51.7	54.6	48.6	46.8
30.3	41.3	46	45.1	47.5	49.7	60.2	57.3	59.1	62.4	55.7	53.3	52.8	50.1	47.7
29.4	41.5	45.7	47.8	45.2	54	57.3	59.1	61.3	57.1	55.8	53.8	53.7	48.4	47.2
29.3	42.8	47.6	47.5	52.3	51.9	52.8	57.7	61	57.2	54.9	53.2	54.2	50.9	48.3
29.2	44.9	43.8	48.9	49.4	52.8	53.6	58	60.9	60.2	55.9	53.6	52.8	49.3	48.3
29	36.6	45.5	39.1	48.9	54	52.9	60.2	63.3	55.6	55.1	55.8	52.8	53.2	49.6
28.9	43.8	41.7	47.1	43.6	51.1	52.6	53.7	62.3	60.8	53.9	57.1	57.4	50.2	49.4
28.9	42.2	44.7	44.6	50	52.8	50.4	56.2	58.2	67.3	56.3	52.5	58.2	50.6	52.4
29	45.9	44.4	45	47.9	52.5	53.6	55.1	55.5	70.5	69.2	51	57.3	56.3	55.1
29.2	38.1	45.1	45.8	50.8	51.1	55.2	58	55.7	60.5	69.7	54.1	52.4	52.8	51.3
29	43.4	47.8	44.6	51.9	49.4	54.4	57.8	54.9	58	68.2	69.8	52	52	52.3
28.6	43	42.4	47.4	54.9	50.1	54.7	58.4	54.5	55.3	63	69.4	55.2	51.7	49.2
28.5	44.8	43.8	46.7	51	53.4	59.4	59.7	54.4	62.1	74.3	56.9	53.3	53.8	47.5
28.4	42.1	51.6	48.9	55.5	52.7	56.8	54.6	55.4	57.4	72.2	52.4	54.6	51.2	46.4
28.3	47.8	47.1	50.9	46.9	51.1	55	55.1	51.8	58.1	62.9	51.5	55.7	49.9	48.1
28.3	51.8	47.2	41.2	46.8	52.5	53.4	58.1	57	58.4	64.1	56.2	60.1	51.4	47.4
28.3	53.2	47.5	46.5	48.7	48.1	52.4	55.3	55.5	59.9	61.5	60.1	61.2	50.8	47.4
28.4	48.6	44.7	46	50.3	49.8	50.3	56.1	55.2	64.5	52.6	59.2	58.3	51.1	47.3
28.4	43.6	48	48.8	46.6	53.8	57	50.2	59.2	57.3	56	57.1	54.9	51.3	46.7
28.5	50.2	46.1	46.4	49.4	55.4	52.6	52.4	53.5	53.8	57.6	53.3	53.9	51.4	49
28.3	49.8	42	47.9	51.3	54.3	56	55.6	51.5	58.7	56.2	53	56.1	49.8	49.4
28.3	44.8	44	47.6	46.3	54.1	54.1	53.9	56.8	58	53.4	54.6	57.4	48.9	50.2
28.3	48.6	48.6	44.9	48.1	54.4	55	61.8	63.1	56.3	54	54.8	57	52.5	47.6
28.3	49.7	47.4	41.5	44.9	50.6	56	59.1	59	57.8	57.4	56.7	55.8	51.3	48.5
28.3	43.3	46.8	45.4	50.5	48.7	60.7	63.5	60	57.7	58.1	52.6	52.7	53.3	49.3
28.3	43	45.8	52.2	57.1	58	52.4	56.2	58.7	56.2	58.1	57.5	55.4	59.4	56.4
28.4	40.8	49.4	54.6	54.5	53.1	54.4	54.8	56.4	55.8	58.9	54.9	57.8	51.5	57.4
28.5	48.2	51.5	45.4	45	47.6	52.2	58	55.8	59.8	57.9	54.2	55.3	57.8	56.9
28.5	60	48.6	42.5	49	48.1	53.8	53.7	53.8	63.1	58.5	57.4	58.8	54.6	58.1
28.5	54.7	46.5	44.8	51	52.1	55	57.4	56.2	62.9	66.8	56.6	59.4	53.2	58.3
28.4	53.2	45.2	46.5	47.7	52.1	52.7	56.3	54.6	57.3	64.9	57.5	57.9	55.2	56.2
28.3	43.5	48.4	47.4	45.9	50.4	59.3	59.1	56.1	58.5	58.1	60.5	57.7	52.5	48.9
28.3	42	45.3	45.6	53.2	54.3	62.7	64.1	61.2	61.1	62.5	53	57.2	51.9	49.8
28.3	39	51.3	52.8	56.3	61.9	60.1	57.7	61	60.6	58.2	55.1	55.1	51	48.5
28.3	42.4	50.2	56.2	57.9	58.5	52.8	57.2	59.9	57.8	56.2	53.3	54.1	54	51.1
28.3	49	54.4	48.3	46.5	45.4	58.4	58.2	57.1	57.4	54.7	54.2	53.9	52.2	49.8
28.3	56.9	51.3	46.8	48.6	53.6	54.5	59.4	58.3	59.6	56	55.2	53.6	54.3	50.3
28.3	57.2	47.9	42.4	50.5	52.8	56.7	63.1	55.7	57.3	53.9	57.1	51.6	54.8	51.6
28.4	46.6	44.1	45.2	49.5	56.4	53.8	63.5	64.3	56.8	54.5	58.8	58.8	54	51.4
28.5	42.4	43.6	44.7	45.2	52.5	57.3	65.5	57	54.6	53.9	52	59.8	53.3	54.1
28.6	41.6	43.4	47.3	46.3	52.8	55.5	61.8	57.1	58.7	53.9	51.8	60	52.3	51.8
28.7	35.3	45.4	41.7	48	53.3	58.7	58.2	62	59.6	55.7	60.3	57.2	53.1	52.3
28.8	39.5	41.2	46.1	51.2	57.1	57.4	65.6	58.5	61.8	56.3	57.3	58.7	54.2	54.1
29.3	44.4	47.4	51.8	53.4	57.5	54.8	64.5	67.2	60.1	59.5	58.1	57.8	56.4	54.2
30	38.1	49	52	54.1	58	55.5	72.6	64.1	57.6	55.6	59.8	59.7	56.1	53.8
29.8	42.6	46.2	49.9	55.9	54.3	54.8	73.6	61.7	54.3	61.7	59	54.7	55	53.6
29.6	46	46.3	46.5	48.1	55.5	64.9	70.8	63.3	58.3	60.2	65.8	59	57.1	56
29.6	43.5	47.2	42.8	47.7	48.8	64.2	71.2	62.4	58.2	58.1	64.5	58.2	55.3	54.1
29.6	49.8	46.4	48.3	51	55.1	62.6	71.2	69.1	57.3	54.5	60.8	60.3	54.8	52.7
29.6	45	49.6	49.6	52.9	55.1	55.6	72.7	67.9	58.1	56.7	57.1	54.2	54.9	54
35.2	49.6	45.8	47.1	47.4	53.3	56.4	57.3	65.5	59	55.4	62.4	68.1	55.2	54.5
35	42.8	45.7	45.1	49.2	56.1	55.1	68.7	76.1	61.8	57.6	58.3	62.7	57.8	52.1
32.6	48.1	44.3	47	52.7	57.9	57.7	72.4	68	62.3	58.7	56	58.9	58.2	55.7
31	46.7	43.4	52.4	49.4	57	59.7	73.3	70.6	67.8	61	58.5	56.1	56.6	54.2
30.9	45.6	45	48.2	47.9	52.7	58	61.2	65.8	59.1	62.9	65.4	61.2	57.3	57.4
31.9	43.3	46.1	46.3	49.3	55.8	60.7	68.2	65.1	56.3	59.8	57.3	64.5	58.7	59.5
32.9	42.4	47.4	48	51.1	54.4	60.6	71.8	67.6	68.8	58.1	58	64.1	65.8	58.8
31.4	45.7	41.4	50.5	58.3	57.7	61.5	73.9	72.3	61.2	60.4	59	57.8	63.6	56.4
30.3	42.8	51.4	55.8	55	55	60.4	78.6	68.6	57.5	62.2	56.1	62.5	62.2	61.1
29.8	46	52.8	51.2	51.4	58.4	57.5	76.7	77.3	69.4	66	59.6	65.6	64.3	57.5
29.2	45.1	53.3	49.2	55.9	55.9	52.1	72.2	59.9	57	68.5	65	58	55.5	55.2
28.8	49.7	53.1	46.9	54.6	50.7	55.4	71.4	63.6	56.4	59.7	67.7	59.1	54.6	56.4
28.6	44.5	47.2	43.4	49.3	53.9	55.9	65.1	59.8	58.1	64.7	59.4	56.2	56.8	55.8
28.6	43.1	38.2	46.5	49.8	52.6	49.7	65.2	56.5	59.4	63.5	62.2	56.5	53.4	55.4
28.5	41.4	47.8	41.9	45.3	53.1	54	67.6	59.3	56.3	58	62.4	56	52.8	57.2
28.5	37	43.7	44.2	53.3	55.1	52.5	69.6	61.5	56	52.2	59.3	55.4	53.3	54.8
28.5	40.1	45.5	46.2	53.5	55.2	52.8	72.6	67.3	55	55.8	56.6	55	55.6	57.5
28.6	46.1	42.9	43.1	52.1	54	57	63.8	61	56.6	53	53.2	52.9	53	54.9
29	40.4	46.7	45.7	47.6	53.6	53.6	57.7	58.4	55.9	55.9	54.9	56.8	60.3	61.5
29.6	43.6	49.6	52	46.9	52.4	58	60.5	55.7	59.4	58.1	57.4	64.3	62.9	60.3
28.9	45.4	52.2	41.2	51	55.1	57.9	60.3	58.6	57.8	60.6	56.1	61.9	57.3	57.9
28.6	2/12/1900	7:12:00 AM	46.3	56.3	52.9	60.9	63	57.6	63.3	56.5	53.8	58.8	54.4	55.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
43.1	42	40.7	40	40	39.7	37.1	36.1	34.4	33	36.3	32.1	29.2	27.5	26	24.8
44.2	40.3	42	40.9	41.4	41.3	37.5	35.7	34.6	33.7	37.2	32.1	29.5	28.5	27	25.5
43	42.2	41	38.3	40.4	41.7	38.4	37.3	35.3	34.7	38.8	33.5	35.9	31.5	29.5	25.2
42.8	40.3	40.2	39.4	40.2	45.1	36.9	36.5	36.4	35.1	35.7	34.6	33.5	29.8	28	25.5
43.2	38.8	40.9	38.7	40.7	43	38.4	38.8	39	36.7	34.3	33.5	30.8	28.7	26.5	25.5
43.1	40	38.5	39.2	40	42.2	37.2	37.1	38.2	35.2	32.8	31.7	32	28.1	26.4	25.2
43.5	39.8	38.1	40.3	39.4	44	40	37.7	39.6	38.2	34.1	31.6	29.2	26.4	25.5	24
43.3	40	38.9	37.9	38.9	42.6	45	40.5	37.2	38.9	33.7	33.7	30.7	26.8	24.6	23.4
43.5	40.8	40.2	39.9	39.2	43.1	44.6	41.4	36.4	36.3	34.6	32.8	28.7	27.3	25.7	25.3
43.2	40.3	39.5	38	38.1	40.1	37	35.6	34	32.3	31.3	30.5	31.5	28.7	26.2	25.2
44	40.7	39.1	37.8	38.6	41.6	37.5	35.2	34.2	32.2	30.4	29.9	30.1	27.7	24.8	23.4
42.3	39.1	39.4	38.6	39.1	42.4	37.9	35.3	34.8	33.7	32.5	30.4	28.3	26.6	24.1	22.6
42.6	38.7	38.3	38.7	38.8	42.4	38.8	36.3	35.5	34.2	34.1	31.9	28.4	27	25.2	23.7
43.1	39.8	38.3	38	37	40.1	36.4	36.8	34.6	33.1	31.3	29.8	27.5	26.1	24.3	22.5
43.4	40.2	39.4	38.8	38.3	41.1	37.7	35.8	37.7	39.5	33.7	34.4	30.4	28.6	25.9	24.6
43.3	40.5	40.3	38.3	38	42.5	39	37.4	37.3	34.1	32.8	32.8	30.6	29	27.2	26.2
44.1	41.1	41	38.4	37.3	41.3	40.1	39.6	39.8	35.7	35.2	37.7	35	30.4	26.5	25.7
42.9	40.8	41.3	40.4	38.9	42.1	39.3	39.3	39	36.9	36	35	32.6	29.1	27.3	26.2
45.8	42.9	43.1	39.6	39.6	41.7	38.7	39.7	38.6	37.5	35.7	34.9	33.1	29.6	27.2	25.5
44	41.5	40.4	39.1	39.2	41	38.3	38.1	36.8	36.3	35.1	32.8	33.2	31	27.8	26.5
43.8	41.4	43.6	41.4	40.2	42.3	40.6	41	38.8	37.2	37.4	37	35.1	32.6	31.7	30.8
44	42.1	43.5	44.2	44.8	43.9	42.2	41.7	40.7	41.3	41.1	40	37.6	36.5	34.6	34.3
45.4	42.2	45.4	44.5	43.3	43.3	43.8	43.3	43.7	42.8	42.4	39.5	38	39.1	35.1	35.7
46.9	44.5	46.7	43.6	43.4	43.5	42.4	42.5	43.1	40.5	38.9	36.3	34.9	32.9	32.1	31.4
44	42.4	43.2	41.6	45.3	44.5	40.7	40.9	39.7	38.1	36.7	34.8	33.5	32.4	31.2	31.6
44.6	41.5	41.6	41.7	40.7	42.5	40.3	38.9	39.4	39.2	36.8	34.5	34.9	34	36.1	37.7
45.3	43.5	41.7	41.9	43.7	42.7	39.2	40.1	40.4	39.3	37.6	36	36	35.7	31.7	29.5
46.7	44.3	43	44.1	46.4	44.8	41.9	41.7	42.4	42.5	41.5	39.3	38.8	37.9	35.5	33.2
44.2	45.4	43.5	46.1	46.2	43.7	42	41.2	43	42.5	39.1	37.8	38	36.6	33.3	30.7
46.4	45.8	45.6	47.1	47.4	47.1	43.2	44	44.4	41	39.6	38.6	37.9	37.8	34.7	33
46.7	46.1	46.7	46.4	47.3	47.1	46.3	48	45.7	43.6	41.2	39.9	39.5	38.4	36.4	32.7
47.9	46.7	47.4	45	48.4	45.9	44.2	46.6	46.2	43.6	41.8	40.8	39.6	38.3	36.1	34
46.3	47.1	45.3	45.8	46.4	43.7	44.4	45	46.3	44.9	42.6	40.9	41.1	39.8	36.9	34.9
44.6	46.5	46.8	45.1	45.9	43.9	44.3	43.3	44.1	43.2	41.8	39.4	37.9	37.7	36.3	34.8
49.1	47.2	49.8	48.9	48.9	45.5	45.5	45	46.2	43.2	41.4	40.4	39.6	39.3	37.8	35.5
46.9	45	45.6	47.2	45.9	44.7	44.6	44.6	46.8	43.1	41	39.9	39.2	38.7	37.6	36.6
46	45.3	46.4	44.7	43.6	45.6	46.1	44	45.6	43.4	41.4	39.9	40.4	39.3	37.5	34.7
44.8	44.4	44.2	43.6	41.9	43	41	41.3	41.6	39.1	38.1	36.4	35.3	32.5	29.7	28.6
45.3	45	44.6	42.7	41.9	43.1	40	40.6	40.8	38.5	37.4	34.9	35.1	34.2	29.1	27.9
45.4	44.2	43	40.6	40.5	42	40.4	40.3	39.9	37.4	37.1	35.2	35.2	33.6	27.2	25
45.3	44.4	43.8	40.1	39.5	42.3	38.3	39	39.1	36.6	35.4	34.2	33	30.7	24.8	22.9
44.9	44.1	42.2	42.4	40.4	43.1	38.6	39.7	39.6	36.4	36.4	33.8	32.4	28.8	26.7	24.5
46.8	43.1	42.1	42.5	39.8	43.1	39.4	38.8	39.1	37.2	36	36.6	35	30.2	27	25.4
46.1	43.5	42.5	41.6	40.5	43.3	42	41.3	39.3	38.1	36.8	34.4	35	31.2	27	24.8
45.9	43.6	42.9	41.5	39.7	42.9	40.6	40.3	38.7	37.9	36.2	34.1	33.7	30.7	27.9	26.7
46.6	43.2	42.7	41.2	40.6	42.2	40.8	41.9	39.7	39.8	37.5	34.4	39.4	33.4	26.7	25.1
47.6	43.2	43.7	41.9	41.2	42.6	40.7	42.5	39.3	39	38.1	37	37.1	32.2	28.5	26.1
47.5	43.1	41.8	41.9	41	42.2	38.8	40.7	39.2	36.9	36	34.1	32.3	29.2	27	25
46.6	44.8	42	40.1	39.5	42.4	40.8	41.4	40.4	37.6	36.7	36.5	33.2	30.2	27.8	24.7
47.4	46.6	41.2	40.8	41.3	41.8	40.1	40.6	40.5	37.2	37.3	35.3	32.5	30.2	27.6	25.3
47	50.1	42.3	41.5	40.8	45.4	42.2	42	40.5	38.1	37.6	36.6	33.9	30.5	28.7	26.1
53.7	57.7	45.8	45.4	41.7	46.1	43.8	44.1	42.8	40	38.8	37.7	36.8	33.3	31.2	29.3
56	52.9	45.7	45.8	45.5	46.7	43.9	45.1	43.7	40.7	39.8	38.8	38	34.3	32.2	30.1
54.4	53.4	47.7	50.1	49.7	49.7	46	46.6	45.1	42.9	41	40.1	39.3	36.4	33.2	31
54.9	51.4	48.6	50.4	51.4	47.2	47.3	47	46.8	44.6	42.9	39.8	39.8	37.2	32.7	32.2
50.1	50.3	47.7	50.3	48.5	46.9	46.5	48	48.3	47.3	43.9	41.1	41.2	36.7	34.1	31.2
51.5	48.9	48.1	49.3	48.4	47.2	46.6	47	47	45.8	42.8	40.4	38.8	35.2	32.6	30
50.5	47.7	46.2	46.5	45.3	45.2	46.6	45.2	43.9	42.7	41.7	38.8	35.7	33	30.5	26.8
49.6	46.5	45.5	44.3	44.5	43.2	44.4	44.5	43.1	42	40.3	36.7	34.6	34.3	28.3	25.1
50.2	47.2	45	42.7	42.7	43.4	41.6	42	41.9	39.3	39.4	36.1	33.2	30.2	28	24.5
53.5	48.1	43.8	42.7	41.7	42.5	41.6	41.1	41	39.7	39.7	36.9	33.8	31	27.8	24.9
50.4	45.4	43.1	40.5	41.2	42.4	40.5	40.5	41	38.1	38.2	36.5	32.2	29.4	26.2	24
52.6	46.6	43.4	42.1	40.6	42.7	39.8	38.4	38.7	37.9	37.1	34.5	33.1	30.6	27	24.7
54.8	48.6	45.6	47.4	41.5	43.1	40.8	40.8	39.4	39.4	37.4	37.2	33.9	31.5	28.9	26.9
50.7	47.1	45.4	45.1	42.9	44.4	41.7	40.7	42.5	40.7	39.9	37.6	35.9	34	31.2	28.6
49.9	48.5	47.4	45.3	43.6	45.8	42.5	43.6	46.2	44.2	41.8	39.6	37.3	35	32.6	30.7
49.4	48.3	47.4	46	48.2	47.8	45.7	48	49.4	46.4	43.8	41	38.7	36.6	33.5	31.1
50.9	49	50.7	48.4	47.7	47.7	47.5	49.4	49.8	47	44.5	41.2	38.1	37	33.3	31.4
52.3	51.1	51.7	49.3	49.2	47.8	48.4	49.2	49.6	46.4	45	41.1	39.3	37.7	34.6	32.8
51.2	50.1	50.8	47.8	48.1	47.6	47	48.4	47	44.3	43.2	41.1	39.7	38.4	36.9	34.1
53.7	49.8	49.3	46.5	47.9	48.1	47.6	48.9	46.2	45.5	43.8	41.9	40.8	39.3	38.3	35
51.4	52.1	51.1	46.2	47.6	47.3	46.6	47.8	45.2	43	42.1	41.2	39.8	38.1	36.2	33.7
50.9	50.9	51	47.6	49	47.9	47.1	47.8	47.2	44.3	43.3	41.5	39.9	38.9	37.3	35.2
52.3	52.9	49.6	49.2	50.8	48.7	50.3	48.4	50.5	48	46.7	44.4	43	40.9	38.8	36.6
54.3	49.8	50.1	49.6	49.6	47	47.7	46.2	47.3	45.8	44.2	42.5	40.7	38.6	36.9	35.5
52.6	49.4	48.7	48.1	47.5	47.9	45.1	46.5	47.3	47.7	46.9	47.2	46.7	46.8	46	44.4
59.4	51.7	52.7	54.5	52.8	51.4	48.9	49.4	50.9	50.3	51.4	51.4	49.9	51.9	49.6	48.4
53.2	51.1	50.2	52.9	49.6	47.2	48.1	48.5	48.8	47.3	47	45.9	44.6	45.4	43.1	42.4
54	52.3	52.8	53.8	48	47.3	46	46.3	46.9	44.6	44.1	42.8	40.2	40.3	40	39.5
53.8	51.5	49.9	51.2	49	49.8	47.1	45.8	47.1	44.3	45.6	45.1	42.2	41.5	39.2	37.6
58.7	55.3	51.8	52.7	52.5	51.1	50	50	50.7	48.5	48.7	48.2	46.4	45.6	43.6	42.8
58.8	55.6	53.9	55.1	53	53.2	53.2	52.8	53	49	48.1	48.6	47.2	45.7	43.9	41.8
67.3	56.9	53.7	55.5	52.1	50.3	49.4	49.3	50	46.6	46	45.3	42.7	41.9	41.1	38.3
67.7	59.1	53.8	54.5	50.8	49.3	49.5	46.3	47.5	44.3	42.7	40.8	39	38.6	36.4	34
63.4	57.1	51.8	50.9	49.5	49.2	46.1	44.5	46	42.7	41.6	41.1	38.4	38.1	37	34.3
62.4	53.8	51.4	49.9	51.4	48.9	46	44.2	46.2	42.2	42.8	41.9	39.4	38.8	37.2	36.6
53.6	52.3	49.8	48.2	49.2	46.2	44.2	43.5	44.8	41.8	41.5	40.5	38.3	37.6	36	35
52.2	53.2	50.9	47.4	44.7	45.5	42.4	42.3	41.5	40	39.1	38.2	35.6	34.5	32.9	30.5
51.3	54.2	49.7	47.2	46.9	45.4	41.4	42	41.7	38.7	37.2	35.5	34.2	32.7	31.4	28.5
51.7	54.4	50.3	49.1	49.2	47.8	43.7	44.3	43.2	41.2	39.5	36.9	36.4	34.3	33.6	29.6
52.4	57.1	51.3	51.5	49.3	47.1	46.4	46.4	46.5	44.5	43.4	38.7	36.2	34.5	32.6	29
50.6	55.4	50.4	49.6	48.1	46.7	46.8	47.9	48.7	46.9	45.7	42.4	40	37	34.1	30.2
51.3	51.1	50.4	49.2	49	48.7	47.1	46.9	48	46.7	45.2	42.5	39.2	36	33.3	30.4
52.1	50.9	51.4	52	50.1	51.3	47.7	49.6	50	47.8	47.7	43.7	40.1	39	35.9	31.5
55.6	58.2	57.5	57.1	55.7	55	56	56.6	56.9	52.7	50.7	47.1	44.3	43.5	40.7	36.2
58.2	57.4	56.9	53.1	51.7	51.7	50	52.9	54.7	52.2	47.9	44.1	41.7	39.7	36.8	33.1
52.6	51.9	50.7	46.2	45.9	46.7	45.2	46.1	48.2	45.5	42.2	38.5	35.8	34.3	31.5	29.3
51.9	52.1	51.3	47.4	43.9	46.6	44.7	44	45.5	42.7	2/8/1900	4:48:00 PM	34.0	32.6	29.9	28.4

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
23	21.5	21.7	22.6	23.5	24.5	46.9	48.7	48.1	50.1	53.6	55.4	57.8
23.7	21.9	21.8	22.6	23.5	24.5	45.4	47.8	47.4	50	53.9	55.3	56.7
23.9	21.7	21.7	22.5	23.4	24.5	46.4	47.7	47.6	51.3	53.2	54.5	55.2
24.6	22	21.8	22.6	23.6	24.5	45.1	47	46.4	54.1	52	58.2	58.4
23.8	21.4	21.8	22.6	23.4	24.4	45	44.2	50.4	53.5	58.2	58	58.1
24.1	21.8	21.8	22.7	23.4	24.4	45.4	43.5	54.1	52	56.4	56.7	59.2
23.3	21.7	21.9	22.5	23.5	24.5	46.7	50.7	53.3	51.7	55.8	56.4	59.1
22	21.2	21.8	22.6	23.7	24.6	46.6	51.2	50.6	55	54.8	56.4	57.3
23.4	21.8	22.1	22.8	23.6	24.4	47.7	49.9	48.4	56	54.3	55.2	57.2
23.7	22.1	22.2	22.7	23.5	24.6	48.3	47.1	50	54	52.7	54.8	57.3
22.3	21.9	22	22.8	23.4	24.5	47.1	48	49.4	53	54.1	57.1	57.2
21.7	21.9	22.2	23	23.7	24.6	49.8	49.9	49.8	55.4	54.2	56.9	56.4
22.7	22	22.3	23	23.6	24.6	50.7	49.3	50.5	54.1	53.5	55.4	56.9
21.8	22	22.1	23.4	23.7	24.5	51.8	53	49.3	50.2	52.8	53.5	57.8
22.5	22.2	22.7	23.1	23.7	24.5	55.7	52.9	49.3	49.9	51.9	52.5	57.1
24.9	22.9	23.2	24.4	24.7	24.6	55.6	50.3	50.4	49.3	49.8	53.4	56.8
23.5	22.9	22.3	25.4	24.8	24.5	52.6	48.8	49.4	47.3	50.3	55.9	58.1
24	22.8	23	23.7	25.6	25.5	49	46.9	48.4	47.3	51.9	56.1	57.4
23.6	23.1	24	24.4	24.5	24.9	46.4	45.1	47.2	49.1	51.1	54	56.1
26.4	26.9	26.3	24.9	25.9	25.6	43.8	43.2	47.4	49.9	52.2	65.9	63
30.9	30.1	27.8	26.9	25.1	25.2	43.3	44.9	49.2	54.5	60.5	64.8	61.1
32.8	32.6	30.7	29.5	26	25.5	42.6	45.5	49.2	53.3	58.2	61.3	60.1
34	32.5	31.2	28.1	38.4	25.8	44.4	47.5	47.5	52.3	57.8	58.3	58.5
30.9	29.7	30.6	29.7	30.1	29.4	45.8	47.8	49.2	50.8	54.9	55.5	57.6
31.1	28.9	31.4	33.4	33.3	27.9	46.6	47.4	49.3	50	54.8	54.9	58.5
34.7	31.6	28.7	26.9	24.7	24.9	47.6	48.7	48.1	48.8	53.9	56.2	60.8
27	24.2	23.7	23.5	23.8	24.6	48.2	48.9	44.9	48.8	55.4	56	59.6
30.8	27.4	26	24.8	24.3	24.6	46.7	48.9	44.9	49.1	55.3	59.3	57.7
28.8	25.8	25.7	23.5	23.8	24.5	44.4	47.1	47.3	47.7	54.2	59.8	60.2
31.5	29.1	26.5	26.4	24.8	24.5	43.3	47.6	47.9	51.1	53.7	57.7	58.6
30.2	27.4	26.1	24.2	23.7	24.6	44.8	47.6	49.6	50.9	53.2	55.3	58.3
31.9	28	25.7	24.1	23.8	24.4	43.9	46.1	47.8	50.8	53.9	54.1	59.5
32.6	29.5	26.3	24.2	23.7	24.5	43.1	46.3	46.5	48.7	53.7	53.7	59.2
32.6	28.3	26	24.4	23.9	24.6	43	45	46.7	49.4	52.9	53.5	56.9
32.8	28.7	27.1	25.1	23.8	24.5	45.9	44.9	45.5	49.8	53.3	53.3	56.4
33.1	29.6	27.2	25	23.9	24.6	44.2	45.6	46.7	50.5	53.5	54.9	57.9
31.9	27.7	26	24.3	23.8	24.5	43.1	47.1	45.6	51.9	52	55.1	57.9
26.2	24	22.6	22.8	23.6	24.5	43.4	46.7	47.4	54.1	50.9	55.2	58.8
25.7	23.1	22.5	22.8	23.5	24.5	44.6	44.9	46.8	53.6	52.8	58.7	59.7
23.2	22	22	22.5	23.5	24.5	44.2	50.7	48.4	55.3	53.9	58.3	59.1
21.8	21.2	21.8	22.5	23.6	24.5	47	51	50.7	54.2	52.7	56.9	57
22.7	21.6	21.9	22.7	23.4	24.4	51.3	49.1	49.8	51	52.9	55.6	57.5
23.9	22.3	22.4	22.8	23.6	24.5	53	48	46.9	49.7	51.9	54.9	57.7
23.4	22.1	22.2	22.8	23.6	24.4	52	47.9	46.7	50	50.2	53.7	56.8
26.1	24.7	24	24.2	24	24.6	50.4	47.5	48.3	50.2	53.1	56.6	55.8
23.6	21.7	21.7	22.8	23.5	24.5	49.5	47.8	47.9	49.3	55.1	55.4	53.3
25	22.8	22.2	22.6	23.5	24.5	49.7	46.5	48.2	51	55	55.2	54.8
23.1	21.8	21.7	22.7	23.6	24.6	49.7	44.6	48.5	50.2	55	55.6	54.8
22.8	21.5	21.8	22.5	23.4	24.6	48.3	47.4	47.6	48.8	54.9	54.8	60.4
23.6	22.7	22.4	22.5	23.6	24.5	49.6	47.7	46.4	48.3	54.9	56	60.9
24.2	22.7	22.4	22.5	23.5	24.5	49.6	47.7	45.8	49.7	52.4	60	63.2
27.4	25.1	23.4	23	23.6	24.4	46.6	47.4	51.8	56.2	56.6	59.5	62.1
28	26	24.1	23.3	23.7	24.5	44.4	48.9	54.9	57	56.3	56.3	59.2
28.7	26.9	24.7	23.4	23.7	24.5	47	51.2	52.7	54.6	54.4	55.6	58.1
29.6	26.6	24.7	23.4	23.6	24.5	58.6	51	49.4	51.3	51.2	54.1	58.1
28.3	25.5	23.4	22.9	23.6	24.6	58.7	49.2	46.8	50.8	51.7	55.1	57.4
26.9	24	22.7	22.8	23.6	24.5	56.1	48	46.5	50.7	52.1	55	57.3
24.1	22.3	22.1	22.5	23.5	24.4	54.2	48	47.6	49.2	52.1	58.6	58.8
22.8	21.4	21.9	22.7	23.5	24.4	50.5	48.1	46.8	52.8	53.6	62.7	63.1
22.3	21.6	21.9	22.6	23.5	24.5	47.2	50.5	51.8	56.1	61.1	62.8	63
22.5	21.5	21.8	22.8	23.4	24.5	44	51	55.1	58.1	61.3	61	60.2
22.2	21.7	21.8	22.7	23.5	24.5	47.9	53.9	54.5	56.5	58.8	58.8	59.2
22.6	21.6	21.9	22.7	23.6	24.4	56.1	54.5	51.7	52.8	55.5	58.6	59.5
24.1	23.4	22.5	23	23.5	24.5	57.7	51.9	49.3	52.2	53.9	56.8	62.1
26.4	25.1	23.9	23.3	23.6	24.5	56.1	49.8	46.2	51.1	55.9	57.2	63.3
27.2	25.8	24.4	23.4	23.6	24.4	52.7	46.8	45.7	49.2	55.1	56.7	65.4
28.1	27.3	25	23.7	23.8	24.6	49	45	47.5	47.7	54.3	57.1	64.6
28.7	27	24.8	23.9	23.7	24.6	45.7	45.3	46.1	49	53.9	58.1	62.8
30.1	28.3	26.1	25	24.5	24.7	42.2	44.7	46.1	50.9	56.2	58.3	64.3
31.8	30.2	27.4	26.2	25.6	24.9	43.5	47.2	51.6	52.7	57.5	57.7	64.7
33	30.8	28	26.7	25.4	24.9	43.4	49.6	53.5	53.8	57.8	56.7	71.1
31	29.4	26.7	25	24.6	24.7	42.1	47.4	51.2	55.6	57.5	55.5	73
32.5	29.7	27.8	25	24.3	24.6	44.9	46.8	50.1	54.6	56.1	63.4	72.7
34.6	31.3	29.2	25.7	24.5	24.6	44.7	47.7	48.1	51.8	55.9	64.6	72.8
33.9	30.3	28.2	25.4	24.4	24.6	48.9	47.7	47.7	51.3	55.2	65.4	72.2
42.8	40.6	37.3	34	30	26	48.9	48.9	49.1	52.4	55.1	62.7	73.3
47.1	44.1	40.5	36.5	32.3	27	49.1	48.2	48.8	52.6	55.6	59.8	71.4
40.5	37.7	34.6	30.4	27.5	25.2	48.6	46.8	47.4	49.9	55.8	57.9	69.2
35.9	32.4	29.9	26.8	25.2	24.7	47.8	46.9	47.8	52.5	57.9	57.4	71.6
35.2	31.9	28.4	25.6	24.2	24.6	47.9	45.4	51.5	52.4	57.6	59.3	72.8
40.4	37.5	33.4	29.3	26	25	46.8	45.2	51.7	51	57.4	59.6	72.5
40.6	38.3	34.5	31.7	27.7	25.4	46.5	46.3	49.2	49.8	56.1	60.1	69.1
36.5	34.5	32	30.4	26.6	25.2	44.6	47.5	48.3	50.6	55.6	60.9	71.2
31.7	30	27.7	26.8	24.3	24.6	45.1	46.4	50.2	57.1	57.4	61.7	73.2
31.9	29.6	27.1	25.3	24.2	24.5	45	50.1	54.9	56.6	56.6	61.4	77.4
33.8	30.7	27.2	25.4	24	24.5	45.7	52.4	55.3	55.7	58.1	61	77.4
32.7	28.8	26.3	24.2	23.8	24.6	45.8	53.4	52.6	55.6	57.9	58.7	76.4
27.9	25.6	24	23.3	23.7	24.6	49	54.3	50.5	55.3	56.5	56.3	74.6
25.9	24.6	23.8	23.2	23.5	24.5	48.4	52.6	48.7	54.6	54.5	56.4	72.4
26.6	26	24.1	23.4	23.6	24.5	46.5	50.2	47.1	52	54	55.9	69.2
25.9	25	23.8	23.2	23.7	24.5	44.9	47.9	46.7	50.8	53.8	54.5	67.6
27.8	25.4	24.1	23.4	24	24.6	42.5	47	45.1	52.7	54.9	53.6	69.2
28.6	25.4	23.4	23	23.6	24.5	40.8	45.9	46	53.4	55.5	53.5	72.2
31.9	29.1	25.4	24.3	24.2	24.6	44.7	45.8	45.6	53.1	54.7	56.4	71.2
35.7	32.8	27.9	26.9	25.8	24.9	44.8	46.2	45.9	52.4	54.6	55.6	67.9
32.2	29.3	26.3	24.9	24.7	24.6	43.5	48.8	50.8	50	54.6	57.3	64.4
27.1	24.6	23.4	22.9	23.6	24.3	45	51.6	50.4	50.9	55.2	58.1	62.1
26.2	24.7	23.2	22.9	23.7	24.4	45.5	50.6	47.1	55.5	54.2	60.5	62.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
57.6	55.4	54.5	54.1	52.4	49.9	48.4	43.4	42.4	41.2	39.9	39.7	40.7
55.9	55.9	53.2	54.6	52.3	49.4	48.1	44.2	42	41.9	40.5	41.3	41
56.3	55.8	53.1	54.4	54	48.7	47.9	43.9	42.1	42.2	40.4	41.4	41.6
57.2	56.7	52.9	53.3	53.7	48.7	47.8	43.5	41.9	41	39.7	40.6	44.8
57.1	57	55	52.4	53	49.7	47.8	43.4	40.8	41.4	39.2	41.1	45.2
56	56	54.6	53.5	52.9	50	48.1	43.4	40.2	40.6	39.3	40.4	43.6
55.9	57.1	55.6	54.3	52.3	49.9	47.7	43.8	40.3	39.3	40.3	40.2	44
55.9	57	55.9	54.1	51.7	49	46.8	43.8	40.4	39.1	39.6	39.8	43.5
54.2	55.1	55.6	52.7	52.2	48.6	47.3	43.6	40.6	40.3	39.8	39.6	43.4
54.8	54.6	56	52.1	52.2	49.3	46.5	43.7	40.8	39.7	39.7	39.2	42.8
55.2	56.6	55.7	52.4	52	49	46.4	44	40.8	39.6	39	38.8	41.8
53.7	58.1	54.4	52.6	52.4	47.8	46.3	43.6	40.7	40.1	38.7	39.1	42.2
54.7	58.1	53.7	51.8	51.4	48	46.3	43.4	39.9	39.2	39.1	39.4	42.6
57.5	57.5	53	52	52.1	48.5	45.9	43.5	39.7	38.6	38.6	38.8	42.4
58.6	58.7	53.8	52.2	52.5	48.3	46.2	43.5	40.7	39.3	38.8	38.4	41.2
58.2	58.7	54.5	52.1	52.4	48.1	46.9	43.6	40.5	40.1	38.7	38.3	42.2
58.2	56.9	54.8	51.9	52.2	49.1	47.1	44.1	40.9	40.8	38.9	37.9	42.1
58.9	58.7	55	52.3	52.2	48.8	47.3	44	41.4	41.3	40.5	38.9	42.1
56.6	58.2	55.7	55.1	52.6	51	48.4	45.2	42.6	42.6	40.8	39.4	42.6
56.6	58.6	55.7	56.8	53.3	51	48.3	44.8	42.2	42.2	39.7	39.5	41.7
55.8	59.1	56.8	55.5	53.3	50.4	48	44.6	42	42.9	40.8	40	42.2
55.2	58	56.6	52.9	53.5	49.9	47.1	44.5	42.2	43.3	43.6	44	43.6
55.9	58.5	57.7	52.4	52.6	50	46.3	45.1	42.5	44.8	44.5	44.1	43.7
56.3	58.6	58	52.2	52.8	49	46.6	46.6	43.9	46.4	44.4	43.6	43.6
60.7	58.3	59.6	53.3	54	49.3	46.4	46	43.8	45.7	43.6	45.3	44.9
60.6	64.9	61.4	53.4	55.4	49.3	47.1	45.1	42.9	44.5	42.5	44.1	43.9
59	67.8	59.7	52.2	56	48.6	47.7	45.5	43.1	42.9	42.3	43.4	43.4
58.5	67	56.5	53.6	54.7	49.8	47.4	46.4	44	42.9	43.6	45.7	44.2
60.7	64.6	56.5	53.6	54.4	50	47.9	46.2	45.1	43.4	45.5	46.2	44.2
61.1	61.5	56.5	54	54.2	50.7	48.4	46.2	45.9	45.2	46.7	47.3	46.6
61.2	60.3	56.3	54.2	54.8	50.8	48.6	46.8	46.1	46.4	47	47.7	47.3
62.7	59.9	56	55.5	53	52.3	49.4	47.7	46.6	47.5	46.4	48.3	46.6
62.7	60.3	55.2	56.7	57	52.1	49.7	47.7	47.2	47.2	45.9	48	46.1
62.2	66.2	56	56.3	57.9	51.2	51.5	46.9	47	46.7	45.8	47.2	44.7
60	69.5	68.3	54.2	58.3	55.1	54	48.2	47.2	49	48	48.3	45.3
57.9	69.2	69.6	54.3	57.3	55	54.2	48	46.9	48.8	48.2	48	45.3
56.7	65.7	70	68.3	54.9	54	52.7	47.4	46	47.1	47.3	46.8	45.4
55.8	62.5	67.9	69.1	55	52.7	52.4	46.6	45.6	46.6	45.7	45	45.4
55.8	61.2	72.6	68.9	54.4	53.9	50.4	45.7	45	45.3	44.7	43.3	44.2
55.5	61.4	73	65	54.5	53.4	48.8	45.8	45.2	45.1	43.5	42.3	43.5
55.1	59.2	72.1	61.1	55.7	51.6	48.5	45.8	44.9	44.2	41.9	41.3	42.6
56.5	58.8	68.5	57.6	59.7	51.5	48	45.4	44.4	43.7	42.3	40.7	43
56	60	66.4	59.4	61.5	51.7	48.1	46.5	44.1	42.8	42.7	40.6	43.5
56.3	63.5	63.7	59.7	60.2	51.4	47.7	47.1	44.5	42.9	42.7	40.7	43.2
58.2	63	59.9	60	59.1	51.8	47.5	46.7	43.8	43	42	40.3	43.3
57.8	60.3	58.1	57.7	57	51.7	48.6	46.4	43.6	43.1	41.6	40.5	43.3
55.5	58.5	58.3	55.4	56.6	51.7	49.2	47.7	43.7	43.6	42	41.1	42.8
56.1	59.3	56.7	55.3	56.8	50.3	50	47.5	43.6	43.4	42.2	41.3	42.6
61.2	57.9	55.3	55.2	57.2	51.8	49.9	47.8	44.8	42.6	41.8	40.7	43
61.5	58	56.8	56.5	57	51.8	49.3	47.6	46.1	42.1	41.3	41.1	42.3
60.4	57.7	58	55.9	56.2	53	49.3	47.6	49.6	42.2	41.3	41.1	44.4
59.7	57.5	58.4	56.9	55.2	58.5	55.3	52.8	56.6	44.9	44.4	41.5	45.5
59.1	57.1	58.9	57	57.1	58	57	55.1	55.1	45.8	45.6	44.4	46.4
57.7	59	58.5	55.5	56.9	57.5	57.3	54.9	54	47.2	49.1	48.7	48.9
56.7	62.3	58.6	56.7	58	57.5	58.5	55.5	53.7	48.6	50.3	50.7	48.6
55.9	63.1	65.8	57	59.1	55.6	58.2	54.6	52.3	48.1	50.2	50.6	47.7
55.9	62.4	66.1	57.4	58.8	54.9	58.5	52.7	51	48.2	50.4	49.5	47.5
56.2	60.3	64.9	59.8	58.3	54.8	56.7	51.7	49.8	47.9	49.5	48.6	47
59.8	60.6	62.6	59.2	58.9	53.4	53.4	50.9	48.5	47.4	47.9	47	46
60.8	61.1	62.2	57.1	57.5	52.8	51.5	50.4	47.6	45.9	46	45.4	44.8
61.1	60.2	60	55.3	55.8	53.2	51	52.7	48.2	45.4	44.3	43.9	43.7
60	59.2	58	54.6	55.1	53.5	51.1	52.5	47.9	44.4	43.4	42.5	43.1
58.9	59.4	56.5	55.2	54.6	53.7	50.5	52.6	46.7	43.8	42.3	41.7	43.1
58.7	58.9	56.6	56.6	53.8	55	51.3	54.4	48.2	45.3	46	41.5	43.1
63	58.2	55	58.9	57.5	54.4	51.8	54	48.4	45.4	46.1	42.7	44
63	57.1	55.5	57.6	59.5	54	53.5	52.1	48.4	47	45.9	43.3	45.2
60.1	58.2	54.6	54.9	60	54	53.4	50.8	48.4	47.3	46	47.1	47.1
61.4	59.4	55.6	59.4	60	53.2	53	51.1	49	50.1	47.8	47.7	47.8
61.5	61.2	56.4	59.2	58.8	54.1	54	52.1	50.8	51.3	49	48.8	47.8
66.2	61.7	58.3	58.8	58.7	55.8	54.3	52.1	51.2	51.8	48.6	48.6	47.8
65.9	60.3	58.2	60.3	59.5	57	54.2	53.3	50.5	50.7	48.3	48.8	48.2
65.2	59	61.1	59.3	59.4	55.6	54.2	52.8	51.5	50.9	47	47.9	47.9
63.6	58.5	61.4	65.3	58.4	57	55.3	52.1	51.5	51.1	47.4	48.8	48
63.3	58.2	60.3	66	58.8	57	55.3	52.3	52.8	51.2	48.8	50.3	48.4
68.1	58.1	59.1	64.6	60	55.9	54.5	54.1	52.1	50.8	49.4	50.4	48.4
68.9	58.3	56.9	62.8	59.4	55.3	54	53.4	50.7	49.9	49.2	49.7	48.2
67.8	58.9	57	62.7	67.1	55.5	54.4	58.6	51.4	51.7	53.3	52.1	50.5
75.1	61.3	57.3	61.2	67.2	57.2	54.4	58.2	51.5	51.7	53.2	51.5	50.2
73.4	62.5	58.5	59.6	64.5	58.4	55.3	55.9	52.7	52.4	53.8	50.3	48.6
71.5	67.3	61.1	58.5	61.8	57.8	55.6	55.4	51.8	52.4	53.6	49.2	49.5
71.3	67.1	62.5	64.2	60.9	57.4	56.6	57.8	54.3	51.9	53	51.6	50.8
68.5	63.9	62.5	63.6	63.6	58.5	58.8	58.7	55.6	53.7	54.4	52.7	52.8
68.1	67.9	61	60.7	64.4	64.7	59.5	66.5	56.8	53.7	55.2	52.9	52.3
71.9	67.5	60.4	59.8	63.7	64.9	58.5	67.6	58.7	54	55.1	52.3	51.1
71.4	64.7	62.1	59.2	62.5	63.8	60.8	67.2	57.7	53.7	54.9	51.4	49.9
76.9	68.6	65.3	59.3	65.6	65.3	59.4	65	57.2	52.5	52.9	51.1	49.7
75.7	67.9	67.7	63.7	64	63	58	63.1	55.5	51.9	51	51.1	49.1
71.6	64.2	67.5	66.9	61.4	59.8	56.7	59.6	53.7	51.2	49.5	49.7	47.5
68.6	61.4	65.1	66.8	60.3	57.6	56.9	56.6	54.2	50.8	48.3	47.3	46.3
65	60.6	64.7	63.6	58.5	57	56.3	54.3	54.9	50.5	48.7	49	47.3
61.6	58.9	63.6	63.1	57	55.1	56.8	52.8	56.8	51.1	50.6	49.8	47.5
61.3	57.7	60.8	62.7	56.5	54	57	52.6	56.5	51.2	50.5	48.8	47.1
66.4	56.8	57.4	60.7	55.8	55.3	57.1	51.9	55.5	50.9	50.4	49.2	48.3
66.3	56.6	56.7	58.7	55.3	55.4	56.8	52.1	53.4	51.4	51.5	49.7	50.6
63.6	56.6	55.6	56.1	56.5	59.4	60.4	54.8	57.1	56.3	55.8	54.7	54.1
60.9	59	57.6	56.8	63	62.8	61	57.4	57.6	56.8	56.1	54.8	54.1
59.8	58.6	59.7	58.1	63	61.2	60.1	56.9	57.2	56.5	54	52.7	52.5
58.8	62.5	59.3	56.1	62.1	2/28/1900	2:24:00 PM	54.9	54.6	53.9	51.1	49.7	50.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
37.4	36.5	35.3	33.5	35.6	32.1	29.1	27.6	25.8	24.4	22.7	21.5
37.6	36.2	34.8	33.9	36.7	32.1	29.5	28.3	26.6	25.2	23.4	21.7
38.5	37.2	35.1	34.5	38.1	33.3	34.5	30.6	29.1	25.3	23.8	21.9
38.4	37.3	36	35	38.3	34.2	34.9	30.8	28.9	25.6	24.5	21.9
38.4	38.4	38.5	36.2	36.7	34.3	33.4	29.7	27.9	25.5	24.1	21.8
38.2	38.3	38.8	36.1	35.3	33.9	32.8	29.4	27.1	25.6	24.2	21.7
39.3	38	39.4	37.7	34.4	32.6	31.7	28.4	26.5	25.1	24.1	21.8
44.7	40.4	39.1	38.6	34.4	34.1	31.5	27.6	25.9	24.6	23.6	21.7
45.7	41.4	37.9	38.7	34.7	33.6	30.3	27.3	25.6	24.9	23.2	21.7
44.1	40.8	36.9	37.1	33.9	32.5	31.2	28.3	26.1	25.3	23.8	22
41.1	38.3	35.4	34.8	32.5	31.3	31.8	28.6	25.9	25	23.4	22
39.4	36.7	34.9	33.9	32.5	30.6	30.2	27.8	25.2	24	22.7	22
39.2	36.4	36.2	35	34.3	31.8	29.5	27.7	25.5	24	22.8	22.1
38.6	36.7	35.1	33.8	33	31.2	28.6	27	24.8	23.4	22.3	22.1
37.9	36.4	37.2	38.6	33.4	33.8	29.6	28.1	25.5	24.2	22.5	22.3
38.8	37	37.4	38.5	33.4	33.5	30.5	28.9	26.8	25.7	24.3	22.7
40	39.3	39.2	36.4	34.6	37.4	34.5	30.3	26.8	25.9	24.2	23
39.9	39.5	39.4	37.1	35.9	35.9	33.3	29.7	27.2	26.1	24	22.9
39.7	39.7	39.5	37.5	35.9	35.8	33.4	29.8	27.2	26	24	23.2
39.4	39.6	38.8	37.2	35.8	35.6	34.3	31	27.8	26.5	26	26.3
40.5	40.4	38.5	37.1	37	36.3	34.8	31.9	30.9	29.8	29.8	29.3
41.8	41.4	40.3	40.5	40.5	39.5	37.2	35.6	34.2	33.7	32.4	32.4
43.1	42.8	42.8	42.1	42	39.9	38.3	39.2	35.2	36	34.4	33.8
43.2	43	43.2	42.1	41.6	39.3	37.6	38	34.8	34.9	33.3	32.3
42.6	42.4	42.8	41.1	40.1	37.6	36	35.4	33.2	32.9	31.9	30.7
41.3	41.5	41.2	40.1	38.6	36.2	36.2	35.4	36.6	38.1	35.7	33.2
40.7	40.4	40.5	39.4	37.7	35.9	35.6	35.1	33.8	35	32.6	30
41.3	41.4	41.8	41.7	40.6	38.3	37.9	37.1	35.1	33.7	31.1	28
41.9	41.3	42.8	42.4	40.3	38.3	37.9	37	34.4	32.7	30.3	27.2
42.8	43.2	44	42.2	39.7	38.7	38.3	37.8	34.5	32.8	31.3	28.9
45.5	47	45.2	43.1	40.9	39.5	39.2	38.3	36.1	32.7	30.7	28
45.5	47.1	46	43.6	41.6	40.5	39.6	38.4	36.2	33.6	31.5	28.2
44.8	46.7	46.3	44.5	42.3	40.8	40.8	39.4	36.7	34.6	32.3	29
44.5	45.8	46.1	44.5	42.3	40.7	40.4	39.3	36.6	34.8	32.5	29
45.4	44.9	46	43.6	41.9	40.4	39.7	39.1	37.4	35.4	32.8	28.7
45.2	44.8	46.8	43.4	41.5	40.2	39.6	39.1	37.6	36.3	33	29.4
46	44.9	46.9	43.8	41.9	40.2	40.4	39.7	38.3	36.2	33.2	29.4
45.5	44.2	45.9	43.3	41.2	39.9	40	38.8	37.1	35	32	28.1
43.1	42.5	43.6	41	39.4	37.9	37.4	36	33.9	32.1	29.3	25.9
41.8	41.5	42	39.7	38.4	36.2	36.7	35.3	31.5	30	27.4	24.3
40.7	40.6	40.8	38.4	37.4	35.7	35.1	33.7	29.3	27.5	25.2	23
39.7	39.9	40	37.3	36.6	34.8	34.1	32.2	27.1	25.2	23.5	22.1
39.8	39.8	40	37.1	36.5	36.4	34.8	30.8	27.2	25.2	23.6	22.2
41.1	40.6	39.3	37.9	36.8	36.2	35.1	31.4	27.3	25.2	23.6	22.2
41.1	40.6	39.2	37.9	36.6	35.2	34.8	30.9	27.6	26.2	25.3	24
41	41.5	39.5	39.4	37.4	34.5	38.9	33.2	27.6	26.2	25.3	23.8
41.4	42.4	39.7	39.5	37.9	36.3	39.3	33.6	28.4	26.1	25.1	23
40.6	42	39.4	39.2	37.8	36.2	37.7	32.6	28.2	26	24.8	22.8
40.4	41.7	40.3	38.1	37	36.3	35.1	31	27.8	25.3	23.7	22.2
40.4	41.1	40.9	38.1	37.3	36.2	34.1	30.6	28.1	25.4	23.7	22.5
41.7	41.9	40.6	37.8	37.6	36.4	33.8	30.5	28.5	26	24.3	22.7
43.2	43.4	42.1	39.3	38.4	37.2	35.9	32.5	30.4	28.4	26.5	24.4
43.8	44.8	43.2	40.3	39.4	38.4	37.5	33.9	31.8	29.7	27.6	25.6
45.3	46.1	44.6	42.2	40.5	39.6	38.7	35.6	32.7	30.6	28.3	26.5
46.8	46.8	46.3	44	42.2	39.8	39.5	36.8	32.8	31.8	29.4	26.7
46.8	47.7	47.7	46.5	43.4	40.8	40.5	36.8	33.6	31.6	29.1	26.5
46.7	47.9	47.8	46.6	43.4	41	40.6	36.7	33.7	31.3	28.6	25.8
47.2	47.1	47.1	45.9	42.9	40.3	39.3	35.6	32.8	30.3	27.3	24.6
46.4	45.9	45.3	44.1	42.2	39.3	37.4	35	31.4	28.3	25.6	23.3
45.2	45	44	42.8	41	37.8	35.8	34.1	29.7	26.5	23.9	22.2
43.2	43.4	42.8	41	40.1	37.1	34.4	32.1	28.9	25.3	23	21.8
42.4	42.1	42	40.2	39.9	37.2	34	31.4	28.2	25.2	22.7	21.8
41.3	41.2	41.2	39	38.9	36.6	33.4	30.7	27.2	24.7	22.6	21.7
40.8	40.6	39.9	39.1	37.9	36.7	33.7	31.3	28.5	26.3	23.7	23
41.5	40.7	41.8	40.3	39.3	37.4	35.3	33.2	30.5	27.9	25.5	24.4
42.3	43	45.2	43.2	41.2	39	36.7	34.4	31.9	29.8	26.6	25.3
45	47	48.3	45.5	43.1	40.4	38.2	35.9	33.1	30.7	27.7	26.8
46.9	48.6	49.3	46.5	44	40.9	38.2	36.7	33.3	31.2	28.4	27.1
48	49.1	49.8	46.7	44.8	41.1	39	37.4	34.2	32.4	29.6	27.9
47.9	49	49.4	46.3	44.5	41.2	39.5	38.2	36.3	33.7	31.2	29.7
48.2	49.3	48	45.8	44.2	41.7	40.7	39.2	37.9	34.8	32.6	30.6
47.3	48.8	47	45.2	43.7	41.6	40.2	38.7	37.3	34.3	32.1	30.2
47.3	48.2	47	44.4	43.3	41.6	40.1	38.7	37.5	34.8	32.2	29.8
49.5	48.3	49.5	47	45.8	43.5	42.1	40.2	38.2	35.9	33.9	30.8
49.5	48.3	49.5	47.3	45.7	43.6	42.2	40.2	38.2	36.1	34.1	30.8
48.1	47	48.1	47.7	46.6	46.7	46.1	46	45.1	43.5	41.9	39.6
48.2	48.6	50.2	49.5	50.1	50.1	48.8	50.4	48.2	47	45.7	42.9
48.2	48.8	50.1	49.2	49.9	50	48.7	50.3	48.2	46.9	45.5	42.7
48.3	48.7	49.4	48.2	48.3	47.7	46.4	47.8	45.6	44.5	42.9	40.1
47.2	47	47.8	46.2	46	45.3	43.5	44.5	42.8	41.9	39.8	36.8
49.2	49.2	50.2	48	48.1	47.6	45.7	45.1	43	42.2	39.8	36.9
52.2	51.7	52.3	48.8	48.3	48.4	46.7	45.7	43.8	42.5	40.5	37.9
52.2	51.6	52.2	48.6	48.1	48	46.4	45.3	43.4	41.8	40.2	37.6
50.5	50.2	50.8	47.2	46.7	46.4	44.4	43.4	42	39.8	38.1	35.8
49.9	48.1	49	45.5	44.6	43.7	41.7	41	39.3	37.1	35.2	33
47.9	46.2	47.4	44	43	42.4	40.1	39.5	38.1	36.3	33.8	31.4
46.8	44.9	46.5	42.9	42.9	42.2	39.8	39.2	37.6	36.3	33.7	30.9
45.4	44	45.3	42.3	42	41	38.9	38.2	36.6	35.4	33	29.6
43.7	42.9	43.3	40.8	40.2	39.3	36.9	36	34.5	32.8	30.4	27.4
43.4	43.8	43.1	41	39.3	37.4	36.3	34.4	33.4	30.7	28.2	26.1
45.8	45.6	45.6	43.8	42.4	38.3	36.3	34.6	33.4	30.1	27.2	26
46.5	47.2	47.9	46.1	44.8	41.4	39	36.2	33.8	30	27.5	25.5
46.9	47.1	48.3	46.5	45.1	42.2	39.3	36.4	33.9	30.3	28.2	25.5
47.6	49.3	49.5	47.5	47.1	43.4	40	38.4	35.4	31.3	31.2	28.4
54.5	55.1	55.5	51.5	49.6	46	43.1	42.2	39.4	35	34.6	31.6
54.5	55.3	56	52.2	49.6	45.9	43.3	42.2	39.4	35.1	34.7	31.6
52	53.5	54.6	51.6	48.4	44.6	42	40.5	37.6	33.7	32.9	30
49	50.4	51.7	48.8	45.6	41.8	39.1	37.7	34.8	31.5	30.2	27.4

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
21.8	22.7	23.6	24.5	44.9	46.7	45.9	48	52.1	54	56	55.9	54.5
21.8	22.6	23.5	24.5	44.8	46.6	45.8	48.2	52.2	52.7	55.2	54.5	54.1
21.8	22.6	23.5	24.5	45	46	45.6	47.1	51.8	52.1	53.6	55.3	54.8
21.8	22.6	23.5	24.5	44.3	44.3	44.7	51.5	50.9	54.1	55	55.7	55.2
21.8	22.7	23.6	24.5	44.3	41.3	46.5	52	50.5	55.7	56.5	55.9	55.8
21.8	22.7	23.6	24.5	44.9	40.8	50.5	51.3	55	55.2	56.6	54.9	54.5
21.9	22.7	23.5	24.5	45.5	42.2	50.7	50.5	54.6	54.7	57	55	54.1
21.9	22.6	23.7	24.6	45.3	49.9	47.6	51.6	53.5	54.8	55.8	53.9	55.1
22	22.7	23.6	24.6	44.4	47.1	47.4	53.9	52.5	53.8	56.6	52.7	54
22.2	22.8	23.6	24.6	46.4	45.9	47.5	52.7	52.1	53.5	55.2	52.6	53.3
22.2	22.8	23.6	24.6	46.2	45	47	50.4	52.1	53.9	55.9	53.2	53.1
22.2	23	23.6	24.6	46.1	47.2	45.9	50.3	53.4	55.4	55.1	51.7	56.7
22.3	23	23.7	24.6	48.3	47.3	48.6	50.3	52.2	53.4	54.9	53.6	56.8
22.2	23.3	23.7	24.6	47	49.4	48.3	49.2	51.1	52	55.8	53	56.5
22.7	23.3	23.8	24.6	51.9	50.3	48.3	48.7	49.8	51.2	55.9	57	57.2
23.3	24.3	24.5	24.6	52.6	48.3	48.3	47.3	48.6	51.1	55.9	57.1	56.1
23.2	25.2	24.8	24.6	49.1	47	48.2	46.5	49.1	52.2	55.8	56.3	56
23	25.2	26	25.5	46.4	45.1	46.9	45.7	49.8	53.1	56.1	56.6	56.4
23.9	24.7	25.3	25.1	43.8	42.4	46.4	47.4	49.6	52.9	54.9	55	56.3
25.8	24.9	26.2	25.8	41.3	40.9	45.4	48	50.3	54.1	55.6	55.8	57.8
27.3	26.4	25.4	25.3	41.4	42.5	47	50	52.4	61.3	59.9	54.3	57.6
30.4	29.5	26.1	25.5	41.6	44.4	47.3	52.1	56.4	58.3	58.5	54	56.5
32.2	29.5	37.8	26.1	42.6	44.5	47.1	50.8	54.5	55.5	56.6	54.9	56.8
31.3	30.2	36.9	28.9	44.3	47	47	49.8	53.3	53.9	55.7	54.8	57.3
31.8	33.5	34.5	28.9	44	45.3	47.9	47.8	52.9	54.3	57	56	56.6
32.6	33.6	34.4	28.4	46.3	45.2	45	47.4	53.3	54.2	58	58.9	57.6
29.3	30.2	30.8	26.5	46.7	47.8	43.5	46.3	52.2	54	56.9	56.1	65
27	27.3	27.8	25.4	44.1	47.1	43.8	47.8	52.9	53.6	56	55.7	64.6
26.3	25.8	25.9	24.9	42.2	46.1	44.4	46	52.6	57.7	57.8	58.5	61.5
26.6	26.6	25.3	24.7	41.5	45.3	46	46.3	52.4	55.2	57.5	59.6	59.1
26.3	25.6	24.7	24.6	42.5	45.7	47.9	49.8	51.2	54.1	57.4	60.4	58.7
26.4	24.8	24.2	24.6	41	44.2	44.4	48.8	53	53.2	57.3	61.2	57.6
26.2	24.4	23.9	24.5	41.2	43.4	44.3	46.3	51.8	52.6	56.7	62.1	57.1
26.3	24.4	23.9	24.6	41	43.2	45.1	45.9	52.3	51.1	55.9	60	60
26.8	24.9	23.9	24.6	43.1	42.7	43.8	48.2	50.8	50.3	55.5	57.7	66.3
27.1	25	23.9	24.6	41.4	44.3	45.2	48.2	52	52.3	54.7	56.7	65.7
27.2	25	23.9	24.6	40.6	45.2	44.6	48.7	50.4	53.2	56.7	55.6	62.5
26.2	24.4	23.8	24.5	42.9	44.7	44.6	52	50.1	54.3	57.9	54.1	59.4
24.2	23.4	23.7	24.5	43	43.9	44.8	50.9	49.8	55	57.6	54	59.1
23.2	23	23.6	24.5	42.4	44.2	46.3	53	52.2	56.9	56.7	55	58.9
22.5	22.7	23.6	24.5	42.1	48.5	48.4	51	51.3	55.6	55.3	53.4	58.3
22.1	22.7	23.6	24.5	45.7	47.5	46.3	49	50.8	53.5	55.8	53.2	57.2
22.3	22.8	23.6	24.6	51.4	47.1	45.6	48	49.6	52.7	56	54.7	58.6
22.3	22.9	23.6	24.5	50.5	45.4	46	48.5	49.4	51.6	55.8	55.1	59.3
23.5	23.8	23.9	24.5	47.5	45.1	45.9	47.9	49.5	51.8	53.2	55.1	60.3
23.4	23.7	23.8	24.5	47.5	46.5	47.1	48.2	53.3	53.7	52.5	55.4	57.5
22.4	23.1	23.6	24.5	49.5	44.3	45.8	48.8	52.9	53.9	52.4	53.3	57.4
22.3	22.8	23.6	24.6	47	43	47.6	48.1	53.2	54.2	53.8	52.8	57.8
22	22.7	23.6	24.6	46.7	44.6	46	48	53.9	53.8	54.9	56.1	56.7
22.3	22.6	23.6	24.6	47.5	46.3	43.8	46.2	52.5	54.7	59.5	59.6	56.9
22.4	22.6	23.6	24.5	46.6	46.8	43.7	46	50.3	54.9	59.1	59.7	56.8
23.1	22.9	23.6	24.5	44.4	46.1	44.3	48.7	49.9	56.3	59.3	58.9	56.5
23.8	23.1	23.7	24.5	42.3	45.7	52	54.6	54.4	54.5	56.8	57.5	56
24.4	23.4	23.7	24.5	42.7	47.3	49.5	51.1	51.3	53.6	56	56.2	55.9
24.7	23.4	23.7	24.5	46.6	49.3	46.6	49.6	49.5	53.2	55.7	54.7	58.7
24.5	23.4	23.7	24.6	56.2	47.6	45.4	49.6	49.5	53.2	55.1	54.6	61.3
23.8	23.1	23.7	24.6	54.3	46	44.8	49.2	49.7	53.4	56.5	54.7	59.9
23.1	22.9	23.6	24.6	50.5	46.8	45.6	47.1	50.6	53.8	56.5	54.8	58.7
22.5	22.7	23.5	24.5	47.2	45.9	46	46.5	51	57.4	57.9	55.7	58.8
22.2	22.7	23.5	24.5	44	46.6	46.2	52.2	53.2	61.1	60.3	59.4	60.1
22	22.8	23.5	24.5	42.9	48.3	50.8	56.3	58.9	57.7	58.2	60	58.9
21.9	22.8	23.5	24.5	42.9	51	51.7	52.9	54.9	56.5	57.8	58.4	57.9
21.9	22.7	23.6	24.5	46.9	51.9	49.3	50.4	53.9	56.3	57.6	57.5	58
22.4	22.9	23.6	24.5	56.1	49.8	46.2	49.9	53	55.8	59.6	57	57.5
23.5	23.2	23.6	24.5	52.7	46.9	45.4	49.2	53.5	54.8	61.4	57	57.2
24.1	23.3	23.6	24.6	49	45	44.7	47	53.6	54.8	63.3	60.2	55.7
24.8	23.6	23.8	24.5	45.7	43.9	45.4	45.7	53	55.4	62.8	58	55.6
24.9	23.8	23.8	24.6	42.3	43.8	43.8	47.3	52.1	55.4	60.5	58.8	58.3
25.7	24.7	24.3	24.7	40.6	43	42.7	46.7	54.1	57.5	60.5	59.8	58.9
26.9	25.8	25.2	24.8	40.3	42.3	45.1	50.2	56.3	56.1	63.6	59.7	60.4
27.7	26.4	25.4	24.9	40.9	47.3	50.9	52.5	56.7	55.3	64.8	64.7	58.7
27.5	26.3	25.2	24.8	40.9	46.5	50.1	53.4	55.9	53.9	70.6	63.2	56.8
27.6	25.5	24.8	24.8	42.1	45.9	48.1	51.8	55.1	55.3	71.3	62.6	56.9
28.7	25.6	24.5	24.7	43.3	46.5	45.6	49.7	52.9	61.8	71	62.4	56.9
28.7	25.6	24.5	24.7	43.5	46.1	45.1	49.6	53	62.7	70.7	63	57
36.4	33.1	29.2	25.7	47	46.1	47.6	50.2	53.9	59.8	70.7	67.7	57.5
39.3	35.6	31.3	26.6	47.1	46.8	47.4	49.8	53.2	57.9	67.5	65.5	57.7
39.2	35.2	31.2	26.4	46	45.4	46.2	48.6	52.1	56.3	65.4	67.1	58.2
36.7	32.7	29.1	25.7	45.7	45.2	46.2	49	54.4	55.8	68.9	71	59.9
33.6	29.9	27	25.1	46.9	43.9	46	50.8	56.6	57.5	71.6	68.7	61.3
33	29.1	26	24.9	45.8	43.4	49.3	49	55.1	58.4	68.8	68.6	63.9
33.9	31	27.2	25.3	44.6	44.9	47.4	48.3	54.6	57.8	67.1	66.2	60.8
33.9	31	27.3	25.3	43.2	45.6	46.2	49	54.3	59.9	69.1	66.4	60
32.7	30.6	26.7	25.2	42.7	44	48.1	50.7	55.4	60.5	70.4	67.4	64.8
30.2	28.4	25.4	24.9	43.5	44.5	49.9	55.7	55.5	59.7	73	69.1	61.6
28.5	26.8	24.6	24.7	42.5	50.1	52.6	53.8	55.1	58.7	76.5	68.4	60.7
27.7	26	24.3	24.6	45.3	50.6	50.6	53.4	56.6	55.7	74.4	71.6	64.2
26.8	24.9	24	24.6	45.2	52.7	48.7	54.6	53.7	55.2	72.4	68.6	60.9
25.2	23.9	23.8	24.6	46.5	50.2	46.2	52.1	53.8	55	69.3	65	59.6
24.4	23.5	23.6	24.5	44.7	46.5	44.9	50.8	52.9	52.9	67.2	61.6	59
24.2	23.5	23.7	24.5	42.5	46.5	44.4	48.1	50.9	53.3	66.7	60.2	57.3
24.1	23.5	24	24.5	39.8	45	43.5	47.1	53.9	52	67.3	59.9	56.2
24	23.4	23.9	24.6	37.7	45	44.6	52.8	54.3	51.5	69.2	61.4	55.5
25	24.1	24.1	24.6	40.9	43.6	43.7	52.5	53.5	53.8	68	63.6	55.7
27	26.1	25.3	24.8	42.4	43.6	42.3	50.1	52.9	53.6	64.4	60.9	55.9
27.1	26.2	25.3	24.8	42.6	45.5	45.5	48	52.8	54.9	62.2	58.4	55.2
26.4	25.2	24.8	24.7	42.3	48.9	47.1	48.5	52.6	57	60.6	58.1	57.5
24.8	23.9	24.1	24.5	2/12/1900	48.7	45.5	49.9	52.9	56.3	60.8	57.6	58.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800			
52.4	52.8	51.6	48.8	46.8	42.1	41.8	40.6	37.9	38.8	40.1	36.8	36.1			
51.4	53.3	51.4	48.7	47.1	43	40.8	40.6	39.2	38.8	40.1	36.6	35.6			
52.1	53.1	52.1	47.6	46.6	43.4	40.7	41	39.2	40.4	40.8	36.7	35.7			
51.3	52.3	52.4	47.4	46.6	42.9	40.8	40.4	39.1	39.8	41.6	37.5	36.7			
53	51.4	51.3	48.1	46.5	42.6	39.7	40.3	38.6	40.2	43.5	37.3	36.5			
54	52.2	51.3	49.4	47	42.6	39.6	39.3	38.5	39.9	42.6	37.3	37.4			
54	52.1	51.5	48.3	46.8	43.3	39.6	38.4	39	39.6	42.6	37.7	37.6			
54.1	52.7	50.6	48.2	46.2	43.1	39.5	38.3	38.4	39.1	42.9	38.9	37.3			
53.7	51.6	50.7	47.5	46.2	42.7	39.1	38.6	38.6	38.8	42.6	44.2	39.1			
55.2	50.6	51	48.4	46	43.1	40.1	39.2	38.4	38.4	41.4	41.1	38.3			
54.4	50.9	50.5	47.5	45.6	43.4	39.9	39	37.9	38.4	41.3	39.3	36.6			
53.4	50.7	50.8	47	45.4	42.6	39.7	39.1	37.8	38.3	41.2	38.2	35.7			
52.5	49.9	50.3	47.5	45.1	42.5	39	38.6	38.1	38.7	41.9	37.7	36			
51.8	51.1	50.1	47.7	44.9	42.5	39.1	38	38.1	37.7	41.1	37.4	36.1			
52.3	50.9	51.5	47.3	45.1	42.6	39.6	38.3	38	37.8	40.8	36.7	35.9			
52.1	51.5	50.7	47.5	45.2	42.4	39.3	39.1	37.9	37.8	41.2	37.8	36			
53.7	51	51.2	48.2	45.6	43.1	40.3	39.9	38.3	37.3	41.4	38.4	37			
54.2	50.6	51.3	48.2	45.7	43.2	39.6	40.3	37.7	37.3	41.2	39.2	37.7			
53.9	52.2	51.7	48.4	47.2	43.3	41.3	41.5	39.7	38.8	41.6	38.9	39.4			
54.4	54.2	52.3	49.9	47.5	44.2	41.5	41.2	39.3	39	41.2	38.6	38.6			
55	52.9	52	49.7	46.7	43.9	41.4	41.3	39.6	39	41.1	38.2	38.6			
54	51.6	51.1	49	46.1	43.8	41	42.6	40.8	40	41.9	40.3	40.1			
56.4	51.5	51.6	48.2	45.8	43.6	41.6	43.1	43.4	43.4	43.3	41.7	41.4			
56.8	51	51.5	47.9	46.1	44.9	42.3	44.8	43.6	43.1	43.1	42.6	42.3			
56.7	51.1	52.9	48	45.9	45	42.9	44.4	42.4	43.4	43.4	41.3	41.5			
59.6	52.1	54	48	46.2	44.6	42	42.8	41.7	42.2	42.9	40.6	40			
56.6	51.3	54.5	47.6	46.3	44.9	41.9	42.1	41.5	42	42.7	39.7	39.5			
55.7	52.1	53.2	48.3	46.3	44.8	43	42.1	41.9	43.2	42.6	39.7	40.3			
55.4	52.2	53.1	48.7	47	45	44	42.4	43.6	45.3	43.7	41.3	40.9			
55.3	52.9	52.8	48.5	46.5	45.1	44.5	43.3	45.5	46.1	44	41.6	41.3			
54.9	53.2	52.7	49.7	47.7	45.9	45.3	45.1	46	46.2	46.5	42.5	43.2			
55	52.7	52.2	49.7	48.1	46.1	45.9	46	45.6	47.8	46.1	44.7	46.6			
54.2	55.4	52.6	51	48.3	46.9	46.2	45.8	45.4	46.9	44.7	44.4	45.6			
53.6	54.2	56.3	50.5	49.5	45.6	46.5	45.9	45.2	46.2	44	43.9	44.3			
55.8	52.6	57.3	50.6	51.4	45.6	46.6	46.4	45.4	46.4	44.4	44.4	44.3			
68.4	51.4	55	53.6	52.4	47.3	45.7	47.1	47.3	46.8	44.7	44.3	44.3			
67.9	54.4	53.2	52.8	52.2	46.5	45.2	46.7	45.7	45.1	44.7	44.9	44.2			
64.5	68.3	53.3	51.3	50.4	45.6	44.7	45.2	44.2	43.2	44	43.1	42.5			
66.6	65	53.5	52.6	48.8	44.9	44.6	44.6	43.5	42.4	43.5	41.5	41.3			
72.1	61.2	53.2	51.7	47.5	45	44.4	43.6	41.9	41.3	42.4	40.7	40.6			
68.6	57.7	53.8	50.6	47.4	45.3	44.3	43.3	40.9	40.2	42.2	38.7	39.6			
66.4	56.4	55.3	50	47.2	44.6	44.1	42.7	40.8	39.9	42.2	39	39.5			
63.7	56.8	59.8	50.7	47.1	45.1	43	42	41	39.8	42.7	39.2	39.2			
60	58.3	59.1	50.4	46.9	45.9	43.4	42.1	41.9	40.1	42.8	39.2	39.2			
57.9	57.7	57.1	50.7	46.8	45.6	43	42.3	41.4	39.8	42.3	40.7	40.1			
57.2	55.5	55.4	50.9	46.8	45.6	43.2	42.5	41.2	39.5	42.5	40.3	40.5			
56.7	54	55.2	50.3	48.2	46.2	43.1	42.4	41	40.3	42.4	40.5	41.6			
54.9	53.4	55.6	49.3	48.8	46.6	42.7	42.3	41.7	40.7	42.3	39.5	40.9			
54.1	54	56.2	49.6	48.2	46.8	43.2	42.1	40.8	40	42.1	39.8	40.9			
53.4	54.9	55.9	51	48.4	46.6	43.8	41.4	40.6	40	41.8	39.6	40.4			
56.6	54	54.3	51.3	48	47	45.2	41.5	40.5	40.4	41.9	39.9	40.6			
57.7	53.9	54.2	52.9	49.3	46.8	49.7	41.9	41.2	40.7	44.2	41.6	41.8			
57.9	55.5	55.2	55.1	55.1	52.8	53.6	44.9	44.3	41.4	45.3	42.9	43.2			
57.3	54.3	55.8	54.9	56.7	53.9	53	44.8	45.4	44.4	46.3	43.7	44.8			
57.6	54.8	55.7	55.5	56.6	54.5	52	47.2	49.1	48.7	47.6	45.2	45.6			
58.2	56.3	58	53.8	56.9	52.5	51	47.6	49.7	49.3	47.2	46.5	46.8			
64.9	56.1	58	54.2	56.7	51.6	49.7	47.4	49.5	48.6	47	46.4	47.1			
61.9	57.5	57.3	53.4	53.4	50.9	48.4	46.9	48	46.9	46	46.3	45.9			
62.1	56.4	57.1	52.4	51.5	50.1	47.2	45.8	46	45.4	44.4	45.2	45.1			
60.1	55.3	55.8	51.4	49.8	49.7	46.3	45.1	44.2	43.8	43.6	43.2	43.3			
58.1	54.1	54.7	51.4	49.8	50.6	47.4	44.4	43.3	42.4	42.6	42	42.1			
56.4	53.8	54	52.4	50.1	50.9	46.5	43.6	41.9	41.6	42.5	41.3	41.3			
55.6	54.2	53.4	52.6	49.7	50.7	46.1	42.9	41.6	40.8	42.4	40.3	39.7			
54.8	54.3	52.5	53.6	49.9	52.6	46.2	43.7	42.2	40.9	42.4	40.2	39.7			
53.4	56.7	52.5	53.9	51	51.9	47.2	44.7	45.3	41.2	43	40.6	40.3			
54.2	54.9	57.2	53.2	51.1	50.6	47.3	45	45	42.4	44	41.3	40.5			
53.7	53.2	58.6	52.7	52.4	49.3	47.9	46.8	44.9	43.4	45.2	42	43			
53.5	53.2	58.5	52.5	52.3	50.2	48.4	47.3	46	47	47.2	45	47			
55.7	57.9	57.9	53.4	51.7	50.1	48.2	49.8	47.5	47.4	47.2	46.8	48.5			
55.8	56.7	57.8	53.7	53.7	51.5	50.2	50.7	48.1	48	47.3	47.2	48.5			
56.6	58.3	57.8	55.4	53.6	51.3	49.8	49.9	47	47.7	47.5	47.3	48.5			
56.1	58.4	57	54.5	53.5	51.9	50	49.8	45.9	47.3	47.2	46.6	48			
60.3	58.3	57.3	55	53.9	51.3	50.7	50.6	46.9	47.6	47.5	46.7	47.8			
59	64.5	57.6	55.7	54.5	51	51.2	50	47.4	48.7	47.8	47.1	47.9			
56.7	62.3	58.7	55	53.4	52.1	50.8	49.9	47.9	49.7	47.4	48.1	46.9			
56	60	56.8	54.4	52.9	51.9	49.9	49.1	48.3	48.4	46.5	46.3	46			
55.9	59.6	56.5	54.8	53.7	53.5	49.8	49.3	49	48.6	48.3	46.7	47			
55.8	59.6	64.5	54.5	53	55.9	50.9	50.5	52.5	50.3	48.6	47.9	48.4			
57.1	57.7	61.8	57.3	52.6	54.4	51.4	50.8	52.8	48.8	47.9	46.7	47			
58.2	57.2	59	56.7	54.1	54	51.2	50.9	52.1	48.4	47.8	46.6	46.2			
60	58.5	58.4	56.2	54.4	54	51.4	50.5	52.5	49	49.3	46.8	46.3			
60.9	60.7	60.7	57.2	56.5	57.2	54	51.6	52.5	51.7	50.8	49.2	49.2			
59.2	59.3	63.4	58.5	58.5	58.7	55.3	53.1	54.3	52	51	50.5	50.2			
58.5	58.6	61	63.9	57.2	66.5	56.3	53.7	54.2	51.4	49.9	49.8	48.1			
60.5	57.1	60.3	62.8	57.2	64.9	57.2	52.5	52.8	50.2	49.1	47.9	46.2			
60.2	57.3	62.6	63	58.1	63.1	55.3	51.6	51.1	50.5	49.1	46.8	44.9			
65.1	59.3	61.2	59.8	56.5	59.7	53.7	50.6	49.4	49.8	47.5	45.4	44			
64.2	63.7	59.9	57.4	56	56.6	52.9	50.6	48.3	47.2	46.3	43.7	42.9			
64.2	63.7	57.9	56.8	55.9	54	53.4	50.1	47.6	46.5	45.1	42.4	42.3			
63.7	62.6	56.8	54.9	55.4	52.5	54.1	49.6	47.7	47.1	46	42.2	42.4			
60.8	62.6	56.1	53.8	55.1	52	54	50.5	48.6	48.8	47	43.4	44			
57.4	60.7	55.5	53.3	55.3	51.3	55.5	50.5	49.7	48.4	46.8	45.7	45.5			
55.9	58.8	55.2	53.3	55.3	51.1	53.4	50.3	49.4	48.2	46.5	46.5	46.6			
54.7	56.1	53.9	53.8	55.3	50.4	51.9	49.8	49.3	48.8	48.3	46.6	47			
54.6	55.1	53.7	53.3	55.7	52	51.7	51.2	51.5	49.6	50.5	47.6	49.3			
55.6	55.4	56.8	59.6	60.1	54.9	56.7	56.3	54	52.8	52.5	52.1	53.5			
57.3	55.9	61.6	59.1	58.6	54.7	54.5	53.9	50.8	49.7	49.8	49.1	50.4			
57.5	54.3	59.7	56.7	56.7	53.3	53.1	52.5	48.8	2/15/1900	9:36:00 PM	47.0	47.6			

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
34.6	33.1	33.2	31.4	28.8	27.4	25.4	23.2	22.2	21.3	21.7	22.6
34.5	32.9	35.6	31.5	28.9	27.5	25.8	24.3	22.7	21.4	21.7	22.5
34.6	33.6	36.7	32.1	29.3	28.2	26.6	25.1	23.3	21.7	21.7	22.6
35.1	34.5	36.7	33.4	33.5	29.6	27.6	25.2	23.7	21.7	21.7	22.5
35.8	34.5	35.3	33.4	32	28.9	27	25.2	23.8	21.6	21.7	22.5
38.1	35.5	33.9	32.5	31.7	28.4	26.5	25.1	23.7	21.5	21.7	22.5
38.2	35.5	33.7	31.9	30.4	27.3	25.9	24.5	23.6	21.7	21.7	22.5
37.8	36.6	33.5	31.8	29.9	26.9	25.1	23.8	22.6	21.4	21.8	22.5
37	37.2	33.5	32.5	29.3	26.8	25.1	23.9	22.7	21.4	21.8	22.5
35.4	34.8	32.5	31.3	29.1	26.9	25.6	24.8	23.1	21.7	22	22.7
34.7	33.3	31.3	30.4	30.2	27.8	25.2	24.1	22.7	21.8	22	22.7
34.5	32.8	31	30	28.8	26.8	24.4	23.1	22	21.7	21.9	22.7
34.8	33.6	32.6	30.6	28.6	26.8	24.7	23.3	22.2	21.9	22.1	22.9
34.5	33.2	32	30.3	27.8	26.3	24.5	22.8	21.9	21.8	22	22.9
34.6	33.2	32	30.4	28.1	26.3	24.4	22.7	21.9	21.9	22.1	23
36.8	36.4	32.7	32.5	29.2	27.5	25.3	24.2	22.5	22.1	22.3	23.1
37.3	35.5	33.2	33.1	30.4	28.7	26.4	25.6	23.7	22.6	22.6	23.6
38.2	35.7	34.2	34.4	31.9	28.8	26.4	25.5	23.6	22.4	22.4	24.3
38.8	37.1	35.7	34.6	32.4	29.2	27	25.6	23.6	22.5	22.4	23.7
37.6	36.6	35.3	34	32.9	30.1	27	25.5	23.8	23.2	23.7	24.3
37.7	36.7	35.5	33.8	32.9	30.2	27.8	26.6	26.1	26.4	25.8	24.9
38.4	37.1	37	36	34.1	31.8	30.9	29.8	29.6	28.2	27	25.5
40.3	40.5	40.5	39.4	36.7	35.4	33.8	33.4	32	31.3	29.3	28.4
42.8	41.1	40.1	37.6	36	35.5	33.2	32.9	31.9	30.8	29.2	28.2
41.1	39.4	38.3	36	34.6	33.7	32.1	32	30.4	28.9	30.2	27.6
40.1	39	37.3	34.9	34.2	33.4	32.1	32.3	31.8	30	29.4	30.3
39.8	38.9	37	34.8	33.8	33.3	32.6	32.5	30.1	27.4	26.8	27.3
40.5	39.3	37.8	35.9	35.6	35.1	32.7	32.2	29.9	27.1	26.2	25.9
41.7	41.8	39.6	38	37.6	36.7	33.7	31.5	29.4	26.3	25.9	24.6
42.8	41.3	39.4	37.9	37.8	36.5	33.7	31.4	29.4	26.4	25.9	24.4
43.9	41.6	39.6	38.2	37.8	37.1	34.2	32.2	30.2	27.5	26	24.8
45.3	43	40.8	39.4	39	38	35.8	32.8	30.5	27.6	25.8	24.4
45.9	43.5	41.5	40.4	39.6	38.5	36.2	33.6	31.4	27.9	25.8	24.2
45	43.6	41.8	39.9	39	38.3	36.2	34.5	32.2	28.5	26	24.3
44.9	43.2	41.6	39.9	38.8	38.2	36.4	34.8	32.3	28.3	26.1	24.3
45.5	42.9	40.8	39.8	38.6	38.3	37.2	35.4	32.6	28.7	26.8	24.9
45.9	43.3	41.2	39.9	39.6	38.8	37.1	35.1	32	28.1	26.2	24.4
43.6	41	39.4	37.9	37.5	35.9	33.9	32.1	29.3	26	24.3	23.4
42	39.7	38.2	36.2	36	34.8	31.6	30	27.4	24.4	23.2	23
40.8	38.4	37.4	35.4	35.2	33.7	29.3	27.5	25.2	23	22.4	22.7
39.8	37.3	36.3	34.8	33.8	32	27.1	25.3	23.4	21.9	22	22.6
39.5	36.7	35.8	34.2	32.9	30.4	26.7	24.8	22.9	21.7	21.9	22.6
39.1	36.8	36	34	33.1	30	26.9	24.9	23.1	21.7	21.9	22.7
39.1	37	36.3	35.1	34	30.3	26.9	24.7	23.2	22	22.2	22.8
38.8	37.6	36.2	34.4	34.1	30.3	26.9	25.1	23.6	22.2	22.3	22.8
38.9	37.9	36.2	34.2	33.9	30.6	27	25.4	24.2	22.6	22.4	23.1
39.2	39.1	37.5	34.5	37.6	32.1	26.8	25.3	24	22.4	22.2	22.8
38.9	37.8	36.7	35	35.2	30.8	27.4	25.3	23.7	22.2	21.9	22.7
39.3	37.5	36.5	34.8	34	30.3	27.1	24.9	23.1	21.7	21.8	22.6
39.8	37.1	36.6	35.3	33	30.2	27.5	24.8	23.1	21.8	21.8	22.5
39.7	37.1	36.8	35.2	33	30	27.4	24.9	23.1	22	22.1	22.5
40.5	37.8	37.7	36.4	33.9	30.5	28.5	26.1	24.3	22.7	22.3	22.6
42	39.3	38.4	37.2	35.8	32.5	30.4	28.4	26.5	24.5	23.1	22.9
43.1	40.2	39.4	38.4	37.5	33.8	31.8	29.7	27.6	25.7	23.8	23.1
44.5	42.2	40.4	39.3	38.6	35.6	32.5	30.5	28.3	26.3	24.4	23.2
46.3	44	42.3	39.8	39.4	36.6	32.8	31.2	28.5	25.9	23.8	23
47.1	45.9	42.9	40.3	39.3	35.6	32.8	30.3	27.3	24.7	23.1	22.9
45.3	44.1	42.2	39.4	37.4	34.2	31.5	28.4	25.6	23.3	22.5	22.6
44.1	42.8	41.1	37.8	35.8	33.8	29.7	26.5	24	22.2	22.1	22.6
42.8	40.9	40.1	36.8	34.4	32.1	28.6	25.3	23	21.8	22	22.6
41.8	40.2	39.6	36.6	34	31.4	28.2	24.7	22.7	21.6	21.8	22.6
41.2	39	38.9	36.5	33	30.3	27.1	24.4	22.4	21.6	21.8	22.7
39.9	38.4	37.9	35.4	32.9	30.2	26.9	24.4	22.4	21.6	21.8	22.6
39.3	38.5	37.6	35.3	32.9	30.4	27	24.6	22.5	21.7	21.8	22.7
39.8	39.1	37.6	36.7	33.7	31.3	28.5	26.3	23.7	23	22.4	22.9
41.8	40.2	39.2	37.3	35.4	33.2	30.5	27.9	25.5	24.4	23.5	23.2
45.2	43.2	41.2	39	36.6	34.4	31.9	29.8	26.6	25.3	24	23.3
48.3	45.6	43.2	40.3	38	35.9	33	30.7	27.7	26.7	24.7	23.6
49.3	46.3	44	40.8	38.2	36.8	33.2	31.1	28.4	26.9	24.8	23.8
48	45.1	43.8	40.8	39	37.3	34.3	32.4	29.6	27.9	25.8	24.7
46.9	45.2	43.7	41.2	39.5	38.2	36.3	33.7	31.2	29.7	27	25.8
45.9	43.9	42.8	41.3	39.9	38.2	36.6	33.9	31.4	29.7	27	25.5
45.7	43.7	42.6	41	39.4	38.3	36.7	34	31.5	29.7	27	25.2
47.1	44.5	43.2	41.6	40.2	38.7	37	34.6	32.2	29.7	27.6	25.2
48.1	46.1	44.7	42.8	41.1	39.2	37.3	35.5	33.8	30.4	28.3	25.4
47.2	45.5	44.5	42.5	40.8	39.2	37.2	35.6	33.8	30.5	28.3	25.4
47.8	47.7	46.6	46.8	46.2	46	45.2	43.6	42	39.7	36.5	33.2
49.3	48.2	48.3	47.7	46.4	47.8	45.6	44.5	42.9	40.2	36.7	32.7
47.8	46.2	46	45.2	43.5	44.6	42.9	41.9	39.8	36.9	33.7	29.9
47.3	45.1	45.6	44.6	42.7	43.1	41	39.9	37.7	34.6	31.3	27.8
47.4	45.2	45.8	45.3	42.9	43	41.1	39.9	37.6	34.5	31.1	27.7
50.3	48	48	47.6	45.8	45.1	43.1	41.8	39.9	37	33.1	29.1
50.8	47.2	46.8	46.5	44.4	43.4	42	39.9	38.1	35.8	32.7	30.4
49	45.5	44.6	43.7	41.7	41	39.3	37.1	35.2	33.1	30.2	28.5
47.3	44	43	42.4	40	39.5	38.1	35.6	33.6	31.3	28.6	26.8
46.4	42.9	42.7	42.1	39.7	39	37.6	35.7	33.5	30.9	27.7	26
45.3	42.2	41.9	41.1	38.8	38.2	36.6	35.4	33	29.6	26.8	24.9
43.3	40.8	40.2	39.3	36.9	36	34.5	32.9	30.4	27.4	25.2	23.9
42.3	39.6	38.6	37.4	35.5	34.3	32.9	30.7	28.2	26	24.4	23.5
42.2	39.6	38.4	36.9	35.3	34.2	32.9	30.1	27.3	25.8	24.2	23.4
43.1	41	39.4	37.2	36	34.3	32.8	29.4	26.4	25.4	23.9	23.3
45.6	43.8	42.4	38.4	36.3	34.4	32.9	29.4	26.4	25.2	23.9	23.2
47.7	46	44.9	41.4	38.9	36	33.4	30	27.5	25.3	23.6	23.1
47.7	46.5	45	42.1	39	36.2	33.5	30.3	28.2	25.5	23.6	23.2
49.6	47.5	47.5	43.5	40	38.6	35.5	31.4	31.3	28.6	25	24.1
54.7	51.4	48.5	44.6	42	40.5	37.6	33.7	32.9	30	26.4	25.2
51.7	48.8	45.6	41.8	39.2	37.7	34.8	31.5	30.2	27.4	24.8	23.9
48.9	46	42.9	39	36.7	35.2	32.4	29.8	28.1	25.9	23.9	23.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.5	24.4	0.2	No	No	
23.5	24.4	1.7	No	No	
23.4	24.4	1.9	No	No	
23.4	24.4	1.4	No	No	
23.4	24.4	3.2	No	No	
23.4	24.4	0.5	No	No	
23.4	24.4	1.8	No	No	
23.5	24.5	0.6	No	No	
23.5	24.5	4.6	No	No	
23.5	24.5	1.3	No	No	
23.5	24.5	0.3	No	No	
23.5	24.5	0.3	No	No	
23.5	24.6	1.9	No	No	
23.5	24.5	0.1	No	No	
23.6	24.5	3	No	No	
23.6	24.4	1.9	No	No	
24	24.5	4.7	No	No	
24.3	24.5	2.2	No	No	
24.6	24.9	0.3	No	No	
24.8	25	0.5	No	No	
25	25	1.2	No	No	
24.7	25	3.7	No	No	
25.5	25.3	3.4	No	No	
33.9	25.5	2.5	No	No	
31	27.8	0.2	No	No	
30.8	26.5	5.8	No	No	
27.8	25.4	1.2	No	No	
25.9	24.9	1.5	No	No	
24.7	24.7	0.3	No	No	
24.5	24.6	0.5	No	No	
24.1	24.5	0.6	No	No	
23.9	24.4	0.2	No	No	
23.8	24.5	0.3	No	No	
23.8	24.5	-0.1	No	No	
23.8	24.5	2.4	No	No	
23.8	24.5	0.4	No	No	
23.8	24.5	2.2	No	No	
23.7	24.5	0.9	No	No	
23.5	24.5	1.5	No	No	
23.5	24.4	1.1	No	No	
23.5	24.5	1.4	No	No	
23.5	24.4	0.1	No	No	
23.5	24.5	1.7	No	No	
23.5	24.4	1	No	No	
23.6	24.5	0.7	No	No	
23.6	24.4	0	No	No	
23.5	24.4	1.6	No	No	
23.5	24.5	0.1	No	No	
23.5	24.5	0.8	No	No	
23.4	24.5	1.8	No	No	
23.5	24.4	-0.3	No	No	
23.5	24.4	1	No	No	
23.6	24.4	0.5	No	No	
23.6	24.4	0	No	No	
23.6	24.4	0.3	No	No	
23.6	24.5	0.5	No	No	
23.6	24.5	1.8	No	No	
23.5	24.4	0.6	No	No	
23.5	24.4	1.8	No	No	
23.5	24.4	0.6	No	No	
23.4	24.5	1.3	No	No	
23.5	24.4	1.1	No	No	
23.4	24.4	0.2	No	No	
23.5	24.4	0.3	No	No	
23.5	24.5	0.3	No	No	
23.6	24.5	0.1	No	No	
23.6	24.5	-0.3	No	No	
23.7	24.5	0.5	No	No	
23.7	24.5	1.5	No	No	
24.3	24.6	-0.1	No	No	
25.1	24.8	0.5	No	No	
24.8	24.7	0.3	No	No	
24.5	24.6	0	No	No	
24.4	24.6	0.5	No	No	
24.4	24.6	1.1	No	No	
24.5	24.6	-0.1	No	No	
29.2	25.7	2.1	No	No	
29.1	25.7	1.7	No	No	
27	25.1	1.8	No	No	
25.5	24.7	0.5	No	No	
25.3	24.7	-0.1	No	No	
26	24.9	0.6	No	No	
26.8	25.2	1.5	No	No	
25.4	24.9	2.8	No	No	
24.7	24.6	0.5	No	No	
24.2	24.5	1	No	No	
24	24.5	0.6	No	No	
23.8	24.5	1.5	No	No	
23.6	24.5	1	No	No	
23.5	24.5	0.3	No	No	
23.6	24.4	1.4	No	No	
23.6	24.4	0.6	No	No	
23.7	24.5	0	No	No	
23.7	24.5	-0.3	No	No	
24.1	24.5	1	No	No	
24.8	24.6	5.2	No	No	
24.1	24.5	4	No	No	
23.8	24.4	1.7	No	No	

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
293		11/19/2021	12:59:54 PM	53.2	64.8	55.8	54.4	90.2	11.6	52.8	61.2	63.1	58.8	60	55.7	50.3	48.6	41.5
294		11/19/2021	12:59:55 PM	52.4	63.2	54.4	53.2	90.4	12.6	55.1	54.2	62.5	59.1	59.7	54.7	48.7	47.5	41
295		11/19/2021	12:59:56 PM	51.5	62.7	53.2	52.2	90.7	12.9	53.2	56.3	62.5	60.9	60.8	52.5	48.6	45.8	40
296		11/19/2021	12:59:57 PM	49.3	61.4	52.2	50.6	90.6	14.3	47.1	58.4	60.4	59.8	59.2	50.0	45.4	44.1	38.7
297		11/19/2021	12:59:58 PM	48.1	59.7	50.6	49.2	90.6	17.4	50.8	59.2	60.6	59.5	58.6	49.0	44.5	41.4	37.2
298		11/19/2021	12:59:59 PM	48.6	59.7	49.2	48.7	90.6	15.8	49.6	58.2	66.7	58.9	58.6	51.7	44.5	41.5	37.1
299		11/19/2021	1:00:00 PM	49.2	60.6	49.2	48.8	90.6	15.6	51.0	59.2	63.5	60.5	57	52.5	44.6	42.9	39.1
300		11/19/2021	1:00:01 PM	49.1	61.4	49.3	49.0	90.6	17.7	47.6	55.9	65.1	59.8	58.9	52.6	44.4	41.5	37.5
301		11/19/2021	1:00:02 PM	47.9	60.6	49.0	48.3	90.7	19.1	51.0	57.9	68.8	60.4	57.1	51.2	44	41.1	36.6
302		11/19/2021	1:00:03 PM	48.2	59.7	48.4	48.1	90.6	19.3	48.7	56.3	69.2	59.8	58.3	50.1	44.6	41.1	36.7
303		11/19/2021	1:00:04 PM	48.7	62.7	48.6	48.3	90.6	17	46.7	55.4	69.7	59.4	59.4	51.6	43.9	41.3	38.1
304		11/19/2021	1:00:05 PM	48.8	62.1	48.7	48.5	90.7	14.7	46.1	57.4	65.1	59.3	58.8	50.4	45	42.4	39
305		11/19/2021	1:00:06 PM	50.7	63.6	50.2	48.8	90.9	12.9	50.1	57	61	59.9	56.3	51.9	45.9	43.7	41.1
306		11/19/2021	1:00:07 PM	51.4	63.2	51.0	50.3	90.7	13.1	47.6	58.7	62.4	61.2	59.2	52.8	47.4	44.6	42
307		11/19/2021	1:00:08 PM	51.2	64.1	51.3	51.0	90.8	13.7	48.5	54.7	60.2	59.8	58.2	51.9	47.9	45.2	42.3
308		11/19/2021	1:00:09 PM	51.5	62.7	51.5	51.0	90.9	15.5	49.8	57	63.7	61.5	58.7	52.4	47.3	46.2	43
309		11/19/2021	1:00:10 PM	54.0	67.1	53.4	51.4	91.0	15.2	48.6	59.6	67.8	62.8	60.4	52.0	49.5	48	46.6
310		11/19/2021	1:00:11 PM	55.5	67.4	54.9	53.4	90.9	15.6	52.1	63.2	68.6	64.7	60	52.0	50.6	49.2	48.7
311		11/19/2021	1:00:12 PM	55.6	66.7	55.3	54.9	90.9	20.5	53.7	62	72.3	68.5	61.6	52.3	49.3	48.3	48.8
312		11/19/2021	1:00:13 PM	54.5	66.7	55.2	54.8	90.6	23.6	60.0	58	79.4	66	61.4	51.3	48	47.9	47.1
313		11/19/2021	1:00:14 PM	55.5	69.2	55.2	54.8	90.9	22.7	53.1	58.7	82.3	67.1	60.5	51.8	50.7	50.3	47.2
314		11/19/2021	1:00:15 PM	56.1	68.6	55.9	55.1	90.9	19.8	52.5	60.5	82.1	65.3	61.1	52.8	51.7	51.9	47.6
315		11/19/2021	1:00:16 PM	56.9	69.2	56.6	55.9	90.9	12	56.1	59.1	77.6	66.5	63.7	52.9	52.9	51.7	49.9
316		11/19/2021	1:00:17 PM	56.5	69.3	56.6	56.4	91.0	12.1	51.3	58.5	67.6	60.6	62.1	54.2	53.2	52.2	48.6
317		11/19/2021	1:00:18 PM	56.1	68.7	56.6	56.2	91.0	10.4	52.5	55.3	69.8	62.7	59.1	52.9	52.1	51.5	49
318		11/19/2021	1:00:19 PM	56.0	67.6	56.2	56.0	91.0	9.5	50.6	56.7	62.7	61.2	56.1	52.9	52.2	51.3	49.2
319		11/19/2021	1:00:20 PM	57.0	68.7	56.8	56.1	91.0	8.5	50.4	58	63.1	63.4	56.2	54.4	52.8	52.7	49.7
320		11/19/2021	1:00:21 PM	58.0	69.2	57.6	56.8	91.0	8.1	50.3	58	63	61.7	56	54.4	53.1	54.9	50.4
321		11/19/2021	1:00:22 PM	58.3	74.6	58.2	57.5	91.0	7.5	51.8	58	64.1	61.2	56.4	56.6	54.3	55.1	49.6
322		11/19/2021	1:00:23 PM	58.7	70.1	58.6	58.1	91.1	7.2	47.5	61.8	63.8	60.3	56.2	55.2	53.9	56.1	50.5
323		11/19/2021	1:00:24 PM	54.2	66.2	58.5	56.2	90.9	9.4	51.7	58.1	63.8	59.7	54.5	51.4	50	51.4	45.4
324		11/19/2021	1:00:25 PM	51.2	64.8	56.2	53.7	91.0	12.7	52.0	58.2	61.6	60.2	53.3	50.0	47.9	47.4	43.1
325		11/19/2021	1:00:26 PM	50.4	62.1	53.7	52.0	91.0	12.7	50.4	57.2	62.1	59.3	53.9	49.3	45.8	44.9	40.4
326		11/19/2021	1:00:27 PM	49.8	61.4	52.0	50.8	91.0	13.4	47.6	59.3	60.4	59.7	54.6	49.3	46.9	45.2	40.8
327		11/19/2021	1:00:28 PM	50.5	62.1	50.8	50.5	91.1	14.5	51.5	56.8	63.1	61.6	53.7	49.2	47.4	45.7	42.5
328		11/19/2021	1:00:29 PM	51.5	69.4	51.2	50.7	91.0	16.5	50.8	59.4	66.5	63.5	55.5	49.1	49.4	46.2	42.5
329		11/19/2021	1:00:30 PM	52.8	69.2	52.2	51.3	91.3	13	58.3	57.4	65.8	66.5	55.4	51.5	50	47.5	44.8
330		11/19/2021	1:00:31 PM	52.3	64.4	52.3	52.1	91.0	14.1	51.5	58.3	65.4	61.6	55	50.5	49.9	47.9	43.9
331		11/19/2021	1:00:32 PM	53.5	66.4	53.2	52.3	91.1	13.7	50.7	55.4	65.3	65.7	55.6	50.8	52.6	47.8	43.9
332		11/19/2021	1:00:33 PM	53.6	67.3	53.6	53.2	91.0	15.9	48.9	54.7	64.5	63.3	56.1	51.5	52.6	48.5	44.4
333		11/19/2021	1:00:34 PM	58.6	71.7	57.5	53.3	91.3	10.9	50.2	61.3	70.3	60.9	56	50.7	50.9	49.1	45.2
334		11/19/2021	1:00:35 PM	59.1	71.7	58.8	57.4	91.4	11.9	54.4	56.8	71.5	61.6	58	53.4	52.6	51	46.9
335		11/19/2021	1:00:36 PM	57.9	70.6	58.3	58.1	91.1	11.7	50.9	66	72.2	63.3	59.9	56.1	54.8	53.2	50.1
336		11/19/2021	1:00:37 PM	59.3	70.9	58.9	58.1	91.3	13.1	50.7	63.1	72.2	68.4	59.3	56.6	55.5	55.9	50.3
337		11/19/2021	1:00:38 PM	58.1	70.6	59.0	58.4	91.3	12.6	56.2	58.6	68.8	71.1	59.1	54.1	53.5	54.6	49.3
338		11/19/2021	1:00:39 PM	60.4	72.5	59.8	58.4	91.5	9	52.2	57.7	65.5	68.3	61.3	57.3	56.8	56.3	52.3
339		11/19/2021	1:00:40 PM	57.6	70.9	59.8	58.3	91.4	11.3	49.1	57.8	64.5	65	59.3	55.4	55.1	53.2	49.9
340		11/19/2021	1:00:41 PM	54.5	65.7	58.3	56.4	91.5	18.9	55.0	61.1	65.5	71.6	58.1	54.9	51.2	49.9	45.2
341		11/19/2021	1:00:42 PM	53.5	65.9	56.3	54.8	91.4	20.1	53.5	61	69.3	69.9	57.1	53.1	49.6	49.3	45
342		11/19/2021	1:00:43 PM	53.2	65.1	54.8	53.8	91.4	15.3	51.9	59.6	75.2	63.1	56.2	52.5	49	49.2	44.8
343		11/19/2021	1:00:44 PM	52.2	68.3	53.8	52.9	91.5	19.1	52.2	58.8	68.2	66.1	56	51.5	48.6	47.5	43.3
344		11/19/2021	1:00:45 PM	52.3	64.4	52.8	52.4	91.1	17.9	54.4	58.6	70.4	70.9	55.8	52.0	48.3	47.9	43
345		11/19/2021	1:00:46 PM	55.7	67.3	55.0	52.6	91.6	12.3	53.2	58.7	63.8	68.5	56.4	53.6	50.7	53.2	45.4
346		11/19/2021	1:00:47 PM	57.7	71.0	56.8	55.0	91.4	10.3	48.6	60.2	65.8	63.4	57	53.0	52.1	56.3	46.3
347		11/19/2021	1:00:48 PM	54.7	67.3	56.7	55.6	91.5	11.3	50.0	58.7	68.2	62.9	56.1	54.1	50.2	52	45.1
348		11/19/2021	1:00:49 PM	55.1	67.6	55.7	55.3	91.5	9.6	48.6	57.7	65	60.4	56.7	54.7	51.9	51.5	45.6
349		11/19/2021	1:00:50 PM	54.6	66.7	55.3	54.8	91.6	11.6	47.9	56.7	62.6	60.9	56.4	54.8	51.4	51.2	45.1
350		11/19/2021	1:00:51 PM	53.7	65.9	54.8	54.1	91.5	11.8	52.8	60.2	63.8	63.9	54.9	53.7	51	49.7	44.4
351		11/19/2021	1:00:52 PM	53.9	66.2	54.2	53.9	91.9	12.7	47.9	58.3	65.5	62.3	58.2	53.7	51.4	49.7	44.5
352		11/19/2021	1:00:53 PM	54.5	65.1	54.4	54.0	91.5	11.7	50.5	58.9	66.3	60.9	59.4	56.5	51.5	49.5	45
353		11/19/2021	1:00:54 PM	54.3	66.9	54.5	54.2	91.5	11.3	50.6	59	64.7	61.4	59.2	55.5	51.6	49.2	45.3
354		11/19/2021	1:00:55 PM	53.7	67.1	54.2	53.9	91.5	11.8	48.8	58.4	64.1	61.3	56.5	52.9	50.7	49.4	44.9
355		11/19/2021	1:00:56 PM	53.7	65.7	53.9	53.7	91.7	11.3	51.4	57.3	65.5	62.6	57.2	52.2	50.7	49.2	44.8
356		11/19/2021	1:00:57 PM	55.6	68.4	55.1	53.8	91.6	8.8	51.0	54.9	63.1	58.8	56.7	54.4	52.5	50.6	47.5
357		11/19/2021	1:00:58 PM	55.0	68.0	55.5	54.9	91.9	8.7	53.0	58.2	63.1	59.8	55.4	54.1	51.7	50.7	46.5
358		11/19/2021	1:00:59 PM	54.0	65.7	54.9	54.3	91.7	9.8	49.8	56.4	62.6	59.6	54.9	52.1	50.4	50.4	45.7
359		11/19/2021	1:01:00 PM	51.5	63.2	54.3	52.7	91.7	11.5	52.0	57.2	60.9	58.6	54.6	51.8	47.7	47.7	42.5
360		11/19/2021	1:01:01 PM	51.0	63.6	52.7	51.7	91.6	13.5	50.3	56	62.2	58.5	56.2	51.4	47.5	46.3	42.1
361		11/19/2021	1:01:02 PM	49.3	63.2	51.7	50.2	91.9	14.6	50.8	60.5	63.2	59.8	55.2	49.7	46.3	43.7	41.5
362		11/19/2021	1:01:03 PM	48.8	60.6	50.2	49.4	92.0	14.7	51.7	60	63.2	59.5	54.8	50.0	46	43.3	39.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
34.9	28.6	28.3	54.2	61.8	65.2	62.6	60.5	56.8	52.2	52.4	45	37.7
33.9	28.2	28.3	54.8	60.9	63.8	60.7	60.4	56.2	51.1	50.4	43.2	36.2
33.5	28.5	28.3	55.1	58	64	60.7	60.9	55.1	49.8	48.7	41.9	35
33	27.6	28.3	53.1	58.6	62.5	60.5	60.4	53.7	49.2	47.1	40.9	34.1
32.4	27.4	28.3	51.3	59.1	61.5	60.2	59.7	51.6	47.1	45.4	39.6	33.5
32	26.7	28.3	51	58.8	65.7	60.5	59.4	51.4	45.7	43.3	38.2	32.8
34.3	27.4	28.4	51.1	59.4	65.4	60.3	58.7	52.2	45.1	42.9	38.8	33.8
33.1	27.3	28.3	51	59.1	65.4	61.1	58.6	52.7	44.8	42.9	38.9	33.8
31.6	26.9	28.4	50.8	58	68.1	60.4	58.9	52.3	44.5	41.8	37.9	33.3
31.4	26.7	28.3	51.1	57.8	68.9	60.5	58.1	51.7	44.6	41.5	37.3	32.3
32.3	26.8	28.3	49.9	56.8	69.5	60.1	59	51.4	44.7	41.5	37.7	32.2
34.4	28.9	28.8	48	57.4	69.3	59.8	59	51.4	44.9	42.1	38.7	34
41.9	38.5	33.8	49.4	57.6	66.8	60.3	58.9	51.7	45.6	43.3	40.5	41
39.8	41.1	31.6	49.4	58.7	64.3	61.2	58.7	52.7	46.9	44.2	41.6	40.8
38.5	32.6	29.3	49	58	63.1	61.2	58.8	52.3	47.7	44.9	42.2	40.2
37.7	30.2	28.7	49.6	57.1	63.3	61.3	58.8	52.5	47.5	45.9	42.7	39.1
43.4	36.9	32.1	49.2	59.4	66.6	62.3	59.8	52.5	49	47.6	45.8	42.7
46.2	39.6	34.4	51.4	62.8	68.1	64.1	60	52.3	50.1	48.7	47.8	45.3
47.5	41.7	35.8	53.4	63.5	71.1	67.3	61.2	52.6	50.2	48.7	48.5	46.7
45.3	38	31.8	59.3	61.8	78.2	67.3	61.6	52.1	49.5	48.3	48.3	46.7
44.8	36.6	30.1	59.3	60.1	81.2	67.1	61.2	52.2	50.1	49.7	47.7	45.9
45	37.5	30.6	56.2	60.7	81.8	66.9	61.1	52.5	51.3	51.3	47.7	45.2
46.9	40.4	32.4	56	59.8	81.8	66.8	63.3	52.9	52.5	51.8	49.2	46.3
44.5	38.2	31.1	55.8	60.3	79.1	66	63.7	53.8	53.1	52.1	49	46.2
44	36.2	30.2	53.6	58.7	75.4	63.6	62.4	53.6	53.1	52.2	49	45.2
44.5	36.3	29.8	53.4	57.1	72.8	62.9	60.6	53.4	52.5	51.6	49.2	44.6
45.6	36.8	29.8	51.5	58	69.2	63.1	58.3	54.1	52.7	52.4	49.5	45.2
45.8	36.9	29.9	51.8	58.3	66.3	62.6	57.1	54.4	53.1	54.1	50.1	45.6
44.4	36	29.3	51.3	58.8	64.8	62.3	56.6	56.3	54	54.9	50.1	45.5
45	35.7	28.9	51.2	60.9	64.5	61.5	57.2	56.3	54.3	55.8	50.5	45.2
37.2	29.9	28.5	51	60.1	64.6	61	56.1	55.4	53.8	55.7	50.1	44.7
35	28	28.5	52.1	59.5	63.9	60.4	55.1	53.3	51.8	53.4	47.7	41.5
34.3	45.7	33.3	52	58.2	62.6	60.2	54.4	51.5	49.7	50.6	45.3	38.6
34.8	35.1	35.6	51.3	58.9	62.9	60	54.5	50.3	47.7	47.9	42.9	36.5
36.5	30.2	28.5	51.3	58.9	62.9	61.2	54.5	49.5	47.4	46.5	42.3	36.4
38.2	30.5	28.6	52	59.6	65.6	62.9	55.1	49.6	49	46.2	42.6	37.4
39.9	32.6	28.8	57.3	59.4	66.5	66.1	55.6	51	49.6	47	44.3	39.2
39.4	31.8	28.5	57.1	58.9	65.7	64.9	55.4	51.2	50	47.6	43.9	39.4
39.2	31.1	28.5	54.2	58.1	66.1	65	55.6	50.9	52.1	47.9	43.9	39.3
40	32.7	29	52.3	56.2	65.3	64.9	56.1	51.3	53	48.2	44.3	39.7
40.7	59.2	35	50.7	60.9	69.3	63.8	56.2	51.2	52.1	48.9	45	40.4
42.3	58.8	34.6	54.2	59.2	71.1	62.4	57.6	52.8	52.3	50.4	46.5	41.9
45.9	39.5	31.6	53.1	65.8	72.6	63	59.3	55.2	54.2	52.5	49	44.9
47	40	32.2	51.8	66.4	72.3	67.5	59.4	56.2	55.5	55	50	46.6
46.5	39.5	31.4	55.7	63.8	72.3	70.1	59.4	56.1	54.7	55.5	49.8	46.7
48.8	41.9	31.9	55	61.2	70.1	70.1	60.8	57	56	55.8	51.6	48.2
45.4	38.9	30.4	54	59.2	67.7	69.1	60.8	56.8	56.6	55.9	51.8	48.2
39.5	33	28.9	54.4	60.6	66.1	70.8	59.8	55.8	55	54.1	50.2	46.3
39.4	34.3	28.9	54.6	61.6	69.1	71.6	58.9	55.4	52.9	52	47.8	43.4
40.2	33.7	28.9	53.4	60.6	74	69.6	57.8	54	51.3	50.6	46.3	41.4
38.6	31.8	28.7	52.8	60.7	73.7	66.9	56.8	53.1	49.9	49.6	45.4	40.6
37.6	31.3	28.4	54.9	59.7	72.2	69.8	56.7	52.4	49.1	48.4	44.1	39.3
39.8	31.5	28.6	53.9	59.9	70.3	69.8	56.3	53.1	50.1	52.3	45	39.4
39.6	31.6	28.5	53	60.4	67.2	68.9	56.9	53.2	51.5	55.1	45.9	39.5
38.5	31.2	28.4	50.8	59.4	68.2	66.3	57	53.9	51.4	55	45.9	39.5
40.4	32	28.6	51	59.2	67.7	64.6	56.9	54.5	51.5	53.4	45.6	40
39.2	31.6	28.6	49.4	58.6	66	62.4	56.8	54.9	51.7	52.4	45.6	40
38.5	31.4	28.5	51.8	59.7	64.8	63.3	56.7	54.7	51.4	51.5	45.2	39.4
38.7	31.1	28.6	52.1	59.1	65.6	63	57.6	54.2	51.6	50.4	44.7	38.9
40.1	31.8	28.6	50.4	59.1	66.2	62.5	59	55.7	51.7	49.9	45	39.7
40.2	31.5	28.5	50.6	59.4	66.1	62	59.6	56.3	51.8	49.8	45.2	40
40.7	32	28.4	50.9	59.4	65.6	61.7	58.9	55.3	51.6	49.5	45.2	40.5
41.4	32	28.5	51	58.9	65.3	62.7	57.6	54	51.1	49.5	45	41.2
42.8	33.4	28.7	51.4	58	65	62.2	57.6	54.3	52.1	50.3	46.8	42.4
42	33.9	28.6	53	58	64.1	60.6	57.1	55	52.4	50.6	47	42.7
39.8	35.5	28.4	53.3	58	63.7	60	56	53.8	51.6	50.6	46.5	41.9
34.8	28.4	28.4	52.4	57.4	63.3	60	55.4	52.9	50.8	50.4	46	40.5
34.3	28.3	28.3	52	57.2	62.5	59.3	56	52	49.1	48.8	44	37.8
35	27.1	28.4	51.8	59.7	63.6	59.5	56.1	51.8	48.2	47.4	43.4	36.7
32.4	26.9	28.3	52.1	60.2	63.9	59.7	55.4	50.5	46.9	45.3	41.8	35.1

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
31	28.6	53.1	60.8	63.8	60.5	59.8	56	51	50.4	43.2	36.2	29.7
29.7	28.5	52.1	58	62.7	59.5	59.6	55.1	49.8	48.8	41.9	35	28.8
28.9	28.4	53.1	57	62.6	59.5	60.1	53.6	48.6	47.1	40.5	34.1	28.5
29	28.3	50.5	57.2	61.3	59.8	59.7	51.7	47.1	45.4	39.6	33.5	28
28.2	28.4	50.4	57.8	60.5	59.1	58.9	50.2	45.7	43.3	38.2	32.8	27.6
27.6	28.4	49.7	57.2	61	59	58.5	50.2	45	42.1	37.2	32.2	27.1
27.4	28.4	49.1	58.3	64.4	58.5	57.7	51.5	44.6	42.2	37.7	32.4	27.1
27.4	28.4	49.1	57.3	63	59.7	57.5	52	44.5	41.8	37.9	33.3	27.3
27.3	28.4	49.3	57.3	65.5	59.2	57.5	51.6	44.1	41.3	37.1	32.3	27
27	28.4	49.5	56.8	67.9	59.6	57.4	50.8	44.1	41.1	36.8	31.7	26.8
26.9	28.3	48	55.6	68.7	59.4	58.2	50.7	44.1	41.2	36.8	31.7	26.8
28.7	28.8	46.8	55.5	66.8	59.1	58.5	50.7	44.1	41.2	37.7	32.2	26.8
37.4	33.3	46.4	56.8	64.2	59.3	57.4	50.6	44.5	42	38.8	34.1	28.7
40.2	32.9	48	56.8	63.1	58.9	57.4	51.6	45.7	43.3	40.5	40.2	37.2
39.9	32.1	47.8	56	61.5	60	58.1	51.8	46.9	44.2	41.5	39.1	36.8
36.8	30.5	47.4	55.8	61.4	60.3	58.4	51.8	47	44.7	41.8	38.4	33.9
36.6	31.8	48.4	56.6	63.1	61.2	58.5	52.1	47.4	45.8	42.6	38.4	33.6
39	33.9	49	57.9	66.5	62.3	59.3	51.9	49	47.6	45.8	42.7	36.6
40.8	35.3	50.2	61.9	68.1	64.1	60	52.1	49.5	48.3	47.9	45.3	39
40.6	34.8	53.3	59.8	71.1	66.3	61.1	51.5	48.7	47.8	47.6	45.8	39.1
39.1	33.1	56.3	59	78.3	66.3	60.7	51.5	48.8	48.3	47.3	45	37.6
37.8	31.4	54.4	58.6	81.2	65.8	60.6	51.6	49.9	49.7	47	44.7	37
39.6	31.9	53.4	58.5	79.2	65.6	60.5	52.2	51.2	51.3	47.7	45.3	37.8
39.5	31.9	53.6	58.8	75.4	63.5	62.4	52.7	52.4	51.2	48.8	45.2	38.6
38.6	31.3	52.6	56.9	72.8	62.9	60.6	53.2	52.4	51.6	48.7	44.5	37.2
37.2	30.6	51.5	56.4	69.2	61.8	58.3	53	52.1	51.2	48.9	44.4	36.6
36.9	30.1	50.1	56.8	66.4	62.1	56.9	53.1	52.1	51.5	49.2	44.6	36.7
36.9	30	50.4	57.3	64.4	61.9	56.4	53.9	52.5	52.4	49.5	45.2	36.7
36.9	29.9	50.5	57.6	63	61.5	56	54.2	52.9	54	49.7	44.8	36.3
36.3	29.5	49.2	57.5	63.8	60.5	56	55.5	53.8	54.9	49.8	44.7	35.8
35.8	29.1	49.1	58.9	63.6	60.1	55.1	53.3	51.8	53.4	47.8	41.6	33
33	28.7	50.2	58.2	62.2	59.9	54	51.5	49.7	50.6	45.4	38.6	30.6
45.1	33	51.1	56.9	61.7	59.6	53.8	50.2	47.7	47.9	42.9	36.5	29.6
45.2	36	49.1	57.6	61	59.3	53.7	49.5	47.2	46.5	41.8	35.6	41.3
41.3	33.8	48.5	57.3	61	59.9	53.7	49.3	47	45.9	41.6	35.4	37.6
37.6	31.3	50.1	58	62.4	60.9	54	48.9	47.3	46.1	42.3	36.3	34.5
34.7	29.9	49.7	57.6	65.4	62.9	54.7	49.3	48.9	46.1	42.4	37.4	33.3
33.3	29.2	54.2	57.7	64.8	63.2	54.8	50.5	49.2	47	43.7	38.8	32.3
32.3	28.8	52.3	56.2	65	63.2	54.8	50.4	49.9	47.6	43.6	38.9	31.6
32.4	28.8	50.4	55.3	64.8	63.8	55.2	50.7	52.1	47.6	43.9	39.2	31.6
57.6	33.8	49.6	55.2	64.7	62.3	55.5	50.8	51.4	48.2	44.2	39.7	32.4
59.1	34.8	50.7	57.9	69	61.7	55.9	50.9	51.4	48.9	45	40.4	57.3
57.8	34	51.7	57.5	70.9	61.6	57.6	52.8	52.3	50.4	46.5	42	53.7
53.7	32.9	50.2	63.8	70.7	62.6	58.9	55.2	54.2	52.5	49.1	44.9	49.8
49.7	32.3	51.9	61.2	70.1	67.5	59	55	53.8	54.6	49.3	45.6	46.2
46.2	32	52.5	59.2	67.7	69	59	55	54.1	54.6	49.7	46.7	44.1
44	31.9	51.3	57.8	66.1	67	59.8	55.8	55	54.1	50.3	46.3	41.3
41.3	30.9	51.3	58	65.1	67	58.7	55.3	53	52	47.9	43.4	38.1
38	29.7	53.5	60.4	65.3	69.7	57.9	54	51	50.6	46.3	41.4	36.1
36.1	29.2	52.4	58.7	69.2	66.8	56.8	53.1	49.9	49.6	45.3	40.6	34.7
34.7	29.1	51	59.2	71.2	65.9	56.3	52.1	49.1	48.4	44.1	39.3	33.1
33.1	28.8	52.9	58.6	70.3	67	55.9	52	48.5	47.9	43.4	38.3	32
32.1	28.6	52.5	58.3	67.2	68.9	55.8	52.1	48.6	48.3	43.5	38.4	31.7
31.9	28.6	50.8	57.8	65.6	66.3	55.9	52.9	50.1	52.3	45	39.3	31.5
32	28.5	49.9	58.2	66.8	64.6	56.3	52.9	50.6	53.3	45.3	38.7	31.2
31.9	28.6	49	57.9	66	62.4	56	53.6	50.9	52.2	45.4	39.1	31.4
31.9	28.6	48.1	57.6	64.2	61.4	56.2	54.5	51.3	51.5	45.2	39.4	31.5
31.9	28.6	48.4	57.6	63.4	61.7	55.5	54	51	50.4	44.7	38.8	31.3
31.6	28.6	49.5	58	63.4	62.5	55.5	53.8	50.8	49.9	44.4	38.5	31.1
31.7	28.6	49.5	58.3	65.6	61.4	57.3	53.9	51.5	49.6	44.6	38.9	31.5
31.6	28.7	50	57.7	64.9	61.2	58.5	55.3	51.3	49.4	45	39.7	31.5
31.9	28.6	49.2	58.5	64.2	60.6	57.5	54	51	49.2	45	40	31.5
32	28.5	49.3	57.9	64	61.6	56.7	52.8	50.8	49.2	44.7	40.4	31.7
33	28.7	50.3	56.2	63.9	60.4	57	52.7	50.8	49.2	45	41.2	32
33.6	28.7	50.6	55.9	63.1	59.9	56	53.8	51.6	50.2	46.5	41.9	33
35.3	28.6	50.9	57	62.3	59.3	55.3	52.7	50.8	50.4	46	40.5	33.6
34.6	28.5	49.8	56.4	61.9	58.9	54.9	52	49.2	48.8	44	37.8	31.8
31.8	28.4	50.6	55.9	61.2	58.4	54.6	51.5	48.1	47.4	42.8	36.1	29.9
29.9	28.4	50.6	56.7	62.3	58.3	55.4	50.5	47	45.3	41.9	35.1	28.4
28.3	28.4	50.6	59	62.6	58.9	54.9	50.2	46.3	44.1	40.7	33.6	27.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.5	43.3	45.1	51.1	53.2	54.8	57.8	59.8	60.3	55.5	56.7	52.8	56.5	54.6	56.2
28.4	47.5	50	49.9	53.5	55.6	53.6	59.3	54.8	56.8	51.3	54.1	57.5	53.4	57.4
28.3	50.5	47.5	51.9	53	47.7	53.2	59.1	58.9	57.4	57	53	54.6	55.9	58.8
28	42.2	51.3	45.8	47.9	50.7	55.1	55.4	56.7	54.9	54.4	54.2	56.2	54	55.1
28.3	47.5	49	46.8	49.2	53.8	55.2	54.6	57.1	54.8	56.6	52.9	55.6	54	55
28.3	46.1	38.2	47.1	50.2	55.7	51.2	60.1	61.7	57.2	55	52.4	54.7	55.7	55.7
28.3	42.9	42.9	42.3	50.5	54.2	56.8	62.6	60.2	57.2	54.4	54.4	57.1	53.1	53.6
28.3	45.2	47.2	48.5	49	56.1	52.1	57.7	58	55.4	56.7	55.8	56.4	53.1	55.2
28.3	37.9	45.4	45.5	51.4	52	54.8	67.2	55.2	54.3	57.1	53.4	55	53.2	53.8
28.3	42	42.3	48.8	48.9	52.8	53.5	69.4	53.6	55.8	57.1	54.9	54.7	53.3	53.2
28.3	43.5	46	44.7	47.1	54.5	46.6	69.8	53.5	52.4	54.5	54.6	55	55.5	54.9
28.3	40.4	41.5	41.5	46.9	52.8	53.9	67.8	55.8	56	55.7	53.9	53	54.2	55.3
28.9	44.4	43.3	44.9	43.4	51	57.1	55.7	54.4	55.5	54.3	54.9	55.7	51.7	52.7
32.1	35.6	39.6	46.2	44.4	51.5	56.1	57.3	58.2	54.8	56.8	55.5	53.9	55.1	53.8
30.5	38.6	41.4	45.2	49.4	52.7	52.2	54.5	54.8	56.2	58.6	55.7	56.5	55.2	54
29.5	45.6	46.6	44.2	51.1	51.3	52.8	58.3	57.2	60.7	54.9	54.7	57.9	55.5	54.4
29.4	36.6	40.8	42.1	41.7	52	52.9	56.9	54.6	66.1	58.1	55.5	56.7	56.2	56.5
31.8	41.3	47	46.6	53.3	52	58.8	58	60.7	67.2	55.1	59	61.1	57.6	54.8
33.9	42.5	45.2	48.1	50.9	56.8	62.2	62	70.5	58.8	60.8	66.4	58.3	57.6	57.9
33.1	40	48.9	52.1	50.4	57.1	55.1	64	76.7	56.7	60.5	62.4	62	57.6	54.7
31.4	37	48.6	54.3	53.9	54.3	56.5	80.9	71	54.9	59.1	56.3	66.2	58.5	54.9
30.9	44.1	52.5	44.2	50	52.2	54.1	81.7	59	59.9	58.4	55.8	64.1	58.9	55.5
31	55.8	49.4	49.2	56.5	56.1	49.6	80.9	71.9	60.6	57.6	59.9	63.6	61.8	54
31.3	52.1	42.5	55.8	52	56.1	58	62.7	59.7	61.2	56.5	55.5	56	61.3	57.4
30.6	51.2	39.7	48.6	51.5	51.7	54.7	67.8	59.8	61.5	58.8	59.7	54.8	53.1	57.8
30.1	42.9	46.1	46.3	48	47	54.4	65.1	63	57.4	59.9	55.7	54.8	51	52.7
29.9	38.5	48.6	40.9	46.8	50.7	54.6	58.1	60.2	55.9	59.6	58.1	57.6	48.6	51.8
29.9	46.7	47.7	48.5	46.7	54.6	54	56.4	58.7	60.4	54.8	54.2	60.2	51.2	51.8
29.5	46.3	40.5	45.9	47.8	55.2	55	55.2	57	57.3	56.7	56.8	56.2	51.9	50.5
29.1	46.5	45.5	47.1	45.4	55.2	58.6	59.9	60.8	58.7	55.9	53.1	55.3	53.1	50.2
28.7	37.1	50.2	46.7	48	57.3	57.6	57.4	59.9	60.1	54.3	55.5	57	51	51.4
28.6	41.2	41.5	50.7	48.2	51.8	56.2	58.8	58.7	53.3	54.2	56.6	54	50.2	48.6
28.5	39.4	41.6	48.8	50.1	51.5	52.8	56.6	58.5	59.1	55.4	56.3	53.7	49.1	50.6
33.1	40.2	46	47.6	43.9	52.1	57.6	54.6	59.2	56	55.6	55.9	52.9	51.1	49.6
31.3	45	46.6	42.8	44.5	54.2	52	53.7	58.3	58.6	53.1	57.5	55.6	48.9	48.4
29.8	44.4	42.2	44.4	45.8	54.8	56.9	57.9	54.7	62.9	58.3	52.4	56.6	50.5	50.9
29.2	41.8	46.9	43.4	49.9	56.1	52	54.7	58.2	65.8	65.4	56	56.6	51.2	48.6
28.8	48	48.7	50.2	45.6	54.9	56.7	57.8	59.1	59.3	54.6	58.4	56.3	50.7	48.7
28.6	45.9	53.7	43.4	49.1	54	51.8	58.9	61.7	63	63.9	56.5	55.3	51.8	50.9
28.6	55.3	47.8	46.1	48.4	53.1	49.7	58.5	60.7	63.1	62.6	55.1	54.7	53	51.2
28.8	50.2	46.7	44.9	47.3	48.6	59	62	61.4	69.1	56.3	54.5	53.7	52.3	49.7
33.6	44.6	44.3	50	49.5	56.3	53	64.9	66.9	67	57.5	56.4	54.5	54.7	52.8
32.7	43.6	43.5	50.2	47.2	53.3	53.7	62.8	70.1	66.9	59.1	58.3	57.9	52.1	58.3
32.3	43.2	49.7	38.8	51.5	54.6	65.1	66	65.1	66.7	64	57.7	58	55.1	55.6
31.6	44.6	49.4	47.7	51	62.9	54.2	65.2	61.7	69.4	70.1	60.4	58.7	53.9	55.1
31.9	45	44.9	51.4	47.2	55.6	57.5	64.9	56.7	58.9	62.5	67.8	57.3	57.4	56.5
30.9	43.5	53.2	48.5	48.4	48.6	54.4	59.7	59.2	58.1	59.1	62.3	62.8	55	52.7
29.7	49	47.4	47.1	44.8	51.8	56.5	62.2	60.7	60.4	69.1	61.7	57.2	52.3	53
29.2	47.1	43.8	50.7	50.8	55.5	60	64.7	60.2	66.2	71.7	59.3	56.8	52.7	53.9
29	47.3	47.1	49	51	56.6	55.7	64.8	68.8	73.2	54.1	60.7	53.2	50.7	52
28.8	52.6	44.6	45.9	47.4	51.7	57.3	59.2	68.9	66.4	57.1	62.4	54.5	51.2	50.8
28.6	47.8	46.9	49.9	56.2	54.3	56.4	57.3	62.5	69.2	70.3	60.8	53.2	51.2	49.2
28.6	49.8	46	47.6	51	51.2	57.8	60.7	60.7	58.4	68.7	59.3	56.1	53.1	51.3
28.5	45.4	52.4	50.1	48.8	50.7	56.2	58.9	59.7	56.8	63.6	57.7	55.3	52.6	51.3
28.5	46.8	46.2	45.4	53.2	56	55.2	60.4	66.6	59.4	60.4	58.2	53.1	52.2	50.1
28.5	47.9	42.7	48.1	50.6	52.8	53.6	64.9	60.2	57.5	56.2	58.1	51.7	49.8	52.9
28.6	44	41.9	44.1	52.2	53.6	54.6	59.3	54.1	57.3	58.4	55.3	53	51.6	51.7
28.5	45	42.5	44.9	46.2	53.9	59.1	60.9	59.1	56.9	63.9	55.1	53.6	50.6	51.1
28.5	43.8	40.4	50.3	46.4	52.5	53.4	59.4	56.1	57.3	61.6	53	53.3	53.7	53.1
28.5	40.1	43.8	46.4	48.5	54.3	56.4	62.5	63.9	54.9	59.5	55.6	50.8	55.2	57.3
28.5	46.4	43.8	48.6	49.9	54.8	53.8	61.8	61.8	58.3	59.4	53.2	51.5	56.2	54.7
28.5	42.6	44.2	47.1	51.2	53	56.3	58.9	59.1	60.1	54.8	54.9	56.2	52.9	50.2
28.5	43.2	43	43	52.5	53.8	56.3	57.9	55.5	63	56.9	55.6	57.3	53.8	49.9
28.5	44.4	42.9	46.6	46.2	53.7	53.3	58	54.8	61.2	56.6	52.8	55.6	53	51.6
28.6	42.5	43.9	46.2	44.6	51.8	54.1	59.2	56.9	57.7	57.7	52.1	53.5	50.8	48.5
28.5	47	43.4	47	45.6	53.5	54.3	56.2	57.4	57.2	55.7	54.4	52.2	51.3	50.7
28.4	48.8	43.5	41.7	41.2	55.4	53.2	56.7	57.1	57.7	55.8	53.8	53.5	52.9	49.7
28.3	51.1	45.5	45.7	45.9	54.1	50.4	55.1	56	58.2	54	52.8	53.2	52.1	50.9
28.3	48	45	46.6	45.5	51.7	56.6	56.5	61.9	57.9	54.9	51.6	57	51.5	50.6
28.3	49.1	47.6	45.7	53.7	56.7	56.6	55.9	61.1	59	56.6	53.5	52.6	50.3	49.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
53.1	52.1	53.4	46.5	44.4	44.1	45.8	44.1	45.2	41	38.1	37.1	34.1	32.4	29.2	27.8
53.2	50.1	51.4	45.4	44.5	43.7	45	42.3	44.2	41	37.6	36.9	32.9	31.2	28.4	26.8
53.5	47.7	49.6	44.2	43.2	44.8	43.3	40.7	42.1	40.3	37.3	34.2	32	30.5	28.1	26.7
51	45.8	47.4	40.9	40	42.2	39.8	39.1	40.6	38.7	35.7	33.2	32.1	30.7	27.5	25.7
50.2	44.6	45.4	39.8	39.9	40	37.9	36.2	37.2	36.3	34.2	31.5	31.2	29.9	26.3	25.1
51.8	46.7	48.8	40.7	41.1	40.6	36.5	36.9	37.2	36.1	33.9	31.6	31	29.4	26.2	24.5
50.2	49.5	50.1	40.1	39.7	40.7	37.6	37.5	38.2	38	35.9	33.3	34.5	31.7	28.6	26.5
53.6	49.2	49.9	40.9	40.2	41	37.6	38.1	37.1	35.3	34.2	31.9	31.3	29.8	28.2	26
51.5	46.9	47.7	40.6	39.6	40.5	36.9	37	36.6	35.4	33.5	31.3	30.5	28.6	26.3	24.3
51.4	47.3	45.9	40.3	38.4	41.8	37.2	37.5	36.8	35.1	33.6	31.5	30.1	28.5	25.8	24.7
52.5	48.3	46.1	41.4	39.1	40.5	36.7	37.3	36.8	35.6	35	32.8	31	30	26.6	24.6
51.9	47.9	46.4	41.6	40.1	41.6	37.6	38.4	37.5	36.2	35.7	33.6	33.2	31.4	29.1	26.8
51.6	48.7	46.9	43.6	40.3	42.3	39.4	39.5	39.3	38.2	37.1	35.6	35.6	34.8	35.7	39.2
53.1	49.3	48	45.2	42.3	43.5	41.3	40.3	40.5	38.7	38.4	36.4	36.6	35.2	35.1	34.8
51.6	49.7	44.6	44.7	42.7	44.8	42.7	41.1	40.9	39.2	38.7	37.4	36.7	35.2	33.3	31.9
51.8	49.7	45.9	44.7	42.9	43.5	41.5	41.5	41.9	40.5	39.5	38	36.7	35.2	31.9	29.7
52.5	49.4	45.7	45.6	45.4	45.3	42.8	43.4	44.2	42.4	42.4	42.1	41.1	40.5	37.8	36.8
51.7	48.5	46.5	45.6	46.5	45.9	44.8	44.6	45.1	43.6	42.8	44.8	44.2	43	40.9	39.7
54.7	50	46	45.5	45.3	46.1	42.7	43.1	43.7	43.9	43.9	44.3	44.2	43.9	42.6	41.5
54.5	48.3	45.4	43.9	43.3	43.7	42.1	42.9	43.7	43.2	42.8	42.3	42.2	42	40.2	38.9
51.8	48.7	45.9	46.1	43.4	47	46.3	44.7	46.2	45.7	43.2	42.1	42.4	41.8	39.4	37.8
51.9	50.7	46	45.6	46	48.3	46.5	46.8	48.4	45.6	43.5	42.5	42.3	42	39.8	38.6
50.5	50.8	45.9	47.1	48.4	49.3	45.5	47	46.7	46.7	45.9	44.7	44.7	43.6	41.9	41
50.1	51.3	49.1	46.7	48.5	49.1	48.1	47.2	47.9	46.3	45.3	43	42.8	41.2	39.2	38.3
50.1	48.9	48.1	48.2	47.8	46.7	47	46.4	47.7	46.2	45.8	43.5	43.3	41.2	39	36.4
50.5	48.6	48.8	48	48.1	46.6	46.5	47.2	47	45.5	45.8	44.2	43	41.9	39.1	36.3
51.2	50	49.8	48.5	48.6	47.3	48	48.8	49	46	46.3	44.6	44.1	43.2	40.3	36.7
50.6	48.4	52	48.5	48.8	49.4	47.7	51	51.1	47.3	46.8	44.8	44.9	43.1	40.7	37.6
51.2	47.6	53.7	51.8	48.8	48.8	49.7	50.8	51.6	48.3	46.3	44.7	43.7	41.5	39.6	36.3
49.7	48.2	53	50.4	48.7	48.5	49.2	51.5	52.3	49.9	47.1	44.9	44.1	42.2	39.7	36.5
47.6	45.4	47.8	46.8	45.3	45.4	45.2	46.2	47.6	46.1	43.2	39.2	36.8	34.7	31.8	29.5
45	43.8	46.3	45.1	43.3	43.1	42.8	42.1	42.9	42.4	40.6	37.5	34.1	32.4	29.2	27.5
46.8	44	46.3	43.4	41	42.4	39.6	40.3	39.9	40.2	37.6	35.5	32.8	31.5	29.1	27.1
46.7	45	45.6	41.6	42.1	43.7	40.3	40.2	41	39.9	37.8	35.5	33.6	31.7	29.9	27.2
45.5	44.7	44.2	44.1	43.4	43.4	41.2	41.1	41.4	40.5	39.4	37.2	36.1	34	30.5	28.8
48	45	44.4	43.5	44.9	44.9	43.7	40.5	42.3	40.9	39.1	37.3	36.4	35.1	33.2	30.8
50.8	47.3	46.4	45.6	45.3	46.8	44	42.7	43.6	41.4	41.1	39.6	39.3	36.9	35.2	32.4
49.2	46.4	44.9	46.5	46	45.3	44	42.8	44.1	42.1	40.1	38.4	38.5	36.6	34.3	31.7
47.2	46.7	46.3	43.7	44.7	50.7	43.6	43	44.2	42.5	40.6	38.2	37.8	36.6	33.9	30.9
48.3	47.3	46.8	44.4	47.2	50.2	45.5	43.6	43.5	43.5	40.9	38.9	38.2	36.7	35.4	32.6
48.4	46.1	45.1	44.5	46.3	47.3	44.6	44.1	44.5	44.2	41.9	39.6	38.7	37.2	35.7	34.4
51	48.5	48.8	48.3	47.4	48.1	47.6	46.6	47.2	44.8	43.8	41.5	40.2	39.4	37.4	35.7
50.2	51.8	52.3	49.6	51.3	50.2	48.3	48.3	48.9	47.9	46.4	45.4	43.2	42.3	41.2	39
53.2	52.9	52.3	49.9	51.5	52.1	48.7	48.7	51.7	51.9	45.8	44.9	45.3	43.8	42.3	39.9
53.9	49.5	48.9	48.8	49.6	49.5	47.8	48.9	50.8	49.7	45.2	44.4	43.5	43	42	39.8
55.3	54.4	51.4	51.2	51.7	52.9	51.3	52.7	51.7	49.7	47.5	47.6	47.6	45.4	43.8	41.9
54.9	50.5	50.6	50.6	50.6	52.4	47.7	48.9	49.1	47.7	45.3	45	44.9	42.7	40.4	37.8
53.3	50.6	50.6	49.1	46.5	46.7	45.6	44.7	45.6	43.7	42.3	40	38.3	36.6	34.1	32.2
50.3	49.9	47.9	46.7	44.9	44.3	43.9	44.6	44.8	43.2	42.4	39.7	38	36.2	34.4	32.4
50.2	49.5	47.2	45.6	44.4	44.9	44.2	45.5	44.5	43.3	41.9	39.9	37.5	37	35.5	33.2
49.1	49.4	45.7	43.5	43.7	44.6	43.4	43.3	42.6	41.5	40.3	38.1	36.7	35.5	33.9	31.3
52.6	48.5	46.8	44.9	42.7	44.7	42.7	44.7	43.2	41.1	39.7	38	36.7	34.6	32.4	29.6
49.4	51.4	47.5	45.5	45.1	45.8	45.5	48.3	50.2	46.4	42.5	39.3	38.5	38	33.6	31.2
53.7	49.8	49.3	45.7	45.2	48.9	47.2	52.7	52.7	47.1	43.3	40.8	39.1	36.8	34.4	31.7
50.8	51.7	47.4	45.5	45.3	46.4	44.7	48.8	47.6	44.8	41.7	40.3	37.8	35.5	33.7	30.3
51.5	52.5	48.8	46.8	47.5	47.3	45.7	47.5	47.7	44.9	41.9	40.6	39.3	36.8	36.4	31.8
50.7	51.4	50.9	46.4	47	47.4	45.1	46.8	47.6	44.4	41.4	40.4	38.2	35.9	35.2	30.7
50.1	50.7	49.3	44.8	46	47	46	44.8	45.8	44.2	41.5	39.2	37.8	35.3	34.1	30.1
50.8	50.1	49.7	46.6	45.6	48.2	45.4	45.3	45.6	43.3	41.4	39.1	38	35.9	33.9	30.5
49.8	53	52.6	46.8	47	47.2	46.3	44.4	45.6	43.5	41.4	40.4	39.1	37.1	35.5	31.5
50.9	53.7	51.4	46.4	45.5	47.9	46.9	44.9	44.6	43.2	41.8	40.1	39.5	37.2	35.3	32
50.9	49	48.2	46.6	45.5	47.1	44.5	45.9	44.5	43.2	40.9	40.1	39.6	38.4	35.4	31.9
51.4	48.8	48	45.5	44.6	46.9	46.4	44.8	44.6	43.8	40.4	39.3	39.9	39.3	35.7	32.4
52.1	49.8	49.3	49.8	46.6	47.3	49.3	47.3	45.6	44.1	44.2	42.3	41	40.4	38	34
51.6	48.6	48.4	51.2	45.6	46.3	48.4	47.8	45.4	45.1	43.2	41.6	40	39.2	37.3	32.7
48.3	47.8	47.2	47.6	44.4	46.6	45.7	45.1	46.5	45.3	42.5	40	39.1	37.2	34.3	31.2
47	46.7	48.3	45.1	43	44	42.6	42.5	43.8	42.2	40.2	36.8	34.1	31.8	30	27.1
50.6	45.8	48.5	44	42	43.3	42.5	41.7	41.5	41.5	39.2	36.2	36.1	32.2	28	25.4
50.1	45.1	47.1	42.7	42.5	42	40.8	39.7	39.2	38.5	37.3	35.8	36.8	34	26.9	24.9
46.8	45	46.6	42.1	41.7	42.7	39.5	39	38.9	36.9	36.7	35	33.3	29.8	27	23.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
25.2	23.5	22.7	22.7	23.5	24.5	44.1	48.7	50.5	55.7	55.7	60.4	62.8
24.6	23.3	22.3	22.8	23.5	24.5	47.4	49.2	50.8	54.2	55.3	59.2	61.6
24.2	24.1	22.4	22.7	23.7	24.4	50.3	49.6	51.7	54.9	55.2	56.4	60.2
24	22.6	22	22.6	23.4	24.5	48.8	50.9	51.3	52.9	52.1	56	59.6
23.2	22.3	22.1	22.8	23.5	24.5	47.1	51	48.5	50.4	53.2	55.5	57.2
22.5	21.6	21.9	22.5	23.5	24.5	47.6	49.5	48.3	50.4	55.1	55.7	59.5
23.3	22.4	22	22.8	23.6	24.5	46	45.8	47.1	51.3	55.1	55.8	61.9
23.4	22.1	22.1	22.5	23.5	24.4	45.2	46.9	48.2	50.2	56	55.6	61.4
22.4	21.8	21.9	22.8	23.5	24.5	44.9	46.6	47	51.3	56	54.8	65.8
22.2	21.5	21.9	22.6	23.4	24.4	42.3	46.2	48.6	50.7	53.8	55	68.4
22.7	21.7	21.9	22.5	23.4	24.5	43.4	45.8	47.8	49.3	54.2	53.9	69.5
24.8	23.8	23.7	24.1	23.7	24.4	43.4	45.8	46.2	48.1	54.3	53.4	69.5
34.2	33.5	32.8	32.1	26.8	25.1	44.1	43.8	45.2	47.2	53.7	56.1	68.3
35.8	37.6	35.4	28.5	25.6	24.9	43.9	43.6	46.3	45.3	52.8	56.6	64.4
29.4	27.1	25.9	24.7	24.2	24.6	40.5	41.7	45.9	48.1	53.1	56.6	61.4
26.9	24.9	23.8	23.5	23.7	24.5	44.5	45.6	46.6	50.6	53.1	54.4	58.6
34.1	31.3	29.4	27.7	27.9	26.5	44.5	45.5	44.4	49.7	52.6	54	58.5
36.5	34.5	32.4	30.3	30.1	28.2	41.5	46.5	45.7	52.2	52.9	57.4	58.7
38.6	36.9	33.6	31.5	31.5	29.8	42.3	47.1	47.8	52.2	56.5	61.4	61.4
35.1	32.9	30	27.8	26.8	26.2	42.4	47.9	51.1	51.6	58.4	60.7	64.2
33.9	31.1	28.4	25.9	25	25	40.8	48.8	53.7	54.6	56.2	57.9	79.4
34.8	32.2	29.7	27.1	25.1	24.8	43.1	51.7	53.1	52.2	55.2	57.3	80.9
37.7	35.1	32.7	29.8	26.6	25.2	54.8	52.2	49.6	55.8	55.4	55.6	81.6
35.4	32.9	30.5	27.7	25.5	24.9	55.4	49.8	54.7	55.9	56.1	56.9	80.5
33.5	31	28.4	26.5	24.9	24.7	52.8	46.7	53.7	53.8	56.2	56.6	76.4
33.5	31	28.7	26	24.3	24.6	51.6	45.7	51.1	52.3	53.6	55.5	73.1
34.2	31.6	28.7	26.2	24.2	24.5	48.2	48.1	48.7	49.9	51	55.1	69.7
34.7	31.1	28.1	26.3	24.3	24.5	46.7	48.4	48	48.6	53.8	55.1	66
33.8	29.9	26.9	25	24	24.6	47.1	47.6	48	48.1	54.9	54.8	62.4
33.8	29.5	26.1	24.1	23.7	24.4	46.7	45.9	47.3	47.4	56.3	58.2	61
26.9	24.9	22.5	22.8	23.7	24.5	46.2	49	47.3	47.9	57.1	57.9	59.4
24.4	22.8	22.5	22.9	23.6	24.5	42.7	49	49.9	48.5	56.3	57.8	59.8
25.1	24.6	45.7	27	30.3	24.7	42.5	45.6	49.6	49.7	54	57	58
25.5	23.9	34.2	28	34	24.5	40.7	45.9	49.4	49.5	53.2	57.3	57.2
26.4	25.8	23.4	22.9	23.7	24.6	44.2	46.8	47.7	47.1	53.9	56.6	55.8
27.1	25.4	24.4	23.3	23.7	24.6	44.7	46	45.7	46.3	55.4	56.7	57.1
29.6	27.7	24.8	23.8	23.7	24.5	44.9	46.5	44.8	49.4	55.7	56.3	57
29.4	26.3	23.4	23.2	23.6	24.6	47	48.8	48.8	49.2	56.5	56.3	57.2
28	26.2	23.7	23.3	23.8	24.5	47.5	53.1	48.2	49	54.7	55.8	58.4
29.7	27.6	25.3	24.1	24.2	24.5	54.1	53.4	46.5	48.7	54.2	53.7	59
31.4	29.7	59.2	24.7	25.3	26.9	54.3	50.1	46.2	48.3	53.7	58.5	61.5
33.3	30.5	58.8	25.4	24.7	25.5	51.7	48.4	49.3	49.6	55.7	57.9	64.3
37.1	34	31.3	27.9	26.5	25.5	48.6	46.5	50.9	48.8	54.8	55.5	64.3
37.4	34.5	31.9	28.9	27.1	25.7	46.5	49.1	49.3	50.9	55.1	64.1	65.4
36.9	34.3	31.3	27.9	26.3	25.1	45.2	49.4	47.3	51.6	61.6	62.8	65.3
39.8	36.3	31.7	28.4	27	25.3	45.4	49.4	50.4	51.2	60.3	59.4	65.9
36.8	33.4	29.3	26.4	25.5	24.8	44.6	52.2	50.1	49.5	57.8	58.5	64.9
30.3	27.8	25.4	23.9	23.9	24.5	48	52.5	49.1	48.1	54.3	57.2	63
32	28.7	25.6	24	23.9	24.6	47.9	49.3	50.3	50	54.9	59.3	64.2
31	28.6	25.7	24	23.8	24.6	48.9	47.1	50.8	51.4	56.5	59	64.7
29	26.7	24.3	23.7	23.7	24.6	51.5	47.3	49	50.1	55.4	58.8	64.7
28.1	26.8	23.7	23	23.6	24.4	51.5	46.6	49.7	55.1	54.6	57.2	62
28.7	26.4	24.2	23.2	23.7	24.6	49.9	47	49.4	54.7	54	58.2	61.4
28.5	26.7	23.8	23.1	23.7	24.4	49.6	51.3	50.3	52.9	52.8	57.4	60.2
28.5	26.1	23.4	23	23.6	24.5	47.9	50.3	49.1	52.9	55.7	57	60.8
29.5	26.8	24.1	23.3	23.6	24.5	48.3	48.2	48.2	52.1	54.6	56.2	63.6
28.9	26.4	23.4	23.3	23.6	24.5	47.2	45.8	48.1	52.8	54.9	54.9	63.6
28.4	26.7	23.8	23.3	23.7	24.4	45.4	43.8	46.2	51.4	54.9	58.3	61.4
28	26.4	23.8	23.2	23.7	24.5	45.5	43.2	49.6	48.9	53.4	58.3	61.6
28.9	26.7	24.4	23.5	23.7	24.5	44.2	43.9	48.4	48.5	54.5	56.4	61.7
28.6	26.1	24.1	23.3	23.6	24.5	45.4	44.5	48.5	50.4	54.8	56.5	62.2
29.1	27.2	24.2	23.2	23.6	24.5	45.6	44.4	48.5	51	55	56	61.4
29.2	26.9	24.1	23.3	23.5	24.4	44.1	43.8	47.7	53.2	54.2	57	60.2
30.9	27.9	24.9	23.7	23.8	24.5	44.6	44.1	46.4	51	54	55.6	59.4
30.3	27.5	29.1	23.3	23.8	24.5	44.1	43.8	47	48.6	54.1	54.4	59.4
28.6	25.3	34	22.8	23.6	24.5	46.1	44.9	47.5	46.6	54	54.5	58.7
25	22.9	22.2	22.6	23.6	24.5	48.3	43.8	46.3	46.1	55.2	54.4	57.7
24.3	23.9	22	22.6	23.5	24.5	50.9	45.4	45.7	45.6	54.9	53.5	56.8
22.9	21.8	22.4	22.7	23.6	24.6	51.3	45.2	46.8	45.9	55.2	55.8	56.5
23.2	21.7	21.7	22.6	23.5	24.4	49.3	47	46.7	52.7	56.1	56.3	56.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
60.1	62	58.9	54.3	60	56.7	56.7	53.3	53.2	53.2	48.8	47	47.8
59	59	56.7	54.1	58.1	56.2	57.3	53.6	52.5	53.4	47.5	45.8	46.1
58.9	58.8	56.8	53.9	57.6	56.1	58.4	54	51	51.9	46.2	44.7	45.2
58	57.3	56.3	54.3	56.4	55.2	58.4	53.3	49.2	50.6	45.1	43.8	45.2
57.6	55.9	56.5	53.9	56.2	54.7	56.8	51.9	47.4	48.7	42.9	41.8	43.5
61.4	57.1	56.9	54.1	56.1	55.7	55.8	52	46.6	48.4	41.4	41.1	41.6
61.9	57.1	55.4	54	57.1	54.7	55.9	52.1	48.5	49.7	41.1	41.3	41.1
60.5	57	56.5	56.1	57.3	53.9	55.4	52.7	49.1	50	40.9	40.5	41.2
59.2	56.1	57	54.9	56.8	54	55.5	53.1	48.9	49.7	41.3	40.3	41
56.7	56	57.3	55	55.8	53.6	53.9	51.9	48	48.8	40.8	39.9	41.7
55.4	55.6	57	55.3	55.5	55.1	54.7	52.4	48.3	47.1	41.3	39.4	41.8
55.4	55.5	56.1	55.3	55.1	54.8	55.3	53.1	48.5	46.9	41.8	40.1	41.7
55.8	55.6	56.6	55	55.6	54.6	55.1	52.2	48.7	47	43.2	40.4	42.2
57.5	55.7	56.4	55.5	55	54.8	54.2	52.8	49.3	48	44.8	42	43.2
57.2	57	58.4	56.2	55.8	55.3	54.3	52.3	50	47.6	44.9	42.5	44.3
57	60.3	57.3	55.6	57.5	55.7	54.5	52.2	49.7	46.1	44.9	42.8	44.2
56.8	64.9	57.6	55.9	57.1	56.2	55.9	52.3	50.4	46.1	45.5	45	45.1
60	66.9	57.7	58.6	60.6	57.3	55.9	52.4	49.2	46.5	45.8	46.2	45.8
69.1	66.5	60.2	64.9	59.6	57.8	57.3	54.1	49.8	46.6	45.7	46.6	46
75.9	63.2	60.6	65.4	61.5	57.9	57.3	54.8	49.6	46.1	45.5	45.4	45.9
76.3	60.3	60.4	63	65	58.3	55.9	54.3	49.2	46.3	45.6	44.5	46.4
73	59.5	60.1	60.1	65.1	58.9	55.8	53.1	50.1	46.1	45.8	45.4	47.9
72	60.4	59.4	60.3	64.5	61.5	55.8	52.3	51	46.4	46.8	47.6	48.9
71.2	61.4	58.1	58.8	64.1	62.7	57.4	51.4	51.7	48.4	46.9	48.2	49.4
67.5	62	58.3	59	60.7	60.6	58.3	50.6	50.8	48.4	47.9	48.3	48.9
64.8	60.9	59.7	58.9	58.1	57.5	57.3	51	49.8	48.9	48.2	48.4	47.5
63.2	59.2	60	58.5	57.8	54.5	55	51.3	50	49.6	48.7	48.7	47.5
61.8	60.4	59.2	57.7	59.7	52.1	53.3	51.2	49.9	51.3	48.5	48.9	48.8
59.9	59.7	57.7	56.7	59.8	52.1	52.3	51.4	49.3	53.2	51.2	49.1	49
60.1	58.8	57.4	56.6	57.8	53.8	51	51.1	48.4	53.8	51.3	49	49
60.4	59.9	56.4	55.6	57.1	52.3	51.6	50.5	48.1	52.8	50.7	48.8	48.7
60.3	59.7	55.4	56.4	56.6	51.4	51	48.9	46.7	50.3	48.6	46.9	46.9
59.6	58.6	55.4	57.3	55.4	50.9	50.6	47.1	45	48.2	46.7	45	44.9
59.8	58.6	56.2	56.6	54.5	50.9	50.7	47.2	45.3	47.3	44.7	43.1	44
58.9	58.6	55.4	57.6	55.1	50.8	49.9	46.9	45.2	46.1	44	43.1	43.8
58.4	62.3	57.6	57.2	56.6	50.5	50.8	47.9	45.2	45.2	44	44.8	44.7
58.1	65.4	64.4	55.9	56.6	51	50.2	50.3	47	45.9	45.2	45.2	46.2
58.8	64.2	63.7	58.1	56.6	51.4	49.3	49.7	47.1	45.8	46.7	45.8	46
61.2	62.9	63.3	58.3	56.4	51.7	50.6	49.5	46.8	46.1	45.7	45.9	49.7
61.6	63.3	64.1	56.3	55.9	52.7	51.1	48.9	47.4	46.6	44.8	46.9	51
61.8	67.7	62.5	55.6	55	52.8	51.2	48.5	47	46.6	44.6	46.4	49.4
66.2	67.9	59.9	56.2	54.7	54.3	52.3	50.4	48.2	48	47.2	47.3	48.3
69.6	68.1	59.5	57.8	57	54.5	57.1	50.4	50.9	51.3	49	50.2	49.8
68.8	67.5	63.7	58.3	57.9	54.7	57	52.6	52.7	52.1	49.8	51.7	52
66.9	70.2	69	60.2	58.5	54.4	56.1	53.8	52.2	52	49.5	50.7	50.8
64.4	67.7	68.7	65.8	58.6	56.9	56.4	55.3	53.9	51.5	50.9	51.3	52.2
61.3	64.4	65.6	66.3	61.8	56.4	56.4	55.9	53.8	51.1	51.3	51.6	53.6
61.6	61.5	68.7	63.9	61.7	55.6	54.8	54.9	52.1	51	50.3	50.5	51.8
60.5	65.6	71.4	62.2	59.4	53.9	54.5	53.7	51.4	51	49.6	48.4	49.2
68.4	71.9	70.1	61	57.8	53	54	52.2	50.6	49	48	46.6	47.1
70.2	71.4	66	62.2	55.8	51.9	52.7	50.9	49.8	48	46.7	45.3	45.5
68	70.3	69	62.4	55.1	52	51.6	52	49.8	47.4	45.2	44.4	45.1
65.3	68.5	69.4	61.2	55.9	52.9	51.1	51.5	50.7	47.6	45.4	44.7	45.6
62.9	64.9	68.7	60.8	55.7	52.9	51.5	53.1	51.1	49	46	45.1	48.1
65.4	61.8	66.1	58.6	55.6	53	51.3	52.9	51.4	49	45.7	45.4	48
65.6	60.2	63.6	59.1	54.2	52.3	52.5	52.1	52.2	48.8	46.6	46.9	47.3
62.5	58.8	60.4	58.2	53.5	51.6	52.3	51.9	52.3	50.4	46.8	47.2	47.5
60	58.2	62.9	56.9	53.9	52.1	52.2	50.9	51.6	50.2	46.5	46.9	47.4
60.1	58	62.9	55.6	53.5	53.2	52.7	50.8	51.1	49.9	46.4	46.4	48.1
62.7	57.3	62.2	55.3	53.5	55	56.5	50.6	52.4	52.1	46.8	46.8	48.2
62.5	58	60.6	55.5	52.5	55.9	56.4	50.8	53.7	52.3	46.9	46.8	48.1
61.9	59.1	59.9	54.8	55.3	56	55.2	51.5	52.9	51.3	47	46.1	47.9
60.2	62.4	57.9	55.6	57.1	54.4	52.9	51.6	50.8	49.5	47.1	45.9	47.4
57.8	62.2	58.2	55.5	57.4	55	51.8	52	50.1	49.4	49.6	46.3	47.3
57	61.4	57.3	54	55.6	53.3	51.3	52.4	49.8	49.8	51.5	46.5	47.2
58.1	59.7	57.5	54.2	54.6	52	50.5	51.4	49.1	48.6	50.1	45.6	46.9
57.2	58.7	56.8	54.6	53.7	52.8	50.3	49.9	48.3	48.3	48.5	44.7	46.5
57.4	58.5	55.6	53.7	53.8	52.5	51	50.3	47.3	48.4	46.6	43.7	45.2
60.7	58.9	55.2	53.4	56.1	52.4	51.6	50.6	46.5	48.5	45.2	42.9	44
61.3	58.9	56.6	53.4	55.9	52.1	50.5	49.9	45.8	47.5	43.7	42.6	43

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
47.2	47.6	48.9	46	42.8	39	36.6	35.1	32.4	29.8	28.1	25.9
46.3	45.7	47	43.6	40.5	38.4	35.2	33.6	30.6	28.7	26.5	24.6
45.7	43.9	45.4	42.1	38.9	37.3	33.9	32.4	29.5	27.7	25.5	24.3
44	42	43.6	41.1	38.3	35.7	32.7	31.2	28.6	27	24.8	24.2
42	40.4	41.9	39.6	36.7	34.2	32.4	30.8	27.9	26.2	24.2	23.5
39.9	38.2	39.6	37.7	35.2	32.6	31.6	30.2	26.9	25.5	23.5	22.7
38.2	37.6	38.5	37.7	35.7	33.1	33.8	31.3	28.1	26.1	23.2	22.3
37.9	38.1	38.7	37.7	35.7	33.4	33.8	31.3	28.6	26.3	23.5	22.3
37.9	37.7	37.3	36.3	34.6	32.2	32.3	30.3	28.1	26.1	23.3	22.2
37.4	37.7	37.1	35.9	34.2	31.8	31.3	29.4	27	25.1	22.7	21.9
37.5	37.9	36.9	35.7	34.6	32.4	31	29.7	26.6	25	22.7	21.7
37.5	38.2	37.3	36	35.5	33.3	32.6	31.1	28.6	26.5	24.6	23.5
38.8	39.1	38.8	37.7	36.8	35	34.8	34.1	34.7	38.5	33.1	32.4
40.8	40	40	38.5	37.9	36	36.1	34.9	35.2	37.9	35.2	36.4
42.1	40.8	40.6	39.1	38.5	37.1	36.7	35.5	34.9	36.2	34.9	36.1
42	41.3	41.7	40.1	39.2	37.8	36.7	35.2	33.8	33.9	32.2	32.6
42.6	42.9	43.6	42	41.7	41.4	40.3	39.6	37.1	36.2	33.5	31.2
44.2	44.1	44.8	43.1	42.5	43.8	43.2	42.1	40	38.9	35.9	33.9
44.3	44.2	44.6	43.7	43.4	44.4	44	43.3	41.7	40.6	37.7	35.9
43.1	43.3	44.1	43.6	43.4	43.9	43.6	43.2	41.7	40.7	37.6	35.8
45.4	44.3	45.5	45	43.3	43.1	42.9	42.6	40.8	39.5	36.1	34.1
46.2	46.3	47.7	45.5	43.5	42.6	42.6	42.1	40	38.7	35.1	32.5
46.2	47	47.8	46.4	45.2	44.2	44.1	43	41.2	40.2	36.9	34.2
47.5	47.1	47.8	46.5	45.3	43.9	43.9	42.9	41.1	40.2	36.8	34.2
47.6	47.1	48.2	46.7	45.7	43.6	43.5	41.9	40	39	35.9	33.3
47	47.2	47.7	46.1	45.9	44	43.4	41.8	39.5	37.5	34.5	31.9
47.8	48.4	48.6	46	46.1	44.4	43.8	42.7	40	36.9	34.1	31.7
47.8	50.3	50.4	46.9	46.6	44.8	44.6	43	40.4	37.3	34.5	31.5
49.3	50.7	51.4	47.9	46.7	44.8	44.3	42.8	40.4	37.4	34.5	31.2
49.7	51.4	52.1	49.4	46.9	45.3	44.4	42.5	40.1	36.8	34.2	30.4
49	51.4	52	49.4	46.8	44.7	43.8	41.9	39.6	36.4	33.8	29.7
46.9	48.8	49.6	47.4	44.9	42.1	40.8	38.8	36.3	33.3	30.7	27.3
44.7	45.8	46.6	44.9	42.6	39.7	37.8	35.9	33.2	30.7	27.9	25.1
42.3	43.2	43.6	42.6	40.1	37.5	35.4	33.7	31.2	28.9	26.5	25.1
41.3	41.6	42.3	41.2	39.4	37	35.7	33.7	30.7	28.7	26.3	25.3
43.2	41.4	42.2	41.1	39.5	37.5	36.3	34.5	32.3	30.4	26.9	25.6
43.9	42.2	43.2	41.3	41	38.9	38.2	36	34.7	31.7	28.6	26.9
44.2	42.8	43.8	42	40.3	38.7	38.5	36.6	34.4	31.7	29.2	26.8
44.1	43.1	44.1	42.3	40.5	38.4	38.3	36.7	34.1	31.5	29	26.5
45	43.4	44.1	43.1	40.8	38.7	38.3	36.8	35	32.1	29.3	27.2
45	43.9	44.4	44.1	41.6	39.4	38.7	37.1	35.6	33.8	30.9	29
46.9	46	46.4	44.6	43.3	41	39.8	38.9	37.1	35.2	32.7	30.1
47.9	47.6	48.3	47.1	45.5	44.3	42.3	41.3	40.1	38.1	36.1	33.1
48.5	48.4	50.7	51	45.8	44.8	44.6	43.4	41.9	39.4	37.1	34.2
48.2	48.8	51.1	51.8	45.6	44.7	44.4	43.3	42.2	39.9	37.1	34.4
50.6	51.7	51.5	50	46.9	46.8	46.8	44.8	43.3	41.4	39	35.7
50.5	51.9	51.5	50.2	47	47	46.8	44.8	43.5	41.3	39.2	35.8
48.8	49.8	49.8	48.4	45.7	45.4	45.3	43.3	41.3	39.1	37.3	34.1
47.1	47.4	47.6	46	44	42.9	42.3	40.3	38.3	36.2	34.3	31.3
45.5	46	46.2	44.6	43.1	41.2	40.1	38.3	36.4	34.3	33.1	29.9
44.8	45.5	45.1	43.6	42.3	40.3	38.6	37.5	35.8	33.6	31.8	29.1
43.8	44.7	43.7	42.4	41	39.1	37.4	36.2	34.6	32.2	30.2	27.9
45	47.6	48.9	45.5	42.1	39.1	38.2	37.3	33.7	31.1	29.1	27.1
46.6	51.5	51.7	46.6	42.9	40.4	39	37.2	34.1	31.6	28.9	26.8
46.2	51.3	51.6	46.6	42.9	40.4	38.9	37	34	31.6	29.1	27.1
45.9	49.9	49.5	45.7	42.4	40.6	39.1	36.7	35.7	31.6	29.2	26.8
45.8	48.5	48.6	45.2	41.9	40.6	39	36.7	35.8	31.5	29.2	26.8
45.9	47.3	47.7	44.8	41.7	40.5	38.4	36.1	35.2	31	29.1	26.9
46	45.9	46.6	44.3	41.6	39.6	38.1	35.9	34.5	30.6	28.7	26.8
46.2	45.6	46	43.8	41.6	40.1	38.9	36.7	35.1	31.3	28.7	26.9
46.8	45	45.8	43.8	41.8	40.4	39.3	37	35.2	31.8	28.7	26.7
46.7	45.6	45.1	43.4	41.7	40.4	39.6	38.1	35.4	32	29	26.9
46.4	45.6	45	43.7	41.2	40	39.8	39	35.6	32.3	29.2	26.9
48.7	46.8	45.4	44.1	43.4	41.6	40.6	40.1	37.5	33.5	30.4	27.6
49.3	47.8	45.6	44.9	43.7	41.9	40.8	40.1	38.1	33.6	30.7	27.8
48.1	47.2	46.3	45.3	43.2	41.4	40	39.3	37.1	32.9	30.2	27.4
46.7	45.9	46.2	45.1	42.7	40.5	39.4	37.9	35.3	31.7	29.1	26
44.7	44	44.7	43.5	41.2	38.5	36.8	35.1	32.7	29.4	27	24.7
43.5	42.8	42.9	42.2	40	37.5	38.1	35.2	30.4	27.3	25.5	23.9
41.8	40.9	40.9	40.1	38.4	36.3	36.2	33.3	28.6	25.9	24.1	22.7

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.9	23.3	23.8	24.5	43.3	46.6	47.1	54.1	53.1	58.8	60.8	57.5	59
23.1	23	23.6	24.5	41.6	47.1	49.7	53.3	53.3	56.4	60.2	56.9	57.6
22.7	22.9	23.7	24.5	47.5	47.7	50	53	52.1	54.5	59.4	57.2	57.4
23	22.7	23.7	24.5	45.9	46.8	48.5	50.4	50.6	54	57.2	57.1	56
22.3	22.8	23.6	24.5	45.7	49.5	47.1	49.5	51.7	54.8	55.8	56.9	55.2
22.1	22.8	23.6	24.5	46	45.8	47.1	48.7	53.1	52.9	55.4	55.8	55.3
22.1	22.7	23.6	24.5	44.2	44.3	44.6	50	53.6	52.9	59.5	60.5	56
22.1	22.7	23.6	24.5	44.7	43.3	44.2	48.9	54.1	53.6	59.3	59.1	56
22.1	22.7	23.6	24.5	42	45.7	46	49.6	53.9	53.1	59.4	56.7	55.2
22	22.8	23.5	24.5	41.2	44	45.8	49.3	52.6	53.9	65.8	54.7	55.1
22	22.7	23.5	24.5	41.5	43	46.2	47.9	53.5	50.9	68	54.2	53.7
23.5	24	23.7	24.5	41.5	43.5	43.8	47.2	52.5	50.3	68.3	53.6	53.6
32	31.4	26.3	24.9	41.7	43.2	44.2	45.2	51.5	53.6	64.4	54.6	54.8
34.7	31	26	24.9	40.5	41.2	44.5	44.6	51.1	54.6	61.4	54.6	55
34.4	29.5	25.8	24.9	39.6	40.5	43.2	44.7	51.2	54.4	58.2	55.7	54.6
31	27.2	24.8	24.7	39.6	41.5	44.4	48.2	51.9	53.2	57.5	56	55.3
29.4	27.4	27.4	26.2	41	43	42.5	46.7	50.2	53	57.4	54.7	60.3
31.7	29.7	29.6	27.9	40.4	42.8	43.5	46.5	51.3	53.2	55.6	56	65
33	31.1	31.1	29.4	41.2	45.3	45.7	51.1	51.2	57.6	58.7	60.1	63.2
32.7	30.6	30.5	28.8	40.9	45.3	46.9	49.5	56.2	58	59.8	69.1	60.3
31.1	29	28.5	27.3	38.4	46.7	51.1	51.8	54.9	56.8	64.4	73	57.6
29.8	27.3	26.6	26	39.3	48.9	49.6	51	53.6	55.6	79.5	69.1	58
31.8	28.9	26.4	25.3	43.1	49.8	48.9	50.8	53.5	52.7	80.6	67.8	59.4
31.8	28.9	26.2	25.2	52.8	46.7	49.6	53.8	54.9	52.7	76.5	67.6	60.3
30.9	28	25.7	25	51.6	43.6	51.1	52.3	53.7	55.3	73.1	64.3	60.4
29.5	27.1	25.2	24.8	48.3	43.4	48.7	50	50.9	54.6	69.7	63.2	58.9
29.2	26.5	24.7	24.7	44.7	44.4	45.5	48.2	50	53.9	66	61.6	57.3
28.8	26.4	24.4	24.6	43.4	47.6	45.2	47.3	51	54.1	62.4	60	57.4
28.3	26.2	24.3	24.6	46.3	44.6	46.5	47.1	53.1	53.7	59.4	58	58
27.5	25.4	24.1	24.6	46.2	44.4	45.9	46.2	54.4	54.2	59.1	58.5	57.3
26.5	24.6	23.9	24.5	42.7	45	46.3	46.2	54.1	57	58	59.3	58.4
24.5	23.6	23.8	24.5	41.1	45.6	47.4	46.3	54.1	56.5	58	58.8	56.8
45	26.6	30.1	24.7	40.6	43.6	48.7	47.2	52.7	54.6	57.1	58	56.4
45.1	28.7	34.3	24.7	39.5	42.5	47.7	47.1	52.1	55.1	55.6	58.6	57.2
41.1	26.8	31.8	24.6	40.8	45.9	45.1	45.7	51.7	54.3	54.3	57.9	56.1
36.9	24.9	28.5	24.6	43.3	43.9	44.4	44.9	54	53.9	54.9	56.5	58.6
33	24.3	26.2	24.6	42.8	43.5	43.3	45.1	54	54.1	55.6	55.4	62.4
29.7	23.7	24.8	24.6	42.7	46	43.7	47	54.4	54	55.3	57.8	61.9
26.9	23.4	24.1	24.6	45.5	46.6	45.9	47.3	53.6	53.7	56.8	58.9	61.8
25.4	23.8	24.1	24.5	45.1	50.1	45.7	47.4	53.4	51.1	58.2	59.8	62
57.6	24.5	25.1	26.3	51.7	48.5	45	46.8	51.3	51.6	57.5	58.9	63.4
59.1	25.1	25.1	26.2	48.6	46.5	45.1	48.4	50.9	55.5	60.8	62	67
57.8	27.3	26.1	25.7	46.4	44.7	49.3	47.3	53.3	54.3	62.7	66.3	66.6
53.6	28.4	26.8	25.8	44.8	43.9	45.7	48.3	53.2	54.4	63.8	67	64.5
49.4	28.2	26.6	25.6	44.4	48.7	45.6	50.5	55.2	59.4	64.9	64.5	67.6
45.3	28.4	26.9	25.4	44.3	47	47.3	48.7	57.9	58.2	64.6	61.3	64.4
41.3	28.3	26.9	25.3	43.4	47.6	49.1	48.2	54.3	56.5	62.4	59.7	61.5
37.4	27.1	25.9	25	44.1	49.4	47.5	46.2	52.6	54.5	61.6	59.9	60.4
33.6	25.4	24.8	24.7	46	46.6	47.9	46.2	53.1	57.4	62.1	59	61
30.4	24.6	24.2	24.7	46.9	46.2	49	49.5	54.4	57	63.9	60.4	65.8
28.1	24.3	24	24.7	46.5	45.6	47.2	48.7	53.1	56.6	62	68	68.9
26.1	23.9	23.8	24.6	49.4	45.6	47.1	48.6	53.5	56	59.7	65.4	68.6
24.8	23.3	23.7	24.5	49.1	45.8	47.9	52.9	52.4	56	59	63	64.9
24.5	23.3	23.7	24.5	47.4	46	48.7	50.9	51.1	55.5	58.9	60.4	61.7
24	23.2	23.7	24.5	47	48.2	47.4	51.2	51.3	55.2	59.5	62	60.3
23.9	23.3	23.7	24.5	46.9	45.7	46.5	51	52.2	54.8	59.7	62.5	58.9
23.9	23.3	23.7	24.5	45.4	43.8	46.2	51.5	53.2	54.4	61.4	59.2	57.6
24	23.3	23.7	24.5	44.7	42.9	45.1	48.9	53.4	54.7	61	57	57
23.8	23.3	23.7	24.5	44.2	41.5	45.8	46.8	51.9	55.8	59.9	57.5	57
24.2	23.4	23.7	24.5	41.9	42	47	47.5	52.5	55.5	59.8	58.1	55.9
24.1	23.5	23.7	24.5	41.9	42.6	46.4	48.3	53.7	54.7	61.4	61.8	55.8
24.2	23.3	23.7	24.5	43.6	42.2	47.6	48.3	53.7	54.9	59.5	60.2	57.4
24.2	23.3	23.6	24.5	43.2	43.2	45.4	51.1	53.4	55.4	58.7	57.9	59
24.7	23.6	23.7	24.5	42.4	42.7	45.6	48.6	53	53.9	58	56	61.4
28.5	23.6	23.8	24.5	42.7	42.4	45.3	46.6	52.3	53.3	57.3	56.1	59.4
32.9	23.4	23.8	24.5	43.4	43	46.1	45.6	50.4	53.9	57.1	56.8	58.4
32.2	23	23.7	24.5	44.8	41.7	43.8	43.6	54.1	53.5	56.5	56.4	57.8
28.6	22.8	23.7	24.6	47.2	43.8	42.6	44.1	53.1	51.8	55.7	56.1	56.5
25.7	22.7	23.6	24.6	48.7	43.8	44.4	43	52.8	51.7	55.4	56.3	57.8
23.9	22.7	23.6	24.6	48	45.2	44.5	46	52.1	55.2	55.9	59.8	57.7

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
56.7	53.3	57.9	54.9	55.9	52.9	52.4	52.5	47.5	45.5	45.8	46.1	45.7
54	53.1	57.5	54.2	56.5	52.7	51	52	46.2	44.7	44.7	45.3	43.8
53.3	53.1	56	54.4	57.1	53.1	49.2	50.6	45.1	43.8	43.6	44	42
55	53.6	55.6	54.4	56.7	51.9	47.5	48.8	43	41.8	43.5	42	40.4
54.8	53	55.7	54.1	55.6	50.9	45.8	46.9	41.2	40.4	41.7	40	38.2
55.4	52.5	54.7	54.1	54.7	50	45.7	47.1	40.8	40.7	41.1	38.1	37.3
54	52.3	54.4	53.6	54.6	50.8	46.4	48.4	40.4	40	40.6	37.7	37.2
54.3	53.8	55.9	53.4	54.4	50.8	48.2	49.3	40.1	39.9	40.7	37.5	37.4
56.2	53.9	55.7	53.1	54	51.7	47.8	48.6	40.4	39.5	40.4	37.1	37.2
56.8	53.4	54.9	52.8	53.2	50.8	47.3	47.1	40.3	38.9	40.6	36.7	37
55.4	53.7	54.3	52.9	53.4	51.8	46.9	46.4	40.3	38.9	40.9	36.9	37.3
55.1	54.4	53.9	54.1	54.4	51.6	47.8	46.2	41	39	40.9	36.8	37.2
54.7	54.1	53.7	52.7	53.7	51.4	47.6	45.7	41.1	39.3	41.1	37.2	38.1
54.6	53.9	54	53	53.1	51.4	48.4	46.8	43.1	40.3	42.1	38.7	39.1
56.5	55.3	54	54.2	53.3	51.6	48.9	45.9	44.2	41.3	43.3	40.7	39.8
55.9	54.5	55.8	54.2	53.8	51.6	48.9	45.6	44.2	41.9	43.4	41.7	40.5
55.7	54.2	56	55.1	53.9	51.8	49.2	45.3	44.6	42.7	43.8	41.7	41.3
56	54.7	57	56.1	55.1	51.9	48.5	46	45.1	44.6	45	42.6	42.7
56	58.6	58.5	57.2	55	51.5	48.7	46.1	45	45.4	45.7	43.1	43.3
59	63.1	58.6	56.9	55.7	53.9	48.6	45.5	44.4	44.2	44.7	42.2	42.7
59.2	60.2	61.5	57.5	55	52.9	48.7	45.7	44.2	43.5	44.6	42.6	43.2
58.9	58	64.2	58.1	54.2	52.2	48.7	45.3	45.2	43.6	45.9	45.2	44.2
58	57.6	62.8	57.8	54.6	51.2	49.9	45.5	45.6	45.4	47.6	45.8	46.2
57.1	57	60.8	60.6	53.5	50.4	50.6	45.8	46.2	47.5	48.8	45.7	46.3
57	57	58.2	57.5	57.3	49.9	49.7	47.8	46.9	47.6	47.5	47	46.5
58.4	57	56.4	54.5	55	50.3	49	48.2	47.1	47.8	46.8	46.5	46.2
58.8	57	55.4	51.6	53.3	50.5	48.9	48.4	47.8	47.9	47	46.8	47.1
57	55.9	57.5	51.2	52.3	50.5	49	49.5	47.9	48.4	47.2	47.5	48.3
55.5	55.6	57.7	50.6	51.1	50	48.1	51.2	48.5	48.4	48.5	47.5	49.9
56.3	54.8	56.3	52.2	50.2	50	47.8	52.7	50.7	48.5	48.5	49	50.5
54.9	54.6	56.4	51.5	50.5	48.9	46.6	50.3	48.6	46.9	46.9	46.9	48.8
54.3	55	55.1	50.5	49.7	46.7	45.1	48.2	46.7	45	44.9	44.7	45.9
54.1	56	53.9	49.8	49.5	46.4	44.1	47.2	44.7	43	43.4	42.3	43.2
54.9	55.5	53.5	49.4	49.9	46.4	44.3	46.1	42.9	42.3	42.9	41.1	41.6
54	54.9	53.4	49.4	48.5	45.9	44.2	45	42.7	42.2	43	40.8	41
53.7	54.7	54.8	49.7	49	45.6	44.7	44.2	43.5	42.7	43.5	41.1	40.9
57.5	54.2	55.8	50.1	49	47.6	45	44.7	43.5	44.6	44.6	43.1	40.9
60.2	55.8	55.7	50.5	48.4	48.8	46.4	45.1	45.3	45.2	45.3	43.4	42.1
59.5	56.1	55.6	50	48.6	48.1	46.1	45	44.5	45.1	45.7	43.3	42.4
62.5	55.5	55	51.4	50.3	47.9	46.5	45.7	44.1	45.1	49.4	44.1	42.7
59.6	54.7	53.6	52	50.2	47.4	46.5	45.6	44	45.9	48.2	44.6	43.2
58.6	54.7	53.9	52.4	50	48.6	46.2	45.7	44.7	46.1	48	44.8	43.7
57.6	56.2	54.4	52.9	52.4	49.8	48.2	48	47.2	47.2	48.2	46.9	46
58.2	57.4	56.6	52.9	56.2	49.9	50.7	51.1	49	50.4	49.8	47.8	47.5
63.9	56.7	57.6	53.3	55.2	52.6	50.5	50.1	48.4	49.8	49.8	47.7	48.2
65.7	60.3	57.6	54.2	55.5	52	50	50.6	49.3	50.2	50.1	48.1	48.8
62.8	63.5	57.9	55.4	54.2	54.6	52.1	50.6	50.3	50.6	51.8	48.8	49.9
62.1	62.3	59.4	53.6	53.6	53.6	51.2	50	49.6	48.4	49.2	47	47.4
68.9	60.7	57.8	52.9	53.5	51.9	50	49	48	46.5	46.8	45.3	45.7
66	59.9	55.4	51.8	52.5	50.9	49.7	47.9	46.7	45.2	45.5	44.6	45.5
62.6	60.9	54.7	51.1	51.4	49.8	49.1	46.7	44.9	44.3	45	43.9	44.3
62.4	60.9	53.6	51.1	50	49.8	48.8	46.7	44.5	43.3	44.5	43.1	44.1
68.7	59.8	54.2	51.4	49.8	50.2	48.9	46.4	44.6	43.1	44.8	43.2	44.7
66.1	58.2	54.3	51.6	50.9	49.7	50	47	45.2	44.6	45.6	45	47.7
63.6	57.2	54.1	52.3	49.9	51.7	49.8	48.1	44.8	44.5	46.9	45	49.9
60.4	57.7	52.7	50.8	50.5	51.4	51.3	47.9	45.3	45.3	46.9	45.4	48.4
59.1	56.7	52.5	50.6	51.6	50.9	51.6	48.8	46.1	46.8	47.2	45.1	47.3
59.1	55.5	52.6	50.6	51.2	50.4	50.9	49.5	45.4	46.3	47	45.1	45.9
62.2	54	52.2	50.4	51.2	50.3	50.3	49.3	45.3	45.7	46.7	45.4	45.5
60.7	53.6	52	53.1	52.2	49.9	50.3	49.8	46.1	45.7	47.4	45.5	44.8
59.9	53.8	51.4	53.6	55.2	49.9	52.5	51.2	46.4	46	47.3	46	44.6
57.3	53.4	51.5	54	52.8	50.4	50.8	49.6	45.7	45.6	46.9	45.4	44.8
56.8	53.7	55.3	52.8	51.1	50.8	49.5	48.6	46.1	44.9	47	45.2	44.9
56.4	53.9	55.6	53.3	51.1	50.3	49.4	48.1	45.8	44.7	46.8	46.3	45
56.3	52.7	54.3	51.9	49.8	51.4	49	48.6	49.6	45.5	46.6	48.2	46.9
56.2	52.4	53	51.3	49.6	49.8	48.3	47.8	48.6	44.8	46.5	46.7	45.9
55.7	53.8	52.3	51.6	49.8	48.1	47.3	47.7	46.6	43.7	45.1	44.6	44
54.4	52.7	53.3	51.5	49.3	48.3	46.4	47.8	45.2	42.6	44	43.3	42.6
54.6	52.2	53.2	51.1	50.5	49.9	45.5	47.5	43.7	42.5	42.8	41.8	40.9
54.8	51.8	53.7	51.1	49.4	48.2	45.1	46.8	42.6	42	42.6	40.5	39.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
47	43.6	40.5	38	35.2	33.7	30.6	28.7	26.5	24.6	23.1	22.9
45.4	42.1	38.9	37	33.9	32.3	29.5	27.6	25.5	23.7	22.6	22.8
43.6	41.1	37.5	35.5	32.7	31.2	28.6	27	24.8	23.4	22.4	22.7
42	39.6	36.7	34.2	**32.1**	30.9	28	26.2	24.1	23.2	22.2	22.6
39.6	37.8	35.2	32.7	31.6	30.2	26.9	25.4	23.5	22.7	22.1	22.6
38.2	36.5	34.1	31.5	31	29.6	26.4	24.8	22.9	22	22	22.6
37.9	37	34.4	32.2	31.4	29.8	26.5	25	22.9	22.1	21.9	22.6
37.3	36.3	34.6	32.2	32.3	30.3	27.9	25.8	23.2	22.2	22	22.6
36.7	35.6	33.9	31.6	31.2	29.3	27	25	22.7	21.9	22	22.6
36.8	35.2	33.6	31.5	30.6	28.7	26.3	24.2	22.3	21.7	21.9	22.6
36.6	35.4	33.7	31.5	30.5	28.8	26.1	24.7	22.4	21.6	21.8	22.5
36.7	35.4	34.6	32.4	31	29.7	26.6	24.7	22.5	21.6	21.9	22.6
37.3	36	35.5	33.3	32.8	31.2	28.7	26.5	24.6	23.5	23.6	24.2
38.8	37.5	36.8	35	34.7	34	34.3	36.2	32.9	32.3	31.6	29.6
40	38.4	37.8	36	36.1	34.7	33.8	34	32.3	32.6	31	27.2
40.5	38.7	38.3	36.7	36	34.6	32.8	31.9	29.8	29.5	28	25.3
41.6	40.1	39	37.6	36.6	35.2	32.7	31.8	29.7	29	27.5	25.1
43.5	42	41.6	41.4	40.4	39.6	37.2	36.3	33.6	31.2	29.4	27.4
44	43	42.4	43.7	43.2	42.1	40	38.9	35.9	34	31.7	29.7
43.5	43	42.9	43	42.8	42.4	40.7	39.6	36.1	34.1	31.1	29
44.1	43.5	43	42.4	42.4	41.9	39.8	38.4	34.7	32.4	29.5	27.3
45.5	44.8	42.8	42.2	41.9	41.6	39.4	38	34.2	31.8	29.1	26.8
47	45.5	43.6	42.6	42.5	42.1	40.1	38.7	35.1	32.5	29.9	27.4
46.6	45.8	44.9	43.4	43.2	41.9	40	39.1	35.9	33.3	30.9	28.1
47.6	46.1	45.3	43.3	42.8	41.3	39.4	37.5	34.5	31.9	29.5	27.1
47.2	45.7	45.6	43.4	43.1	41.5	39.1	36.8	33.9	31.3	29	26.5
47.2	45.8	45.7	44	43.2	41.8	39.2	36.7	33.9	31.4	28.8	26.3
48.6	45.9	46	44.3	43.8	42.6	39.9	36.8	34.1	31.2	28.3	26.2
50.2	47	46.3	44.4	43.9	42	39.9	36.6	34.1	30.4	27.5	25.4
51.3	47.9	46.4	44.7	43.8	42	39.6	36.4	33.8	29.8	26.5	24.6
49.6	47.4	44.9	42.1	40.8	38.9	36.4	33.4	30.8	27.3	24.5	23.6
46.7	44.9	42.6	39.7	37.8	36	33.3	30.7	27.9	25.1	23.3	23.2
43.7	42.6	40.1	37.5	35.4	33.7	31.2	28.9	26.2	23.9	23	23
42.3	41.1	38.9	36.4	34.4	32.6	30.5	27.9	25.9	24.3	41.1	26.7
41.7	40.8	38.6	36.4	34.3	32.5	30.2	27.7	25.8	24.3	37	24.8
41.7	40.7	39.1	36.9	35.7	33.7	30.7	28.7	26.3	25.2	33.1	23.9
42.1	40.7	39.2	36.9	36.1	34.5	32.3	29.8	26.7	25.3	29.7	23.7
43.2	41.3	40	38.4	38.1	35.9	33.9	31.3	28.6	26.4	26.9	23.4
43.7	41.8	40.1	38.2	37.8	35.9	33.8	31.1	28.4	26.1	25.2	23.3
43.6	42.3	40.5	38.3	37.9	36.5	34	31.1	28.4	26.3	24.9	23.3
43.8	42.8	40.6	38.6	38.1	36.6	34.7	32.1	29.3	27.2	25.5	23.8
44.3	44.1	41.6	39.4	38.6	37.1	35.6	33.8	30.8	28.9	57.2	24.4
46.3	44.6	43.3	41.1	39.9	38.9	37.1	35.3	32.7	30.1	53.6	25.1
48.2	47.1	45.4	44.3	42.2	41.4	40.1	38.1	36.1	33.2	49.4	27.3
50.6	49.9	45.1	44.3	43.5	42.4	40.9	38.3	36	33.2	45.3	27.5
50.6	49.3	45.5	44.6	44	43.4	42.3	39.9	37.1	34.4	41.4	28.2
49.8	48.4	45.7	45.5	45.3	43.3	41.3	39.2	37.4	34.1	37.5	27.1
47.7	46	44	42.9	42.3	40.4	38.3	36.2	34.4	31.3	33.7	25.4
46.2	44.5	43.1	41.2	40.1	38.3	36.4	34.3	33.1	29.9	30.5	24.6
45.1	43.7	42.3	40.3	38.6	37.5	35.8	33.6	31.8	29.1	28.1	24.2
43.7	42.5	41.1	39	37.4	36.2	34.5	32.3	30.2	27.7	26.1	23.9
43.2	41.5	40.1	38.3	37	35.3	33.3	30.8	29	27	24.8	23.3
43.5	41.8	40.4	38.4	36.8	35.4	33.3	30.8	28.7	26.5	24.4	23.2
49	45.5	42.1	39	38.1	36.8	33.5	31	28.6	26.5	24	23.1
49.4	45.6	42.2	40.2	38.1	36.1	33.3	30.6	28.3	26.2	23.5	23
48.3	45.1	42	40.3	38.3	36.1	34	31	28.5	26.3	23.7	23
47.7	44.6	41.6	40.4	38.4	36.1	35.2	31	28.9	26.2	23.6	23.2
46.5	44.3	41.5	39.6	38	35.6	34.5	30.4	28.4	26.4	23.5	23.2
46	43.7	41.2	39.3	37.8	35.4	34	30	28.1	26.2	23.5	23.2
45.7	43.4	41.1	39.3	38	35.9	34.3	30.6	28.4	26.6	23.8	23.2
45	43.3	41.4	40.1	38.9	36.7	35	31.3	28.6	26.4	24	23.3
44.6	42.9	41.2	40	39.2	37.1	35.2	31.7	28.7	26.3	24.1	23.2
44.6	43.2	40.5	39.4	39.2	37.9	35	31.7	28.8	26.7	24	23.2
44.4	43.4	40.8	39.7	39.8	39.1	35.6	32.3	29.2	26.9	24.2	23.3
45.2	44.1	43.1	41.4	40	39.4	37.1	32.9	30.1	27.4	24.6	23.4
45.4	44.6	42.7	40.5	39.4	38	35.4	31.7	29.1	26.1	28.5	23
44.7	43.5	41.2	38.5	36.9	35.1	32.8	29.4	27	24.3	28.7	22.7
42.9	42.2	40	37.2	35.6	33.4	30.4	27.3	25.4	23.8	25.7	22.7
40.8	40.2	38.4	36.2	36.2	33.4	28.6	25.9	24.1	22.7	24	22.7
39.7	38.4	37.3	35.4	34.7	31.5	27.7	24.8	23	21.9	22.7	22.6

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.6	24.4	0.6	No	No	
23.5	24.4	0.9	No	No	
23.5	24.4	2.2	No	No	
24	24.4	1.2	No	**No**	
23.5	24.4	1.1	No	No	
23.5	24.4	0.4	No	No	
23.5	24.4	1.3	No	No	
23.5	24.4	2.7	No	No	
23.5	24.5	0.4	No	No	
23.4	24.4	1.1	No	No	
23.4	24.4	1.5	No	No	
23.4	24.4	0.2	No	No	
23.8	24.4	1.6	No	No	
25.8	24.8	0.8	No	No	
24.9	24.7	0.7	No	No	
24.2	24.5	0.5	No	No	
24.2	24.5	0.5	No	No	
27.5	26.2	-0.1	No	No	
29.7	27.9	0.8	No	No	
28.5	27.3	0.3	No	No	
26.6	26	0.3	No	No	
25.8	25.3	0.4	No	No	
25.8	25.2	0.8	No	No	
25.7	25	0.9	No	No	
25.2	24.8	0.4	No	No	
24.7	24.6	0.4	No	No	
24.4	24.6	0.6	No	No	
24.3	24.5	0.4	No	No	
24.1	24.5	2.6	No	No	
23.8	24.5	2.1	No	No	
23.8	24.5	4.1	No	No	
23.7	24.5	4.1	No	No	
23.7	24.5	1.7	No	No	
30.3	24.5	0.7	No	No	
28.5	24.5	0.6	No	No	
26.2	24.5	0.5	No	No	
24.8	24.5	0.7	No	No	
24.1	24.5	0.5	No	No	
23.9	24.5	0	No	No	
23.9	24.5	0.7	No	No	
24	24.5	4.8	No	No	
24.8	25.7	4.8	No	No	
24.9	25.5	0.5	No	No	
26.1	25.6	1.5	No	No	
26.1	25.3	0.2	No	No	
26.6	25.3	0.5	No	No	
25.9	25	3.7	No	No	
24.8	24.7	0.9	No	No	
24.2	24.6	0.5	No	No	
24	24.6	0.5	No	No	
23.7	24.6	1	No	No	
23.7	24.4	0.3	No	No	
23.6	24.4	0.5	No	No	
23.7	24.4	2.6	No	No	
23.6	24.5	0.6	No	No	
23.6	24.4	0.1	No	No	
23.6	24.5	0.4	No	No	
23.6	24.4	0.5	No	No	
23.7	24.4	0.4	No	No	
23.6	24.4	0.8	No	No	
23.6	24.5	0.2	No	No	
23.6	24.4	0.8	No	No	
23.5	24.4	0.7	No	No	
23.5	24.4	1.3	No	No	
23.7	24.5	1.1	No	No	
23.6	24.5	1.8	No	No	
23.6	24.5	0.2	No	No	
23.5	24.5	0.7	No	No	
23.5	24.5	1.3	No	No	
23.5	24.5	1.4	No	No	

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
363		11/19/2021	1:01:04 PM	48.8	60.6	49.4	48.9	92.0	14.9	53.0	58.7	62.5	61.1	55.2	48.4	46.1	43.6	39.7
364		11/19/2021	1:01:05 PM	49.1	61.4	49.1	48.8	92.0	15.6	55.1	57.6	62.4	60.3	54.9	48.6	45.1	44.5	40.5
365		11/19/2021	1:01:06 PM	51.0	62.7	50.5	49.1	92.0	14.5	53.7	60.3	64.5	60	55.6	49.4	47.5	46.5	43.3
366		11/19/2021	1:01:07 PM	54.5	65.7	53.6	50.6	91.9	11.3	52.3	58.9	67	58.5	55.8	52.9	49.4	50.9	46.8
367		11/19/2021	1:01:08 PM	56.3	69.0	55.6	53.6	92.0	9.7	56.6	57.9	65.7	61.6	58.2	54.2	51.4	53.5	47.2
368		11/19/2021	1:01:09 PM	56.6	69.0	56.2	55.6	91.9	10.1	53.3	58.3	65	61.1	59.2	55.1	51.9	54	47.8
369		11/19/2021	1:01:10 PM	57.6	70.5	57.2	56.2	92.0	9.8	50.7	60.3	62.6	65.2	58.8	54.2	52.5	54.9	49
370		11/19/2021	1:01:11 PM	58.1	70.3	57.8	57.2	92.0	10.5	52.9	60.3	63.3	65.3	58.4	54.5	52.1	55.2	50.7
371		11/19/2021	1:01:12 PM	60.0	74.0	59.5	57.7	92.0	11.7	50.4	63.7	69.7	63.2	59.8	56.8	54	56.4	52.7
372		11/19/2021	1:01:13 PM	60.5	72.8	60.2	59.5	92.0	8.8	55.3	68.1	71.9	66.1	61.2	57.6	55.1	57.2	52.7
373		11/19/2021	1:01:14 PM	59.6	71.6	60.1	59.7	92.0	9.6	55.0	61.9	68.2	63.9	59.9	56.1	54	56.1	52
374		11/19/2021	1:01:15 PM	57.8	69.7	59.7	58.6	92.2	11.1	55.5	61.5	68.1	63.4	59.8	56.5	52	54	50.1
375		11/19/2021	1:01:16 PM	57.3	69.8	58.6	57.8	92.0	11.4	54.1	61.2	68.2	64.2	61	57.4	52.6	52.8	49.5
376		11/19/2021	1:01:17 PM	58.1	71.3	58.0	57.8	92.2	11.1	56.6	63.1	66.7	63.6	61.4	57.2	53.7	53.3	51.3
377		11/19/2021	1:01:18 PM	58.3	70.7	58.2	58.0	92.2	11.4	56.5	61.6	69.7	61.3	61.9	56.4	53.1	54.8	50.5
378		11/19/2021	1:01:19 PM	57.7	70.5	58.3	57.9	92.1	11.4	55.5	62.6	69.3	62.9	61.9	55.1	53	54.3	50.2
379		11/19/2021	1:01:20 PM	57.4	69.8	57.9	57.6	92.1	9.7	53.9	65	68.3	62.7	58.2	54.3	52.2	53.2	50.8
380		11/19/2021	1:01:21 PM	57.6	71.0	57.7	57.5	92.2	10.6	51.5	61.7	65.8	63.7	58.8	55.1	53.4	53	50.5
381		11/19/2021	1:01:22 PM	57.8	70.5	57.7	57.6	92.1	11.2	54.4	61.7	69	65	58.4	55.3	54.1	53.2	50.4
382		11/19/2021	1:01:23 PM	60.5	74.5	60.0	57.6	92.0	10.6	53.1	65.7	69.1	66	60.6	57.4	55.9	55.8	53.6
383		11/19/2021	1:01:24 PM	64.4	77.0	63.5	60.0	92.0	10	53.3	59.5	72.9	66.2	63.4	60.9	59.4	60.5	56.7
384		11/19/2021	1:01:25 PM	67.9	80.2	66.8	63.5	92.2	7.8	55.2	60.3	71.8	73.1	68.4	65.6	63.6	63.2	60.5
385		11/19/2021	1:01:26 PM	66.9	79.7	67.1	66.7	92.3	12.3	50.6	62.4	66.4	77	69.1	64.9	62.9	62.4	59.2
386		11/19/2021	1:01:27 PM	66.6	79.5	66.7	66.6	92.2	10.2	52.1	66.1	63.9	78.7	67.3	65.3	62.3	62.1	59.6
387		11/19/2021	1:01:28 PM	64.1	77.7	66.7	65.1	92.2	11.1	52.1	62.8	65.8	75.7	65.5	61.5	60.1	60	57
388		11/19/2021	1:01:29 PM	59.3	71.3	65.1	62.4	92.2	14.2	52.8	63.8	65.1	69.9	62.9	57.7	56.8	54.8	50.4
389		11/19/2021	1:01:30 PM	59.2	70.5	62.4	60.7	92.3	11.6	54.2	63.1	74.8	64.3	62.1	57.0	56.8	55.1	50.3
390		11/19/2021	1:01:31 PM	57.4	**69.8**	60.6	58.8	92.5	11.1	52.7	63.8	70.7	63.5	62.6	57.8	54.6	52.7	48.8
391		11/19/2021	1:01:32 PM	56.5	69.0	58.8	57.5	92.5	10.7	52.2	64.9	64.4	63.4	62	55.3	53.2	52.2	48.4
392		11/19/2021	1:01:33 PM	57.6	**72.0**	57.7	57.1	92.5	10	52.2	62.8	65.6	63.4	61.8	56.8	54.9	52.3	49.7
393		11/19/2021	1:01:34 PM	58.7	70.7	58.5	57.7	92.5	7.8	50.3	57.6	63.4	61.6	59.7	58.5	56.9	53.2	50.3
394		11/19/2021	1:01:35 PM	61.2	74.6	60.5	58.5	92.2	7.3	51.3	59.9	61.7	61.8	63	59.8	58.7	56	53
395		11/19/2021	1:01:36 PM	63.5	75.5	62.7	60.6	92.5	5.7	50.8	59.7	62.1	60.8	64.8	60.9	61	59	55.6
396		11/19/2021	1:01:37 PM	66.5	79.7	65.5	62.7	92.5	5.6	49.9	59	61.2	65.5	65.7	64.6	64.2	62.7	57.6
397		11/19/2021	1:01:38 PM	67.2	80.0	66.7	65.5	92.6	4.7	53.1	61.6	62.2	64.8	65.6	63.6	64.1	64.4	57.6
398		11/19/2021	1:01:39 PM	63.3	76.1	66.6	64.6	92.5	7	52.1	62.7	63.3	65.8	64.2	61.6	59.5	60.2	54.8
399		11/19/2021	1:01:40 PM	58.3	71.5	64.6	61.7	92.5	9.7	54.5	64.5	66.4	62.2	61.6	59.7	54.4	54.4	50.1
400		11/19/2021	1:01:41 PM	54.5	66.2	61.6	58.6	92.6	12.1	51.5	59.3	65	63.7	59.9	53.9	50.4	50.6	46.4
401		11/19/2021	1:01:42 PM	53.2	67.4	58.6	56.0	92.5	13.6	54.7	57.7	66.1	60.3	59.8	53.5	48.9	48.7	45.4
402		11/19/2021	1:01:43 PM	52.0	69.2	56.0	54.0	92.6	13.5	51.0	57.5	68	59.4	57.6	51.7	47.6	47.4	44.4
403		11/19/2021	1:01:44 PM	51.1	63.2	53.9	52.4	92.6	13	53.2	59.2	67.1	59	57.1	50.9	47.5	46.7	42.1
404		11/19/2021	1:01:45 PM	50.7	65.1	52.4	51.4	92.6	13.1	51.1	58.3	62.9	59.9	56.4	49.9	47	46.3	41.9
405		11/19/2021	1:01:46 PM	51.6	64.4	51.7	51.2	92.6	12.1	50.0	58.7	62.2	59.6	58.5	49.9	48.5	47.2	42.9
406		11/19/2021	1:01:47 PM	52.5	65.1	52.2	51.7	92.5	11.9	50.5	56.8	60.6	61.3	56.9	51.2	49	47.5	44.8
407		11/19/2021	1:01:48 PM	54.7	67.6	54.1	52.2	92.8	9.6	53.4	58.6	62.4	60.5	56.6	52.4	50.8	50.2	47.7
408		11/19/2021	1:01:49 PM	58.4	76.4	57.6	54.1	92.8	8.7	49.9	59.8	61.4	61.3	56.6	55.1	53.8	54.5	51.3
409		11/19/2021	1:01:50 PM	62.8	76.9	61.6	57.6	92.8	8.4	51.9	60.5	66.6	63.6	63.1	59.1	56.9	60	54.5
410		11/19/2021	1:01:51 PM	62.1	76.7	62.3	61.6	92.9	8.7	50.6	61.1	66.4	68	65.6	59.9	57.3	59.1	54.3
411		11/19/2021	1:01:52 PM	57.2	75.1	61.6	59.4	92.6	13.3	59.1	63.4	69.3	66.1	60.5	56.7	52.6	53.5	48.7
412		11/19/2021	1:01:53 PM	54.3	65.9	59.3	56.9	92.8	12.4	54.4	63.2	70.5	63.2	57.9	53.2	49.5	50.3	46.6
413		11/19/2021	1:01:54 PM	53.2	64.8	56.9	55.0	92.9	12.9	53.1	59.4	66.6	62.8	57.5	52.8	48.6	49.1	45.5
414		11/19/2021	1:01:55 PM	52.6	63.6	54.9	53.7	92.9	12.4	51.1	58.5	65.5	62.1	56.8	52.2	47.6	48.8	44.7
415		11/19/2021	1:01:56 PM	52.6	65.4	53.6	53.0	92.8	12.5	47.3	58	63.7	61.6	58.3	52.0	48.4	48.2	44.4
416		11/19/2021	1:01:57 PM	52.7	71.5	53.3	52.4	92.7	12.8	50.4	58.1	63.1	60.1	56.9	50.9	48	48.2	45.9
417		11/19/2021	1:01:58 PM	50.9	62.1	52.9	51.8	92.8	15.4	47.2	58.5	64.7	61.5	55.4	50.4	47.5	46.3	42.6
418		11/19/2021	1:01:59 PM	52.4	64.1	52.3	51.6	92.9	11.9	52.3	56.7	66.1	61.6	55.1	52.1	48.6	47.5	44.5
419		11/19/2021	1:02:00 PM	53.0	66.4	52.8	52.3	92.9	11	49.8	57.9	63	61.1	55.7	53.1	49.5	48.4	44.9
420		11/19/2021	1:02:01 PM	52.3	65.4	52.8	52.4	92.8	11.7	48.9	60.6	62.2	61.6	55.9	53.1	49.2	46.8	44.3
421		11/19/2021	1:02:02 PM	53.9	65.9	53.5	52.5	92.9	11	50.6	60.5	62.1	61	55.5	53.7	50.6	49	46.3
422		11/19/2021	1:02:03 PM	53.4	66.7	53.5	53.4	93.0	11.2	48.7	60.4	62.7	60.6	56.1	52.7	50.1	49.2	45.9
423		11/19/2021	1:02:04 PM	52.1	64.4	53.4	52.6	92.8	11.1	49.2	60.7	63.5	59.2	54.1	52.0	50	47.3	43.5
424		11/19/2021	1:02:05 PM	50.5	63.2	52.6	51.4	92.9	12.2	48.0	59.2	62	58.9	54.6	50.7	46.7	46.9	41.9
425		11/19/2021	1:02:06 PM	50.1	63.6	51.4	50.7	92.9	12.9	51.1	58.1	62.3	58.7	55.1	50.4	47.1	45	41.7
426		11/19/2021	1:02:07 PM	49.5	60.6	50.7	50.0	93.0	13.7	49.9	58.3	58.5	59.2	56	49.2	45.9	44.8	41.1
427		11/19/2021	1:02:08 PM	50.4	61.4	50.3	50.0	92.9	12.7	50.9	59.2	60.7	60.7	53.2	48.2	46	46.7	42.7
428		11/19/2021	1:02:09 PM	52.6	64.8	52.0	50.4	92.9	12	47.5	58.6	61.7	61.6	55.5	48.5	47.4	49.9	44
429		11/19/2021	1:02:10 PM	53.4	65.9	52.9	52.0	93.2	11.2	48.7	60.2	62.9	60.5	54.8	49.6	47.7	50.8	45.5
430		11/19/2021	1:02:11 PM	54.2	66.4	53.8	52.7	92.9	11.5	50.1	57.7	65.6	58.8	55	50.2	48.8	51.4	46.5
431		11/19/2021	1:02:12 PM	55.6	67.8	55.0	53.8	93.0	12.1	46.2	59.9	66	62.4	57	50.7	51.2	52.5	47.7
432		11/19/2021	1:02:13 PM	56.1	69.3	55.9	55.0	93.2	9.9	51.4	60.4	68.5	60.3	57.1	53.3	52.1	53.1	47.8
433		11/19/2021	1:02:14 PM	56.8	70.4	56.5	55.9	92.9	11	50.2	60.8	64.9	61.5	58.1	53.8	52	53.4	48.7
434		11/19/2021	1:02:15 PM	55.0	68.0	56.3	55.5	93.0	12.9	49.7	64.1	69.3	65.5	56.8	53.1	50.4	50.9	46.8
435		11/19/2021	1:02:16 PM	54.7	68.7	55.6	54.9	93.0	16	52.7	61.2	69.4	63.6	56.6	52.1	51.4	49.8	46.8
436		11/19/2021	1:02:17 PM	56.2	68.8	55.8	55.1	93.0	20.4	51.7	59.8	73	75.2	60.7	54.9	50.8	50.4	48
437		11/19/2021	1:02:18 PM	55.2	67.6	55.8	55.2	93.0	20.7	51.7	58.1	60.7	77	59.3	56.2	49.8	49.4	45.6
438		11/19/2021	1:02:19 PM	53.0	64.1	55.2	53.9	93.2	18.5	52.5	60	63.9	74.6	55.4	52.3	48.1	48	45.2
439		11/19/2021	1:02:20 PM	52.6	64.4	53.9	53.1	93.0	14.5	49.0	58.7	63	68.7	54.3	51.2	48.7	48.2	44.6
440		11/19/2021	1:02:21 PM	53.0	71.9	53.2	52.8	93.3	13.2	49.1	56	59.2	65.3	53.3	51.8	49.7	48.8	45.2
441		11/19/2021	1:02:22 PM	54.0	66.4	53.8	53.1	93.4	11.8	54.1	56.4	60.7	65.7	56.1	52.3	50.6	48.8	46.7
442		11/19/2021	1:02:23 PM	54.9	66.2	54.6	53.8	93.3	10.8	50.8	57.8	61.9	61.8	58.9	53.9	53	49.6	46.2
443		11/19/2021	1:02:24 PM	55.4	66.9	55.2	54.6	93.3	10.5	51.9	58.9	63.1	59.5	58.2	56.3	53.4	50.1	46.8
444		11/19/2021	1:02:25 PM	55.3	66.9	55.3	55.1	93.4	10.9	51.7	59.3	64.2	58.2	59.9	58.0	52	49	46.1
445		11/19/2021	1:02:26 PM	56.6	68.6	56.2	55.3	93.4	10	49.2	56.3	64.6	58.9	61.1	60.1	53.6	50	47.2
446		11/19/2021	1:02:27 PM	57.3	69.8	57.0	56.2	93.3	9.3	48.4	58.6	62.2	62.4	60	57.8	56.1	51	47.9
447		11/19/2021	1:02:28 PM	54.7	66.7	56.8	55.6	93.4	10.2	46.8	58.1	64.5	59.5	58.7	56.2	51.5	49.6	46.6
448		11/19/2021	1:02:29 PM	54.1	65.4	55.6	54.7	93.3	11.6	49.8	59.2	62.2	59.1	57.9	53.0	50.2	49.6	46.7
449		11/19/2021	1:02:30 PM	53.5	65.1	54.7	54.0	93.4	11.6	46.6	57.3	66.1	59.6	57.9	52.6	49.6	48.7	45.9
450		11/19/2021	1:02:31 PM	54.1	67.3	54.2	54.0	93.4	12.5	52.5	57.5	64.8	62.3	58	53.2	50.4	49.3	46
451		11/19/2021	1:02:32 PM	53.9	68.6	54.1	53.9	93.4	14.8	48.3	55.7	68.5	63.5	58.5	51.8	49.9	49.2	47
452		11/19/2021	1:02:33 PM	54.0	71.2	54.2	53.9	93.4	11.4	50.4	56.8	68.2	62.4	56	51.0	50.8	49.7	46.9
453		11/19/2021	1:02:34 PM	53.5	65.4	53.9	53.6	93.4	12.4	43.8	56.3	63.1	62.5	55.7	50.3	50	49	46.1
454		11/19/2021	1:02:35 PM	53.5	65.9	53.6	53.4	93.4	12.6	49.4	58.4	63.4	65.2	55	49.8	49.6	49.2	45.9
455		11/19/2021	1:02:36 PM	54.9	66.9	54.4	53.6	93.4	10.9	51.5	58	61.3	64.2	55.3	50.4	52.3	50.1	47.5
456		11/19/2021	1:02:37 PM	56.6	68.8	56.0	54.4	93.4	10	51.7	56.5	65.8	63.5	57.2	53.1	53	52.4	50
457		11/19/2021	1:02:38 PM	57.5	70.4	57.1	56.0	93.5	7.3	50.2	58.1	64	62.7	55.5	53.8	53	53.5	51.3
458		11/19/2021	1:02:39 PM	56.4	69.0	57.1	56.6	93.5	8.6	47.8	57.3	60.2	62.7	54.2	53.6	51.6	52.7	49.6
459		11/19/2021	1:02:40 PM	56.7	68.0	56.7	56.3	93.4	9.3	49.5	56.8	61.9	64	56.3	57.7	52	52	49.3
460		11/19/2021	1:02:41 PM	57.6	69.6	57.4	56.7	93.6	7.3	48.6	60.1	60.9	58.8	58	55.6	53.8	53.2	50.2

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
461		11/19/2021	1:02:42 PM	59.4	71.0	58.7	57.4	93.5	7.4	50.2	56.5	61.9	61.4	60.3	59.0	57.5	54.8	51.4
462		11/19/2021	1:02:43 PM	62.1	75.3	61.4	58.7	93.8	5.8	50.7	58.5	61.4	61.6	61.2	59.2	59.3	57.4	54.9
463		11/19/2021	1:02:44 PM	65.8	79.0	64.9	61.4	93.6	4.9	45.9	57.6	63.7	60.1	63.1	63.3	62.2	61.3	58.4
464		11/19/2021	1:02:45 PM	69.2	81.2	68.1	64.9	93.5	5	50.2	62.6	63.2	63.3	69.4	66.7	66.4	65.6	59.9
465		11/19/2021	1:02:46 PM	65.5	77.9	68.0	66.5	93.8	7	50.8	61.3	64.5	65.6	67.3	66.0	61.3	61.4	57.7

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
32.2	26.4	28.4	52.5	59.4	63.3	60.8	55.3	50.2	46.5	44.1	40.7	33.7
32.9	28	28.3	54.8	59.3	62.7	60.7	55.3	49.2	46.1	44.3	40.4	33
35	28	28.4	54.3	59.7	64.3	61.4	55.7	49.4	47	46.1	42.6	34.4
36.9	28.5	28.4	53.7	60.1	66.2	59.8	56.1	52.2	48.9	49.9	45.8	36.2
37.6	30	28.5	56	59.1	66.1	60.9	57.6	53.6	50.9	52.6	46.7	37.3
38.9	30.9	28.6	55.5	58.6	65.8	61.4	58.9	54.7	51.5	53.6	47.5	38.4
39.8	32	28.9	54.8	59.9	65.2	64.3	58.9	54.8	52.2	54.5	48.7	39.4
41.6	32.6	29.3	53.5	60.2	63.7	65.1	59.1	54.6	52.3	55	50	41.1
47.5	40.1	35	52.4	63.7	69	64.8	59.7	56.3	53.7	56.2	52.1	46.4
48.3	43.3	37.8	54.4	66.9	71.5	65.5	60.8	57.3	54.6	56.9	52.7	47.7
48.4	43.3	36.9	55.2	66.8	70.6	65.4	60.9	57.3	54.6	56.9	52.4	48.3
46.2	40.4	34.2	55.9	64.2	69.3	65	60.3	56.9	54.2	56.2	52	48
45.2	38.3	31.9	56	62.7	68.8	64.4	60.7	57.2	53	54.9	50.9	46.9
45.5	38	30.6	56.6	63.3	68.7	64.4	61.4	57.5	53.4	53.7	50.9	45.8
45.3	37	29.9	56.6	63.3	69.1	64	61.8	57.3	53.3	54.5	51	45.7
43.4	36.3	29.5	56.4	62.9	69.5	63.1	62.1	56.7	53.4	54.8	50.6	45.3
44.7	36.7	29.6	55.7	65	70.2	63.1	61.6	55.7	53.1	54.3	50.7	44.6
45.5	38.2	30	54.8	64.7	68.3	64.2	59.9	55.2	53.2	53.7	50.7	45.3
45.9	38.4	30.1	54	62.9	68.4	64.4	59.4	55.3	53.8	53.3	50.6	45.7
49.4	42.9	31.1	54.2	65	69.1	65.8	60.2	57	55.5	55.3	53	48.8
53.1	48.8	32.8	54	65.1	72.1	66.3	62.7	60	58.6	59.6	55.9	52.4
56.7	50	37.2	54.7	62.2	73.1	71.7	67.5	64.4	62.5	62.2	59.5	55.7
55.1	48.7	36.2	54.4	62.4	71.3	76.2	68.7	64.7	63.2	62.6	59.7	55.8
54.3	47.7	34.4	52.6	65.3	69.1	78.2	68.3	65.4	62.6	62.3	59.6	55.2
51.4	44.7	31.5	52.7	65.2	66.5	77.5	67.7	64.8	62.3	62.3	59.6	54.7
45.1	37.3	29.5	53.1	64.3	66.4	76.4	66.7	62.9	60.9	60.8	57.9	52.7
44.8	36.7	29.8	54.5	64.7	73	73.3	64.5	60.3	58.8	58	54.8	49.5
43.1	37	34.4	54	64.2	73	69.9	63.1	58.8	57.6	56.4	52.5	47.2
42.3	34.8	29.1	53.4	65.6	71.2	67	63.2	57.9	55.7	54.3	50.5	45
45	38.3	29.9	52.7	64.7	68.1	65.1	62.3	56.9	54.9	53.1	49.7	44.3
45.2	39.8	30.4	52.7	63.1	66.8	64.5	62	58.3	56.4	53.2	50.2	45.1
48.4	42.5	32.6	52.5	60.7	64.6	62.8	62.6	59.3	58.1	55.4	52.3	47.6
50.6	44.2	34	51.7	60.6	63.1	62.1	64.1	60.4	60.3	58.1	54.8	49.8
52.2	45.6	35.4	51	59.8	62.9	64.9	65.5	63.4	63.1	61.7	56.9	51.5
52	45.4	35.1	52.7	61.5	62.4	65.3	65.8	63.7	64	63.7	57.4	52.1
48.7	41.3	33.1	52.3	62.4	63.2	65.6	65.8	63.5	63.6	63.7	57.2	51.7
43.7	36	30	54.1	64.2	65.4	65.4	64.5	62.4	61.4	61.6	55.7	49.9
37.3	30.5	28.7	54.2	63.9	65.6	64	62.7	60.7	58.3	58.4	52.9	46.9
36.3	30.1	28.5	54.4	61.4	65.9	63.6	61.1	57.6	55.1	55.1	50	43.3
35.7	29	28.5	53.8	59.4	67.6	61.8	60.4	55.6	52.3	52.2	47.7	40.3
33.7	28.4	28.5	53.7	59	67.8	60.5	58.7	53.5	49.9	49.8	46	38
35.4	29.9	28.6	53.2	59	67.2	60	57.8	52	48.7	48.2	44	36.1
36	29.3	28.7	51.6	59.1	64.8	59.9	58	51	48.4	47.3	43	36
38	30.2	28.6	51	58.5	63.2	61	57.9	51	48.9	47.5	44.4	37.4
41.4	36.4	32.3	53	58.8	62.5	61	57.8	52	50.5	49.6	46.9	40.6
44.3	36.4	30.6	52.7	59.6	62.9	61.3	56.8	54.3	53	53.7	50.5	43.5
48.5	40.6	33.7	52.1	60.4	65.8	63.5	62.3	58.1	56	58.6	53.5	47.5
47	38.9	32.2	51.9	61.3	67.1	66.6	64.9	59.5	57.1	59.3	54.2	48.1
39.3	31.8	29.6	58.4	62.8	68.6	66.6	64.2	59.2	56.6	58.6	53.8	46.7
36.4	28.7	28.5	56.5	63.6	70.9	66.2	62.1	57.7	54.4	56.1	51.3	43.5
35.7	28.6	28.7	55.3	62.5	69.2	64.6	60	55.4	52	53.4	49	40.5
36.6	30.1	28.9	54	60.6	67.4	63.4	58.7	54	50.1	51.2	47.1	38.2
39.3	31.1	28.9	52.5	59.5	66	62.7	58.3	53	48.9	49.9	45.8	39.4
38.9	35.5	30.3	51.4	59.1	64.7	62.1	58	52.3	48.5	48.9	46.3	39.6
35.8	30.3	28.6	49.9	58.8	64.9	61.6	57.3	51.4	48.1	48.4	45.8	39
38	30.7	28.6	51.7	58.9	65.9	61.8	56.3	51.7	48.5	47.6	44.5	37.9
39.9	32.7	28.8	52.5	58.2	65.6	61.8	56	52.8	49.4	48.1	45	39.4
39.1	31.8	28.7	50.1	60.5	64.2	61.9	56.1	53.2	49.4	48.1	44.9	39.1
40.5	34.1	29	50.4	61.2	63.2	61.4	55.9	53.6	50.3	48.5	45.7	40.2
38	31	28.6	50.3	61.1	63.4	61.1	56.1	53.2	50.5	49	45.9	40.2
35.6	29	28.4	49.9	60.8	63.8	60.9	56.2	53	50.6	49	45.8	38.8
33.2	28	28.3	49.5	60.7	63	60.1	55.1	52.4	50	48	44.4	37
33.8	28.1	28.4	50.5	60.3	63.2	59.4	55.2	51.2	48.1	47.4	43	35
33.9	30.3	28.6	50.8	58.6	62.4	59.4	56	50.9	47.8	46.1	42.2	34.5
33	27.4	28.4	50.9	59.4	60.9	60.7	55.5	49.8	46.7	46.4	42.4	34
34	27.4	28.3	51.1	59.8	61.6	61.3	55.3	48.7	47.2	49.1	43.5	33.8
34	27.3	28.3	49.3	60.1	62.8	61.5	55.7	49.3	47.8	50.2	44.9	34
34.8	28.1	28.4	50.1	59.4	64.8	60.5	55.1	50	48.5	51	45.9	34.5
36	28.5	28.4	49.9	59.7	65.8	62	56.5	50.6	50.6	52	47.2	35.5
38.6	31.5	28.9	50.8	60.7	68	61.9	57.2	52.5	51.6	52.9	47.7	38.1
43.2	38.8	31.4	50.7	61.1	67.5	61.7	57.9	53.5	52	53.4	48.5	41.9
43.5	39.1	32.9	50.8	63.6	68.5	64.5	57.6	53.4	51.7	53	48.1	43
43.2	38.2	32.2	51.8	62.7	69.7	64.4	57.4	53.3	51.3	51.8	47.5	43.2
44.6	38.1	30	52	61.9	72.7	73.9	59.6	54.1	51.4	50.8	47.8	44.3
39.3	34.4	28.8	51.9	60.7	72.4	76	59.8	55.9	50.9	50.4	47.5	43.9
37.6	32.9	28.6	52.7	59.9	68.6	76.2	59.2	55	50.2	49.7	46.3	41.5
38.2	32	28.6	52.6	60	66.3	74.9	57.2	53.5	49	48.7	45.6	39.6
37.9	30.8	28.5	50.8	59.6	64.8	72	55.6	52.3	49.7	48.8	45.2	38.7
39.4	33	28.4	52.8	57.5	62.3	69	55.9	52.5	50.4	48.8	46.2	39.1
39.3	32.5	28.4	52.6	58	62	67.1	58.2	53.4	52.3	49.4	46.3	39.4
39.4	32.5	28.6	52.3	58.8	63	64.7	58.4	55.7	53.1	49.8	46.7	39.5
39.1	31.8	28.6	52.4	59.3	64.5	62.1	59.6	57.4	53.1	49.8	46.5	39.3
40.8	33.4	28.7	51.9	58.8	64.9	60	60.8	59.7	53.4	49.8	47	40.4
42.4	34.1	28.9	50.8	58.4	63.9	61.7	60.6	59.2	55.5	50.6	47.6	41.7
40.6	32.8	28.6	48.9	58.6	64.8	61.3	60.2	58.5	55	50.6	47.5	41.7
40.6	31.9	28.6	49.7	59.4	63.8	60.4	59.6	56.9	53.1	50	47	41
40.5	32.6	28.6	48.7	59.5	65.4	60.3	58.6	54.8	51.6	49.8	46.8	40.7
41.5	33.2	28.7	51.6	58.7	65.5	61.7	58.5	53.7	50.6	49.5	46.4	41.2
40.9	31.2	28.5	51.2	57.4	68.3	63.2	58.8	53.4	50.4	49.3	46.8	41.3
39.2	30.1	28.5	50.5	57.5	68.8	63.3	58	52.4	50.9	49.8	47.3	40.9
40.1	30.6	28.5	49.8	57	68	62.7	56.6	51.5	50.4	49.4	46.9	40.2
40.6	31.1	28.6	49	58.1	65.8	64.4	56.2	50.9	50.2	49.4	46.3	40.5
41.4	31.7	28.7	51.2	58.4	64.2	64.8	55.8	50.4	51.6	49.8	47	41.1
42.2	32.2	28.8	51.5	57.8	65.5	64.2	57	52.5	52.6	51.6	49.3	42
43	33.4	28.8	51.4	58.5	64.5	64.4	56.9	53.5	53	53	50.7	42.7
43.1	34.3	29.5	50.8	57.9	64.4	63.1	56.2	53.8	52.8	53.1	50.7	43.1
43	34.9	30	50.1	57.5	62.4	63.8	56	56.9	52.2	52.7	49.9	43.2
44.2	35.2	29.7	49.4	59.5	62.7	63.7	57.4	57	53.4	53	50.1	43.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
45.4	38.9	30.5	50.1	59.1	62.5	61.6	59.7	58.1	56.3	54.1	50.9	44.8
48.9	42.9	32.6	51.1	58.5	61.7	61.7	60.9	59.1	58.6	56.6	54.2	48.2
52.8	46.1	35.5	50.4	58.2	63.1	61.6	62.8	62.5	61.3	60.5	57.5	51.8
55.2	49.1	38.6	50.1	61.9	63.6	63	68.1	65.7	65.3	64.4	59.2	54.3
52.6	45.8	35.6	50.9	61.9	64.4	64.9	68.4	66.1	65.1	64.4	59.3	54.6

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
27.7	28.4	50.7	58.3	61.9	59.3	54.9	49.1	46.1	43.7	40.1	32.7	26.9
27.8	28.4	52.2	58.2	61.9	60.2	54.9	48.6	45.4	43.8	40	32.3	26.8
28.1	28.4	53.5	58.1	62.1	59.7	54.9	48.6	45.6	44.2	40.5	33.1	27.5
28.4	28.4	52.7	58.8	64.4	58.7	55	49.3	47	46.1	42.7	34.4	27.9
29.6	28.5	52.9	58.3	65.7	59.2	55.7	52.2	48.8	49.9	45.8	36.2	28.4
30.5	28.6	54	57.8	64.8	59.7	57.7	53.6	50.8	52.6	46.7	37.3	29.6
31.6	28.9	52.3	58.4	63.7	61.5	57.9	54.2	51.6	53.5	47.5	38.4	30.5
32.2	29.1	52.3	59.2	63.3	63.9	58.1	54	51.8	54.5	48.7	39.4	31.7
39.1	34.2	50.8	59.2	63.5	63.8	58.4	54.2	52	54.8	49.9	41.1	32.2
42.1	36.7	51.4	64	69	63.7	59.6	56.2	53.7	56.2	52.2	46.4	39.2
43	37	53.1	64.2	69.1	63.9	60	56.4	54.1	56.2	52.1	47.7	42.1
42.8	36.7	54.1	62.6	68.4	63.7	59.8	56.3	53	54.9	50.9	46.9	41.4
41.4	35.2	54.2	61.5	68.2	63.6	59.8	56.4	52.6	53.7	50.1	45.8	39.6
39.6	33.3	54.1	60.9	67.1	63.9	60.5	57	52.7	53.4	50.1	45.6	38.7
38.7	31.8	55	62	67.2	62.3	61.1	56.6	52.9	53.5	50.6	45.3	37.6
37.7	30.7	55.2	61.5	68.3	62.1	61.5	55.6	53.1	54.3	50.3	44.3	36.9
37	30	54.7	61.7	68.3	62.5	59.8	54.8	52.6	53.6	50.4	44.3	36.7
37.8	30	52.6	62.9	66.8	62.6	59.2	54.8	52.6	53.2	50.5	44.6	36.8
38.2	30.1	52.6	61.5	67.1	62.9	58.5	54.9	53.1	53.1	50.4	45.3	37.9
42.2	30.9	53	62.6	67.8	64.5	58.4	55.2	53.4	53.1	50.3	45.6	38.2
47.6	32.3	52.9	62.2	69	64.9	60.2	57.1	55.5	55.3	53.1	48.8	42.2
49.3	36	52.8	61.1	71.3	66.2	62.7	59.9	58.5	59.6	55.9	52.4	47.6
49.4	36.5	52.4	60.9	68.9	71.6	67.6	64.3	62.5	62.1	59.1	55.2	48.8
48.8	35.9	51.7	61.7	66.5	76.3	67.6	64.7	62.3	62	58.8	54.6	48.2
48.2	35	51.9	63.9	65.9	76.5	66.4	62.9	60.9	60.8	57.9	52.7	46
46	33	50.7	62.8	64.8	73.3	64.5	60.3	58.8	58	54.8	49.6	42.6
42.6	31.2	51.6	63.5	65.8	70	63.1	58.5	57.6	56.4	52.5	47.2	39.9
39.9	34.5	53.2	63	71.2	67	62.7	57.9	55.8	54.3	50.5	45	38
38.3	32.4	52.4	63.7	68.1	65.1	62.1	56.5	54.4	53.1	49.2	43.5	36.5
38	30.6	51.3	63.1	66.8	63.8	61.8	56	54	52.5	48.7	43.1	36.2
39.4	30.4	51.4	60.4	64.6	62.8	60.7	56.9	54.9	52.5	49.6	44.3	37.9
41.6	32	51	59.6	63	62.1	60.6	58.3	56.4	53.2	50.3	45.1	39.4
43.4	33.3	50	59.7	61.8	61.3	62.7	59.3	58.1	55.5	52.3	47.6	41.6
45.1	34.8	49.4	59.1	61.9	61.2	63.7	60.4	60.3	58.1	54.8	49.8	43.4
45.5	35.1	50.5	58.7	61.2	64.6	65.1	63.4	63	61.7	56.8	51.6	45.1
45.1	34.9	51.1	61.1	62.3	64.8	64.4	62.3	61.4	61.6	55.7	49.9	43
42.9	33.7	51.6	61.8	62.9	63.5	62.7	60.7	58.3	58.4	52.9	46.9	39.8
39.7	31.7	52.5	61.5	64.8	63.6	61.1	57.7	55.1	55.2	50	43.4	36.3
36.3	30.1	52.2	59.4	65	61.8	60.4	55.5	52.3	52.3	47.7	40.3	33.5
33.5	29.2	52.3	58.2	65.5	60.4	58.8	53.5	50	49.9	45.9	38.1	31.3
31.3	28.8	51.8	58.4	67	59.5	57.7	52	48.7	48.2	44	35.9	29.7
30.7	28.7	51.7	58.2	64.7	59.2	56.9	50.8	47.7	47.1	42.8	35.5	29.6
29.6	28.7	50.5	58.2	63.2	58.9	56.9	50.2	47.5	46.7	42.6	35.5	29.3
30	28.6	50.4	57	61.7	59.8	57.3	50.3	48.4	47.2	43	36	29.4
35.6	31.8	50	57.9	61.6	60.2	56.7	50.9	48.7	47.4	44.3	37.5	30
36.2	31.7	50.9	57.4	61.3	60.5	56.5	52	50.5	49.6	46.9	40.6	35.5
39.7	33.2	50.5	59.2	61.2	60.8	56.5	54.5	53	53.8	50.6	43.6	36.2
40.4	33.6	51.1	60.2	65.5	63.9	62.4	58.1	56	58.6	53.5	46.7	38.7
38.7	32.2	51.1	60.3	65	66	62.2	57.7	54.5	56.1	51.4	43.6	35.7
35.7	30.7	55.3	62.2	68.6	64.4	59.9	55.4	52	53.4	49	40.5	32.7
32.7	29.5	53.9	60.7	67.4	63.3	58.5	53.8	50.2	51.2	47.2	38.2	30.6
30.7	29	52.4	59.4	66.1	62.4	57.5	53	48.8	49.9	45.8	37.3	30
31.3	29	49.9	58.6	64.7	62	57.4	52.3	48.4	48.9	44.9	37.2	30.4
35.4	30.3	49.8	58	63.3	60.7	57.2	51.4	48.1	48.3	44.2	37.1	30.1
34.8	30	48.3	57	63.2	61.1	56.1	50.8	47.6	47.2	44.2	37.3	32.7
32.6	29.2	48.1	57.4	64.8	61.2	55.5	50.8	47.5	46.9	43.9	37.2	31.6
32.6	28.9	50	57.1	64.2	60.9	55.5	51.8	48.5	47.5	44.5	37.9	31.6
32.2	28.8	48.8	57.3	63	60.9	55.4	52.5	49.1	47.3	44.4	38.8	31.7
33.6	28.9	49.3	60.1	61.7	61	55.6	52.7	49.1	47.4	44.4	39.1	32.1
33.6	29	48.9	59.9	62.5	60.4	55.2	52.8	49.7	48.5	45.8	38.8	32
32	28.7	49.4	59.4	62.7	59.9	54.7	52.3	49.9	47.9	44.4	37	30.4
30.4	28.5	48.5	59.5	62	59.1	54.4	51.2	48.1	46.9	43	35	29.1
29.1	28.5	48.4	58.6	61.6	58.8	54.1	50.4	47.1	46.1	42.2	34.2	28.4
30.2	28.6	49.8	57.8	60.1	58.5	54.8	49.8	46.7	45.4	41.6	33.3	28
29.7	28.5	49	58.5	59.7	59.2	54.3	48.7	46.1	45.4	41.6	33.4	28.5
28.5	28.4	48.9	58.3	60.2	60	54.1	48.4	46.4	46.5	42.4	33.5	27.8
27.8	28.4	48.5	58	60.5	60.5	54.7	48.7	47.1	49	43.5	33.9	27.4
27.8	28.4	48.6	58.3	62.9	59.3	54.3	49.1	47.4	49.9	44.7	34	27.5
28.3	28.4	48	57.2	64.8	59.2	54.8	49.7	48.5	51	46	34.5	27.8
31	28.8	48.1	59.6	65.3	61	56.1	50.4	50.3	52	47	35.5	28.3
37	30.6	49.9	58.9	66	60.4	56.9	52.4	51.6	52.9	47.7	38.2	31
38.3	32.2	49.2	60.8	65.9	61.7	57.1	53.1	50.9	51.8	47.2	41.9	37
38.5	33.2	49.7	61.5	68.4	63.7	56.7	52.4	50.9	50.6	46.9	42.8	37.9
38.7	31.7	51.1	60.7	68.5	64	56.7	52.5	50.9	50.4	47	43.2	37.9
37.9	30.6	51.4	59.2	68.6	73.9	59.2	54	50.2	49.6	46.3	41.5	36
36	29.6	51	58.7	66.4	74.9	57.2	53.5	48.9	48.7	45.6	39.6	34.4
34.4	29	50.7	58.7	64.5	72	55.6	52.2	48.7	48.3	45	38.7	32.9
32.9	28.8	49.6	57.6	62.1	69	54.2	51.9	48.3	48.2	44.8	38.2	31.7
32.7	28.6	49.9	56.7	61.2	67.2	54.1	51.4	49.5	48.6	45.2	38.2	31.6
32.7	28.5	51.2	56.9	60.9	64.7	55.8	52.5	50.4	48.8	46.1	39.1	32.5
32.7	28.5	50	57.2	61.9	62.1	57.7	53.5	52.3	49.3	46.2	39.1	32.4
32.4	28.6	51.6	58	61.6	60	58.3	55.5	52.3	49.3	46.1	39.1	31.9
33	28.7	50.2	57.6	63.7	59.3	59.4	57.3	52.3	49.2	46.4	39.3	32.1
33.7	28.8	48.8	57.6	62.2	59.4	60.1	58.4	53.3	49.8	47.1	40.5	33.1
33.7	28.9	47.7	57.6	63.2	60.1	59.3	56.9	53.1	49.9	46.9	41	33.1
33.1	28.7	47.6	56.9	62.8	59.4	58.3	54.8	51.6	49.6	46.8	40.7	32.4
32.8	28.7	47.6	58	62.7	58.9	58	53.6	50.4	49.2	46.2	40.3	32.2
33.1	28.8	47.5	57.4	64.3	59.4	57.8	53.3	50.3	49.2	46.1	40.7	32.8
32.9	28.7	49.4	55.5	64.5	61.5	57.9	52.3	50	49	46.1	40.9	31.8
31.8	28.6	49.1	56.4	68	62.5	56.6	51.4	50.1	49.3	46.6	39.9	30.9
30.9	28.5	47.1	55.8	65.6	62	55.8	50.8	50	49.1	46.3	39.9	30.7
31.1	28.6	46.8	56.5	64.2	62.7	55.3	50.1	49.6	49	46	39.8	30.6
31.5	28.6	48.8	57.5	62.4	64	55.1	50.1	50	49.2	46.1	40.5	31.1
32.1	28.7	50.4	56.7	62.4	62.9	54.5	50.4	51.6	49.7	46.9	41	31.4
33.1	28.8	50.5	56.7	63.9	63	56	52.5	52.5	51.7	49.3	42	32.1
33.9	29.2	49.1	56.8	62.2	62.2	55	53.4	52.1	52.7	49.9	42.7	33.1
34.6	29.8	49	56.2	61.1	62.7	55.1	53.4	51.8	52.2	49.3	42.5	33.9
35.1	29.8	48.1	57.1	61.2	61.1	56	56	52.2	52.1	49.7	43.2	34.6

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
37.9	30.3	48.1	57.7	61.1	60.6	57.4	56.3	53.4	53.1	50.1	43.9	35.1
42	32.1	49.6	57.7	60.9	60.9	59.5	57.7	56.3	54	50.9	44.8	37.9
45.1	34.7	48.1	56.9	61.5	60.4	60.8	59.1	58.6	56.6	54.2	48.2	42
48.1	37.6	47.5	57.5	62.8	60.1	63	62.6	61.3	60.6	57.5	51.8	45.1
48.3	37.8	49.6	61	62.7	62.6	67.2	65.3	63.1	62.5	58	52.9	46.4

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.3	43.3	49.4	46.5	44.7	57.4	54	50.6	57	60.4	55.9	54.6	54.5	49.9	50.1
28.3	39.7	46.9	49	49.1	52.1	56.1	55.5	56.4	59	57.4	55.2	53.3	51.4	51.1
28.3	39.8	50.9	48.8	52.8	52.9	53.9	58	60.8	55.2	56.9	56.6	53.8	51.6	51.5
28.4	46.8	50.2	49.4	50.6	58.2	55.9	58.4	66.2	55.8	55.4	53.3	52.8	52.4	50.3
28.4	50.1	50.2	51.8	47.3	55.7	54.9	55.8	64.5	57.5	58.6	55.7	56.4	54.2	51.1
28.5	46.5	43.2	53.3	52.1	53	53.5	56.3	61.8	59	56.2	56.7	54	57.2	54
28.5	51.1	46.6	50.6	49.6	55.1	52.7	61	58.9	57.7	56.8	62.9	58.6	55.8	53.5
28.8	49.1	47.8	47.3	52.8	58.6	55.5	59.6	57.5	57	57.9	63.5	60	53.9	52
29.1	48.3	45.8	42.7	53.4	56	55.2	61	59.4	64.3	60	54.6	58.9	57.4	53.1
34.3	45.9	51.1	52.6	52	57.5	64.1	69.1	67.5	67.2	56	60.5	62.6	55.6	57.4
36.7	44.4	42.9	48.3	57.4	64.8	63.5	61.3	65.3	63	58.2	57	59.8	56.6	52.8
35.2	40.5	50.9	52.3	57.1	55.1	58	58.2	65.7	62.5	62	55.2	57.6	57.1	53.9
33.3	42.6	48.4	52.2	54.2	57.3	58.4	60.5	62.8	66.5	60.5	53.8	58.6	57.2	53.7
31.8	48.5	51.4	51.1	47.9	54.5	57.3	58	57	65.7	63.1	53.5	59	54.3	53.7
30.7	50.9	48.2	49.8	55.4	58.5	57.3	55.2	62.5	67	58.4	56	55.7	56.6	54
30	51	48.5	54.1	55.4	60.3	58.3	57.2	65.5	66.7	57.6	55.6	58.1	60.4	55.7
29.7	52.9	52.5	49.2	52.7	60.3	57.3	65.2	66.9	58.4	59.6	56.3	57.4	56	53.2
29.7	45.3	46.9	49.8	52	62.5	60.5	63.3	60.4	56.4	62.6	54.2	56.3	54.9	54.4
30	52.7	50.7	47.7	56.2	59.2	56.1	66.1	58.3	62	60	58.2	61.7	55.4	52.1
30.1	45.6	44.5	47.2	55.2	55.8	54.9	66.8	57.6	62.7	62.1	57.3	61.7	54.8	54.7
30.9	49.2	49.5	47.1	59.9	62.1	55.4	66.9	67.6	67	57.8	58	63	55.7	60.1
32.4	51.1	42.8	52.1	56.1	61.4	55.8	58.9	63.8	72.2	70.8	62.7	56.9	61.9	64.5
35.9	51.1	49.1	50.2	54.5	51.7	59.6	57.8	60.1	64.2	69.5	73.5	57.1	59.8	66
35	46.3	42.7	46.2	56.1	56.7	57.8	59.9	61.1	62.3	79.4	58.3	62.8	64.4	59.6
33	49.4	48.9	44.8	56.4	63.5	60	60.3	58.2	62.9	75.9	60.4	58.2	63.7	59.1
31.2	37.2	49.2	43.6	51.6	61.3	55.7	58.9	55.6	62.8	71.6	65.8	56.9	60.8	60.1
30.2	44.4	48.9	52.2	58	58.9	57	61	57.4	74	58.2	55.4	57.6	60.6	54.4
30.5	47.8	44	52.8	55.1	63.2	55.7	61.8	61.7	69.5	56.8	55.2	60.4	58.8	58.2
30.7	42.2	48.2	49.6	54.3	61.3	57.9	59.7	59	64.3	59	55.1	61	58.3	57.6
30	42.2	48.4	45.8	54.3	64.5	58	57.9	57.6	60.8	58.4	55.5	61.7	58	57.8
30.2	42.7	50.2	46.1	52.7	60.5	54.6	60.1	58.4	60.1	52.4	52.9	61.2	52.5	57.2
30.4	43.5	45.8	46.6	52.7	54.7	56.5	57.4	52.2	56.4	51.4	54.5	59.7	55.7	60.5
32	48	47.3	44.9	44.8	55.1	56.8	57.1	53.3	56.2	53.2	53.2	58.7	57.7	63.5
33.3	48.1	46.7	47.8	48.4	55	56.9	56.7	56.1	55.8	53.1	54.2	63.8	57.5	60.8
34.8	43.9	48	45.1	50.5	52	57.1	59.3	55.2	57.5	53.4	56.7	64.8	58.7	56.8
33.7	44.7	43.8	47.3	53	57.1	59.6	59.1	59.1	59	55.1	58.6	63.2	59.2	59
31.7	47	46.5	49.5	53.9	59.2	58.3	62.5	61.5	59	56.8	57.5	59.9	59.9	56.5
30.1	49.6	44.7	53.4	54.1	61.7	60.1	63.3	59.3	61	60.4	56.6	58.2	55.3	53.1
29.2	44.8	50.9	50.5	48	56.4	51.3	62.1	61.5	56.8	58.9	56.5	56.2	57.2	53.4
28.8	42.7	45.8	48.9	49.8	54.9	52.7	63.6	61.2	59.7	54.6	54.2	53.7	53.2	51
28.6	44.7	47.6	48.7	50.1	53.9	56.2	66.9	57.8	58	51.2	55	56.2	53.1	52.2
28.6	47.2	49.4	52.6	51.4	53.6	55.4	61.3	59.8	55.9	56	55.6	56.7	51.9	51.3
28.5	42.7	45	44.4	51.7	54.3	54.7	55	58.5	55.7	54	53.6	53.3	56.1	51.6
28.6	41.5	44.1	46.4	50.5	53.4	54.7	55.4	58.1	53.7	56.6	53.7	58.3	54.1	51.3
28.6	44.3	45.7	49.3	51.6	52	53.4	55.8	59.1	56	55.5	53.1	57.1	52.8	52.1
31.1	46.4	43.6	50	53.3	54.8	54.6	56.5	57.9	54.1	58.4	54.9	57.7	53.4	50.7
31.1	44.8	47.5	44.1	49.4	56.3	57.5	59.2	57.9	61.1	55.6	54.6	60	59.1	56.6
32.2	43	47.7	42.6	51.6	56.3	57.9	63.3	58.8	64.3	58.4	54.9	67.6	63.7	56.7
30.7	46.8	44.8	55.7	54.6	56.6	55.6	63.9	64	62.7	57	57.5	64.6	57	56.5
29.5	51.1	46.1	52.9	59.1	58.6	60.8	67.1	64.5	66.9	60	55.4	59.4	51.9	53.2
29	47.5	54.5	51.4	53.1	59.3	59.2	61.3	56	62.7	57.4	56.5	59.7	52.4	52.3
28.9	48.2	43.5	50.1	48.7	50.9	54.7	56.9	58.5	63.4	57.1	54.2	58.2	52.7	52.7
28.9	49.9	47.7	46.6	52.1	50.5	52.7	57.7	53.5	61.2	57.9	52.8	57.6	56.6	51.7
28.8	45.4	43.8	45	53.2	55.2	52.4	59.4	57.5	59.1	54.4	54.4	56.9	53.9	51.9
29.2	44.8	45.9	44.8	53.4	55	52.6	57.8	61.9	57.9	56.4	57.7	58.4	50.6	50.5
28.8	42.2	45.7	42.8	51.8	52.8	53.9	54.2	64.4	62.1	52	58.8	57.5	49.9	50.5
28.8	43.2	45.8	49.8	50.4	55.3	54.9	57.7	60.2	55.9	54.3	57	56.5	50.8	51.2
28.7	40.2	46.4	44.4	51.8	52.1	53.5	58	59.3	56.7	57.4	55	55.9	50.9	52.1
28.7	43.8	46.3	44.7	47.8	54.3	56.4	56.5	54.6	56.2	55.1	57.7	56	51	50.7
28.7	44.5	44	42.6	52.4	60.1	54.2	59.2	57.6	59.1	53.9	57.2	54.1	51.6	52.7
28.5	44	45.4	43.3	56.5	55.3	56.7	57.4	59.2	59.1	54.7	57.4	52.3	49	52.2
28.4	44.9	44.4	43.3	53.9	57	55.1	56.9	58.1	55.7	53	54.7	53.1	49	50.6
28.4	41.3	47.3	46.3	49.4	55.9	56.4	57.2	58.4	55.3	55.3	53.8	53.6	50.7	49.1
28.3	44.8	41.2	48.8	50.5	55.6	53	56.3	55.9	56.3	54.1	55.1	55.5	51.3	51.7
28.4	43.6	43.8	46	49.4	53.3	56.8	53.6	55.3	56.9	57.3	54	57	49.1	48.7
28.3	43.4	45.8	49.1	50.1	54.8	55.9	57.3	54.1	56	58	51.9	56.8	50.7	48.9
28.3	43.3	44	43.7	47.3	56.6	56.4	58.4	57.4	56.2	59.4	53	53.6	51.4	49.3
28.3	40.2	45.1	46.7	51.8	54.8	56.7	57.5	60.9	60.2	55.3	54	54.2	50.6	51.4
28.4	42.2	42.9	46.5	47.4	50.7	54.8	60.2	64.5	56.3	58.7	52.3	55.5	51.2	52.5
28.4	42	40.7	46	52.2	54.5	57.4	58.5	67.6	56.5	59.4	55.7	53.5	52.6	53.1
28.8	42.7	44.8	49.8	52.6	57.1	56.6	61.1	60.9	58.5	56.8	52.6	56.7	55.8	52.3
30.7	39.7	42.3	47.9	47.8	55	61.8	64.2	58.6	62.9	62	54	59.3	53.9	52.2
31.7	43.1	44.9	44.4	50.8	61	57.6	67.5	53.1	60.4	61.5	55.9	58.2	50.8	53.3
30.6	39.5	48	48.9	53.6	55.8	59.1	67.2	63.7	67.6	73.2	63.5	61.8	59.6	52
29.6	43.1	47.4	47.9	54.2	54.2	55.2	59.5	63.9	67.8	76.3	67.2	53.4	56.9	54.2
29	48.8	45.2	48.1	52.3	50.4	56.9	55.9	55.6	57.6	67.9	74.7	54.9	50.5	52.3
28.8	45.3	47.9	48.4	49.6	55.3	57.1	61.9	57.9	59.5	58.5	69.4	53	49.9	49.4
28.6	47.3	47.2	46.3	50	52.4	54.9	55.4	55.3	57.1	64.4	62	51.4	51.9	48.5
28.5	45.2	46.2	49.5	49.4	54.3	53.1	54	56.3	56.1	60.7	63.6	54.2	49.9	51.3
28.4	43.3	43.3	48.6	47.9	50.7	56.7	56	55.8	56.8	55	60.2	52.9	51.6	52.2
28.4	47.9	46.6	42.8	47.8	46.5	55.7	57.2	61.4	56.8	57.5	56.3	53.3	51.1	52.4
28.5	47.7	48.6	48.1	50.1	55.4	52.7	57.2	57.2	61.9	54.2	52.6	52.3	53	52.2
28.5	44.4	48	46.6	51.6	56.5	53.9	58.5	59.3	61.7	56	53.6	55.1	54.5	54.7
28.7	41.7	50.1	43	51.3	49.1	56.5	57.8	52	54.3	59	54.9	58.2	54.7	52.7
28.7	41.2	46.6	40.6	43.6	54.3	54.9	58.6	57.4	61.6	52.7	54.8	54.6	54.1	53.5
28.7	43.3	46.6	46.7	51.5	52.3	50.6	55.3	55.3	58.5	55	54.9	54.4	52.3	55
28.6	44.7	39.2	46	52.9	54.1	57.8	58.5	58.7	63.7	54.4	54.4	53.2	55	53.7
28.7	42.4	43	43.4	49.1	54.6	54.6	54.4	57.9	62.1	54.7	53.2	59.9	51.4	53.7
28.6	42.9	40.2	44.7	52.3	49.3	48.7	56.3	63.6	60.5	60.2	55.7	57.3	56.6	52.8
28.5	41.8	44.6	43.1	49.7	48.8	55.5	59.3	61.2	68.2	58.5	55.6	56	51.5	52.3
28.5	50.5	47.3	40.8	47.4	52.6	51.5	59.4	59.5	59.3	60.9	54.5	54.4	53.6	47.9
28.5	38.5	49.2	42.8	44.6	52.7	55.9	58.3	54.5	60.4	64	53.6	52.3	53.7	50.2
28.6	37.3	40.6	43.3	50	53.4	54.8	57.7	55.4	56.7	60.4	62.9	52.9	51.2	52.8
28.6	36.1	44.7	45	52.3	53.8	51.8	58.2	63.2	54.9	55.8	61.4	54.3	54.3	51.3
28.7	45.2	43.9	48.9	48.1	53.6	55.5	59.2	56.2	59.6	61.1	57.3	55	53.6	48.9
28.8	49	49.2	45.7	44.9	53.4	54.4	57.7	55.7	58.1	56.4	58.6	54.6	50.5	50.2
29.2	39.1	43.5	42.8	48.1	52	51.8	56.1	56.6	55.1	57.3	56.7	61.7	47.9	49.6
29.7	42.7	43.9	45.6	50.4	52.1	58.3	56.6	54.6	58	56.4	52.3	56.5	50.3	51.5

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
29.8	43	47.7	46.3	50.8	51.5	54.5	54.8	59.1	55.9	56.9	55.6	57.3	54.3	56
30.3	42.2	39.8	46.2	53.5	51.8	53.5	55.5	54.7	57.5	56.4	55.7	58.5	57.3	57.8
32.1	37.9	43.7	45	50.2	54.8	51.6	52.8	54.4	61.4	57.3	53.8	53.5	60.5	57
34.7	46.6	44.1	42.8	52.1	53.4	59.7	58.6	59.8	58	57.4	56.5	59.7	67.3	56.2
36.1	43.3	46.6	46.3	52.3	54.5	59.2	58	59.2	56.7	56.9	61.3	61.6	65.2	57.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
50.1	43.4	45.3	41.4	41.6	42.4	39	39.6	38.7	38.8	36.8	34.3	32.8	29.4	26.8	24.3
47.6	43.7	44.4	42.2	40.5	41.2	40.1	40.6	39.8	38.9	37.6	35	33.1	30.1	27.8	25.3
46.9	44.6	46	42.7	41.1	42.7	43.2	41.7	42	41.4	40.9	37.6	34.9	32.4	29.8	26.7
50.4	48	49.5	46.4	43.8	44.5	46.1	46.1	46.7	46	44.7	40.8	38	34.2	31.7	28.1
53.2	49.5	50	47.8	44.5	46.2	47.7	48.7	49.6	48.2	45.4	40.8	38.5	35	32	29.2
52.9	51.2	51.2	48.4	46.2	46.8	47.4	49.2	49.9	47.8	45.8	41.4	38.9	36.2	33.6	31
52.4	50.4	50.7	47.8	46.6	47.6	48.6	50.4	50.5	48.9	47.6	42	39.4	37	34.5	32.6
54.1	50.4	50.9	47.7	45.3	46.7	48.9	50.3	50.9	50.1	49	44.1	41.1	38.2	37.9	32.7
52.8	52.1	52.8	49.1	48.4	49.2	49.9	51.5	52.3	51	50.6	46.5	44.5	44.5	42.7	39.7
55.3	54.5	54.2	49.7	48.5	50.4	52.3	52.6	53.3	51.2	50.1	47.5	46	44.5	44.2	41.7
55.1	52.1	51.5	50.7	48.8	48.9	49.9	51	52.4	50	48.7	46.8	45.6	44.7	43.5	42.4
52.7	55	51.2	48.2	47.9	47.4	47.7	49.6	49.6	49.2	46.7	45.5	43.5	42.3	41.4	40.3
55.2	56.1	52.1	48.8	48.2	47.7	46.5	48.3	47.9	48	45.7	44.6	43.2	41.8	40.4	38.9
58.8	53.8	53.1	48.2	48.1	49.5	48.3	49.7	47.6	47.9	47.3	46.9	45.2	42.1	41	38.7
58	54	52.8	47.7	48.3	47.9	48.9	51	49.8	48.1	46.8	45.7	44.6	42.2	40.3	37.8
53.2	51.9	50.2	48.6	48.2	48.3	48.5	50.6	48.8	49.6	47.1	44.8	43.5	40.3	38.5	36.6
50.7	51.8	48.2	48.5	47.5	48.4	46.3	46.6	48.8	49.8	47.4	45.7	44.7	41.2	40.2	37.2
50.9	51.3	49.8	50.3	49.2	48.8	48	46.8	48.3	49.6	46.6	45.5	44.9	42.1	40.6	39.2
51.6	52.8	48.4	49.5	49.1	49.6	49.2	46.5	49.6	48.8	46.8	45.3	44.7	42.1	41.1	40.2
54.8	53.9	50.5	50.8	51	51.7	51	50.5	51.6	50.7	49.7	48.3	48.4	44.6	44.7	44.4
56.8	57.5	55.1	53.7	54.6	54.7	54.9	55.3	54.9	55.9	52.4	52.6	50.3	48.1	48.2	48.7
61.5	62.4	60.5	57.5	58.8	58.9	58.3	58	57.2	60.2	56.4	55.8	54.5	52.4	52.7	50.5
66.1	62.4	58.5	57.9	58.6	58.7	58.7	57.4	56.1	58.4	54.9	54	53.7	51.7	50.2	48.8
63.6	63.6	58	58.2	57.9	57.1	57.2	57.3	56.4	58.4	56	54.1	53.9	50.9	48.8	48.6
59	59.2	56.3	54.2	55.8	54.5	56.2	55.9	55.1	55.7	53.6	52.2	50.4	48	46.5	45.2
54.4	54	54.5	50.9	51.2	53.3	53	52.2	49.7	48.4	46.7	45.7	44.6	42.5	39.4	37.6
54.6	52.2	51.7	51.9	51.4	53.2	51.6	52.7	49	47.8	47.2	45.1	43.2	42	39.6	37.3
54.5	55.1	51.2	52.5	48.4	51.2	49.2	49.4	48	46.3	46.2	43.1	41.4	40.3	38	35.4
52.2	50.5	52.1	49	47.4	48	48.6	48.6	47.5	46	45.2	43.2	41	39.7	36.7	34.5
56	52.2	52.6	50.5	50.7	50.3	48.7	47.7	47.4	46.3	45.9	45.1	44.2	41.7	38.8	37.5
54.1	52.9	54.7	52.8	53.5	52.7	48.7	49.3	48.6	47.1	47.3	45	44	42.5	40	38.1
56.3	54	54.9	56.9	55.2	54.1	50.8	51.7	50.9	50.4	50	47.1	46.6	45.5	43.1	41.4
56.5	56.9	55.9	54.5	57.3	56.7	55	54.8	54.3	53.8	52.4	50.3	48.7	47.6	45.6	43.4
61.5	56.8	61.8	58.3	57.8	61.5	56.5	59.8	57.5	55.2	55.5	51.1	50.1	49.3	47	44.9
63.3	58.6	59.8	58.6	57.5	61.5	58.9	62.9	57.5	55.2	55.1	51.8	49.8	48.8	47.4	45
59.3	56.9	58.9	54.6	56	54.7	54	57.8	55.1	52.6	51.4	49.7	47.4	46	43.5	41.3
56.7	54	57.1	51.7	50.4	49.4	49.3	49.8	50.5	48.8	47	45	43.2	41	38.4	35.3
54.6	48.7	49.9	47.1	46	46.1	45.1	46.1	46.2	45.5	43.9	40.7	37.5	34.3	32.1	29.8
54.3	50.1	49.2	45	45.5	44.5	43.2	43.9	44.5	43.6	43.4	39.6	36.1	33.3	31.2	29.2
53.9	48.9	47.2	43.5	43.3	43	42	41.9	43.7	42.2	41.4	39.6	35.9	33.2	29.8	29.2
54	47.6	46.9	42.3	42	44	41.6	42.2	42.5	40.9	39.5	37	33.7	30.8	28.5	26.7
51.2	46.5	46.3	42.9	43.3	41.8	41.5	42.3	41.5	40.7	39.1	36.7	34.2	32.3	30.5	28.4
51.6	47.2	44.6	43.2	44.4	45.4	41.7	43.8	41.6	40.9	39.9	37.9	35.1	33.1	30.8	28.4
51.1	47.2	46.5	43.2	45.1	44.4	43.1	43.5	42.7	42.7	41.9	39.8	37.1	35.8	32	29.2
50.5	48.2	46.1	45.2	47.1	46.2	45.5	45.3	46	45.2	44.1	43.1	40.9	38.5	36.1	33.9
52.3	49.8	50.1	50	49.2	48.7	48.8	49.4	50.2	49.8	48.7	45.8	42.5	40.3	40.3	37.3
54.6	52.5	55.8	54.2	53.3	52.4	52.3	55.3	55.7	53.9	52.4	48.7	45.8	44.6	43.4	42.8
59.2	53.1	56.5	54.2	53.6	52.3	51.2	54.3	55.2	54.3	51.9	49	45	42.7	41.2	42.5
53.6	49.6	54.7	49.7	48.4	49	47.9	47.5	49.5	49.3	46.3	43.1	40.4	36.7	33.3	32.6
54	45.8	50.7	46.2	44.3	45.6	45.5	45	45.8	46.3	44.5	40.9	37.9	33.7	30.1	30.1
52.6	48.4	48.7	43.8	42.8	45.4	43	42.6	44.7	45.5	42.9	40.4	37.3	33.1	30.5	27.9
50.6	49	48.3	44.3	43.1	43	42.6	42.9	43.9	44.9	42.2	39.4	36.1	32.7	32	30.3
51.5	47.8	48.1	43.9	44.4	44.2	42.3	42.6	44.2	43.7	41.6	39.1	37.4	35.7	35	32.2
52.1	46.6	46	43.9	43.3	44.9	42.1	42.7	42.9	44.3	41.3	41.9	40.2	34.6	33.9	33
49.2	47.1	46	43	42.3	43.3	41.6	41.2	41.4	42	40.1	37.3	35	31.7	31.3	29.8
48.2	48.7	47.4	44.1	43.6	44.2	43.6	41.7	43.2	43.4	41.6	38.9	37.1	34.1	33.7	31
49.2	49.4	48.9	45.3	44.9	45.7	43.9	44	43.7	43.5	41.8	40.2	37.6	36	35.5	33.5
51.5	49.4	49.3	46	43.6	45.8	42.8	42.1	42.6	41.8	41.1	39.2	37.9	35.5	34.3	32.4
50.2	50.8	48.6	45.5	44.8	46.1	45.6	44.1	43.8	43.8	43.6	40.6	39.3	36.1	36.1	34.8
46.1	48.5	47.6	45.8	43.4	46.7	45.5	44.2	45	43.9	43	40.6	38.7	34.5	33.2	31.4
48.2	47.5	48.8	44.7	43.3	47	44.7	42.3	43.6	41.6	40.2	38.9	35.8	32	30.7	28.7
49.9	47	46.3	43.4	41.8	42.5	41.3	43.3	41.6	41.4	39	36.4	33.7	29.9	28.2	25.8
51.5	45.7	44.7	44.3	43.4	43.1	39.7	39.6	40.8	39.2	38.5	36.6	36	31.5	27.5	25.2
49.2	46.4	44.7	41.1	41.5	42.5	39.6	39.4	41	39.1	38.7	36.1	32.3	30.1	28.8	28
47.4	45.2	44.1	41.3	40.8	42.4	40.3	40.6	42.6	41.7	39.9	37.6	33.5	30.5	27.3	25.3
49.8	44.5	43.6	42.7	41.3	43.7	42.9	44.8	46.4	43.8	41.6	38	36.4	31.6	28	25.5
50.9	45.1	45.3	43.5	43.1	43.7	43.7	45.2	47.5	44.6	43.4	40	35.4	31.7	28.3	25.4
49.6	47	45.3	44	42.9	44.9	43.7	45.2	48.1	45.5	44.8	39.8	35.9	32.4	29.1	26.2
51	45.7	45.9	45.6	43.5	45.7	48.3	47.3	48.8	47.1	45.5	42.6	37.2	33.7	30.4	26.9
50.9	47.5	49.8	47.3	47.6	46.9	47.2	47.9	49.3	47	45.2	42.6	38.6	36.2	32.9	30.6
51.4	48.3	50	48.5	47.8	47.7	46.7	48.8	49.7	47.9	45.8	43.5	40.6	39.2	38.8	37
49.7	48.9	48.4	47.5	46.2	45.7	45.7	45	47.4	46.2	43	41.9	40.2	38.9	38.8	38.6
50.1	48.7	47.6	45.4	46.6	47	45.4	45.1	45.6	44.9	43.2	41.9	40.4	39.5	38	38.2
49.5	51	50.5	47.7	45.3	46.4	45.9	45.8	46.2	45.3	43.9	43.7	41.8	41.5	39.4	38.2
49.9	53.7	52.7	46.7	45.5	45.3	44.9	44.2	45.3	44.3	42.6	40.8	38	36.1	34.4	32.8
48.8	45.9	50	46	43.4	43.7	42.9	42.5	43.5	43.3	42.5	40	37	34.2	32.2	31.2
48.4	48	46.6	45	42.6	45	43.3	42	44.5	43.6	41.9	39.1	37.3	35.3	33	31.2
45.9	48.7	48.1	43.7	43.1	44.8	45.3	42.5	44.4	44.3	42.3	40	37.3	35.1	32.5	30
51	47.8	47	45.6	46.3	45.9	45.6	42.8	44.4	44.9	44.2	41.1	38.8	36.4	34.3	32.3
57.1	50.6	49.8	46	48.7	48.2	48.3	45.2	45.2	44.3	43.4	41	38.8	35.9	34.6	32.2
56.1	54.7	49.8	46.8	49	47.9	48.6	45.4	45.5	44.2	44.6	41.1	39.2	36.4	34.4	32.2
58.7	55.9	50.6	49	46.9	47.9	46.9	44.6	44.6	43.6	43.6	40	40.3	35.8	34.6	31.1
60.7	59.6	50	48.7	46	49.8	50.3	45.3	45.4	44.4	44.7	40.9	41	37.8	36	32.6
55.5	57.4	49.5	49.4	48.5	48.7	54.2	45.7	45	45.1	45.4	41.5	41.2	39.6	37.4	34.5
55.7	54.9	48.4	47.4	46.1	47.5	46.9	45.3	44.8	44.7	43.9	40.6	40.4	37.6	35.6	32.3
51.7	50.9	47.3	47.1	45.4	46	45.4	45.6	44.6	44.8	43.7	40.2	41.3	37.9	34.9	31.6
50.9	49.1	47.3	45.2	44.2	45.7	44.2	44.1	44.2	43.5	43.1	39.6	39.4	37.9	34.8	32.2
52.7	49.8	48.4	46.1	45	46.2	44.6	45.7	45.3	43.7	43.1	40	40	39.3	35.7	32.4
50	49.4	46.8	44.8	44.2	45.3	45.1	43.5	44	44.9	43.2	42.1	41.2	38.7	35.5	31.9
47.1	48.2	46.5	44.4	44.9	46.4	46.6	45.8	45.2	44.2	43.8	42	39.7	36.4	34.3	31
47.8	45.6	46.8	43	44	44.1	46.9	44.3	44.2	44	42.2	41.1	40.3	37.6	35	31.3
47.3	47.5	45.7	42.5	43.8	44.9	46.6	45.4	44.2	42.6	42.8	40.7	39.6	38.2	35.6	31.9
46.9	45.5	46.4	44.6	46.2	46.9	49.1	47.3	44.6	44.3	44.6	42.4	40.9	39.3	35.6	32.6
47.7	48.8	49.6	46.7	47.1	47.5	49.5	48.6	46.8	46.6	46	45.7	43.8	40	36.4	32.6
47.7	49.2	49.5	48.7	47.6	48.1	48.8	48.2	49.3	48.4	48.4	46.4	43.8	40.7	37.4	34.1
48	49.6	50.8	47.1	47.9	46.2	45.6	47.9	48.7	47.7	46.4	44.4	43.2	40.9	37.7	34.1
53.6	53	54.5	49.1	49	46.8	46	48.1	47.6	46.3	46.4	44.1	42.6	41	37.3	34.3
56.3	48.8	53.3	49.2	49.3	50	47.7	48.6	48	48.1	47.1	44.9	43.7	42	39	35.1

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
55.5	54.4	55.3	53.1	54.4	52.8	48.9	51.2	49.8	48.4	48.3	46.1	45.5	42.9	40.1	37.1
52.2	53.1	53.7	54.9	56.5	55.5	51.9	52	52.4	52.7	51.9	49	48.4	45.6	43.4	41.8
52.1	59	59.1	56	56.4	59.3	55	57.4	56.9	55.3	55.9	52.6	51.2	50.2	47.3	45.3
61.6	58.5	62.4	63.6	58.9	59.3	64.1	62.6	60.9	57.4	56.7	54.6	53.2	52.3	49.8	48.5
61.9	58.5	64	59.7	57.5	57.4	54.4	57.1	57.3	55.2	54.9	52.6	50.3	49.3	47.4	46.1

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
21.8	21.5	21.6	22.7	23.6	24.6	49.1	48.9	47.8	52.5	57.1	56.5	55.9
24	23.4	22.1	22.6	23.6	24.4	46.3	49	48.5	50.1	57.1	55.9	55.5
24.5	23.1	21.9	22.6	23.6	24.6	43.3	50.3	49.3	52.5	54.7	56.2	57.2
25.2	23.4	22.5	22.8	23.5	24.6	46.2	50.7	50.2	51.5	57.5	55.7	58.4
27	25	22.7	22.9	23.7	24.5	49.8	50.4	51.6	51.1	57.3	55.7	57.5
28.2	25.4	23.3	23.3	23.7	24.5	48	50.1	53.7	51.8	56	54.8	56.8
29	26.9	24.8	24.3	23.9	24.5	50.3	47.4	52.1	51.8	55	54.4	60
29.3	27.7	25.3	24.9	24.1	24.6	50.7	47.8	51.2	52.2	57.6	55	60.1
36.3	35.8	33.5	33.1	28.6	26.4	49.2	47.9	48.9	53.6	57.5	55.2	61
39.6	38.8	36.4	36.1	31.2	28	49.3	50.4	51.6	54.1	57.5	63	68
39.6	38.8	36.1	35.4	29.6	26.9	47.2	50.1	51.7	56.3	63.3	64	68
37	35.9	33.1	32.5	26.8	25.7	45.6	50.5	52.3	57	62.5	63	65.1
35.3	33.6	30.3	29.6	25.3	24.9	43.5	51.3	52	57.3	59.2	61	62.2
35.2	33.3	29.3	27.5	24.6	24.8	47	50.7	52.1	55	58.1	60.1	61.2
34.5	31.6	28.4	26.4	24.2	24.6	49.9	51.2	51.8	54.5	58.4	58.3	59.6
34.2	30.5	27.4	25.3	24.4	24.6	50.8	49.3	53.1	55.1	60.6	58.8	57.7
35.1	29.9	27.1	25.2	24.6	24.6	52.7	51.9	52.9	54.8	60.3	57.9	64.3
36.5	31.4	28.6	25.8	25.1	24.5	51.6	51.3	51.2	53.6	62.5	60.2	64.6
36.8	31.8	28.9	26	25.1	24.7	51.8	50.7	49.9	55.9	62.8	59.1	65.5
40.8	37.5	32.3	28	25.3	24.7	51.8	50.7	49.2	57.1	60.4	57.8	66.4
45.1	45.9	34.9	30.6	26.3	24.7	50.3	49.1	47.7	58.6	61.4	56.7	67.3
48.1	44.1	39.5	35.9	30.1	25.4	50.8	48.8	51.4	59.1	63	56.4	66.6
46.8	42.9	39	34.5	28.6	25.2	51.9	48.6	51.5	56.6	60.6	58.9	63.4
45.9	41.4	37.8	32.5	27.2	25	50.5	48.2	50.4	56.2	57.4	58.8	60.8
43.1	37.9	34	28.9	25.1	24.8	49.5	48.1	48.1	57.3	63	59.5	60.9
35	31.5	28.3	25.3	24.1	24.6	48.8	49.1	46.4	55.9	63.4	59.3	60.7
34.3	31.3	27.4	24.9	25.2	24.9	45	49.2	51	57.1	61.6	58.2	61
32.4	35.1	26.3	24	33.2	25.9	47.8	49.2	52.3	57	62.3	56.7	61.6
32.3	29.5	26.6	24.4	24	24.5	46.1	48.1	52	56.3	62	57.4	61.7
36	33.2	29.9	26.2	24.5	24.6	44.3	48.9	50.3	54.9	64.2	58.2	60.1
37.2	35	31	26.8	25.1	24.6	43.4	49.6	48	54.6	63.6	57.7	60.2
39.5	37.8	34.4	29.6	27	25.1	43.5	49.5	47.2	54.8	61.9	57	60.3
41.4	39.4	35.8	31.2	28.6	25.6	47.2	48.6	47.5	52.4	58.8	57.4	59
43.1	40.8	36.8	32.6	30.1	26.4	47.9	47.7	47.2	49.3	57	57.2	58.3
42.9	40.1	36.6	32.7	29.4	26.2	47.8	47.7	46.9	50.7	55.8	57.6	58.8
38.7	36	33	30.5	27	25.3	45.6	47.6	47.2	52.6	57	58.7	59.7
33.3	30.9	28.4	25.8	25.1	24.6	47.1	47	49.2	53.8	59.2	59	61.8
27.6	25.2	23.6	23.4	23.9	24.3	48.8	46.3	52.6	54.1	61.4	59.9	63.5
27.1	24.7	23.3	23.1	23.6	24.6	49	49.9	52.1	54	61.7	59.3	62.6
25.3	23.5	22.8	23.1	23.7	24.5	46.2	50	51.4	51.2	58.7	56	63.8
24.2	23.4	22.8	22.9	23.7	24.7	45.2	48.1	49.9	51.2	56.7	55.7	66.2
25.9	25.8	23.2	23.3	23.8	24.5	47	48.9	51.8	51.8	55.2	55.8	65.9
25.5	24.3	23.4	23.4	23.8	24.5	46.2	48.9	51.4	52.3	54.8	55.5	63.4
26.5	25.6	23.9	23.4	23.7	24.5	44.3	46.7	48.3	51.9	55.2	56.1	60.2
32.4	31.6	30.9	29.2	27	25.5	44.2	46.3	49	51.8	53.6	54.7	57.9
33.1	31.4	29.5	27.1	25.2	24.9	46.2	45.2	50.2	53.2	54.3	54.8	57.3
37.3	35.5	33.9	31.2	28	25.7	45.6	47.1	49.4	52.8	56.4	56.6	59.2
35.8	33.4	32.1	29	26.8	25.4	44.9	48.3	46.8	51.9	56.9	57.6	62.3
28.1	26.8	26	25.1	24.6	24.8	46.1	47	55.1	54.3	57.2	57.5	63.7
25.1	23.5	22.9	23	23.7	24.5	50.3	46.5	55.9	58.5	58.4	60	66.8
24.8	23.6	23	23.4	23.7	24.6	50.3	53.2	53.6	58.4	59.4	59.8	66.2
26.5	25.2	24.2	23.9	23.9	24.6	49.1	53	52.5	55.7	58.7	59.4	64
28.5	25.5	24	24	23.9	24.6	49.7	49.7	50.9	53.1	55.6	57.3	61
32	29.1	29.5	26.4	24.8	24.9	49.1	48.1	48.3	54.4	54.9	54.9	59.9
26.9	25.3	23.9	23.3	23.7	24.4	47.3	46.8	47.9	53.5	55.5	53.7	58.9
27.6	25.6	23.5	23.3	23.6	24.5	45.9	45.6	45.2	53.9	54.4	54.3	58.3
30.1	27	25.2	24.1	23.9	24.4	44.6	45.9	49	52.2	56	54.8	57.4
28.9	26.5	24.3	23.5	23.8	24.5	43.1	46.5	48.5	52.2	53.9	55.1	57.9
31.8	28.2	25.6	24.1	23.9	24.5	43.3	47.7	46.3	51.5	54.1	55.8	57.9
28.4	25	23.8	23.3	23.8	24.5	44.5	45.6	45.7	51.8	59.3	56	59.2
25.9	23.4	22.8	22.7	23.4	24.5	44.3	45.4	44.4	55.6	57.5	56.4	58.4
24.2	22.9	22.7	22.7	23.6	24.5	44.9	45.9	44.9	56.4	57.2	56.4	58.8
24.1	22.9	22.5	22.8	23.6	24.4	44.8	47.1	45.4	54	57.6	56.9	58
26.6	25.3	24	23.3	23.8	24.5	44.5	45.9	48.2	52.3	56.9	55.7	57.4
23.6	22	22.1	22.6	23.8	24.5	44.9	44.4	47.6	50.8	55.4	56.5	56.6
23.4	22.3	22	22.8	23.4	24.5	43.9	45.3	48.6	50.4	55	56.7	57.1
23.2	22.3	22	22.6	23.5	24.5	43.9	45.2	47.8	50.1	56.9	56.8	58.4
24.3	22.8	22.4	22.8	23.7	24.5	43.5	45.8	46.6	51.2	55.8	57.3	58.8
24.8	23.4	22.6	22.8	23.6	24.5	43	44.4	47.1	51.1	54.8	56.7	59.7
27.9	26.7	24.9	23.4	24	24.7	42.2	43.9	46.3	52	54.2	57.1	59.5
36.9	33	29.9	27.1	26.1	26.1	42.5	44.6	49.3	52.7	56.9	57.3	61.1
36.8	33.2	30.3	26.8	25.3	29.5	42.5	43.5	49.1	52.2	55.8	60.9	63.4
36.3	31.7	29.6	26	24.7	29.1	42.8	44.7	47.4	51.2	59.7	60.4	66.7
35.6	32.3	30.1	26.2	24.7	24.6	42.2	47.6	48.5	53.1	59.5	60	67.5
32.7	27.3	25.7	23.8	23.8	24.6	42.6	48.3	48.7	54.1	58	58.7	67.5
31.1	26.4	24.4	23.5	23.7	24.5	47.6	47.3	48.6	54.4	56.1	57.4	63.9
29.5	26	24.5	23.4	23.7	24.5	47	47.8	48.9	52.6	55.2	58	62.9
28.8	24	23.2	22.9	23.6	24.6	47.2	48	48.7	50.9	54.9	56.6	60.8
31.2	25.8	23.8	22.9	23.5	24.5	46.8	48.5	49.5	51.3	54.6	55.4	58
30.6	25.9	24.2	22.9	23.5	24.5	46	46.5	50	50.2	53.8	56.3	56.5
30.2	26.3	24.6	23.2	23.7	24.6	46.9	46.8	48.6	48.2	52.1	56.6	57.4
29.2	25.9	24.2	23.2	23.7	24.6	47.4	48	48.1	50.1	54.4	55.6	57.5
30.9	27.9	25.5	23.6	23.6	24.6	47.6	48.4	47.8	51.4	56.3	54.8	58.3
31.6	28.4	26	24	23.9	24.7	45.3	49.5	46.8	51.7	55.7	55.7	58.4
30.4	26.8	24.7	23.5	23.7	24.5	44.2	49.7	44.9	51.1	54.4	56	59.3
29.5	26.2	24.2	23.4	23.8	24.5	43.5	48.2	45.9	50.7	53.5	55.3	58
30.1	27.2	24.8	23.5	23.7	24.4	44.3	46.5	46.3	52.1	54	56.6	58
30.8	27.5	25.1	23.7	23.7	24.6	44.1	44.1	45.8	52.2	54.8	56.3	57.9
28.6	25.4	23.8	23.2	23.7	24.4	43.6	42.9	45.2	52.1	54	55.5	56.6
27.3	24.7	23.3	23.1	23.6	24.6	42.5	44.4	44.4	52.3	51.6	54.9	58.9
27.7	25.3	23.4	23	23.7	24.6	49	46.9	43.7	50.2	52.8	54.8	59
28.4	25.5	23.8	23.3	23.8	24.5	48.4	48.7	42.8	48.5	52.5	55.6	59
28.9	26.3	24.6	23.6	23.6	24.5	44.7	48.6	43.6	49	53.5	55.3	58.9
29.3	26.4	25.1	23.6	23.7	24.6	41.7	45.4	44.8	51.7	54	54.9	58.7
30.9	27.8	25.8	23.9	23.8	24.6	43.9	45.8	47.9	51.4	54.1	55.3	59.9
31.5	28.9	27	25.5	23.9	24.7	47.8	48.1	48.4	49.5	54.5	55.6	59
32.3	29.3	27.4	25.8	25	24.8	47.2	47.7	46.1	48.5	53.4	54.8	58
33	29.4	27	25.7	24.4	24.6	43.9	46	45.6	50.2	53.6	57.6	57.4

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0

36.2	34	30.8	26.9	25.1	24.7	44.9	46.9	46.5	51.1	52.2	57.9	56.4
40.1	38.3	34.6	29.8	26.8	25	42.7	46.5	46.6	52.6	52.1	55.7	56.4
43.5	41.3	37.8	33	29.9	25.9	42.5	44.4	47.8	52.4	54	54.5	55.3
46.6	44.1	40.3	36.4	33.1	27.8	45.9	44.6	44.9	52.1	54.1	59.2	58.1
43.4	40.5	37.1	33.2	30.2	26.2	46	46.7	45.9	52.3	54.6	60	58.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
60.8	59.9	56.7	54.6	55	51.1	50.7	49.6	45.3	47	42.8	42.1	43
59	60	57.4	55.3	54.4	51.3	50.8	49.4	44.4	45.9	42.3	41.8	42.5
60.3	59.2	57.7	57	54.2	52	51.6	48.3	44.6	45.8	42.6	41.5	42.6
64.7	57.3	56.6	55.8	53.8	52.3	51.3	49.8	47.1	48.8	45.7	43.1	44.1
64.8	57.4	58	56	55.7	54.1	51.4	52.2	49	49.7	47.3	44.2	45.8
64.5	58.8	57.8	57	56.1	56.2	53.2	52.9	50.6	51	48.1	45.6	46.6
63.1	58.4	57.2	61.7	58.2	56.3	53.7	52.7	51	51.2	47.9	46.4	47.3
60.8	58.2	57.7	63.2	60	56.1	53.5	53.7	50.6	51	48.1	46.3	47.2
60.2	63.1	59.4	62.8	59.2	56.8	53.2	53.5	51.7	52.4	49.1	47.8	48.7
66.4	66.1	59.2	60.6	61.8	56.9	56.5	54.6	53.8	54	49.7	48.3	49.7
66.6	65.7	58	60.7	61.8	57.4	56.2	55.1	53.7	54	50.9	48.7	49.7
65.8	64.6	61.1	58.6	60.7	57.2	54.5	55	54.4	52.4	50	48.5	49.1
65.6	65.6	61.2	56.5	59	57.5	54.3	54.8	55.7	52.1	49.2	48.3	48.2
64	66.3	62.5	54.9	59.4	57	54.5	57.7	56	52.8	48.9	48.5	49
62.5	66.8	62.2	56.2	58.9	56.5	54	58.1	54.5	53.3	48.7	48.4	48.9
65.2	67.2	60.2	55.9	58	59.7	55.3	57.9	54.3	52.6	48.8	49	48.6
67.2	66.3	59.7	56.5	58.9	59.4	54.9	55.4	52.9	51	48.5	48	48.6
65.6	63.1	62.3	56	57.2	57.2	54.5	53.2	52.4	49.8	50	48.8	48.8
63.2	62.2	61.7	57.4	60.7	56.4	54.4	52.3	52.6	49.8	49.7	49.2	49.3
60.8	62.2	62.1	58.1	61.6	55.6	54.3	54.1	53.8	50.3	50.6	50.6	51.3
66.7	66.7	62.5	58.9	62.7	56.6	59.2	56.2	56.6	54	52.9	53.7	54
66.2	71.3	69.3	62.8	62.7	61.1	64.1	60.3	61.3	59.2	56.8	57.8	57.9
64.7	70.1	70.3	72.1	59.8	60.1	66.5	65.1	62.2	59.7	57.7	58.7	58.7
62.7	67.5	77.6	71.4	62.3	63.3	64.5	64.6	63.5	58.8	58.2	58.3	58.2
61.4	65	77.4	67.4	62.6	63.9	62.3	63.9	62.7	58.1	57.8	58.1	57.5
59.6	63.6	76.5	66.6	59.8	64.1	60.9	61.4	60.7	56.9	55.7	56.6	55.8
57.7	72.3	73.8	64.7	58.7	61.7	60.2	58.4	57.7	55.5	53.1	53.9	54.4
60.9	72.3	69.7	61	60.2	60.9	58.4	56.4	55.7	53.7	53.2	52.5	53.7
60.9	70.3	65.9	58.4	60.7	60.3	58.2	55.7	54.9	52.2	52.3	50.2	52
60	67.4	62.9	56.6	62.0	58.9	58.4	55	52.8	52.8	51	50.4	50.4
59.3	64.8	60.4	56.1	62.6	57.8	58.1	55.6	53.1	54.4	52.1	53	52.1
58.1	62	57.1	55.1	61.1	55.7	59.9	55.8	53.6	54.9	55.6	54.9	53.6
55.4	59.4	54.5	54.6	60.3	57.3	62.5	56.5	56.1	55.7	55.6	56.5	56.1
55.9	58.4	53.9	54.4	63.1	57.6	62.4	60.8	56.9	60.3	57.6	57.4	60.2
55.8	57.7	53.8	56.5	64.9	58.3	61.2	62.7	58.2	60.3	58.3	57.7	61.5
58.1	59	54.9	58.6	63.9	59.1	59.9	62.6	57.8	60	58.1	57.3	60.9
61	59.1	56.3	58.5	63.6	60.5	59	60.5	57.4	59.5	56.1	56.4	58
60.8	60.6	59.7	57.8	61.2	59.1	57.2	58.5	55.4	57.7	53.8	53.6	54.5
61.1	60.2	60.8	57.4	59.4	57.5	55	56.4	52.4	54.4	50.8	50.4	51.2
62.1	59.6	58.6	56.6	58	57.3	54.1	55.2	51.2	52	48.1	47.9	48.2
61	59.8	56.5	55.8	56.4	54.9	52.9	54.6	49.9	49.5	45.8	45.6	45.8
59.9	58.6	55.8	55.9	56.9	54.1	52.4	54.1	48.6	48.1	44	44	44.9
59.7	57.1	55.6	55.9	56.5	55.2	51.7	52.5	47.9	47.2	43.4	44.2	45.2
59.4	56.3	56.2	54.9	57.4	55.5	51.8	52.1	47.7	46.3	43.4	44.9	45.3
59.4	55.8	56.1	53.8	57.7	54.5	52.2	51.5	48	46.5	44.7	46.4	46
59.3	55.6	57.8	54.9	57.9	53.7	51.9	51.9	49.3	49.5	48.7	48.4	48.1
58.7	60.6	58.2	54.9	60	58.7	55.7	54.4	51.9	54.8	53.2	52.4	51.5
59.2	63.9	57.9	55	65.8	62.5	56.8	58	52.9	56	54.3	53.5	52.3
63.3	63.4	57.8	56.8	65.9	61.9	57	57.8	52.6	55.9	53.7	53.1	51.8
64.9	66.2	59.9	57.4	64.6	59.4	56.4	55.7	50.9	55.1	51.4	50.4	50.2
63.8	65.5	59	57.2	62.3	56.2	54.5	54.7	48.8	52.9	48.8	47.6	47.8
60.6	64.3	57.7	55.8	60.9	54.2	53.8	53.3	48.9	51	46.5	45.2	46.5
59.2	63.5	58.2	54.7	59.3	56.3	52.6	52	48.9	49.3	45.2	44.8	44.7
57.7	62.5	57.8	54.5	58.3	55.8	52.5	52.2	48.1	48.6	44.6	44.3	44.9
61	60.5	56.6	57.1	58.6	54.8	51.9	51.9	47.7	47.3	43.9	43.6	44.7
63.3	61.4	56.3	58.7	58.3	52.7	51.4	50.2	48.3	47.1	44.2	43.7	44.2
63.3	61.4	54.6	58.2	57.6	51.5	51.7	50.3	49.5	48.4	44.9	44.8	45.4
61.8	58.6	56.7	57.5	57	51.8	52.2	50.9	49.6	49.2	45.7	44.3	45.8
60.1	58	57.1	57.6	56.6	51.1	52.3	50.8	50.6	49	45.8	44.6	46.1
58	58.6	55.4	57.9	56.4	52	52.5	50.2	50.1	48.9	45.9	45	46.8
59.3	58.8	56.2	57.8	55.1	51.4	53.4	48.7	49.1	48.7	45.8	44.2	47.7
59.1	58.8	54.4	57.5	53.6	49.8	51.7	50.1	48	48.8	45	43.3	46.8
59.2	57.3	54.9	55.7	53.9	50.8	51.1	51	47.3	47.2	44.5	43.6	44.6
58.4	56.8	54.9	55.4	55.1	51.6	51.4	51.2	46.9	45.9	44.5	43.7	44
56.4	57.2	57	55.4	56.8	51.3	51.3	49.8	46.3	45.4	42.5	42.3	43
56.3	56.8	57.9	54.2	57.3	50.8	50	49.6	45.7	44.2	42.6	41.7	43.4
56.9	56.8	59.4	53.6	56.7	51.4	49.8	51	45.3	45	43.7	42.6	43.8
59.9	59.7	58.6	54.1	55.2	51.3	51.2	49.9	46.4	45.4	43.9	43	44.6
63.5	58.4	58.3	54.1	55.6	51.4	52.4	50.9	46.4	45.7	45.3	43.4	45.4
66.9	57.5	59.9	55.2	55	52.5	53.2	51.2	47.4	48.8	47	46.8	46.6
66.9	58.7	58.9	54.8	56.1	55	53	51.3	48	49.7	48.1	47.6	47.6
63.9	62.1	60.9	54.1	58.6	54.8	53	51.4	48.7	49.4	48.2	47.2	47.4
61.2	62.4	61.7	55.5	59	54.4	53.2	51	49.2	49.2	47.6	47.1	46.9
63.5	67.7	72.7	62.9	61.7	58.3	52.9	49.9	50.5	50.2	47.4	46.4	47
65.9	69.9	75.3	66.8	60.6	58.3	54	50.2	53.7	52	47.3	45.9	46.6
62.5	66.5	75.2	72.9	57.5	57.1	54.4	50.1	52	51.4	47.2	45.5	45.7
59.4	63.1	71.9	72.8	56.1	54.2	52.6	49.5	49.3	50.6	46.1	44.3	45.2
59.3	61.6	67.9	70.8	54.5	52.7	50.9	48.6	49.1	48.6	45.5	43.6	45.2
57.3	59.1	66.2	67.2	54.2	51.6	50.9	50.6	48.6	48.3	45.4	45.7	45.8
57	57.4	63.6	65.4	54	51.6	51.8	55.8	50	49.2	45.9	48.1	47.4
60.1	57.7	60.2	63	53.5	51.7	52.6	56.3	53.7	49.7	46.7	48.7	47.9
59.8	61.6	58.7	59.9	53.8	52.9	52.7	58	55.3	50.4	48.6	48.7	48.1
59.7	62.1	56.5	56.7	54.8	54.1	54.2	60.2	58.9	51.3	48.9	47.5	49.3
58.7	61.3	58.5	55.5	57.6	54.7	54	60.1	58.6	50.2	49.4	48.1	49.8
57.4	61.5	58.4	55.2	56.8	55.4	53.5	57.7	58.1	49.9	49.3	48	48.9
56.7	60.8	55.9	55.2	56	54	55.3	56.7	56.2	48.7	48.1	47	47.8
58.4	63	56.2	55	54.7	54.6	54.4	54.2	53.5	47.9	47.2	46.1	46.9
58.4	63.3	54.7	54.7	58.7	54.6	54.4	52.9	51.4	48.3	46.3	45.4	46.3
62.9	62.5	59.5	55.4	58.9	55.9	53.6	52.9	50.7	48.4	46	45	46.2
62	66.3	59.7	56	57.5	55.3	53.4	50.9	49.7	47.4	45.6	45.4	46.3
61.2	66.2	60.6	55.8	56.7	53.8	52.5	49.1	48.7	46.9	44.6	44.6	46
60.2	63.1	63.1	54.9	55.6	54.1	50.5	48.3	47.5	46.8	43.7	44.2	45
57.3	61.5	63.6	61.4	54	53.5	52.6	47.6	47.4	46.5	44.2	45.6	46.4
62.2	59.1	61	61.8	54.4	54.4	52	48.2	48.3	48.9	46.5	46.8	47.2
62.1	59.3	60.9	62	54.8	55.1	51.6	47.9	49.1	49.4	48.1	47.3	48
59.5	59.2	59.8	59.3	55.2	53.7	50.7	48.5	49.8	50.4	47.9	48.2	47.8
57.3	58.5	57.9	59.6	60.3	52.1	50.1	52.2	52.2	54.1	48.7	48.6	47.1
57.1	58.3	58.2	57.2	60.3	50.5	51.1	55.1	52.1	54.4	49.1	49.1	49.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
58.5	57.6	57.1	55.7	58	53.4	55.1	55.5	53.5	55.1	52	53.2	52
58	57.4	57.3	55.9	58.6	56.9	57.2	55.5	53.6	54.3	54.3	55.7	54.8
56.7	60.4	57.4	56	58.4	59.7	57.2	53.5	58	58.4	55.8	56.4	58
58.9	60.5	57.9	56.4	59.2	66	57.2	60.5	58.6	61.3	62.2	58.2	58.8
60	58.7	57.4	60.2	61.3	66.7	57.2	62.2	58.8	63.5	62.4	58.3	58.8

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
40.5	40	39.8	38.8	37.3	35.4	34.8	31.6	27.7	24.8	23.8	22.2
39.9	40.4	39.7	39	37.5	35.1	33.5	30.4	27.7	25.2	23.8	23.2
42.3	41.4	41.6	41	40.1	37	34.5	31.8	29.2	26.3	24.4	23.4
45.5	45.3	45.6	44.9	43.6	39.9	37.1	33.5	31.1	27.6	25	23.4
47.3	47.9	48.6	47.4	44.8	40.5	38.2	34.6	31.8	28.8	26.5	24.7
47.6	48.8	49.6	47.8	45.6	41.1	38.7	35.7	33.2	30.4	27.7	25.3
48.2	49.9	50.3	48.6	47.1	41.7	39.2	36.6	34.1	32	28.7	26.5
48.8	50.3	50.7	49.7	48.5	43.3	40.5	37.7	37.2	32.5	29.1	27.2
49.8	51.3	52	50.7	50	45.9	43.7	43.4	41.7	38.6	35.3	34.7
51.8	52.3	52.9	51.4	50.5	47	45.2	44.2	43.3	40.8	38.4	37.6
51.2	51.8	53.2	51	49.8	47.2	45.6	44.7	43.6	41.9	39.3	38.5
50.6	51.2	52.5	50.6	49.1	46.7	45.4	44.4	43.3	41.8	39.1	38.3
48.8	50.2	50.8	49.7	47.7	45.9	44.3	43.3	42.2	40.8	37.9	36.8
48.2	49.7	49.2	48.8	47.1	46.4	44.8	42.3	41.1	39.6	36.3	34.9
48.6	50.7	49.4	48.4	47.2	46.3	45.1	42.5	41.2	39.1	35.6	34.1
48.9	51.3	49.5	49.2	47.2	45.9	44.5	42.1	40.5	38.3	35	32.6
48.4	50.4	49	49.7	47.3	45.7	44.6	41.3	40	37.3	35	31.4
47.8	48.5	49	49.9	47.2	45.6	44.8	41.9	40.5	38.7	36.1	31.3
48.7	47.6	49.3	49.6	46.9	45.7	44.8	42.3	40.9	39.8	36.6	31.6
50.7	49.9	51.2	50.2	49.1	47.8	47.7	44.2	44.1	43.7	40.1	36.8
54.1	54.1	54.1	54.9	51.7	51.5	49.6	47.3	47.4	47.9	44	44.5
57.3	57.1	56.4	58.9	55.3	54.9	53.4	51.3	51.6	49.6	47.1	44.6
58.5	57.8	56.6	58.8	55.6	55.1	53.7	51.8	51.6	49.6	47.4	44.1
58	57.4	56.4	58.6	55.8	54.3	54	51.4	50.7	49.1	46.7	43.3
57.5	57.7	56.4	58.4	55.8	54.3	53.9	51.1	49.7	48.8	46.4	42.2
56.6	56.3	55.4	56.8	54.3	52.8	51.9	49.2	47.7	46.6	44.3	39.8
54.7	54.1	52.7	53.4	51.1	49.7	48.7	46.2	44.4	43.1	40.8	36.5
53	53.4	50.7	50.7	49.1	47.4	46.2	44.1	42	40.4	37.9	35.6
50.8	51.1	49.1	48.5	47.4	45.2	43.7	42	39.9	37.9	35.3	34.4
50	49.7	48.1	47.1	**46.3**	44.8	43.7	41.5	38.7	37.2	35.2	33
49.4	49.2	48.4	47.3	47.1	45	44	42.3	39.8	38	36.7	34.7
50.2	51.2	50.5	49.7	49.2	46.6	45.9	44.6	42.1	40.5	38.7	37
54	53.9	53.5	52.8	51.7	49.3	47.9	46.8	44.7	42.7	40.6	38.7
55.8	58.7	56.5	54.5	54.6	50.6	49.5	48.6	46.5	44.3	42.5	40.2
58.3	61.8	57.2	55.1	55.1	51.5	49.8	49.1	47.3	45	43	40.5
58.2	61.9	57.1	54.9	54.7	51.4	49.5	48.6	46.9	44.6	42.6	40
55.9	59.4	55.8	53.4	52.8	50.3	48.2	47	45	42.6	40.4	37.8
52.9	55.8	53.1	50.9	49.9	47.6	45.5	44	41.8	39.3	37.1	34.6
49.7	52.3	50.1	48.3	47.2	44.6	42.3	40.5	38.3	35.8	33.7	31.1
46.7	49	47.4	45.9	45.2	42.1	39.5	37.4	35.3	32.8	30.8	28.3
44.4	45.9	45.4	44	43.2	40.9	37.6	35.3	32.7	31.1	28.3	26
43	44	43.9	42.3	41.3	38.8	35.6	33.2	30.8	29.2	26.9	26.4
42.2	43.9	42.6	41.3	40	38	35.1	33	30.7	28.5	25.8	25
42.8	43.9	42.6	42.2	41.5	39.3	36.8	35.1	31.6	29	26.3	25.3
44.9	44.9	45	44.6	43.4	42.1	39.9	37.6	35.3	33.2	31.7	30.8
48	48.7	49.2	49.1	47.9	45.1	41.9	39.7	39.5	36.4	32.7	31.3
51.3	54	54.3	52.8	51.4	47.8	44.9	43.6	42.5	41.9	36.4	34.6
51.7	54.8	55.4	53.9	52	48.8	45.5	44	42.8	43.1	37.1	35.2
51	53.7	54.5	53.6	51.6	48.3	44.7	42.7	41.3	41.7	35.5	33.4
49.2	50.8	52	51.4	49	45.8	42.5	39.8	38	38.3	32.4	30.5
47.2	48.1	49.2	48.9	46.7	43.3	40.2	37	34.8	34.9	29.3	27.5
45	45.4	46.9	47.1	44.8	41.8	38.6	35	32.7	32	27.1	25.5
43.7	44.2	45.5	45.8	43.4	40.4	38	35.8	34.8	32.5	28.6	25.9
42.9	43.3	44.6	44.7	42.4	42.1	40.3	35.4	34.7	33.5	32	29.1
42.2	43	43.7	44.4	41.7	41.5	39.9	35	34.2	32.9	31.4	28.5
43.4	42	43.1	43.5	41.5	39.4	37.5	33.9	33.5	31.3	29.3	26.9
43.9	43.5	43.6	43.7	41.8	40.1	37.9	35.5	35.2	32.9	29.7	27
43.6	43.3	43.7	43.5	42	39.7	38.1	35.4	34.6	32.6	29.3	26.6
45.1	43.7	43.6	43.4	42.8	40.4	38.9	35.9	35.8	34.2	31.1	27.8
45.6	44.3	44.6	43.8	43.1	40.7	39	36	35.8	34.3	31.1	27.8
45.5	44.1	44.6	43.7	42.8	40.5	38.7	34.9	34.2	32.5	29.5	26.2
45	43.6	43.9	42.4	41.3	39.5	37	33.2	32.3	30.5	27.6	24.6
43	43.4	42.5	42	40	37.7	36.4	32	30.1	28.1	25.8	23.6
41.4	41.5	41.7	40.5	39.1	37	35.6	31.4	29.3	28.1	26.5	25.1
40.7	40.6	42.4	41.3	39.7	37.3	33.9	30.7	28.8	27.5	26	24.7
42.2	43.7	45.5	43	41	37.7	36	31.3	28.2	26.4	24.7	23.2
43.4	44.8	46.9	44.3	42.7	39.3	35.5	31.6	28.2	25.9	23.9	22.7
43.7	45.1	47.9	45.1	44.2	39.6	35.8	32.1	28.8	25.9	24	22.7
47.5	46.7	48.5	46.7	45.1	41.7	36.8	33.2	29.9	26.6	24.6	23.2
47.5	47.6	49.2	47	45.2	42.5	38.2	35.6	32.4	29.9	27.4	26.1
47.4	48.7	49.8	47.7	45.8	43.3	39.7	38.2	37.3	35.6	34.8	31.4
46.8	48.2	49.3	47.6	45.4	43	40.2	38.7	38.3	37.8	36.1	32.6
46.1	46.5	48.1	46.7	44.1	42.7	40.6	39.2	38.4	38.2	36.4	32.7
46	45.9	46.8	45.8	44	43.2	41.5	40.8	39	38.9	36.6	32.6
46	45.7	46.5	45.5	43.7	43.1	41.1	40.6	38.8	37.9	35.6	32
45.1	44.7	45.6	44.5	43	41.6	39.3	38.2	36.4	35.3	34.1	29.6
43.8	43.4	44.6	43.9	42.7	40.6	38.2	36.3	34.4	33.3	32.4	27.9
45.2	42.8	44.6	44.2	42.5	40	37.5	35.6	33.4	31.9	30.8	26.7
45.7	42.8	44.6	44.7	43.7	40.8	38.4	36.1	34	32	30.8	25.8
47.6	44.6	45.1	44.9	43.7	41	38.8	36.4	34.4	32.2	30.9	25.9
48.4	45.1	45.6	44.5	44.3	41.3	39.2	36.4	34.6	32.3	30.7	26.1
48.2	45.1	45.3	44.3	44.2	40.9	40.1	36.1	34.6	32.1	30.3	26.1
49.8	45.1	45.3	44.2	44.6	40.9	40.7	37.3	35.7	32.4	30.5	27.4
53.2	45.7	45.4	44.8	45.2	41.4	41	38.8	36.8	33.7	31.3	28
52.8	45.8	45.1	44.9	45.2	41.1	41.1	38.8	36.8	33.7	31.2	28
49.9	45.7	45	44.8	44.4	40.8	41.3	38.1	36	32.8	30.6	27.2
47.6	45.7	44.7	44.7	44	40.5	41	38.1	35.4	32.3	30.3	27.2
45.8	45.5	45.1	44.2	43.5	40.2	40.3	38.9	35.5	32.4	30.7	27.5
45.2	45.2	45.1	44.6	43.3	41.6	40.8	39	35.8	32.6	30.5	27.3
46.2	45.2	45	44.8	44	42.2	40.8	38.6	35.3	32	29.2	26.2
46.9	45.1	44.8	44.4	43.6	41.9	40.5	37.7	35	31.5	28.1	25.4
46.7	45.2	44.7	44	42.9	41.5	40.1	38.1	35.5	31.8	28.3	25.5
48.7	46.7	44.5	44	44	41.9	40.7	38.8	35.6	32.3	28.8	26
49.1	48	46.3	46.1	45.4	44.9	43.2	39.9	36.2	32.6	29.3	26.3
49.1	48.3	48.5	47.8	47.6	45.9	43.6	40.3	37.1	33.6	30.5	27.5
48.9	48.6	48.9	48	47.8	46	43.8	40.9	37.7	34	31.2	28.5
47	48.2	48.5	47.6	46.6	44.8	43.3	41.2	37.5	34.4	32	29.1
47.4	48.6	48.1	47.8	47	44.9	43.6	41.8	38.6	34.9	32.7	29.4

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
48.5	50.3	49.2	48.2	47.8	45.6	44.9	42.5	39.5	36.4	35.3	32.9
51.2	51.5	51.6	51.7	51.1	48.4	47.8	45.1	42.8	41	39.1	37.3
54.3	56.4	56	54.4	54.8	51.7	50.3	49.1	46.2	44.3	42.4	40.3
62.5	61.2	59.9	56.5	56.2	53.9	52.4	51.5	48.9	47.6	45.5	43.1
62.4	61.1	59.9	56.6	56.3	54.1	52.4	51.6	49.3	48	45.8	43.3

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
22.7	22.7	23.6	24.6	46.4	45.8	45.9	49.5	55.6	54.9	53.5	58.7	58.2
22.2	22.6	23.6	24.6	43.3	47.3	46.1	47.3	54.7	54.7	52.9	57.1	59.2
22.1	22.7	23.6	24.5	41.4	47	47.7	50.2	53.7	54.3	55.7	56.7	57.2
22.4	22.7	23.6	24.6	41.3	50	48.6	50.1	53.5	54	57	60.3	56.3
22.6	22.8	23.6	24.6	46.3	50	48.2	48.9	56	54.9	56.4	64.4	56
23.1	23.2	23.7	24.6	47.2	46.9	51.6	48.3	54.4	53.8	56	63.1	57.2
24.4	24	23.8	24.5	46.8	45.1	51.2	50.2	54.1	52.8	56.7	60.9	57.4
25	24.6	24	24.6	49.3	47	49	50.4	55.1	53.1	58.2	59.1	57
32.4	32	27.8	26	47.8	46.4	46.2	51.2	56.4	54.8	59.1	58.5	57.5
35.3	35	30.2	27.4	47.1	45.4	46.1	52.2	56.1	55.2	61.1	59.2	63.1
36	35.4	30.3	27.4	45.6	46.9	49.6	51.9	57.7	62.4	65.1	65.5	64
35.7	35.1	29.6	27	43.1	46.3	49.5	56.2	59.2	60.5	62.2	65.2	63.1
34.1	33.5	28	26.2	42.2	48.7	50.8	55	58.1	59.3	61.2	64.1	62.8
32	31.3	26.5	25.4	42.8	48.6	50.4	52	56.2	57.8	59.5	60.9	65.4
30.6	29.4	25.4	25	47	48.9	50.6	52.1	56	57.1	57.4	60	65.2
29.3	27.7	24.7	24.8	49.9	48.4	50.5	54.2	58.5	57.2	57	62.3	66.3
28.2	26.3	24.7	24.7	50.9	48.6	50.9	53.6	58.3	57.4	56.6	65.4	63.1
28.3	25.8	25	24.6	48.8	49.1	49.9	52.3	59.3	57.5	63.3	63.2	60.1
28.7	26	25.1	24.6	48.2	48.7	48.4	51.8	60.4	57.1	63.3	60.8	59.7
31.7	27.6	25.3	24.7	49	47.5	47.7	54.8	58	56.1	65.5	59	61.4
34.2	29.9	26	24.7	48.7	47.1	47.2	54.6	58.2	55.5	66.1	58.3	61.9
38.1	34.5	29	25.2	48.5	46.2	47.5	56.7	60.6	54.7	63.5	64.8	66.8
38.7	35.1	29.3	25.3	50.5	46.2	50.5	55.2	57.2	55.9	60.8	62.4	67.5
38.6	34.3	28.6	25.2	48.1	45.6	48.1	55.1	56	57.7	60	61.4	64.8
38.1	33.3	27.8	25.1	47.7	45.5	46.5	55.9	56.2	58.3	59.2	59.6	63.6
35.7	30.8	26.2	24.8	45.1	47.4	44.8	53.6	61.6	57.1	59.5	57.5	62.5
32.6	28.3	25.4	24.9	43.8	48.2	45	53.7	59.9	56.7	58.9	56.6	63.2
30	26.5	33	25.8	45.1	46.4	50.2	55.9	60	56.0	60.6	57.4	70.3
28.1	25.1	30.3	25.3	44.3	45.5	50.3	55	60.9	56.2	60.1	59.8	67.4
29	25.7	27.5	24.8	42.8	47.9	48	54.5	62.1	56.9	58.6	58.5	64.7
30.6	26.5	25.9	24.7	42.4	48.2	46.9	53.5	61.9	56.2	57.8	58.1	62
33.3	28.8	26.5	25	41.8	47.2	45.7	52.4	58.8	54.9	58.4	55.4	59.4
35.1	30.5	27.9	25.4	43.5	47.1	45.7	49.3	57.1	56.4	57.3	53.3	57.8
36.3	32.1	29.6	26.1	46.2	46.6	45.8	48.3	55.8	56.4	56.8	54.9	56.3
36.7	32.6	29.8	26.3	45.6	46.6	45.4	48.9	53.8	56.8	57	54.1	55.3
36.3	32.3	29.3	26.1	44.4	45.7	45.9	48.9	52.3	56.8	58.6	55.7	57.2
34.4	31.1	27.9	25.6	44.2	46	46.9	52.7	56.7	58.2	58.5	58	58.2
31.4	28.4	26.3	25	47.2	45	48.1	52.8	57.7	58.4	61.1	59.4	59
28.2	26	25	24.6	46.2	45	50.8	51.3	58.7	56.1	61.8	60.2	58.2
25.9	24.4	24.2	24.6	44.2	47.8	49.9	49.7	56.7	54.2	61.5	60.5	57.9
24.3	23.7	23.9	24.7	42.7	47.3	48.4	50.3	55.2	53.6	63.8	59	58.6
23.7	23.5	23.8	24.7	45.3	47.8	49.8	48.8	53.7	55	63.5	59	57.1
23.4	23.5	23.9	24.6	44.3	46.8	48.3	51.2	53.4	55	60.2	58.8	56
23.7	23.4	23.8	24.5	42.9	45.4	46.8	50.4	53.6	54.3	57.9	58.5	54.8
30.1	28.6	26.6	25.4	43	45.2	47.4	50.9	52.3	53.5	56.6	57.6	54.2
30.1	28.5	26.5	25.3	43.6	43.9	49	50.1	53	53.8	56.3	58.1	54.8
33.1	30.6	27.5	25.6	44.9	44	46.8	50.6	52.8	54	55.5	57.4	54.3
33.8	31	28.1	25.8	43.5	47	44.8	51.2	55.4	56	59.4	57.7	60.7
32	29.1	26.7	25.3	43.4	45.7	43.8	51	56	56.2	61.2	57.5	61.7
29.2	27.1	25.5	25	46.1	44.3	53.4	53.5	56.1	56.8	62.3	63.1	63
26.4	25	24.5	24.7	48.6	46.3	51.9	55.7	56.9	59.3	64	60.6	63.8
24.8	24.2	24.1	24.7	48	49.5	50.9	52.8	55.6	57	61	59.3	63.2
24.5	24.2	24.1	24.6	47.9	48.1	48.3	50.5	53	54.7	59	56.5	62.2
29.4	26.3	24.7	24.9	47.3	45.7	45.9	52.6	53.1	53.3	59	55.3	60.3
28.8	25.9	24.5	24.8	45.9	45.4	45.2	52.7	54.3	52	58.3	57.8	58.8
26.5	24.5	24	24.6	44.1	45.4	43.3	52	52.9	53.2	56.1	61.2	59.1
25.4	24.1	24	24.6	43.1	45.2	43.9	50.6	53.8	52.2	55.9	61.5	58.6
24.9	23.9	23.8	24.5	41.2	45.1	46.3	50.4	52.8	53.9	56.5	60.1	57.3
25.4	24	23.9	24.5	40.8	45.6	44.7	49.2	53.1	53.5	57	57.5	56.6
25.7	24.1	24	24.5	43.3	44.7	44	50.1	54	54.6	57	56.6	56.6
24.2	23.5	23.8	24.5	42.3	44.5	43.4	51.9	56.4	54.7	56.6	57.4	58.1
23.5	23.1	23.6	24.5	43.9	44.3	42.9	54	55.5	55	57.3	57.5	56.9
23.2	23	23.7	24.5	42.8	44.4	42.9	51.6	56.1	55.7	57	58.1	55.9
23.9	23.2	23.7	24.5	42.3	43.5	45.5	50.9	55.4	54.3	56.3	56.4	55.8
23.5	23.1	23.8	24.5	43.7	43.3	46.1	50	54.1	54	55.1	55.5	55.3
22.7	22.8	23.7	24.5	43.1	42.6	46.7	49.4	54.2	55.6	54.5	54.5	56.2
22.3	22.8	23.5	24.5	42.9	44	45.8	48.5	54.3	54.3	56.8	54.3	56
22.4	22.8	23.6	24.6	41.8	44.4	46.1	47.8	54.8	56.5	57.3	55.9	56
22.4	22.8	23.6	24.5	41.7	43.3	46.2	48.7	52.5	55.4	57.6	59.9	57.1
24.5	23.4	23.9	24.7	40.8	41.7	45.5	48.1	51.4	55.4	58.4	63.3	56.6
28.7	25.9	25.3	25.9	42.1	42.3	46.3	51.9	54.3	55.9	58.3	63.9	56.6
29.8	26.5	25.4	28.4	40.6	42.5	47.4	50.1	54.8	56.3	60.8	61.2	56.8
30.1	26.8	25.4	30.2	41.4	42.1	45.9	49.9	55.4	58.7	63.4	57.9	60.9
30.4	26.4	25	28.1	40.7	43	45	50.6	57.1	58.6	66	57.4	59.9
29.6	26	24.7	26.3	40.6	46.8	47.7	51.7	56.1	56.8	64	62.6	66.6
27.5	24.7	24.1	25.3	42.7	45	47	52.6	53.6	56.5	60.7	59.5	63.1
25.9	24	23.9	24.8	46	46.2	47.5	50.9	52.9	56.5	60.6	57.8	60.7
25	23.5	23.8	24.6	45.7	45.8	46.7	49.4	53.4	55.4	58.1	56.9	59.1
24	23.2	23.7	24.6	45.7	46.6	45.3	49.6	53.7	53.7	56.1	56	57.4
24.1	23	23.6	24.5	44.5	44.8	48.6	48.1	52.2	54.2	55.7	55.8	56.4
24.5	23.1	23.7	24.6	44.8	44.8	45.7	47.3	49.7	55.6	55.7	55.6	56.8
24.5	23.2	23.7	24.6	46.7	45.2	44.7	47.2	49.4	53.6	55.8	58.3	55.9
25.2	23.5	23.7	24.6	45.4	46.8	46.8	49.8	54.5	53.7	57.3	58.1	61.2
25.7	23.8	23.8	24.7	43.3	48.5	44.9	50.9	52.6	53.9	57.7	55.7	58.3
25.6	23.9	23.8	24.6	41.9	47.5	42.7	48	52.4	54.5	57.3	55.5	58
25	23.6	23.9	24.6	42	46.5	42.7	48.1	51.9	52.9	56.4	55.8	59.5
24.9	23.6	23.8	24.5	42.5	43.4	45.8	50	52.6	52.9	56.9	55.4	59
25.1	23.7	23.8	24.6	42.6	42.9	44.5	50.3	53.8	55.1	55.8	58	62.2
25	23.6	23.7	24.6	42.5	41.6	44.4	49.8	51.6	52.6	54.9	58	61
24.1	23.3	23.8	24.5	41.5	41.2	43.7	50.3	49.5	52.7	56.3	61.1	61.4
23.7	23.2	23.7	24.6	42.5	44.5	42	48.5	50.6	52.6	58.3	60	63.1
23.7	23.3	23.8	24.6	44.8	45.7	41.8	46.3	51.2	53.3	58.1	57.4	61.5
24.3	23.5	23.8	24.5	41.7	45.2	41.7	46.2	51.4	54.8	57.9	55.8	59.1
24.9	23.6	23.7	24.6	39	43.9	42.9	48.8	52.4	53.3	56.7	55.9	56.9
25.6	23.9	23.8	24.6	39.1	43.7	44.3	49.6	53.4	52.9	58.5	59.5	56.7
26.5	24.9	23.9	24.7	43.7	44.7	46.2	47.5	53.2	53.9	57.9	57.4	58
27.1	25.5	24.7	24.8	43.9	45.6	44.4	47.4	52.3	53.2	56.7	56.8	56.6
27.2	25.7	24.6	24.7	41.9	44.2	44.2	47.2	51.7	52.4	56.4	55.7	57

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
29.9	26.5	24.9	24.7	42.7	44.1	45	49.7	51	55.7	55.6	55.5	56.4
33.7	29.1	26.4	24.9	42.4	43.7	44.9	50.2	50.6	54.5	55.2	56.4	56
36.8	32.1	29.1	25.6	39.9	42.4	45	50.9	52	52.9	53.6	54.9	57.4
39.4	35.3	32.1	27.2	38.8	42.7	43.3	51.3	52.7	52.9	53.4	54.7	58.7
39.6	35.6	32.3	27.3	44.2	44.6	43.5	51.4	52.7	58.6	57.2	58.5	57.5

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
54.7	52.5	54.3	50.2	49.9	48	44	45.9	42	41.6	42.4	39.6	39.5
56.3	53.8	53.4	50.1	50.2	48.3	43.6	45.1	41.7	40.8	41.6	39.4	39.5
56.5	55.2	53.7	51	50.5	47.4	43.5	45	42.1	40.8	41.5	39.9	40.3
55.9	54.4	53.1	51.1	50.3	47.4	44.5	45.7	42.4	41.1	42.5	42.4	41.5
55.6	53.7	52.9	51.7	50.2	49.4	47	48.7	45.6	43	44	45.4	45.3
56.6	54.1	54.4	53.9	51.3	51.8	48.6	49.5	47.2	44.2	45.6	47.2	47.9
56.6	57.1	54	55.6	52.3	52	50.3	50.3	47.5	45.2	46.4	47.3	48.6
56.5	60.9	57.6	54.3	52.4	52.5	50	50.2	47.6	45.6	46.7	47.8	49.8
57.4	59.5	58.6	54.7	52.4	53	50.2	50.5	47.4	45.9	47	48.6	49.8
57.2	58.3	58.6	56	52.5	53.2	51.7	52.2	49.1	47.8	48.6	49.7	51.4
57.1	58.5	60.5	55.7	54.4	54.5	52.6	52.4	49.1	48.3	49.2	50.3	51.2
58.1	56.5	58.9	56.2	53.4	53.5	52.6	51.6	49	48	48.2	48.8	50.3
59.9	54.9	57.9	56.1	53.7	53.4	54.3	51.5	48.7	47.8	47.7	47.5	49.1
60.3	54.1	58.9	55.3	53.4	54.8	54.4	51.9	48.2	48	48	47.5	48.9
60.2	53.9	57.1	55.3	53.1	57.5	53.7	52.5	47.6	47.6	48.1	48	49.5
58.7	54.4	56.8	55.9	54.1	55.4	52.9	51.1	48	48	48	48.4	50.4
58.9	54.8	57.1	57.2	53.8	53.2	52.2	49.5	48	47.4	48.2	47.2	48.4
59.2	54.9	56.5	55.7	53.8	51.9	51.4	49.3	48.5	47.8	48.1	47.3	47.3
60.4	54.8	56.6	55.6	52.8	51.5	51.5	48.9	49.1	48.7	48.7	47.7	46.9
59.8	57.1	60.7	54.5	52.7	51.9	52.2	48.8	49.3	48.9	49.1	48.3	46.6
59.7	57.1	60.7	55.1	54.2	54	53.5	50.3	50.6	50.4	51.2	50.7	49.9
59.5	55.3	59.9	55.1	58.1	55.9	56.6	54	52.9	53.8	54	54.1	54.2
66.7	63.2	58.3	59.1	64.3	60.4	61	58.5	56.9	57.8	57.8	57.2	57
70.4	67.5	57.6	60.1	62.1	63.9	62.1	58.1	57.1	57.8	57.5	57.4	56.7
76.5	64.6	59.8	63.2	60.5	61.5	60.7	56.9	55.7	56.6	55.8	56.6	56.3
73.8	64.6	58	61.5	60.2	58.4	57.7	55.5	53.2	53.9	54.4	54.7	54.1
69.8	61.3	57.5	60.8	57.5	56.4	55.2	53.6	52.3	52.5	53.6	53	53.3
65.9	58.4	58.1	59.7	57.1	55	54.9	52	52.3	50.2	52	50.8	51.1
62.9	56.6	58.2	58.5	57.6	53.6	52.7	51.6	50.5	48.8	50.1	49.7	49.8
61	55.5	59.5	57.9	57.5	53.4	52	51.6	49.7	48.4	49.6	48.9	48.6
57.2	54.5	61.1	55.1	57.1	54.2	52.4	52.5	50.9	50.2	50.3	48.8	48.6
54.5	54.3	60.3	54.6	57.1	53.9	52.6	54.2	52.1	52.8	51.9	48.7	49.1
53.7	53.6	59.3	55.6	59.9	55.4	53.4	54.6	54.8	54.8	53.2	50.2	51.4
53	52.6	59	56.4	61.2	56.1	55.7	55.6	54.7	56.4	56.1	53.7	53.7
53.3	53.9	63.2	57.3	59.1	60.3	56.5	59.9	57.5	57.1	60.1	55.8	58.7
53.2	55.6	63.3	58	58.7	60.5	57.1	59.1	56.2	56.5	58	55.9	59.5
54.4	57.1	61.2	59.1	57.3	58.5	55.4	57.7	53.8	53.6	54.6	52.9	55.9
55.6	57	59.4	57.2	55	56.4	52.4	54.5	50.9	50.4	51.2	49.7	52.3
58.6	56.3	57.8	56.8	54	55.1	51.1	52	48.2	47.9	48.3	46.7	49
56.5	55.2	55.7	54.9	52.4	54.3	49.7	49.6	45.8	45.6	45.8	44.4	45.9
54	54.9	55.5	53.8	52.2	54	48.5	47.9	43.8	43.7	44.6	42.9	44
53.7	53.5	56	52.5	51.4	52.5	47.1	47.1	43.3	43.3	43.2	42.1	42.9
53.7	54.3	54.6	52.7	51.1	51.7	47.1	45.6	43	43.3	42.9	41.7	42.4
55.4	53.7	54.6	54.3	50.7	51.3	47	45.5	42.7	44.4	44.5	41.9	43.4
55	53.2	56.7	53.4	51.6	50.8	46.8	46	43.4	44.8	44.4	42.8	43.7
55.9	53.5	56.3	52.5	51.1	50.7	47.9	45.8	45	46.4	45.9	44.9	44.9
56.3	54	57.3	53.6	51	51.2	49.2	49.5	48.8	48.4	48	48.2	48.7
56	54	60	58.7	54.8	54.4	51.1	54.5	53.2	52.3	51.4	51	53.8
56.5	54.9	64.7	59.4	56.2	55.7	50.9	55.2	51.4	50.5	50.2	49.2	50.9
57.4	55.6	62	56.3	54.5	54.6	48.4	52.8	48.8	47.7	47.9	47.2	48.1
57.7	55.6	60.7	54.2	53.1	53.2	48.1	50.6	46.4	45.3	46.5	45	45.4
56.4	54.7	59	53.3	52.7	51.5	48	49.3	45.1	44	44.6	43.7	44.1
57.5	53.4	57.9	52.8	52	51.5	48.2	48.3	44.3	44.1	44.3	42.8	43.1
56.1	53.2	56.8	54.7	51.7	51.4	47.2	47.1	44	43.6	44.4	42.3	42.6
55.8	53.8	57.5	52.7	50.7	50.3	47	46.3	43.2	42.7	43.9	41.6	41.9
54.2	57	57.1	51.1	50.4	48.7	47	46.3	43.2	42.4	43.7	41.9	41.3
53.7	57.4	56.8	49.8	50.8	49	48.3	47	43.9	43.7	44.2	43.4	42
53.5	55.7	55.9	50.9	50	48.8	48.8	48.1	44.7	43.8	45.1	43.2	42.6
55.4	55.8	55.2	50.4	51.1	50	48.7	48.4	45	43.7	45.1	43.1	42.7
53.8	56.8	54.8	50.9	51	48.2	49.1	48	45.6	43.7	45.5	44.9	43.4
54.3	56.6	53.6	49.8	51.7	48	48	48	45	43.3	46.4	44.5	42.9
53.3	55.7	53.1	49.1	50.9	47.8	47.2	47.2	44	42.3	44.6	43	41.9
53.1	54.3	52.8	48.5	49.8	48.9	46.2	45.8	43.3	41.1	43.7	41.1	41.5
53.8	54.5	53.7	49.9	49.9	49.7	46.3	44.9	42.6	42.3	42.9	40.2	40.3
54.4	54.2	55.1	49.9	49.8	48.5	45.4	44.2	41.7	41.4	42.3	40.2	40.1
55.8	52.2	55.7	49.3	49.3	48.4	44.9	43.8	41.7	41.1	42.7	40.2	40.6
58	52.3	54.8	50.4	49.1	49.6	45	43.8	42.2	41.5	43.1	42.2	43.6
56.6	52.7	54.4	50.4	49.1	49.5	44.9	44.8	43.1	41.9	43.4	42.9	44.4
56.2	53	54.4	50.3	50.9	50	45.9	45	43.4	42.7	44.5	43.5	45
58.3	53	53.8	50.4	51.9	50.4	45.8	45.4	45.2	43.2	44.9	47.1	46.4
57.2	53.6	54	52.1	52.3	50.4	47.2	48.7	46.4	46.7	46.6	46.8	47.6
57.5	53.4	55.7	54	52.1	50.2	47.8	48.6	47.5	46.5	46.3	46.2	46.4
60.7	53.8	58.1	52.4	52	49.9	48.4	47.9	46.1	46.4	46.1	45.6	45.5
61	55.5	57.7	52.1	51.4	49.3	48.2	47.8	46.3	45.6	46.5	45.6	45.5
72.8	61.3	57.6	57.2	52.7	49.3	50.4	49.3	46.6	45.5	45.7	45.1	44.7
71.9	67	56.1	54.2	52.7	49.1	49.4	50.6	46.2	44.2	44.5	43.8	43.4
67.9	70.8	54.2	52	50.9	48.7	48.5	48.6	45.5	43.3	44.5	43.1	42.5
66.3	67.2	52.6	51.6	49.6	47.2	48.2	47.8	44.4	42.7	44.4	43.3	42.1
63.6	65.5	52.5	50.1	49.5	46.9	47.5	47.5	44.3	43.4	44.7	44.7	42.6
60.2	63	53.1	50.7	50.7	50.5	48.5	47.7	45.3	45.6	45.8	45.7	42.8
58.7	59.9	52.3	51.2	50.6	55	49.9	49	45.6	48	47.3	47.5	44.5
56.3	56.7	52.5	50.9	52.1	56.2	53.6	49.4	46.4	47.5	47.7	47.4	44.7
55.4	55	52.7	53	52.1	57.9	55.1	49.8	48	46.4	48	47.3	44.8
55.6	54.7	54.1	53.5	53.1	57.7	57.6	49.4	48.9	46.4	48.6	49.7	45
55.9	54.4	55.5	53.8	52.7	56.4	56.1	48.7	47.9	46.8	47.8	49.9	45.2
54.8	54.2	54.7	52.6	53.4	54.2	53.5	47.8	47.3	46.1	46.7	47.6	44.9
54.4	54.3	53.7	53	53.5	52.4	51.4	47.1	46.1	45	46.1	45.8	44.8
54	53.5	53.7	52.5	53.6	52.1	50.4	47.7	45.9	44.8	46	45	44.8
54.6	53.7	57.6	52.7	52.9	50.9	49.6	47.2	45.3	44.4	45.7	44.9	44.2
58.3	54.5	56.5	53.1	52.5	48.9	48.6	46.6	44.6	44.4	45.6	45.2	44.2
58.6	54.3	55.2	52.7	50.2	47.8	47.1	46.2	43.7	44	45	45.6	44.5
60.5	53.4	53.8	53.5	49.4	47.7	46.9	45.8	43	43.7	44.7	46.4	44.7
61.1	54.4	52.9	52.1	50.3	46.8	46.2	45.9	42.9	44	44.9	46.7	45.2
58.5	59.6	53.3	51.2	50.7	46.9	46.3	46.5	43.9	45.6	46.1	48.1	46.4
58.4	59.3	53.4	53.4	49.9	47.2	48	48.8	46.5	46.6	47.2	48.7	47.6
57.8	58.6	54	52.1	50	47.5	48.8	49.3	47.3	46.8	46.9	47.1	48
57.3	57.2	55.2	49.7	49.6	47.9	48.9	49.8	47.4	47.7	46.4	46.5	47.7
56.7	54.7	58	49.5	49.9	52.3	50.3	53.2	48.4	48.7	46.9	46.3	47.8

NM1_KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 50.0 1/3 LZSmin 63.0 1/3 LZSmin 80.0 1/3 LZSmin 100 1/3 LZSmin 125 1/3 LZSmin 160 1/3 LZSmin 200 1/3 LZSmin 250 1/3 LZSmin 315 1/3 LZSmin 400 1/3 LZSmin 500 1/3 LZSmin 630 1/3 LZSmin 800

56.1	54.2	56.8	50.2	50.9	54.5	50.1	53.5	49	49.1	49	47.3	48.6
56.1	55.4	57.6	52.7	55.1	53.6	52.9	53.4	51.5	52.9	51.9	48.3	50.1
56.3	54.3	56	56.7	56.2	52.6	53.3	54.3	54.2	55.1	55	51.1	51.5
57.2	53.2	55.6	59.6	56.5	53	57.7	58.4	55.9	56.2	58	54.3	56.6
56.1	56.7	59.1	65.1	56.4	60.5	57.7	61.2	60.5	57.7	58	59.1	58.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
39	38.4	36.9	34.8	33.5	30.2	27.1	24.5	22.7	21.7	22	22.6
39	38.6	37	34.5	32.9	29.6	26.9	24.3	22.5	21.6	21.9	22.6
39.6	38.7	37.5	35	33.4	30.4	27.8	25.2	23.6	22.7	21.9	22.6
41.5	41	40.1	37	34.5	31.8	29.2	26.3	24.3	23	22	22.6
45.5	45	43.6	39.9	37.1	33.5	31	27.6	25	23.4	22.4	22.7
48.5	47.2	44.6	40.4	38	34.6	31.8	28.8	26.5	24.6	22.6	22.8
49.4	47.8	45.6	40.8	38.5	35.7	33.1	30.3	27.7	25.3	23	23.2
50.2	48.7	47.1	41.7	39.2	36.7	34.1	32	28.6	26.5	24.4	24
50.5	49.5	48.1	43.3	40.5	37.8	37.2	32.4	29	27.2	25	24.6
52	50.5	49.8	46	44.1	43.4	41.8	38.7	35.4	34.8	32.6	32.1
52.4	50.3	49.1	46.7	45.1	44.1	43.3	40.8	38.4	37.6	35.3	35
50.8	49.7	47.7	45.9	44.2	43.2	42.2	40.8	37.9	36.9	34.1	33.5
49.2	48.7	46.5	45.1	43.6	42.3	41.1	39.6	36.3	35	32.1	31.4
48.3	48.2	46.5	45.1	43.6	42	40.8	39.1	35.7	34	30.6	29.4
48.4	48	46.9	45.9	44.5	42.1	40.5	38.3	34.9	32.6	29.3	27.7
49	48	46.8	45.3	43.9	41.1	39.4	37.3	34.3	31.4	28.2	26.3
48.7	49	47	45.2	44	41	39.4	37.1	34.6	30.6	27.6	25.7
48.4	49.5	46.8	45.3	44.4	41.1	40	37.3	35	30.5	27.6	25.6
48.5	49.1	46.7	45.3	44.5	41.8	40.5	38.8	36.2	31.3	28.3	25.8
49.2	49	46.7	45.2	44.5	41.8	40.8	39.6	36.5	31.6	28.7	25.9
51.1	50.2	49.1	47.7	47.7	44.2	44.1	43.7	40.2	36.8	31.7	27.6
54.1	54.9	51.8	51.5	49.8	47.3	47.5	47.9	44.1	44.1	34.2	30
56.1	58.4	54.9	54.2	53.3	51.4	50.7	49	46.7	43.3	38.1	34.3
56	58.2	54.6	53.7	53.3	51	49.6	48.7	46.2	42.2	38.1	33.3
55.5	56.8	54.3	52.8	51.9	49.2	47.7	46.6	44.3	39.8	35.7	30.9
52.7	53.4	51.2	49.7	48.8	46.2	44.4	43.2	40.8	36.5	32.6	28.3
50.7	50.8	49.1	47.4	46.2	44.1	42	40.4	37.9	34	30.1	26.5
49.1	48.5	47.4	45.2	43.8	42	39.9	37.9	35.3	33.8	28.1	25.1
48.1	47.1	46.1	44	42.2	40.7	38.2	36.1	33.7	32.1	27.2	24.7
47	46.4	45.5	43.6	**41.8**	40.3	37.8	35.8	33.4	31.6	27.1	24.6
47.8	46.3	46.1	44.6	43.6	41.5	38.7	37.1	35.2	33	29.3	25.7
48.3	47.2	47.1	45	44	42.3	39.8	38	36.8	34.7	30.6	26.5
50.5	49.7	49.2	46.7	45.9	44.6	42.1	40.6	38.7	37	33.3	28.8
53.5	52.8	51.8	49.3	47.9	46.8	44.7	42.7	40.6	38.7	35.1	30.5
56.4	54.5	54.6	50.5	49.5	48.5	46.5	44.4	42.4	40	36.3	32.1
55.8	53.5	52.8	50.3	48.2	47	45	42.6	40.4	37.8	34.4	31.2
53.1	51	50	47.6	45.5	44.1	41.9	39.4	37.2	34.6	31.4	28.5
50.1	48.3	47.2	44.6	42.3	40.5	38.3	35.8	33.7	31.2	28.3	26
47.5	45.9	45.2	42.2	39.5	37.4	35.3	32.9	30.8	28.3	25.9	24.4
45.5	44	43.3	40.5	37.6	35.3	32.8	31.1	28.3	26	24.3	23.7
43.9	42.3	41.3	38.8	35.6	33.1	30.6	28.9	26.2	24.5	23.4	23.2
42.5	41.3	40	37.6	34.8	32.6	30.4	28.5	25.8	24.5	23.2	23.2
42	40.8	39.8	37.5	34.6	32.5	30.5	28.3	25.4	24.5	23.2	23.1
41.9	41.3	40	38	35.1	33	30.7	28.5	25.7	24.6	23.3	23.3
42.5	42.1	41.5	39.2	36.6	35.1	31.6	29	26.3	25.3	23.7	23.4
45	44.6	43.4	42.1	39.9	37.6	35.3	33.1	31.6	30.6	29.7	27.7
49.2	49.1	48.1	45.2	41.9	39.7	39.5	36.4	32.7	31.3	29.8	27.7
54.3	52.7	51.3	47.7	44.7	42.7	41.3	41.8	35.5	33.4	32	29.2
52	51.4	49	45.8	42.5	39.9	38.1	38.3	32.4	30.5	29.3	27.1
49.2	48.9	46.8	43.4	40.2	37.1	34.8	35	29.3	27.5	26.4	25
47	47.1	44.8	41.7	38.6	35	32.7	32	27	25.5	24.7	24.1
45.4	45.9	43.3	40.4	37.2	33.8	32.2	31.1	26.4	25	24.2	23.8
44.6	44.6	42.3	39.6	37.1	33.7	32.3	30.8	26.8	25.3	24.1	23.9
43.4	44.3	41.6	39	36.2	33.5	32.5	30.5	26.9	24.7	23.8	23.8
42.5	43	40.8	39.4	37.5	33.2	32.7	31.3	29.3	26.9	26.5	24.5
42.1	42.6	40.7	39	36.9	33.2	32.5	30.9	28.4	26.2	24.9	23.8
43	43.4	41.5	39.2	37.4	33.9	33.5	31.2	28.4	26.2	24.8	23.7
42.7	42.5	41.2	39.3	37.4	35.1	34.3	32	28.8	26.3	24.5	23.6
42.8	42.4	41.2	39.1	37.6	35.3	34.5	32.6	29.3	26.6	24.5	23.6
43.6	43.5	42.8	40.3	38.7	34.9	34.2	32.6	29.5	26.2	24.2	23.5
43.8	42.4	41.3	39.5	37	33.3	32.3	30.5	27.6	24.6	23.3	23
42.5	41.2	39.9	37.7	35.2	31.4	30.2	28.1	25.8	23.6	23	22.8
41.5	40.5	39.1	37	35.1	31.2	28.7	26.4	24.7	23.1	22.6	22.8
41.1	39.7	38.7	36.4	33.9	30.5	27.7	25.7	24.3	22.8	22.4	22.7
41.1	39.7	38.9	36.6	33.3	30.3	27.9	26.3	24.7	23.2	22.7	22.8
42.5	41.3	39.6	37.2	33.7	30.7	27.8	25.8	23.9	22.7	22.3	22.7
45.4	43	41.2	37.7	35.2	31.4	28	25.5	23.5	22.4	22	22.6
46.6	43.8	42.4	39.1	35.3	31.6	28.2	25.6	23.5	22.4	22.2	22.7
47.7	45.1	44.1	39.6	35.8	32.1	28.8	26	23.9	22.6	22.2	22.7
48.3	46.5	44.9	41.6	36.6	33.2	29.9	26.6	24.6	23.2	22.4	22.8
49.1	46.9	45.1	42.5	38.3	35.7	32.5	30.1	27.5	26.2	24.5	23.4
48.1	46.7	44	42.1	39.5	38.2	37.3	35.5	34.8	31.4	28.7	25.9
46.6	45.6	43.4	42	40	38.7	37.9	37.4	35.8	31.8	29.2	26
46.4	45.4	43.5	42.1	40.3	39.2	38.1	37.9	35.6	32	29.6	26
45.6	44.5	43	41.6	39.3	38.2	36.4	35.3	34.1	29.6	27.5	24.7
44.4	43.7	42.7	40.6	38.1	36.2	34.4	33.3	32.5	27.9	25.9	24
44.4	43.6	42.2	39.7	37.5	35.6	33.4	32	30.8	26.7	25	23.6
44	43.4	42	39.6	37.2	35.2	32.9	30.9	29.6	25.3	23.9	23.2
44.1	44.2	42.3	40	37.4	35.4	32.8	30.8	29.5	25.1	23.7	23
44.6	44.4	43.4	40.6	38.4	35.8	34	32	30.6	25.7	24	22.9
45	44.2	43.4	40.9	38.6	35.8	34.2	32.1	30.3	25.8	24.1	22.9
44.8	43.7	43.6	40.2	38.7	35.7	34.4	31.5	29.6	25.7	24.2	23.1
44.7	43.7	43.8	40.4	40.1	36	34.5	31.6	29.7	26.1	24.4	23.2
45	44.2	44.6	40.8	40.7	37.3	35.7	32.5	30.6	27.4	25.2	23.5
44.7	44.5	44.4	40.8	40.6	38.1	36	32.8	30.7	27.2	25	23.6
44.6	44.7	43.9	40.4	40.5	37.8	35.4	32.1	30	26.7	24.5	23.5
44.4	43.9	43.3	39.9	39.9	37.4	34.8	31.9	29.7	26.5	24.3	23.4
44.3	43.6	43.1	39.9	40	38.1	35.2	32.3	30.3	27.2	24.9	23.6
44.4	43.6	43	40	40	38.7	35.4	32	29.3	26.2	24.2	23.3
44.4	44.2	43.1	41.3	40.1	37.4	34.7	31.4	28.1	25.3	23.6	23.1
44.4	43.9	42.7	41.4	40	37.3	34.7	31.3	27.8	25.3	23.5	23
44.1	43.1	42.5	40.9	39.5	37.3	34.6	31.2	27.7	25.2	23.5	23
44	43.2	42.8	41.1	39.9	38.1	35.4	31.8	28.3	25.5	23.7	23.3
44.5	43.9	43.7	41.9	40.4	38.7	35.5	32.2	28.6	25.9	24.2	23.5
46.3	46	45.5	44.9	43.2	39.9	36.2	32.6	29.3	26.3	24.8	23.5
48.5	47.6	46.7	44.9	43.3	40.4	37.1	33.6	30.5	27.5	25.6	23.9
47.9	46.8	46.2	44.2	42.6	40.1	37.1	33.7	31.1	28.4	26.4	24.9
47.6	46.7	46.5	44.5	43	41.2	37.5	34.4	32	28.9	26.9	25.5

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
48.2	47.7	47	44.9	43.6	41.7	38.7	34.9	32.8	29.4	27.1	25.7
49.1	48.2	47.8	45.6	44.6	42.4	39.5	36.4	35.3	32.9	29.9	26.5
51.6	51.7	51.1	48.3	47.9	45.2	42.8	41	39.2	37.3	33.7	29.1
56	54.6	54.8	51.8	50.3	49.2	46.3	44.4	42.5	40.3	36.8	32.1
58.2	55.5	55.1	52.8	50.9	49.8	47.6	46.3	43.9	41.2	37.7	33.7

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.5	24.5	0.8	No	No	
23.5	24.5	0.2	No	No	
23.5	24.4	0	No	No	
23.5	24.5	1.1	No	No	
23.5	24.5	0.7	No	No	
23.6	24.5	0.5	No	No	
23.6	24.5	-0.2	No	No	
23.8	24.5	0.7	No	No	
24	24.6	0	No	No	
27.9	26	0.4	No	No	
29.7	27	1.2	No	No	
28	26.2	0.4	No	No	
26.5	25.4	0.1	No	No	
25.4	25	0.2	No	No	
24.7	24.7	0.2	No	No	
24.5	24.6	1.2	No	No	
24.6	24.6	0.4	No	No	
24.6	24.6	1	No	No	
25	24.6	0.9	No	No	
25	24.6	0.1	No	No	
25.3	24.6	-0.2	No	No	
26	24.7	0.6	No	No	
28.6	25.1	0	No	No	
27.7	25	0.5	No	No	
26.2	24.8	3	No	No	
25	24.7	2.5	No	No	
24.5	24.7	0.1	No	No	
25.4	25	1.3	No	No	
27.5	24.8	1.9	No	No	
26	24.6	0.6	No	**No**	
25.4	24.6	0	No	No	
25.4	24.6	-0.1	No	No	
26.5	24.9	1.2	No	No	
27.9	25.4	0.9	No	No	
29.3	26.1	2	No	No	
27.9	25.6	3.6	No	No	
26.3	25	6.7	No	No	
25	24.6	5	No	No	
24.2	24.6	3.6	No	No	
23.9	24.5	4.2	No	No	
23.7	24.6	1.2	No	No	
23.7	24.5	0.1	No	No	
23.8	24.5	0.7	No	No	
23.7	24.4	0.4	No	No	
23.7	24.5	0.4	No	No	
25.7	25	0.8	No	No	
25.7	25	0.9	No	No	
26.8	25.3	3.4	No	No	
25.5	25	3.8	No	No	
24.5	24.7	3.1	No	No	
24	24.6	1.1	No	No	
23.9	24.6	0.6	No	No	
23.9	24.5	1	No	No	
23.9	24.6	7.4	No	No	
24	24.6	4.4	No	No	
23.8	24.5	0.3	No	No	
23.8	24.5	0.3	No	No	
23.7	24.4	0.3	No	No	
23.8	24.4	0.7	No	No	
23.8	24.4	1.1	No	No	
23.6	24.4	0.9	No	No	
23.5	24.5	3.7	No	No	
23.6	24.5	1.8	No	No	
23.5	24.4	0	No	No	
23.7	24.5	0.2	No	No	
23.5	24.5	0.6	No	No	
23.4	24.5	1.8	No	No	
23.5	24.4	1	No	No	
23.6	24.4	1.5	No	No	
23.6	24.4	0.1	No	No	
23.9	24.7	1.2	No	No	
25.2	26	0.3	No	No	
24.9	28.1	0.2	No	No	
24.7	26.3	0.3	No	No	
24.1	25.3	0.7	No	No	
23.8	24.8	0.2	No	No	
23.7	24.6	0.6	No	No	
23.7	24.6	3.4	No	No	
23.6	24.5	0.3	No	No	
23.5	24.4	0.5	No	No	
23.5	24.5	0.9	No	No	
23.6	24.5	0.1	No	No	
23.6	24.5	0.9	No	No	
23.7	24.6	1	No	No	
23.7	24.6	0.8	No	No	
23.7	24.5	1.2	No	No	
23.7	24.4	0	No	No	
23.6	24.4	1.1	No	No	
23.6	24.4	0.1	No	No	
23.6	24.5	2.7	No	No	
23.6	24.5	0.6	No	No	
23.7	24.5	-0.1	No	No	
23.7	24.5	0.4	No	No	
23.6	24.5	0.2	No	No	
23.7	24.5	0.3	No	No	
23.8	24.6	1	No	No	
23.9	24.7	0.3	No	No	
24.5	24.6	-0.1	No	No	

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
24.5	24.6	0.5	No	No	
24.9	24.7	0.1	No	No	
26.4	24.9	-0.1	No	No	
29.1	25.6	3.1	No	No	
30.6	26.4	4.5	No	No	

466		11/19/2021	1:02:47 PM	59.3	73.1	66.4	63.3	93.5	10.2	51.3	64	67.5	66.9	64.8	61.6	55.8	55.2	51.5
467		11/19/2021	1:02:48 PM	56.6	68.1	63.3	60.4	93.6	10.1	55.5	62.7	68	60.6	58.8	53.9	53.1	51.6	50.2
468		11/19/2021	1:02:49 PM	54.7	66.2	60.3	57.7	93.8	10.9	52.5	57	66.1	60.3	57	51.6	50.5	49.9	48.4
469		11/19/2021	1:02:50 PM	55.5	68.4	57.7	56.5	93.6	9.5	51.9	59.3	64.4	61.4	58	53.0	51.5	50.8	49.1
470		11/19/2021	1:02:51 PM	53.3	65.9	56.5	54.7	93.8	10.5	48.7	59.2	62.1	60.9	56.3	53.8	48.7	49.4	45.3
471		11/19/2021	1:02:52 PM	53.1	66.2	54.8	53.7	93.8	10	50.9	58.5	62	59.1	54.4	50.4	49.1	49.8	44.4
472		11/19/2021	1:02:53 PM	50.5	62.1	53.7	51.9	93.9	12.1	54.4	55.8	62.7	58.4	54.1	50.0	48.3	46.2	41.6
473		11/19/2021	1:02:54 PM	50.3	61.4	51.9	51.0	93.9	14.3	62.0	58.6	59.3	58.8	55.5	48.4	49.3	45.2	40.9
474		11/19/2021	1:02:55 PM	49.4	61.4	51.1	50.1	93.9	14.1	50.4	56.7	64.4	60.1	55.4	48.5	48	44.5	40
475		11/19/2021	1:02:56 PM	48.8	59.7	50.1	49.3	93.9	14	47.6	60.3	63.3	58.3	54.9	48.2	45.8	44.6	39.9
476		11/19/2021	1:02:57 PM	48.8	59.7	49.3	48.9	93.9	15.4	53.1	58.4	62.7	59.1	53.5	47.9	46.9	44.1	39.1
477		11/19/2021	1:02:58 PM	48.7	62.7	49.0	48.6	93.9	17.8	48.5	60.4	64.2	58.9	52.6	47.6	47.5	43.6	38.6
478		11/19/2021	1:02:59 PM	48.4	60.6	49.0	48.6	93.9	15.7	50.0	58.9	68	60.4	53.5	47.4	46.2	43.9	40.1
479		11/19/2021	1:03:00 PM	48.3	59.7	48.7	48.4	93.9	16.3	52.0	60.1	64.6	59.2	52.3	46.6	44.8	43.6	39.7
480		11/19/2021	1:03:01 PM	47.5	58.4	48.4	47.8	93.9	16.7	51.6	59.6	65.9	58.7	51.8	46.8	44.3	43.3	38.7
481		11/19/2021	1:03:02 PM	47.5	56.7	47.9	47.6	93.9	16.5	51.7	59.6	64.7	58.7	51.7	45.8	44.6	42.8	38.9
482		11/19/2021	1:03:03 PM	48.0	59.7	47.9	47.6	93.9	16.2	51.2	57.7	64.7	59.8	54	46.6	45.1	43.1	39
483		11/19/2021	1:03:04 PM	48.5	60.6	48.4	47.8	93.9	14.9	48.5	56	65.2	57.7	56	46.6	46	43.3	39.7
484		11/19/2021	1:03:05 PM	49.6	65.9	49.3	48.4	93.9	12.5	52.3	58.8	62.4	58.3	54.9	47.3	48.4	44.5	40.7
485		11/19/2021	1:03:06 PM	51.2	68.1	50.6	48.9	93.9	13.1	52.3	56	61.1	58.4	55.5	48.3	51.1	45.4	41.5
486		11/19/2021	1:03:07 PM	52.0	63.2	51.5	50.6	94.0	12.3	48.8	58.4	62.1	62.2	53.6	48.6	49.3	48.4	43.5
487		11/19/2021	1:03:08 PM	52.8	64.1	52.4	51.5	94.0	12.4	46.3	57.5	63.7	61.3	54.3	50.1	49.8	49.2	43.6
488		11/19/2021	1:03:09 PM	52.8	65.7	52.7	52.3	93.9	13.1	51.1	58.2	63.2	63.1	54.6	49.1	49.5	49	44.1
489		11/19/2021	1:03:10 PM	50.8	62.7	52.7	51.6	94.0	14.5	51.4	55.3	63.2	63.1	52.6	49.4	48.3	46.4	42
490		11/19/2021	1:03:11 PM	51.1	63.2	51.5	51.2	94.0	16.1	49.1	57.7	66	60	52.9	49.3	48.3	46.4	42.8
491		11/19/2021	1:03:12 PM	54.9	66.7	54.2	51.3	94.1	10.6	51.5	57.9	68.3	62.6	56	53.0	53	49.9	46.7
492		11/19/2021	1:03:13 PM	57.5	72.0	56.7	54.2	94.1	9.1	50.5	60.4	61.4	62.4	54.9	54.0	55.4	53.2	49
493		11/19/2021	1:03:14 PM	57.8	72.4	57.6	56.7	94.0	8.9	55.0	57.8	64	62.7	59.2	54.8	54.6	53.7	49.8
494		11/19/2021	1:03:15 PM	58.3	71.0	58.1	57.6	94.1	8	53.0	64.4	62.9	61.5	60	53.5	56.1	55	50
495		11/19/2021	1:03:16 PM	54.6	67.3	57.8	56.1	94.1	9.7	55.4	57	62.4	59.1	59.7	52.2	51.7	50.8	45.9
496		11/19/2021	1:03:17 PM	54.2	72.8	56.1	54.9	94.1	9.9	55.4	60.1	63.1	57	55.8	51.3	51	50.2	45.6
497		11/19/2021	1:03:18 PM	52.5	70.5	55.1	53.4	94.2	11.8	49.7	58.8	64.6	57.8	54.8	49.7	49.4	48.6	43.9
498		11/19/2021	1:03:19 PM	51.5	63.2	53.4	52.4	94.3	12.5	55.2	58.9	64.8	59	54.8	48.1	49.1	46.4	43.1
499		11/19/2021	1:03:20 PM	54.3	73.3	54.1	52.1	94.1	9.7	52.5	60.5	64	57.5	53.4	49.4	50.8	48	47.9
500		11/19/2021	1:03:21 PM	54.8	76.4	55.2	53.5	94.1	11.5	52.4	56.8	64.7	62.9	53.4	48.8	48.3	47.9	48
501		11/19/2021	1:03:22 PM	49.9	62.1	54.5	52.3	94.2	14.7	55.1	58	67.2	59.8	52.9	47.3	47.3	44.1	41.8
502		11/19/2021	1:03:23 PM	49.6	62.1	52.3	50.8	94.3	15	51.9	57.6	64.7	63.4	54	47.4	46.2	44.4	41.8
503		11/19/2021	1:03:24 PM	49.5	63.2	50.8	50.1	94.3	14.4	52.1	60.6	62.9	59.9	53.4	49.3	46.5	44.1	41.7
504		11/19/2021	1:03:25 PM	50.3	61.4	50.3	50.1	94.3	14.7	52.8	57.7	62.6	62.5	55.3	49.6	47.9	45.3	41.4
505		11/19/2021	1:03:26 PM	49.5	60.6	50.2	49.8	94.5	13.9	50.3	57.3	64.1	59.7	55.6	48.9	46.3	44.3	41
506		11/19/2021	1:03:27 PM	49.9	64.1	49.9	49.7	94.3	13.3	52.1	57.2	62.7	60.4	55.9	47.6	47	44.9	41.6
507		11/19/2021	1:03:28 PM	51.5	63.6	51.1	49.9	94.2	12.3	50.1	59.7	60.5	60	54.7	47.8	46.4	46.5	45.3
508		11/19/2021	1:03:29 PM	51.1	62.7	51.0	50.7	94.3	13.2	52.5	55.3	58.8	62.6	55.5	48.0	47.6	46.3	43.3
509		11/19/2021	1:03:30 PM	51.0	63.2	51.1	51.0	94.5	11.5	52.6	57	62	60.5	54.7	47.5	46.8	46.8	44
510		11/19/2021	1:03:31 PM	50.8	63.6	51.0	50.9	94.2	11.9	51.1	57.1	60.6	59.8	52.5	47.9	47.3	46.7	43.7
511		11/19/2021	1:03:32 PM	50.4	70.5	50.9	50.5	94.3	11.4	52.7	56.3	62.8	58.6	52.7	48.1	46.4	46.2	43.3
512		11/19/2021	1:03:33 PM	49.0	60.6	50.6	49.7	94.2	13.5	48.7	57.2	61.2	58.3	53	46.5	45.8	43.7	41.1
513		11/19/2021	1:03:34 PM	56.6	84.5	55.9	49.5	94.5	6.8	52.0	56.9	62.3	60.2	54.2	46.4	47.3	47.4	51
514		11/19/2021	1:03:35 PM	50.4	71.2	56.0	53.1	94.3	13.2	53.3	58.8	61.2	59.4	54.6	46.5	45.7	43.4	43.9
515		11/19/2021	1:03:36 PM	48.5	59.7	53.1	50.9	94.3	16.6	57.8	58.8	64.9	59.3	54.3	47.4	45.3	43.1	40.1
516		11/19/2021	1:03:37 PM	49.9	62.7	50.9	50.2	94.3	13.7	50.7	61.7	65.2	59.4	55.4	50.9	46.2	44.3	41.9
517		11/19/2021	1:03:38 PM	53.4	76.0	52.9	50.3	94.6	10.6	49.6	61.3	62.4	59.1	54.7	50.8	49.1	48	46.1
518		11/19/2021	1:03:39 PM	56.2	82.0	55.5	52.9	94.5	8.9	52.5	59.6	64.8	58.7	55.7	56.2	52.2	51	48.4
519		11/19/2021	1:03:40 PM	56.6	83.7	57.0	55.5	94.5	8.7	52.3	58.5	62.8	61.1	57	53.1	52.5	51.5	49.1
520		11/19/2021	1:03:41 PM	51.4	73.4	56.1	53.8	94.5	14.1	54.4	59.1	62.8	62.3	53.4	49.5	47.5	45.8	43.8
521		11/19/2021	1:03:42 PM	51.2	65.1	53.7	52.4	94.5	11.5	49.7	62.1	64.1	60.5	54.3	50.9	47.1	45.6	42.7
522		11/19/2021	1:03:43 PM	49.4	62.7	52.4	50.6	94.6	12.9	57.4	56.6	62.9	59.2	54.5	49.4	46.4	45.1	40.7
523		11/19/2021	1:03:44 PM	47.7	59.7	50.6	49.0	94.6	14.3	58.4	59.5	61.2	56.6	53	46.5	44.8	43.3	39.4
524		11/19/2021	1:03:45 PM	47.3	59.7	49.0	48.1	94.7	13.3	61.7	59.8	61.2	56.9	52.6	44.8	44.4	42.7	39.4
525		11/19/2021	1:03:46 PM	47.2	58.4	48.0	47.6	94.5	14.1	64.2	56.9	59.2	56.7	54.4	44.6	44.3	41.7	38.3
526		11/19/2021	1:03:47 PM	47.9	60.6	47.9	47.5	94.7	13.8	58.6	56.8	60.9	58.2	54.9	44.9	43.7	41.5	37.9
527		11/19/2021	1:03:48 PM	47.2	60.6	47.7	47.4	94.5	15	55.7	56.8	60.5	57.3	54.9	45.0	44.5	41.9	38.6
528		11/19/2021	1:03:49 PM	48.3	59.7	48.0	47.5	94.7	13.4	58.2	58.6	61.2	57.2	54.3	46.2	45.8	43.1	40.5
529		11/19/2021	1:03:50 PM	48.7	60.6	48.6	48.0	94.8	12.6	55.3	57.1	61.2	57.9	52.1	46.5	45.8	43.7	41.3
530		11/19/2021	1:03:51 PM	46.9	56.7	48.3	47.5	94.7	15.1	51.7	57.1	59.9	59.3	52.5	46.0	44	41.2	38.8
531		11/19/2021	1:03:52 PM	46.7	58.4	47.5	47.0	94.5	15.7	55.8	53.9	60.1	57.8	54.9	46.0	44.9	40.9	37.3
532		11/19/2021	1:03:53 PM	46.2	58.4	46.9	46.5	94.8	15.6	56.7	58.3	60.9	58	53.4	45.1	44.4	40	36.5
533		11/19/2021	1:03:54 PM	47.0	56.7	46.9	46.5	94.7	15.7	54.4	57.3	60	59.2	53.4	44.4	44.3	41.5	38.4
534		11/19/2021	1:03:55 PM	46.8	59.7	47.0	46.8	94.7	16.1	52.8	56	60.5	60.8	56	45.1	44.5	41.5	37.3
535		11/19/2021	1:03:56 PM	46.9	56.7	46.9	46.7	94.7	15.8	50.8	56.1	58.3	61.1	54.8	45.9	44.3	41.2	37.7
536		11/19/2021	1:03:57 PM	49.0	59.7	48.4	46.9	94.7	14.4	53.3	55.6	58.7	60.3	55.3	46.8	45.8	43.5	41.6
537		11/19/2021	1:03:58 PM	49.4	60.6	49.1	48.4	94.8	12.8	52.5	56.9	61.1	61.8	55.2	46.6	45.5	44.6	42.4
538		11/19/2021	1:03:59 PM	48.7	60.6	49.0	48.8	94.8	14.8	54.5	57.3	61.5	62	53.4	45.5	44.9	43.6	41.9
539		11/19/2021	1:04:00 PM	48.5	64.4	48.9	48.6	94.8	16.5	54.5	57.1	60.3	61.6	53.2	46.6	45.1	42.9	41
540		11/19/2021	1:04:01 PM	48.1	59.7	48.7	48.3	94.8	15.6	52.0	58.4	64.1	62.5	55.1	47.0	46	42.2	38.9
541		11/19/2021	1:04:02 PM	47.1	59.7	48.3	47.6	94.9	16.6	50.6	57.5	61.9	58.4	54.8	47.5	45	41.5	38.5
542		11/19/2021	1:04:03 PM	46.8	56.7	47.6	47.1	94.9	14.5	51.1	58.8	64.5	57.6	53.5	46.6	45.1	41.2	37.5
543		11/19/2021	1:04:04 PM	46.2	58.4	47.1	46.6	94.9	14.3	55.7	57.6	61.6	57	51.3	44.8	44.2	40.6	37.5
544		11/19/2021	1:04:05 PM	51.5	71.0	50.9	46.5	94.8	9.1	55.4	57.1	58.8	56.7	51.7	45.6	46	46.3	45.7
545		11/19/2021	1:04:06 PM	50.5	75.4	51.1	50.0	94.8	10.5	51.1	57.1	58.8	58.1	50.7	45.1	44.7	43.9	45.1
546		11/19/2021	1:04:07 PM	48.9	70.8	51.4	49.3	94.9	12.5	50.6	56.2	60.5	55.7	51.8	46.1	45	43.8	41.8
547		11/19/2021	1:04:08 PM	47.3	59.7	49.3	48.2	94.9	15	50.3	59.4	60.5	57.3	52.3	45.7	44.4	42.4	39.3
548		11/19/2021	1:04:09 PM	48.7	60.6	48.6	48.3	94.9	17.6	56.4	59.8	60.4	64.5	52.7	47.0	45.5	43.4	40.6
549		11/19/2021	1:04:10 PM	50.2	68.3	49.8	48.6	95.1	14.6	54.0	58.1	64.1	61.1	53.3	47.6	47.1	45.5	42.8
550		11/19/2021	1:04:11 PM	51.0	69.9	50.6	49.8	94.8	14.5	53.0	57.8	66.7	58.9	51.5	48.1	47.3	47.3	43.2
551		11/19/2021	1:04:12 PM	50.3	60.6	50.7	50.3	94.9	12.7	53.2	57.4	66.6	60.8	51.6	47.5	47	45.7	43.3
552		11/19/2021	1:04:13 PM	51.3	69.2	51.4	49.8	94.9	14.2	52.3	57.1	60.8	60.5	53.2	49.7	48	44.9	42.8
553		11/19/2021	1:04:14 PM	54.0	66.4	53.3	51.5	94.8	10.4	51.7	57.4	66	60.2	55.9	56.0	51.2	48	46.5
554		11/19/2021	1:04:15 PM	55.2	67.3	54.6	53.3	95.2	10.6	50.9	62.5	57.9	64.5	55.7	53.3	52.7	49.7	48.2
555		11/19/2021	1:04:16 PM	53.6	66.7	54.5	53.9	95.1	12.7	58.8	56.5	59.9	66.1	54.6	52.6	49.9	49.8	45.8
556		11/19/2021	1:04:17 PM	52.6	64.4	54.0	53.2	95.2	15.3	51.9	55.3	62.2	61.5	54.8	50.4	48.5	48.6	45
557		11/19/2021	1:04:18 PM	53.4	64.1	53.3	53.1	95.1	12.6	51.7	57.9	69.5	59.9	55.1	50.7	49.3	50.1	44.8
558		11/19/2021	1:04:19 PM	54.0	67.3	53.8	53.3	95.3	9.5	50.8	57.1	67.6	59	54.3	49.3	49.8	51.5	45.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
559		11/19/2021	1:04:20 PM	54.3	66.2	54.1	53.7	95.1	10.5	51.9	57.5	63.1	58.6	56.4	49.2	51.1	51	45.9
560		11/19/2021	1:04:21 PM	55.2	66.9	54.8	54.1	95.2	10.4	47.9	57.2	65.7	58.3	54.6	50.9	52.3	51.4	47.6
561		11/19/2021	1:04:22 PM	55.8	68.3	55.7	54.7	95.2	10.2	52.8	55.7	66.2	58.6	55.3	51.6	52.2	51.9	48.8
562		11/19/2021	1:04:23 PM	57.5	70.9	56.9	55.7	94.9	8.8	49.7	61.8	66.6	61.4	56.7	53.2	54.2	53.3	50.2
563		11/19/2021	1:04:24 PM	55.4	68.7	56.9	55.9	95.2	11	51.1	63.6	65	62.1	57.4	51.2	51.6	50.9	48.2
564		11/19/2021	1:04:25 PM	53.6	66.2	55.9	54.6	95.3	17.1	55.2	58.1	66.4	60.7	60.8	50.3	48.4	48.6	46.9
565		11/19/2021	1:04:26 PM	53.5	67.6	54.6	53.9	95.2	18.9	50.9	55	72.4	69.1	59.8	53.4	47.7	48.1	46.2
566		11/19/2021	1:04:27 PM	57.2	69.0	56.4	54.0	95.3	15.3	50.1	58.7	71.9	68.6	61	53.3	52.3	52.1	50.1
567		11/19/2021	1:04:28 PM	58.2	71.1	57.9	56.4	95.3	17.3	51.8	57.7	67.1	76.3	60.2	56.0	54.5	52	50.2
568		11/19/2021	1:04:29 PM	53.4	67.4	57.2	55.3	95.3	16.8	52.7	59.1	64.3	71	58.6	52.0	49.9	47.6	45.6
569		11/19/2021	1:04:30 PM	54.4	67.3	55.3	54.7	95.3	12.1	50.3	58.7	61	67.9	55.3	51.5	51	49.5	47.1
570		11/19/2021	1:04:31 PM	56.2	71.8	55.7	54.8	95.4	9.1	51.9	57.8	63.2	62.2	57.6	52.1	51.1	51.2	49.8
571		11/19/2021	1:04:32 PM	57.2	70.2	56.7	55.7	95.3	8.3	50.6	59.4	63.7	57.9	60.6	52.9	53	53	50.4

44	35	29	51.6	63.7	67.2	66.9	67.7	66.2	63.1	62.5	58	52.9
43.2	35.4	29.9	55.2	63.9	68.4	65.7	65.7	63.4	59.9	59.3	55	49.4
41.6	34.2	29.1	53.9	62.5	67.9	63.2	62.7	59.9	57	56.1	52.7	46.6
42.9	34.5	29.2	52.9	60.1	66.6	62.3	60	56.6	54.1	53.3	50.5	44.2
39	30.6	28.6	52.2	59.9	64.8	61.5	58.8	54.7	52.7	51.9	49.6	43.4
38.8	31.2	28.8	52.2	59.9	63.3	61.1	57.4	54.2	50.5	50.5	47.4	41.1
34.3	27.3	28.4	54.5	58.7	63	60	55.9	52.3	49.9	50	45.7	39.8
33	27.5	28.4	60.4	58.6	62.7	59.3	55.4	50.9	49.3	47.9	43.5	37.1
33.4	27.4	28.4	59.4	58.1	63.8	59.9	55.5	49.6	49.7	46.4	42	35.2
31.9	26.7	28.4	55.9	59.8	63.8	59.4	55.6	49	48.3	45.3	41	34
32.2	26.9	28.4	53.4	59.8	63.7	59.5	55.1	48.6	47.2	44.9	40.2	32.8
32.3	27	28.4	53.3	60	64	59.3	54.2	48.1	47.7	44.3	39.5	32.6
34	28.8	28.4	51.8	59.9	67.4	60.2	53.6	47.9	47.9	44.1	39.9	33.6
35.2	28.5	28.4	52.1	60.5	66.9	60.3	53.5	47.6	46.7	44.1	39.9	34.9
32.3	27.5	28.4	52	60.3	66	59.5	52.9	47.2	45.6	43.7	39.7	34.4
33.3	27.7	28.4	52.3	60	66.2	59.2	52.4	47.1	45	43.4	39.1	33.3
32.6	27.1	28.3	52.4	59.6	65.5	60.1	53.7	46.6	45	43.1	39.1	33.3
32.9	27.6	28.4	51.6	59	65.7	59.7	55.4	46.9	45.9	43.3	39.5	33.1
34.5	30.2	28.6	51.7	58.6	64.8	58.9	55.4	47.4	48.2	44.1	40.2	34
33.6	28.1	28.4	52.2	58.4	63.4	58.7	55.7	48.1	51	45.1	41.2	33.9
35.3	28.3	28.4	52.1	58.9	63	61.3	55.4	48.5	50.2	47.5	42.8	34.9
38	31.7	28.8	50.2	58.2	63.4	61.4	54.7	49.6	49.9	48.7	43.3	37.1
40	33.5	29	51	58.7	64	62.5	54.6	49.4	49.7	49	43.8	39.3
38.3	32.6	28.9	52.2	58.4	63.3	63.6	54.4	49.9	49.6	48.8	43.8	39.5
37.7	32.2	28.8	50.8	58.2	65.4	62.6	53.4	49.4	48.8	47.4	42.9	38.5
40.6	35	29.2	51.2	58.1	67.6	62.6	55.5	52.3	52	49.3	45.9	40
43.9	38	30.1	51.3	59.7	67	62.6	55.3	53.5	54.6	52.2	48.3	43
44.1	37.7	30.4	54.4	59.7	64.6	62.8	57.9	54.7	54.8	53.4	49.4	44
44.5	38.8	30.9	54.1	63.9	64.6	62.8	59.8	54	55.8	54.5	49.9	44.5
41.1	35.5	30	55.3	62	63.5	62.2	60	53.6	55.4	54.2	49.6	44.2
42.1	39.1	32.1	55.8	60.2	63.3	60.2	59.8	53	53.5	52.3	47.6	42.7
40.3	34.7	29.8	54.9	60.2	64.7	58.8	57.4	51.8	52.1	51.3	46.6	42.5
40.4	34.2	28.8	55	59.5	64.6	58.8	56	50.6	50.5	49.5	44.9	40.9
45.5	39.5	32.4	54.5	60.2	64.8	58.7	55.3	49.5	50.7	48.4	47.6	45
47.7	46.5	37.8	53.7	60	64.8	62.2	54.2	49.4	50.6	48.6	48.8	47.7
39.8	34.3	28.9	54.4	59.2	66.6	62.4	53.8	49	49.3	48.1	48.1	46.5
37.8	30.6	28.6	54.3	58.3	66.2	62.7	53.7	48	48.1	46.1	45.3	43.5
35.4	29.6	28.4	52.7	60.1	65.3	62.6	53.8	48.8	47.2	45.1	43.5	40.8
36	31.4	28.6	53.2	59.4	64	62.3	54.9	49.4	47.5	45.2	42.5	38.3
35.4	30.6	28.6	52.3	58.3	63.8	62.2	55.4	49.5	47.4	45.1	41.8	37
35.7	30.5	28.8	52.4	58.1	64	60.6	55.9	49.1	47	44.9	41.6	36.1
38.4	30.9	28.8	52.1	59.3	63.2	60.6	55.7	48.5	46.9	46.1	44.4	37.6
37.3	31.3	29.2	52	59	61.3	62.3	55.5	48.1	47.3	46.2	43.8	37.4
36.9	29.6	28.6	53.1	57.4	61.5	61.9	55.7	48	47.6	46.7	43.9	37.4
35.6	31.3	29	52.1	57.7	61.6	61	54.7	48.1	47.2	46.7	44	37
37.3	34.8	29.5	52.7	56.8	62.6	60.1	53.6	48	47.1	46.7	43.8	37.1
36.7	33.6	29.9	52.8	57.2	62	59.3	53.3	48	46.8	46.3	43.4	37.1
50.7	44.2	34.7	52.1	57.2	62.1	60	54	47.1	47.3	47.3	50.2	49.9
42.8	38	32	53.1	58.3	62.1	60	54.8	46.9	47	47.3	50.2	50.1
35.2	30.1	28.9	56.6	58.8	64.3	59.9	54.6	47.2	46.1	45.1	47.1	46.5
38.6	32.3	29.2	56.6	61.1	65.6	59.9	55.3	49.9	46	44.4	44.1	42.7
43.5	39.1	30	54	62.5	64.7	59.5	55.1	50.6	48.4	47.2	45.9	43.4
46.6	39.5	30.1	52.9	60.6	64.5	59.4	55.5	55.1	51.2	50.1	47.8	45.9
46.8	44.4	30	52.7	60.3	64.5	60.7	57	55.2	52.5	51.7	49.4	47.5
41.1	35.2	30.3	54.3	59.5	63.9	62	56.3	53.7	51.8	50.9	48.4	46.3
42.3	38.2	31.3	53.9	61.4	64.8	62.2	54.9	51.9	49.7	48.5	46.1	43.7
35.3	30.8	28.7	57.1	61.3	63.6	61	55.4	51.2	48.2	46.9	44.3	43.1
31.9	27.2	28.4	58.5	59.5	63	59.8	54.4	49.9	47	45.7	42.3	39.8
32.1	27	28.4	61.3	60.1	62.2	58	53.4	48	45.7	44.3	40.6	36.5
32.6	36.5	28.4	63.9	60.3	61.3	57.3	53.9	46.3	45	43.3	40.1	34.4
40.8	34.4	28.4	64.1	58.2	61.6	58.3	54.7	45.5	44.6	42.4	39	39.7
33.2	30.2	28.4	61	57.3	60.6	58.4	54.9	45.3	44.5	42	38.6	39
35.8	29.3	28.4	58.8	59.2	61.7	57.9	55.5	46	45.5	42.7	40	36.4
35.2	28.6	28.3	59.1	57.8	61.4	58	54.3	46.6	45.8	43.4	41	36.1
31.9	26.5	28.3	56.5	57.4	60.9	59.2	53.2	46.5	45.6	43.2	40.7	35.4
30.7	26.6	28.3	56.4	57.3	61	59.2	54.5	46.1	44.9	42	39.6	33.5
30	27.1	28.4	56.4	57.4	60.9	58.5	54.4	46	44.8	41.2	38.3	31.9
30.8	28.2	28.5	56.8	57.9	60.8	58.9	54	45.6	44.7	41.3	38	30.9
30.3	26.4	28.4	55.9	57.3	60.6	60.3	55.5	45.2	44.7	41.5	38	31.1
31	27.1	28.4	53.4	57	61	60.8	55.2	46	44.5	41.3	37.7	30.9
35.4	29.9	28.3	53.7	56.6	59.7	61.2	55.4	46.6	45.4	43	40.6	34.3
36.5	30.8	28.4	53.7	56.7	60.8	62	55.7	46.8	45.6	44.1	41.7	36
35.4	31.8	28.6	54	57.6	61.3	61.8	55.2	46.5	45.5	44	42	36
34.7	30.4	28.5	54.8	57.5	61.5	62	54.2	46.5	45.2	43.7	41.9	35.7
33.8	30.5	28.4	53.7	58.4	63.7	62.9	54.7	46.9	45.8	43.2	41.4	35.3
31.7	26.7	28.3	52.9	58.2	63.6	61.8	55.1	47.5	45.9	42.6	39.9	34.2
31.4	29	28.5	51.9	58.9	64.5	60	54.9	47.3	45.4	42	39	32.8
33.1	31.3	28.8	54.6	58.8	64.1	58.6	53.9	46.9	45.1	41.5	38.1	33.1
42.3	34.6	29.6	55.6	58	62.7	57.6	52.9	45.8	45.7	45.8	44.8	41.3
41.6	34.2	30.1	55.3	57.9	60.7	58.1	52.2	46	45.6	45.5	45.5	42.1
38.3	33.5	29.2	53.3	57.7	60.5	57.6	51.8	46.1	45.3	45.6	45.6	42.7
33.6	28.3	28.3	52.3	59	60.7	57.3	52.2	46	45.1	43.8	42.9	39.2
32.5	26.9	28.4	55.5	59.9	60.7	63.3	52.7	46.7	45.3	43.4	41.2	36.9
35.5	31.1	28.7	55.8	59.9	63.2	63.6	53.4	47.4	46.8	45.1	42.2	35.4
36.2	31.7	29	54.7	59.6	65.9	61.6	52.8	47.9	47.2	46.6	43	36.2
36.6	30.1	28.5	54	58	66.8	60.8	52.1	48	47.2	46.6	43.4	36.5
36.9	31.1	28.6	53.3	58.3	65.9	61	53.1	50.3	48.1	45.9	43.1	37.2
41.1	33.9	29.1	53.5	58	66.1	60.6	55.3	54.4	50.3	47.3	45.6	40.1
42	34.4	29.2	52.1	61.8	64.8	63.4	55.5	54.5	52.1	49	47.4	41.5
38	31.2	28.6	58.3	60.2	62.1	65.6	55.4	54	51.8	49.6	47.3	41.1
36.1	29.4	28.5	56.6	58.4	62.3	65.4	55.2	52.9	50.6	49.6	46.4	39.4
36.6	30.1	28.6	54.8	58	68.5	63.3	55.4	51.5	49.5	49.8	45.6	37.6
36.3	30.2	28.6	52.8	58.1	68	61.3	55.1	51.1	49.8	51	45.2	37

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
36.6	30.6	28.7	52.6	57.8	67.4	60	55.9	49.9	50.7	51	45.7	36.7
37.7	31.5	28.6	52.1	57.7	65.8	59.5	55.9	50.6	51.8	51.2	47	37.3
40.4	36.4	29.8	52.6	57.5	67	59.2	55.3	51.3	52.2	51.8	48.6	40
44.4	40.4	32.4	52.3	61.2	66.6	60.5	56.6	52.7	53.6	52.8	49.6	43.3
44.8	39.9	32.3	51	63.5	66.1	61.7	57	52.5	53.8	52.8	49.6	44.3
42	36.4	30.3	54.1	62.3	66.5	61.7	59.8	51.6	52.2	51.6	48.7	44.2
40.7	35.6	29.9	54.2	60	71.5	67.4	60.2	53.1	50.1	50	47.5	42.9
45.3	40.7	32.2	52.5	58.8	72.6	68.7	60.6	53.3	51.5	51.3	49.3	44.3
44.1	39.2	31.1	51.8	58.5	71.2	74.9	60.9	55.5	53.7	52.1	50.2	44.8
39.6	34.3	29.3	53.1	59.6	69.2	74.9	60.1	54.7	53.1	51.4	49.6	43.8
41.2	36.8	30.3	52.2	59.1	66.7	72.8	59.1	53.3	51.4	49.6	47.5	42.1
44.3	38.5	30.5	51.9	59.1	64.1	70.2	57.7	52.5	51.3	50.7	48.9	43.8
44.2	36.8	29.4	52.7	59.1	64	66.9	59.8	52.9	52.4	52.3	50	44

46.3	36	50.3	61.5	64	64.7	65.8	63.4	59.9	59.4	55.1	49.4	42.6
42.6	33	51.3	62.6	67.1	63.2	62.7	59.9	57	56.1	52.7	46.6	39.6
39.6	31.3	52.5	60	66.2	61.6	60	56.6	54.1	53.3	50.5	44.3	37.1
37	30.1	51.9	59.3	64.9	60.9	58.8	54.7	52.7	52	49.7	43.5	35.6
35.6	29.5	50.1	58.6	63.2	61	57.4	54.1	50.6	50.5	47.4	41.1	33.1
33.1	29	49.8	58.6	62.3	60	55.9	52.2	49.4	50	45.7	39.6	31.8
32.1	28.9	49.4	57	62	59	54.7	50.9	48.9	47.9	43.5	37.1	29.7
29.7	28.6	54.9	56.6	60.8	58.7	54.4	49.5	48.7	46.4	42	35.1	28.5
28.5	28.5	55.9	56.8	60.9	59	55.2	48.9	48.4	45.3	40.9	34	27.8
27.8	28.4	52.6	57.3	62.5	58.5	54.9	48.4	47	44.8	40.2	32.8	27.2
27.2	28.4	51.7	58.7	62.9	58.3	54.1	48	46.5	44.3	39.5	32.3	27
27	28.4	50.8	58.5	62.6	58.9	53.2	47.6	46.4	43.7	38.7	32	26.8
28.5	28.5	50.1	58.5	63.8	58.6	52.9	47.3	46.7	43.8	39	32.5	26.9
28.7	28.4	50.1	59.3	65.4	59.5	52.8	46.7	45.6	43.7	39.7	33.5	28.3
28.3	28.4	50.8	58.8	65.3	58.6	52.2	46.8	44.8	43.4	39	33.2	27.8
27.8	28.4	50.2	59.5	65.1	58.4	51.8	46.3	44.6	43	38.8	33	27.6
27.8	28.4	51.4	57.6	64.6	58.9	51.8	46.1	44.5	42.9	38.9	32.8	27.3
27.6	28.4	49.6	57.3	64.8	58.3	53.7	45.9	44.6	42.8	39	32.6	27.2
29.6	28.6	49.5	57.2	63.5	58.1	54.8	46.7	45.6	43.3	39.5	33	27.6
29.4	28.6	51.3	57	62.1	57.4	54.3	46.7	46.4	43.9	40.1	33.3	28.6
28.6	28.5	50.2	57.2	61.8	58.8	54.3	47.8	49.5	45.2	41.2	33.8	28.4
30.7	28.7	48	57.1	61.6	60.3	53.9	48.5	49.3	47.5	42.8	34.9	28.5
33	28.9	47.1	55.9	62.8	61.2	54.3	49.1	49.2	48.6	43.2	37.1	30.7
33.6	29	50.7	56.7	62.5	62.5	53.3	49.1	48.8	47.4	42.7	38.5	32.4
32.7	28.9	49.6	56.7	63.3	61	52.8	48.9	48.4	46.8	42.4	38	31.9
34.5	29.1	49.1	56.7	65.4	60.7	52.8	49.4	48.5	46.9	42.9	38.1	32.3
37.1	29.8	50.2	58.3	64.4	62	54.8	52.3	52	49.4	46	40	34.5
37.6	30.4	50.8	58.1	63.1	61.7	55	53.8	54.3	52.1	48.3	43	37.2
38.8	31	53.3	59.1	63.4	61.8	57.7	53.7	54.7	53.5	49.5	44	37.7
38.4	30.9	53.4	59.6	62.8	60.2	59.4	52.7	53.5	52.3	47.6	42.4	36.6
38.9	31.6	54.5	59.4	61.8	58.5	57.5	51.9	52	51	46.3	41.8	36
38.2	31.5	52.2	58.8	63.3	58	55.9	50.6	50.4	49.5	44.9	40.9	36.1
36.1	30.4	51.7	58.6	63.6	57.9	55.1	49.3	49.7	47.8	43.9	40.3	35.1
39	32	53.3	59	63.9	57.7	54	49	49.6	47	43.6	40.6	34.5
46.2	37.7	52.3	58.1	63.4	57.7	53.5	49	49.3	47.5	46.4	44.9	38.2
44.6	36.2	52.8	57.9	64.8	60.6	53	48	48.2	46.1	45.3	43.6	41
40.9	33.1	52.7	57.5	65	60	53	47.2	47.1	45.1	43.5	40.9	37.3
37.3	30.8	52	57.4	64	60.9	53.3	47.8	46.7	44.5	42.5	38.3	34.2
34.2	29.5	52.4	58.4	63.2	60.9	53.5	48.7	46.7	44.5	41.7	37	32.7
32.7	29	51.2	57.1	63.2	60.4	54.9	49	46.7	44.6	41.3	36.1	31.4
31.4	28.9	51	57.3	62.9	60.1	55.1	48.1	46.6	44.5	41.3	35.8	30.8
30.9	28.8	50.3	57.3	61.3	59.6	55	47.7	46.5	44.8	41.6	35.8	30.7
31.4	29.1	49.7	56.7	59.7	60.5	54.7	47.4	46.6	45.6	43.5	37.2	30.8
31.1	29	51.9	56.3	60	60.7	54.8	47.7	46.8	46.2	43.5	37	30.1
31.3	29	51.4	56.6	60.3	59.8	53.3	47.6	46.9	46.5	43.7	36.1	30.1
34.1	29.4	50.8	56.1	60.9	59.3	53	47.6	46.5	46.3	43.2	35.9	30.5
34.2	30.1	50.7	56.6	60.9	58.5	52.7	47	46.1	44.8	42.1	36.3	32.9
43.1	33.9	49.6	56.8	61.5	58.6	52.7	46.5	46.1	44.2	41.8	37.1	34.3
43.6	34.7	51.5	56.8	61.1	59.5	53.8	46.4	46.1	45.2	47.1	46.5	40.3
40.2	32.5	53.1	57.6	61.2	59.1	54.1	46.4	45.6	44	44.1	42.7	36.6
36.6	30.6	53.9	58.4	64.3	59.2	54.1	47.3	45.6	44	42.8	40.5	34.5
38.6	30.1	51.8	60.6	63.1	58.4	54.5	49.6	46.1	44.2	42.9	40.4	34
39.4	30.2	51.5	59.9	62.8	58.3	54.3	50.6	48.4	47.4	45.8	43.3	38.1
44.7	30.5	51.7	58.9	63.5	59.5	55.4	53.7	51.2	50.1	47.8	45.6	38.9
43.1	30.6	52.1	58.7	62.9	60.3	54.8	51.7	49.7	48.5	46.1	43.7	39.9
39.9	31.1	51.8	58.8	62.6	60.9	54.2	51.1	48.2	46.9	44.3	42.3	38.3
39.2	31.1	51.3	58.9	62.6	59.8	54.2	49.9	47	45.7	42.3	39.8	35.7
35.7	29.7	57.3	58.6	61.9	57.9	53.3	48	45.7	44.3	40.7	36.6	32.3
32.3	28.9	56.9	58.5	61.3	57.3	52.8	46.3	44.9	43.3	39.6	34.4	29.8
35.2	28.6	60.7	58.2	59.7	56.6	53.2	45.4	44.5	42.4	39	33.3	29.7
35	28.5	61.1	57.3	59.8	56.7	53.8	45	44	41.7	38.3	33.2	33.8
35	28.4	58.6	56.3	59.4	57.6	54.4	44.8	43.9	41.7	38.2	36.4	32.4
32.4	28.4	57.4	57.2	60.4	57.1	54.3	45	44.5	41.9	38.5	36	30.7
30.7	28.4	56.6	57.1	60.7	56.9	53	45.9	45.4	42.7	40	35.4	29.5
29.4	28.3	54.3	56.3	59.9	57.5	52.4	45.9	44.6	42	39.6	33.5	27.8
27.8	28.3	54.1	55.5	59.9	58.2	52.7	45.6	44.5	41.2	38.3	31.9	27.1
27.3	28.4	54.7	55.8	60.1	58	53.8	45.4	44.4	40.5	37.1	30.9	26.7
28.1	28.5	55	56.9	60	57.9	53.3	44.6	44.2	40.5	37.4	30.6	27.3
28	28.5	53.5	56.4	59.7	58.9	53.4	44.7	44.3	41.3	37.5	30.4	27
27.3	28.4	51.2	56	59	60	54.6	45.1	44.2	41	37.3	30.2	26.7
29.5	28.4	52.1	55.7	58.6	60.2	54.5	45.2	44.3	41.3	37.7	31	27.2
30.5	28.4	52.4	55.7	58.7	60.1	55	46.4	45.3	43	40.6	34.3	28.7
32	28.5	52.6	56.4	59.2	60.6	54	45.9	45.1	43.7	41.5	35.4	29.7
31.7	28.6	53.8	55.9	60.5	61.4	53.4	45.6	44.9	43.2	41.2	34.9	30.5
31.9	28.5	52.4	56.6	60.1	61.6	53.3	46.4	44.9	42.6	39.9	34.2	29.9
30.3	28.4	51.6	57.3	62.5	59.9	54.6	46.9	45.2	41.9	39	32.8	28.4
29.5	28.5	51.1	58.2	61.7	58.5	53.8	46.7	45.1	41.5	38.1	31.7	27.2
31.3	28.7	51.2	57.6	62.7	57.6	52.4	45.5	44.5	40.9	37.7	31.8	28.7
34.1	29.5	54	56.3	60.7	57	51.7	45.3	44.6	40.8	37.5	32.6	30.8
35.5	30.4	53.4	56.2	59.6	56.9	51	45.2	45.1	44	43.8	40	32.9
35.9	30.2	51.7	56.7	59.4	56.5	50.5	45.1	44.8	43.9	42.9	39.2	32.8
32.7	29.2	50.8	56.6	59.9	56.5	51.7	45.6	44.6	42.9	41	36.6	30.7
30.7	28.6	50.8	58.1	59.5	57.4	51.8	45.6	44.6	43.1	40.8	34.6	28.7
30.7	28.7	54.2	58.5	60.7	61.7	52.6	46.6	45.3	43.3	40.8	34.2	28.3
31.9	29	53.2	57.9	63.2	60.2	52	47.3	46.7	45.1	42.2	35.3	30.6
31	28.9	52.3	57	65.9	60	51.5	47.4	46.9	45.9	43	35.8	30.5
31.2	28.7	52	57	63.5	60.2	51.6	47.1	46.6	44.8	42.4	35.5	30.1
33.2	29	51.8	57.2	63.4	60	53.3	52.2	48.2	45.5	43.2	37.2	31.2
34.1	29.2	51	57.3	61.9	60.4	54.5	53.6	50.3	47.3	45.6	40.1	33.2
33.8	29.1	50.9	58.4	60.6	63.1	54.8	52.9	50.6	48.9	46.4	39.4	32.3
32.3	28.8	54.6	56.8	60.4	63.3	54.7	51.5	49.5	48.9	45.5	37.7	30.8
30.8	28.6	52.8	56.6	62.6	61.3	54.3	51	49.1	49	45	37	30.4
30.5	28.6	50.7	56.9	66.6	60	54.5	49.9	49.4	49.8	45	36.5	30.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
30.5	28.6	51.6	56.7	65.1	59.2	54.4	49.4	49.6	50.8	45	36.3	30.2
31.2	28.7	49.5	56.5	65	58.4	55	49.4	50.7	51	45.7	36.7	30.5
35.8	29.6	49.1	56.3	65.6	58.3	54.7	50.4	51.5	51.1	46.9	37.2	31.1
39.2	31.7	50.3	56.4	65.3	58.4	55.2	51.4	52.1	51.8	48.7	40.1	36
39.8	32.2	50	61	65.3	60.3	56	51.6	52.2	51.6	48.7	43.4	39.2
39.4	32	50.8	60	65	60.8	57	50.8	50.1	49.9	47.5	42.9	37.8
37.8	31	52	57.5	66.1	61.2	59.6	50.5	48.8	48.9	46.7	41.7	36.4
39.6	31.6	50.9	57.2	71.2	66.6	59.4	52.3	48.9	48.9	46.9	41.8	36.8
40	31.7	51.2	57.4	69.1	68.8	60.2	53.2	51.5	51.2	49.3	43.8	39.1
39.1	31.2	51.6	57.9	66.7	72.8	59.1	53.3	51.4	49.5	47.5	41.7	36.8
37.5	30.6	51.1	58.4	64	70.2	57.2	52.2	51	49.2	47.1	41.3	36.5
38.6	30.8	50.6	57.9	63.1	67	56.8	51.9	51.1	49.6	47.4	41.4	36.5
37.4	30.1	50.6	57.8	63.5	63.5	57.7	52.2	51.1	50.7	48.9	42.9	37.1

33.1	41	41.3	41.6	53.4	57.3	57.2	61.2	59.7	60.8	58.5	59.8	64.5	64.6	59.6
31.3	44.6	48.9	44.9	57.5	61.1	61.4	66.6	62.5	61.1	53	57.9	56.6	54.8	55.1
30.1	43	46.2	49.7	54.3	57.3	56.4	59	65.7	58.2	57	56.5	55.3	54.2	52.2
29.5	49.7	53.8	48.4	50.4	50.4	54.6	52.7	62.9	58.6	56.2	55.1	58	54	53
29	47.6	46.5	45	52.3	51.8	58.3	58.7	58	56.6	56.3	52.5	54.9	53.1	52.1
28.9	40.6	48.8	45.8	51	46.7	57.6	56.5	58.1	56.7	57	54.3	53.9	51.1	50.4
28.6	42.7	47.5	44.8	52.6	53.4	53.1	58.6	56.7	54.9	53.8	52.1	54.7	52	48.8
28.5	43	47.5	50.8	49.1	51.3	56.2	58	51.4	55.8	56.1	55	52.2	51.6	51.6
28.4	45.4	45.5	46.6	47.6	45.6	56.5	57	57.7	61.4	57.9	52.2	54.6	53.2	50.4
28.4	53.2	55.9	44	46.9	51.7	55.9	59.5	57.5	58.6	54.9	53.6	53	51.6	49.5
28.3	60.1	41.7	43	48.6	54	60	56	56.1	58.7	56	52.9	53.7	49.8	49.9
28.3	46.5	43.6	44.5	45.8	51	56.6	56.1	57.6	61.2	55.2	52.5	54	47.9	47.1
28.4	42.8	49.8	44.1	51.5	55.1	54	57.2	61.7	65.1	55.2	54	53.9	49.8	48.2
28.4	46.3	47.5	49	50.5	56	54.9	60	61.8	61.3	53.5	53.6	54.4	50.9	47.2
28.3	44	46.8	45.6	53.4	58.3	55.6	61.3	58.8	61.3	52.8	53.4	54.9	48.9	46.6
28.3	45.6	44.6	48.4	49.6	50.5	59	64.2	57.9	58.8	54.2	55.1	52.4	48.1	46.5
28.3	44.9	48.5	48.6	50.8	54.1	54	61.1	60.3	59	56.7	56.4	52.7	50.2	50.1
28.3	42.6	45.5	47.9	49.1	51.4	56.2	62.8	58.6	57.1	52.9	52.8	52.3	50	54.3
28.4	44.3	45.7	44.9	50.1	50.1	53.5	60.2	57.8	58.9	53.2	55.3	52.3	49.3	52.6
28.5	46	44.1	49.5	47.8	53.7	54	57.1	55.3	58.2	53	53.3	53.4	48.7	51.2
28.4	43.3	45.2	43.3	51.6	53	57	54.9	54	60.7	55.3	54.2	57.9	50.1	47.5
28.4	46.1	44.3	42.3	46.3	52.5	54.5	59.8	55.9	59.8	54.9	55.5	56.1	51	48.1
28.6	51	39.9	40.7	47.4	52.2	53.3	58.1	59	61.6	62	53.3	54.3	51.7	49.2
28.8	48	39.9	46.2	48.7	50.3	56.8	54.5	58.6	59.1	59.1	61	54.1	48.5	47.7
28.8	39.7	43	42.6	49.4	50.3	55.3	55.4	64.1	61.5	57	51.4	55.3	48.4	47.7
28.8	44.7	51.6	44.5	48.4	50.5	55.7	60.9	62.2	66.5	60.2	55.5	52.3	51.5	53.8
29.1	44.4	42.3	46.6	45.8	50.8	58.4	56.2	54.1	60.5	60.3	55	57.1	50.1	50.3
29.8	44.4	45.3	48.6	50	53.7	56.3	55.3	58.1	59	60.4	52.4	58	54.7	53.3
30.4	48.1	46.8	51.2	48.8	52.1	62	58.3	59.4	61.2	59.5	54.3	59.4	55.4	50.6
30.1	45.4	47.1	50.6	54.2	59.8	54.4	55.3	56.5	59	55.7	55.1	56.2	58.7	53.7
30	49.5	48.1	51.8	51.5	53.1	56.4	55.1	58.1	59.3	52.4	50	54.1	56.1	48.6
30.4	50.8	49.5	48.6	51.4	54.2	56.5	57.3	59.4	59.9	54.6	50.7	51	51.4	48.4
29.4	50.1	43.8	47.6	53.9	53.5	56.8	52.6	62	59.1	52.3	53.6	52.9	52.4	47.9
29.3	51.3	44.1	50.1	48.3	51	58.8	51.9	61.4	59.9	53.3	52.9	52.4	51.7	48.5
31.6	47.4	48.6	45.2	50.5	53.4	52	59.6	60.3	58.4	57.1	51.7	50.9	50.7	48.2
33.1	48.7	50.4	48.4	54	54.2	55.5	63.6	61.4	59	61.5	53.5	52.3	50.3	47.1
30.9	50.7	43.5	50.8	49.7	54.2	56	62.7	58.1	58.9	62	52.8	51.4	51.1	49.3
29.5	50.8	46.2	47.6	48.1	49.5	59.2	58.5	60.3	54.1	56.3	55.9	55.3	50.7	47.9
28.9	51	45.6	47.2	50.3	51.4	57	60.3	60	56.9	60.8	53	56	50.9	50.6
28.7	47.5	41	48.1	47.8	50.2	53.3	58.2	59.2	58	57.2	53.8	54.7	52	49.6
28.7	49.7	47.8	49.9	47.7	51.2	55.4	60.1	58	56.7	52.6	53.7	58.2	52.5	50.7
28.6	47.2	46.6	43.3	50.3	52.5	56.2	55.2	58.1	54.5	53.9	53.9	58.6	51.6	49.8
28.7	41.9	47	47.4	47.3	55.8	54.6	54.6	54.5	54.7	54.3	56.4	60.4	53.4	48.8
28.7	46.5	45.6	46.9	48.8	52	52.4	58.2	55.1	57	55.3	55.8	57.5	53.1	48.6
28.7	46.8	45.7	47.6	50.4	52.3	55.8	58.2	53.2	56.1	54.9	53.9	55.7	50.9	46.6
28.7	48.5	50.1	46.6	47.8	50.6	51.8	60.2	56	55.5	53.8	54	54.5	49.5	47.6
29.1	45	47.7	46.5	47.4	51	53.8	56.7	58.9	50.4	54.2	50.7	53	50.8	47.2
30.2	40.2	47.2	44.6	52.2	51.8	53.8	57.3	59.1	54.3	55	52	55.6	51.6	47.9
32.5	44.5	49.6	46.8	50.1	51.5	54	58.2	56.5	54.8	54.1	52.8	55.9	52.6	46.8
30.6	44.7	46.8	50.7	51.5	53.5	57.5	60.1	58.2	54.9	53.6	55	55.7	52.3	47.3
29.8	48.7	47.7	51.1	49.6	51.2	59.3	64.7	58.9	59.1	56	54.1	53.8	53.4	46.7
29.4	45.1	52.8	48.3	52.1	55.8	60.5	60.5	57.4	56	53.9	54.2	50.8	50.9	51.7
29.9	54.1	47.7	47.5	49.6	56.1	56.4	60.9	54.5	55.6	54.2	56.4	54.6	51.8	50.3
29.8	44	43.8	49.3	48.4	53.6	55.6	62.2	58.7	57.7	54.1	53.9	59.8	55.7	51.6
29.9	40.9	49.2	48.5	51	55.7	56.6	59	59	56.3	53	57.9	59	48.2	48.7
29.6	44.3	47.9	49.1	45.4	54.1	58.6	61.6	59	56	55.1	55.8	57.1	49.3	51.1
29.7	43.8	47.8	41.7	52.8	53.5	58.5	59	57.1	52.5	54.3	55.2	54.8	49.4	52.1
28.9	49.1	49	52.3	53.8	51.4	51.4	58.8	56.3	53.7	52.5	51.7	50.7	49.8	47.6
28.6	45	50	50.6	48.9	56.3	56.2	58.5	57.3	53.8	54.1	52.3	51.2	50.7	46.7
28.5	51.6	56.8	50.4	50.1	55.3	54.3	58.2	54.8	51.4	54.9	49.6	51.4	52.7	46.3
28.4	54.4	55.1	54.1	55	53.2	55.3	56.5	58	51.9	51.9	51.3	53.3	54.1	46
28.4	57.6	61.5	52.7	48.1	49.7	51	54.9	56.4	50.6	53.9	52.4	53.9	54.5	46.4
28.4	57.1	61	48.1	49.2	53	54.2	55.5	57.3	55.1	53.8	51.6	53.2	54.2	48.4
28.3	56.4	45.8	46	53.5	55.9	54	58.7	55.2	52.5	52.3	52.2	51.8	48.8	48.1
28.3	51.2	53.2	46.4	51.1	46.9	54.2	58.5	56.3	54.1	55.7	50.1	54.4	48.6	47.6
28.3	56.9	50.8	49.7	50.7	50.1	51.5	56.9	57.5	50.9	53.9	53.3	54.6	52.5	47.4
28.2	52.1	43.9	48.1	47	50.8	54.8	55.4	58.5	53.5	53.4	53.8	55.1	52.6	47.4
28.4	46.6	48.6	51.5	48.3	52.1	56.3	55.3	58.7	52.6	50.9	53	57.4	49.2	47.1
28.4	53.5	50.2	49.6	48.2	49.8	54.4	54.1	55.8	54.6	55.4	55.9	57.7	55.4	48.7
28.3	54.1	50.8	45.6	49.2	51.2	53.4	54.8	55.2	54.3	59.2	53.4	55.3	52.6	46.5
28.4	47	50.5	46.1	50.4	51.7	53.2	55.1	55	55.4	54.1	55	56.1	51.6	49.7
28.3	46.2	42.1	49.5	49.1	48.7	53.5	55.9	54	55.4	56.4	57.4	53.8	52.9	48.6
28.4	48.2	47.9	45.5	48.9	51.6	53.9	56	52.5	56	56.9	55.6	53.1	51.4	46.9
28.5	47.4	47.6	49.7	52.9	51.7	53.3	57.5	55.8	54.7	56.2	58.6	56.2	49.3	47.4
28.4	51	49.9	46.8	47	51.8	53.7	57.9	55.8	55.4	54.7	61.4	56.3	51.2	51
28.4	50.9	48.4	48	47.7	56	52.6	63.4	58.8	53.2	53.2	55.8	53.2	53	47.3
28.3	50	45	48.2	51.2	52.3	54.9	58.3	62.5	54.4	52.2	54.7	52.1	52.2	46.1
28.4	43.3	48.5	48.2	53.6	55.2	53.4	55.9	60.4	52.9	51.3	53.4	51.5	48.3	47.1
28.7	43.2	44.7	45.7	50.4	54.8	52	55.3	54.6	54.1	51.4	53	49.4	49.5	46.7
29.1	43.5	48.8	49.9	46.3	51.4	54.4	53	54.3	51.9	54.2	54.9	50	47.8	47.3
29.2	53.9	48.8	45.5	49	54.4	53.9	54.2	56	53.7	54.3	53.2	47.6	46.7	47.4
28.6	48.5	50.6	42.6	47.7	52.4	52.2	57.4	54.3	53.8	53.5	51.7	49.9	49.6	47.5
28.5	47.4	46.6	42.8	48.8	54.9	57.8	54.3	58.6	50.5	54	62.4	49	50.5	47.2
28.5	47.4	39.3	48.8	52.7	50.1	58.4	55	62.3	53	54.3	62.3	50.8	51.5	47.3
28.7	50.3	50.6	46.7	48.8	51.4	57	56.2	65.4	52.8	52.7	55.1	52.2	48.9	45.2
28.6	52.5	51.4	46.3	51.6	52.5	51.6	55.1	66.6	50.4	51.3	57.3	56.7	49	46.8
28.6	50.7	46.6	44.2	44.3	52.8	52.5	62.1	53.9	50.3	55	56.8	55.9	50.8	47.9
28.7	49.3	50.2	47.8	51.2	54.2	53.9	62.9	61	59.4	53.6	55.9	54	52.5	52.8
29	46.8	48.7	48.2	47	54.5	58.2	57.7	54.6	52.9	51.1	61.3	61.7	52.6	48.3
28.8	50	42.7	52.5	56.9	58.2	53.1	57.1	55	52.4	49.7	63.8	60.3	52.2	48.9
28.6	47.8	45.6	54.2	49.4	48.1	52.7	56	56.2	53.3	58	59.2	56.4	52.2	48.9
28.6	47.2	53.3	49.4	49.8	51	52.1	59.3	67.6	63.4	51.6	57.5	56.1	52.8	48.7
28.6	51.8	47.5	48	45.3	54.7	54.4	59.1	64.3	57.3	52	54.7	54.8	51.4	48.9

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.5	43.9	47.8	40.1	49.4	51.3	53.6	64	59.5	54.5	52.2	52.9	55.9	52.5	51
28.6	46.5	41.5	47.8	52.6	52	54.6	61.7	61	54.2	52.4	51.6	55.7	52.5	49
28.6	46.1	50.9	42.7	50.4	52.8	53	58.7	65.6	54.7	51.6	54.4	55.7	52.8	50.9
29.6	46.3	42	44.3	48.5	50.7	53	64.5	60.4	60.4	55	56.7	56.4	54.7	51.2
31.7	43.1	48.2	43.5	52.2	55.2	61.3	60.3	60.5	58.2	55.9	57.5	56.8	53.2	52.4
31	49.8	47.5	50	55	61.5	56.1	59.6	62.3	58.4	52.3	58.1	56	59.8	53.6
30.3	44.9	42.9	53.2	53	54.3	53.8	60.8	69.9	53.6	54.1	68.2	54	58.7	51.5
30.4	48.3	44	45.5	44.2	49.8	53.7	57.9	72.9	65	63.8	64.4	59.9	57.4	54.9
31.2	45.7	44.6	48.2	50.7	50.7	55	61.4	60.9	56.2	54.6	74.2	71.7	55.2	56.7
30.1	44.2	43.8	51.5	52	53.1	56.6	60.6	63.9	58.6	57.5	69.5	65.7	53	55.5
30.1	47.1	43.8	48.2	48.6	55.7	57.2	58.7	57.7	54.5	53.4	68.3	61.9	51.5	50.2
30.1	45.9	45.9	48.1	48.4	49.4	57.9	58.9	54.5	53.6	51.2	52.6	62.3	54	49.7
29.7	42.7	44.1	49.3	48.6	49.3	54.9	63.7	53.5	51.4	56	52.6	54.5	59.6	48.2

56.3	54.2	60.2	52.2	50.9	51.1	50.5	51	51.3	48.7	48.5	46	43.7	41.9	38	35.6
51.3	50.9	50.2	45.7	46	48.1	49.8	47.6	46.8	46.4	47.2	45	43.1	41	37	35.1
50	49.4	45.6	46	45.3	47	45.2	46.4	44.9	43.7	45.5	43	41.3	39.1	35.7	33.4
49.5	49.6	46.9	46.9	45.9	47.9	45.7	46.7	45.8	46.2	47	42.8	42.5	41	36.4	33.6
47.9	52	46.9	44.6	43.9	45	43.8	45.1	44.7	44.9	43	38.6	38.1	37	33.2	29.4
48.3	48.4	45.6	41.6	43.6	46.1	44.1	44.7	46.1	44.4	41.4	39.4	36.7	36.6	33.2	30.3
47.6	46.5	46.3	41.9	43.3	45.2	41.4	42	41.1	41.2	39	36.2	32.8	31.9	29.6	25.4
45.8	44.6	43.9	41.7	46.5	43.6	42	41.2	40.4	39	37.4	36.2	33.9	30.1	27.7	24.9
45.3	45.2	44.4	41.6	45.4	43.3	41	41.3	39.5	38.4	36.4	35.7	32.6	30.9	27.8	25.6
47.7	44.3	44.2	41	40.8	42.4	39.2	40.9	40.2	38.3	36.2	35.9	31.7	29.1	26.9	24.4
46.3	44.1	43.6	40.9	42	43.2	41.4	39.6	39.6	37.7	35.7	34.7	32.2	29.6	26.7	24.5
47.3	43.7	42.7	41	42.4	44.3	39.3	40.2	39.3	36.6	35.7	33.7	31.6	29.5	27	25
45.5	43.8	42.2	40	41.9	43	39.7	39.9	39.4	37.6	37.2	34.9	32.8	30.8	28.6	27.3
44.6	41.3	42.9	39.8	38.5	42	38.2	39.1	39.5	37.9	36.2	35	33.1	31.9	30.5	28
45.9	42.9	42.8	39.3	39.2	41.6	37	39.7	39	36.7	35.5	33.7	31.3	29.4	27.1	25.4
44.8	41.1	42.3	39.1	39.9	41.8	37.8	39.1	38.9	36.8	35.4	34.1	32.1	30	27.8	26.7
45.7	42.6	41.9	41.1	39.5	41.9	39.5	39.5	38.3	36.7	35.6	34.7	31.5	29.2	27.5	25.7
44.3	43.2	41.1	40.4	42.9	41.8	38.1	39.6	38.8	37.6	36.7	35.1	31.9	29.6	27.8	26.2
46.7	43.1	41.7	42.7	46.4	42.3	40.5	41.1	40	38.1	37.8	35.7	33.5	31.1	29.4	28.3
51.1	42.4	43.2	44.7	50	42.3	41.2	41.1	40.5	39.7	39.2	36.2	32.4	30.9	28.1	26.2
45.1	44.6	43.9	42.3	43.4	45.5	44.7	44.1	43	43	41.3	37.6	34.3	32.9	29.7	27.4
47.5	46	47	43.8	44	47	44.3	45.6	44.5	43.2	40.9	38.1	35.9	34.8	32.9	31
48.8	45.1	45.2	43.6	43.7	46.5	43	45.1	43.9	43.4	40.7	38.7	38	37	34.8	33
48.3	45.5	43.5	42.9	43.2	45.4	40.9	42.1	42.5	40.3	38.4	36.8	36.3	34.8	33.5	32
44.9	45.4	44	43.8	41.7	45.5	41.1	42.5	41.9	40.2	39.4	37.7	36.4	34	32.8	32
46.6	49.9	46.5	46.5	46	49.6	47.4	46.6	45	43.6	42.6	43	39.8	37.2	35.6	33.9
49.9	48.5	50.4	48.4	48.7	51.5	50.4	50.1	48.2	45.9	45.4	44.6	42.1	40.4	38.8	37.7
53.3	50.8	51.2	48.1	48.4	51.1	50.6	50.5	48.5	47.3	46.2	45.8	42	40	40.1	37.4
52.4	48.7	48.6	46.3	49.7	52.5	50.9	51.5	50.2	48.4	46.8	45.6	42.7	40.3	39.5	38.9
49.3	48.1	47.5	45.7	45.6	48.8	46.6	47.5	46.1	44	42.3	40.9	39.5	37.5	35.7	35.7
47.8	47.6	46.9	45.3	45.2	47.4	46.1	46.4	45.2	44.2	42.3	40.1	39.8	37.6	38.1	36.3
47.2	44.4	45.5	44.1	44.1	45.4	44.2	44.6	44.3	42.5	41.2	38.6	37	36.3	34.7	35.7
45.8	44.1	42.8	42.4	45.7	44.5	44.1	43.1	41.2	40.9	39.7	38.4	36.4	36.4	35.9	34.9
45.1	43.7	45.9	43.6	46.5	47.8	44.6	44.3	41.8	42.9	42.3	41.1	44.9	37.9	41.3	41.7
47.7	43.9	43	44.6	44.8	44	42.8	44.3	42.5	42.3	45.3	43.8	39	37.9	42.9	45.2
45.2	44.6	41.7	42	43.3	43.2	41.4	40.2	39.4	39.2	38.5	37	34.5	33.4	33.2	36.9
45.6	43.6	41.5	41.6	41.2	42.6	39.9	39.7	39.3	39.5	38.4	36.7	35.3	35.3	31.8	30.8
48.3	44.8	44.7	43.2	43.1	42.5	39.9	40.4	39.1	38.5	38.6	37	35.1	32.7	30.5	27.4
49.5	44.3	44.7	44.1	43.6	43.8	41.1	41.2	39.7	40.5	37.8	36.3	35	32.6	31.2	29.5
49.6	45	44.2	42.2	42.1	42.8	40.7	40.9	39.7	37.7	37.3	36.2	34.7	32.3	30.4	28.6
50	42.9	43.5	41.2	42.4	42.2	40.8	41.9	40	38.8	38.4	36.6	35.3	32.8	30.6	28
49.3	41.9	44.3	42.4	42.6	41.9	40.1	41.5	40.8	42.7	44.4	37.1	36.3	36.8	31	29.8
46.8	42.8	44.2	43.2	42.9	43.7	41.1	42.1	41.8	41.2	40.1	38	37.3	34.3	32.3	30
46.3	43.4	43	43	42.5	42.8	40.9	42.1	41.9	42.4	40.5	39.5	36.6	34.4	31.4	28.6
45.3	42.7	44.7	41	40.8	43	43.2	42.6	40.8	42.1	40.8	39	35.8	32.6	30.1	28.9
45	43.2	42.4	42.2	43.1	42.8	39.8	41.4	40.8	41.6	40.5	38.3	36.6	34.1	31.7	30.8
45.3	43.3	41.4	41.7	41.5	42.1	39.4	39	39.3	39.1	37.5	36.1	34.9	32.7	31.7	31.9
45.6	41.5	42.1	41.4	41.7	42.2	41.7	41.9	41	45.2	44.7	47.2	46.8	47.2	46.4	45.1
44.8	43.1	41.3	40.8	41.2	41.6	39.8	39	38.3	38.9	41.3	39.1	38.7	39	38.7	37.6
46.3	42.6	43.6	41.1	40.6	41.5	38.6	38.2	38	38	36.8	34.8	34.1	32.7	29.6	27.9
49	49.4	43.9	42.8	41.6	42.2	40.5	39.9	39.4	39.1	37.9	36.9	36.4	34.4	35.5	30
44.5	46.6	45.1	45.8	45	44.5	43.8	43.9	42.7	41.6	40.3	40.2	42.1	40	38.4	35.7
50.2	46.5	54.6	49	47	48	46.8	47	46	45.5	43.5	43.2	44.4	42.4	42	41.4
48.9	47.6	49.6	48	49.1	46.2	46.6	46.9	47.6	45.2	44.5	43.9	45.8	43.2	43.2	40.2
47.5	46	44.2	43.8	43	43.9	41.5	41.4	41.2	40.3	40.2	37.7	38.1	38.7	35.7	33.2
46.7	45.9	47.3	43.5	41.9	43.8	41.5	41.5	40.7	40	39	37.7	37.2	36.6	38.5	37.3
46.2	44.9	45.1	43.6	42.4	42.4	40.1	40	40.6	39.6	38	35.3	33.5	31.7	30.6	28.9
45.5	43.4	41	40.6	39.7	41.2	38.6	38.8	38.5	38.5	37.1	33.3	31.3	28.9	26.7	24.3
42.3	41.2	39.6	38	39.2	41.3	38.3	38.4	37.7	37.6	36.1	33.5	33.8	29.8	26	23.8
42.5	42	39.7	38.6	38.9	41.1	39	37	36.6	37.5	35.3	32.8	32.4	31	25	23.3
42.4	41.8	39.8	38.7	39.5	40.8	36.9	37	36.7	36.7	34.9	32.1	31.4	40.5	30.7	24.6
42.7	42.1	38.9	38.2	39.4	41.2	37.4	37	36.7	37.9	35.4	33.2	32	30.2	27.7	26.2
41.9	41.6	41.1	41.2	42.1	41.4	39	38.1	38.5	37.7	36.6	35.8	34.7	32.7	30.6	28.9
42.2	41.9	42.9	41.1	41.2	41.4	40	38.7	39	38.8	37.4	37	34.9	31.9	30.2	28.1
43.9	41.3	41.4	39.2	40.8	41.2	36.9	36.3	37	36.4	35	34.7	32.3	29	26.9	24
43.8	40.8	41.4	39.8	40.7	41.4	37.1	35.9	36.9	35.1	34.1	32.5	29.9	27.6	25.2	23.6
42.8	40.8	40.5	39.2	41.1	41	35.8	36.3	36.1	33.6	33.3	31.5	29	26.8	25	23.1
43.6	40.2	40.3	38.5	40.3	41.2	37.6	37	37.4	35.3	35.3	33.9	30.2	28	25.5	24.1
43.3	42	41.2	38	39.6	41.8	37.3	37.2	36.9	35.4	34.3	32.8	30	27.1	25.4	23.3
43.7	43	41.1	38.5	38.9	41.4	37.6	36.6	36.7	35.7	34.5	32.8	29.8	27.9	25.3	24.1
44.3	42.7	43.6	39.7	41.2	42.3	39.5	38.5	38.5	39.4	37.7	37.4	34.9	32.2	30.2	29
45.9	42.7	42.5	38.4	41.2	41.9	39.4	39.6	39.3	40.4	39.1	37.4	35.7	32.6	31	31.1
46.7	42.5	40.8	38.5	40	41.2	39.3	38	38.2	39.7	38.5	37.4	34.7	31.8	30.4	30
45.5	42.3	42.5	38.5	40.6	41.4	38.1	37.5	38.3	38.6	37.2	36.3	34.8	30.8	29.3	29.4
45.8	42.4	42.4	40.1	41.6	42.2	39.1	37.8	37.3	37.7	35.6	34	32.3	30	28.3	29
45.9	43.9	43.3	39.6	40.8	41.4	38	36.8	37	35.9	35.1	33.9	31.2	29.5	26.1	23.3
44.9	43.3	42.2	39	39.3	41.9	38.7	37.1	36.8	35.9	34.3	32.6	30.5	28.3	25.9	25.1
42.9	41.3	39.7	36.4	39.5	40.3	37.3	35.8	35.3	35.7	34.1	32.4	30.5	28.6	27.9	28.4
43.7	42.3	40.1	39.9	41.1	42.2	39.7	39.8	40.9	42.9	41.4	40.9	40	38.8	38	34.6
42.7	40.8	40	38.7	40.7	41.6	38.2	38.6	39.9	39.4	38.6	41	41.3	38.2	38.1	31.7
43	42.8	40.7	38.4	40.1	42.4	38.5	38.1	39.3	39.6	38.2	36.7	35.2	34.8	33.2	31.6
44	43.3	39.4	40	38.8	40.9	38.5	37.5	37	37.9	36.2	34	31.8	30.3	28.1	27.3
42.3	42.5	42.1	40.1	41	41.9	38.4	38.4	38.9	38.5	38.1	35.3	33	29.9	27.5	24.6
44.9	42	43.6	42.3	41.4	43.6	40.8	40.9	40.4	41	40.2	37.7	34.8	31.4	30.1	31.4
44.5	42.3	44.4	43.4	42.6	43	42	42.5	42.9	42.1	40.8	37.7	35.4	32.4	31.1	29.6
44.3	43.6	42.9	43.1	42.4	43.1	40.8	40	41.2	41.4	40.9	37.3	36.1	34.5	31.1	27.7
43.2	43.5	41.7	42.6	41.4	42.9	41.7	40.1	39.8	40.8	39.9	37.6	35.7	33.7	32.2	29.3
45.4	52.6	52.6	47.8	47.8	47.5	44.9	43.3	43	43.7	43.7	41.2	39.2	38.7	35.9	33.6
50.7	49.2	48	47.1	48.3	48.9	46.4	44.3	45.8	45.3	45.3	43.3	41.3	39.4	36.5	34.4
47	49.3	48.3	45.1	45.2	45.5	44.6	45.3	45.2	44.5	43	40.9	37.5	34.5	32.8	31.1
45.8	45.7	47.2	44	43.4	44	43.8	44.6	43.7	44	42.5	39.8	35.5	33.6	30.3	28.6
46.2	47.1	47.4	43.2	44.2	45.2	45	46.7	44.6	44.8	42.2	39.5	37.4	34.6	29.9	28.7
47.4	46.1	45.2	42.1	45	45	46.3	48	45.9	45.2	42.5	40.1	36.3	33.4	30.8	29.1

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
45.6	45.2	44.7	42.2	45.5	46.2	46.9	48.3	45.4	45	43.6	40.9	36.3	33.8	31.2	29.4
46.6	45.4	46.8	45.6	48	45.8	48.3	47.3	45.1	46.9	45.6	42.4	37.7	35.1	32	30
47.8	46.4	46.9	47.2	46.7	46.7	48.5	48	46.9	46.5	46.3	43.9	39.4	37.2	34.6	33.7
47.3	48.3	49.1	46.4	48.6	50.7	48.9	50.5	47.5	47.3	47.5	45.1	42.5	40.9	39.1	38.9
49	46.5	48	44.4	47.1	48	46	46.8	45.9	45.9	44.7	42.9	42.5	41.4	39.8	38.2
45.9	48	43.2	44.3	43.2	43.7	43	43.8	44.1	43.2	43.8	41.7	40	38.9	36.8	35.2
50.5	52.1	44.8	44.5	43.1	42.5	42.7	43	42.1	44.4	43.4	41	39	37.4	35.9	34.3
50.5	49.9	46.7	47.7	48.3	47.2	45.3	46.4	45.3	49	47.5	44	44.5	42.4	39.5	38.7
55.5	53.6	50.3	49.1	49.3	52.3	45	47.1	45.8	48.7	48.1	43.8	42.4	41.2	38.6	37.2
50.8	47.5	47.2	46	44.3	46.7	44	43.1	42.1	43	43.4	40.3	38.4	36.8	34.1	32.5
49.5	45	49.5	44.1	45.9	47.4	44.8	43.5	43.3	46.5	44.2	41.9	39.8	37.7	35.8	35
46.4	47.6	48.4	45.8	46.5	47.4	46.2	44.8	44.5	48.5	47.4	44.3	42.6	41.7	38.8	36.3
46	51.1	46.6	47.4	47.7	48.7	49.1	47.4	47.2	49.6	47.5	45.2	43.8	41.4	38.7	37.2

32.3	29.5	27	24.1	24	24.6	44.1	45.3	45.4	53.7	56.8	59.1	60.9
32.8	30.2	27.4	24.9	25.8	24.6	44.2	47.9	44.6	56.6	60.4	60.9	65.6
31.3	29.1	26.9	24.6	23.8	24.6	44.2	48.1	49	56.2	60.7	60.5	65.3
31.3	29.8	27	24.7	24.1	24.7	48.6	52.4	49.9	54.9	58.4	58.4	62.6
27.2	25.6	24.2	23.4	23.7	24.5	48.8	51.9	48.1	53.1	55.1	58	59.3
27.9	26.2	24.9	23.7	23.8	24.5	47.7	49.4	46.3	52.5	53.1	58.8	59.2
23.2	22.3	22.1	22.8	23.6	24.5	44.9	49.4	47.2	52.9	53	57	58.8
23.4	22.5	22.1	22.9	23.6	24.5	43.6	48	49.8	52.3	52.3	56.1	58.4
23.4	22.2	22.1	22.6	23.7	24.5	45.6	47.6	49.4	51	51.6	57.8	58.1
22.2	21.6	22	22.6	23.6	24.5	52.6	54.9	48.2	48.5	51.2	56.1	59.7
22.7	21.7	21.9	22.8	23.5	24.5	58.7	53.3	45.8	48.7	53.5	58.6	58.6
22.4	21.9	22	22.7	23.5	24.5	57.8	49.5	44.8	48.5	53.5	58.6	57
25	23.7	23.2	22.9	23.7	24.5	54	49.5	45.3	50.3	54.5	57.9	57.3
25	23.4	22.5	22.6	23.7	24.5	50.2	50	48	50.6	55.7	56.3	59
23.4	22.5	22.3	22.7	23.6	24.5	48.3	47.8	47.9	52.6	57.9	55.7	60.7
23.8	22.6	22.4	22.8	23.6	24.6	46.1	47	48.4	52.4	57.8	58	63.3
23	22.1	22.2	22.8	23.4	24.5	45.6	47.8	49	51.4	55	57.6	63.2
23.7	22.4	22.4	22.8	23.6	24.5	45.4	47.9	48.7	51.5	55.1	56.6	63.1
26.2	25.5	24.5	23.3	23.7	24.5	44.7	46.2	47.7	50.8	53.4	55.8	62.7
24.1	23.5	22.6	22.8	23.7	24.5	46.7	46.3	48.9	49.8	53.7	55.2	61.2
24.9	23.1	22.7	22.8	23.7	24.5	44.8	45.5	48	51.6	53.4	56.8	58.8
28.5	26.8	24.7	23.5	23.8	24.5	46.2	45.4	45.7	50.1	53.3	56.4	59.1
30.5	28.7	26.2	24.1	23.9	24.6	49.9	44.4	44.4	48.2	53.3	55.6	59.9
29.1	27.6	25.9	23.8	23.8	24.6	49.7	42.1	45.7	49.2	52.2	56.9	58.1
28.6	27.8	25.8	23.8	23.8	24.5	48.6	43	44.7	49.2	51.8	56.6	56.3
31.5	31	26.8	24.9	24.1	24.6	45.1	50.2	44.6	49.4	51.6	55.8	60
35.1	33.3	29.7	26.5	24.7	24.6	45.5	49.5	46.3	49.1	51.2	58	60.1
35	32.9	29.2	27	24.8	24.9	44.5	46.3	47.8	49.6	53.7	58.1	57.9
35.5	33.9	31.4	27.7	25.1	24.8	47	47.3	50.5	49.2	53	61.4	58.2
32.1	30	28.9	26.1	24.6	24.6	47.3	47.7	51.1	53.4	58.9	60.8	57.4
35.6	34.8	31.7	29.1	26.6	25.1	49.1	49	51.9	52.7	57.3	57.8	56.7
30.9	29.8	28.7	25.8	24.4	24.8	50.2	49.4	51.6	52.1	55.4	57.4	57.4
32.2	28.3	25.1	23.9	23.7	24.5	50.5	49	49.9	53.9	54.4	57	57
36	34.4	33.3	29.7	26.4	25.1	51.2	46.5	50.9	52.8	54.2	58.4	54.9
42.5	42	40.2	35.8	31.1	27.1	50.9	48.5	49	50.9	53.2	58.3	58.5
32	28.9	26.1	23.9	23.9	24.5	49.1	49.9	48.6	54	54.1	56.2	62.7
27.5	25.3	23.6	23.2	23.7	24.5	50.3	49.4	50.9	52.4	54.4	56.2	63.5
25.8	25.2	22.7	23	23.7	24.5	50.9	47.5	49.8	50.4	53.8	58.7	62.4
28.9	25.9	23.6	23.2	23.7	24.6	51.7	46	48.8	50.1	52	58.7	61.3
27.4	25.7	23.8	23.2	23.7	24.6	50.5	45.9	48.9	49.6	51.9	57.9	60.1
26.6	26.1	23.9	23.5	23.9	24.6	49.6	46.6	49.6	48.6	51.5	56	59.8
27.3	26.3	24.3	23.7	23.9	24.5	49.4	46.6	49.4	50.7	53	56.5	59.6
28.3	26.2	24.5	24.3	24.4	24.7	47.6	47.3	47.4	48.8	54.7	57	57.4
26.5	24.4	23	23.2	23.6	24.6	46.6	47.3	48	49.2	54.6	55.1	57.5
27.5	26.5	25.4	24.1	24.1	24.7	47.8	46	47.8	50.2	52.9	55.8	58.4
30.4	30.3	29.5	25.2	24.2	24.6	48.1	49.4	47.3	50.2	52.6	55.7	60.2
30.2	28	27.9	26.2	24.6	24.7	48.1	49	47.6	48.8	51.8	54.1	59.4
43.4	37.6	34.9	32.8	27.8	25.6	46.3	48.8	46.3	51.4	51.9	54.6	57.9
34.5	33.5	31.5	29.1	26.4	25.3	45.1	50.1	46.8	51.4	52	54.3	58.2
26.3	24.7	24.6	24.2	23.8	24.7	44.5	48.4	49.8	52.4	53.8	56.9	59.9
28.1	27.7	26.9	24.8	24	24.7	48.2	48.2	51.2	51.1	52.5	59	63.8
35.6	34.9	30	26.1	24.3	24.6	48.3	51.8	50.7	51.9	55	60.7	63.6
37.4	33.7	30.2	26.4	24.5	24.7	52.6	51.9	49.5	52	56.1	60.1	62.2
42.6	39	32	26.5	24.3	24.5	52.2	49.5	49.2	50.5	55.5	58.9	62.3
32	30.1	28.7	26.9	24.5	24.8	49	48.9	48.8	50.6	56.1	56.9	61.6
35	33.6	31.3	28.4	25.4	25	45.7	48.9	49.9	50.2	55.3	58.7	62
27	26.1	24.5	23.5	23.7	24.4	45.6	49.3	48.7	52.1	54.9	59.7	61.6
23.2	21.9	22	22.8	23.6	24.6	48.1	48.6	51.1	53.6	53.8	58.2	60.3
22.5	22	22	22.7	23.6	24.5	48.1	50.1	51.3	52.7	55.8	56.4	59.3
35.5	28.9	21.9	22.6	23.6	24.5	51.1	55.2	51.2	51	55.9	56	59.9
31.2	30.9	22.5	22.8	23.6	24.4	53.4	55.7	53.4	54	56.6	55.4	58.3
28.3	23.9	22.1	22.7	23.5	24.5	56.8	60.1	53.2	53.9	53.8	55.3	57.4
26.2	23.8	22.6	22.9	23.6	24.4	57.5	62	53.1	51.1	53.1	54.6	56.5
25.5	23.2	22.3	22.5	23.5	24.5	57.9	59.9	50.8	53	55.9	54.1	58.3
22	21.4	21.9	22.8	23.5	24.5	55.9	56	49	51.9	54.4	54.4	58.9
22.3	21.4	21.9	22.4	23.5	24.5	56.6	54.4	49	51.8	51.2	54.3	58.2
22.5	22	22.5	23.1	23.6	24.3	56.7	52.5	49.3	51.4	52.3	54.6	57.3
23.7	23.6	23	23.1	23.7	24.6	53.8	49.3	51	49	52	56	56.3
21.5	21.4	22.1	22.8	23.6	24.6	53.5	50.4	50.6	49.5	51.2	55.3	56.4
23	21.7	22.3	22.6	23.7	24.5	53.6	51.1	49.8	49.7	51.3	54.7	55.4
28	22.4	22	22.7	23.5	24.6	53.3	51.2	47.8	50	51.8	54.3	55.6
29.2	22.8	22.3	22.8	23.5	24.6	50.6	50.1	48.7	50	51.5	54	56.1
29.7	25.4	23.4	23.4	23.7	24.6	48.8	47.8	48.9	50.5	51.8	54.8	56.3
28.5	23.4	22.8	23	23.7	24.6	49	48	49.2	52.6	51.7	53.8	57.5
28.9	22.3	21.9	22.7	23.6	24.6	50.5	49.5	49.2	51.8	51.8	54.4	58
22	21.7	22	22.6	23.6	24.5	51.2	49.6	49.2	49.9	55.3	53.4	62.8
26.7	22.5	22.2	23.1	23.6	24.4	50.7	48.7	48.2	50.5	55.8	54.8	61.6
28.3	26	24.3	23.7	23.8	24.6	50.4	48.1	49.6	53.2	54.5	54.5	59.5
31.8	29.3	27.3	25.4	24.4	24.7	47.5	48	47.4	52.4	55.2	54	57.9
31.2	28.8	26.6	26.1	25	25	44.9	48.8	50	51.3	54.4	54.9	56.2
30.4	28.4	26.8	24.6	24	24.6	52	49.3	48.2	49.1	54	54	54.8
25.5	22.2	22	22.6	23.6	24.4	52	51.1	46.6	49	54.5	54.1	56.9
22.6	21.8	22.1	22.7	23.8	24.6	49.8	49.3	44.4	49.1	55	57	56.3
27.8	25.8	23.8	23.6	23.8	24.6	48.4	47.9	48.4	51.6	53.9	58.4	55.3
27.9	27.7	24.3	24.3	24	24.6	49.6	49.8	47.5	51.5	51.9	57.8	56.6
27.5	24.3	23	23.1	23.7	24.5	52.1	51.1	46.9	51.8	52.4	56.9	55.8
27.9	26.1	24.2	23.4	23.7	24.6	52.5	50.8	46.3	51	53.1	54.8	60.6
31.3	28.4	26.5	24.6	23.9	24.6	51.3	50	47.5	51	54.5	54.2	62.6
31.5	29.1	27	24.8	24.1	24.6	49.4	50.7	48.5	50.1	54.7	57.4	62.2
28.1	25.9	24.6	23.4	23.8	24.6	49.7	48.8	52.3	56.1	57.7	57.5	59.5
25.5	24.5	23.5	23.2	23.6	24.6	50.2	46	54.9	55.6	56.4	55.3	58.3
26.2	25.5	23.9	23.1	23.6	24.7	48.2	52.4	52.5	52.9	53.2	53.7	58.8
26.4	25.6	24	23	23.8	24.6	51.3	52.2	50.9	51	54.2	54.5	59.3

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
27.1	26	24.2	23.2	24	24.6	50	50.3	49.2	49.3	53.8	54.5	63
28.1	26.6	24.7	23.3	23.7	24.6	48	48.6	47.2	52	53	54.8	62.8
33.6	31.4	28.6	25.6	24.6	24.7	46.8	49.7	47.1	51.6	53.4	54.1	61.9
37.2	35.4	33.5	29.6	26.9	25.2	47	49.3	45	50.6	53.1	53.5	63.9
36.8	34.6	33.1	29.2	26.8	25.4	46.7	48.4	45.2	51.6	55.2	59.5	64
33.5	30.9	29.9	26.4	25	24.7	48.6	49.2	49.3	54.8	60.5	59.8	62
32.3	30.7	28.4	26	24.4	24.7	48.6	47.3	52.4	54.5	59.4	57.5	60.9
36.5	36.8	33.7	29.4	26.6	25	47.8	45.1	51.9	53.3	56.8	55.6	61
34.9	35.2	32.9	27.8	25.6	24.7	47.7	45.4	49	51	53.8	55.9	61.5
30.3	29.9	27.7	24.9	24	24.6	46.2	45.5	51	52.5	52.9	56.2	60.8
33	32.3	30.1	26.7	24.8	24.7	47.1	44.1	50.8	51.2	55.2	57.2	60.9
35.1	34.4	30.3	26.8	25	24.7	46.2	45.6	49.9	50.3	54.8	57.8	59.6
33.3	32.3	29.7	25.1	24	24.5	46.4	45.6	49.4	49.4	52.5	57.7	62.7

60	60.3	58.5	60.7	64.2	66.3	59.2	60.9	58.5	63.9	60.7	57.7	58
61.6	61.4	58.2	59.5	63.2	64.3	58.8	58.4	56.2	61.2	57.2	54.6	54.9
65.1	60.3	57	58.5	60.1	60.8	56.9	55.2	53.6	57.4	53.4	51.2	51.9
64.5	59.3	56.8	57.7	58.6	57.9	54.4	52.8	51.3	53.6	50.3	48.5	49.4
63.1	59	56.6	56.3	58.1	55.9	53.8	51	51.8	50.8	48.5	47.2	48.6
60.7	58.2	57.1	54.9	56.6	54.5	52.8	49.5	51.8	48.7	46.4	45.3	46.6
59.1	57	56.8	54.7	55.3	52.7	51.4	48.9	49.8	47.6	44	44.5	46.7
57.6	56.5	56.4	54.8	54.8	52.5	51.3	48.1	48.1	46.3	43	46	45.7
57.2	60.6	57.6	54.2	54.2	53.1	51.8	47.1	46.2	45.2	42.2	47.1	44.5
57.7	60.2	57.6	53.8	54.1	53	50.7	47.5	45.8	44.8	42.1	45.2	43.9
57.4	59.6	56.5	53.4	54.1	52.1	50.3	47.1	44.8	44.7	41.5	43	43.6
57.8	60.8	56.2	53.6	54.2	50.6	49.9	47.5	44.5	43.8	41.2	43	44.2
61.5	63.9	55.7	54	54.5	49.8	48.8	47	44.1	43.3	41	43.6	44.3
63.1	63.8	55.7	54.5	54.8	50.5	48.4	46.2	44.2	43.1	40.5	41.9	43.3
61.2	62.8	54.1	53.8	55.1	50.3	47.6	46	42.9	43.2	40.5	40.2	42.6
59.4	61.7	54.5	54.8	54.7	49.5	47.3	45.8	42.7	43.2	39.9	40	42.3
60	60.4	56.4	56.4	53.4	49.9	49.8	45.9	42.4	42.5	40.8	39.9	42
59.4	59.3	56.2	55.5	53.5	50.4	53.2	45.7	43.2	42.3	40.6	42.8	42.1
59.5	58.6	54.7	55.2	53	49.9	53.6	46.2	43.7	41.8	42.5	46.5	42.3
57.9	59	54.4	54.8	53.6	50.1	52.5	50.4	43.2	42.8	44.6	50.1	42.4
56.6	60.1	54.9	54.9	57.2	49.9	51.8	49.8	44.3	43.8	44	48.8	44.7
55.9	60.5	55.3	55.5	56.3	50.8	49.5	47.9	45.6	46.2	43.7	46.1	46.5
58.9	61	60.6	54.9	56.3	51.5	49.2	48.5	45.6	45.6	43.9	44.9	46.5
58.6	61.5	61.1	60	55.4	51.4	49.5	49	45.9	45.7	44	44.4	46.7
62.7	61.3	59.5	59.2	55.6	49.7	48.5	48.1	45.5	44.2	43.6	43.6	46
62.6	65.2	59.9	56.2	54.8	51.1	53	46.7	49.2	45.8	46	45.3	48.7
62.2	65.1	60.6	56.5	56.8	50.6	52.8	49.1	49.5	49.6	47.8	47.6	51
59	62.7	60.8	55.2	58	54	53.4	52.4	50.8	50.9	48.5	48.8	51.3
59.8	61.9	61	54.4	59.3	55.3	52.4	53	49.8	50.3	47.7	49.5	52.3
58.8	60.7	59.5	55.3	59.9	57.6	53.2	52.2	49.3	49.3	46.7	49	51.9
58.2	59.9	57.4	54.7	57.1	57.8	52.8	50.9	48.7	48.3	46.2	47.2	50.2
59.7	60.6	55.4	52.4	55.5	56.2	50.7	49.2	47.9	47.3	45.9	46	48.5
61.6	59.8	54.9	53	53.8	53.9	49.7	48.1	46	46.2	44.7	45.8	46.7
61.9	60.5	54	53.3	52.9	53.4	49	46.7	44.8	45.5	43.8	46.5	47.4
60.7	59.6	56.1	53.1	52.8	51.8	48.4	47.3	44.4	45.5	44.6	46.4	47.3
62.1	60.2	61.2	53.5	52.6	51.2	48.1	47.3	44.8	44	44.2	45.4	45.5
60.5	59.1	61.6	53.4	52	51.2	49	46.3	44.3	42.9	43.1	44.2	44.2
60.2	59	61.6	55.7	54.4	51.3	49.1	47.5	44.7	44	43.1	43.1	43.5
60.4	57.6	60.9	54.6	55.6	51.4	50.1	48.8	44.7	44.5	43.7	43.6	43.6
60.1	57.7	60.6	54.4	55.8	52	50.3	50	45.1	44.6	43.8	43.4	43.5
59.6	57.3	58.5	54.2	57.2	52.5	50.6	49.9	44.8	44.5	42.7	42.7	43.3
59	57.1	55.9	54.2	58.2	52.7	50.5	50.1	43.6	44.5	42.8	42.9	42.5
58.2	55.6	55.1	56	60.1	53.4	50	49.5	42.9	44.3	43	42.9	43.2
56.3	56.6	55.6	56.4	59.5	54	49.3	48.5	43.3	44.3	43.3	43.3	43.5
55.7	56.8	55.4	55.7	58.4	52.9	48.8	46.9	43.3	44.3	43	42.5	43
55.7	56.2	54.6	55	57.1	52.1	48	46.1	43.3	44.2	42.2	42.8	43
58.8	56	54.8	54.1	55.4	50.9	47.7	45.9	43.8	43.1	42.4	42.6	43
59.1	54.4	55.4	53.1	55.2	51.7	48	45.9	43.1	42.5	41.9	42.1	42.5
59.4	55.5	55.3	52.7	55.7	52.6	47.7	45.8	42.9	41.9	41.8	41.8	42.7
58.6	55.2	54.6	54.5	55.9	52.7	47.4	46.1	42.9	43.1	41.4	41.4	41.8
59.2	57.7	55.5	54.5	55.8	53.2	47.4	48.3	48.1	44.1	42.3	41.5	42.1
58.6	57.8	55.8	54.5	54.6	53.4	50.7	47.7	48.1	44.7	45	44.2	43.9
57.6	56.5	55.1	56.3	54.2	52	50.9	49.7	47.3	53.4	48	46.3	47
58	57.8	54.8	55.5	59	55.2	51.4	49.6	47.7	53.3	49	48.6	47
58.8	57.2	54.5	57.5	59.3	54.4	51.4	49.2	47.3	51.2	47.6	47.9	46.4
59.4	57	55	57.3	59.3	51.7	50.8	48.5	46.5	48.5	45.8	45.5	45.2
58.9	56.2	54.7	56.2	57.6	50.7	52.5	47.5	46.2	47.7	44.8	43.8	44.2
58.1	54.6	54	55.6	56.1	50	51.2	46.8	45.5	45.8	43.6	42.7	43.1
57.6	54.5	53.9	53.9	53.5	50.6	49.1	45.9	44.2	43.4	41.9	41.2	42
57.1	53.5	54.8	52.7	52.9	52.3	47.8	43.8	42.7	41.4	40	40	42
58	52.8	54.6	51.6	53.1	53.5	47.2	43.1	42.8	40.4	39.4	39.8	41.2
57.2	52.2	53.8	52.7	53.8	54.3	47	43	42.4	40.1	38.8	39.6	41.2
57.5	54.2	54.2	52.3	53.8	55	47.8	42.8	41.9	40.7	40.7	41.4	41.6
57.3	53.6	53.8	52.3	53.4	53.8	48.5	42.5	42.2	42.2	41.1	41.6	41.5
56.5	54.3	55.3	52.1	54.1	51.4	47.8	43.7	41.9	42.1	40.9	41.5	41.6
57.4	53.5	55.5	52.9	54.7	52	47.9	44.3	41.6	41.6	40.1	41.1	41.5
58.1	53.1	54.5	53.8	55.1	52.8	47.9	43.6	41.4	41.5	39.9	41.2	41.5
59.3	53.1	53.6	53.5	56.6	52	48.1	43.6	41.1	41.5	39.4	41.4	41.3
58	54.3	55.1	55.2	58.1	54.2	48.4	43.7	41.7	41.2	38.9	40.4	41.9
57.3	55	58.2	54.7	57.2	54.2	48.2	44	42.8	41.7	38.7	39.8	41.7
55.6	55	58.1	55.1	57	53.2	48.9	44.5	42.9	43.2	39.5	40.8	42.1
55.3	55.6	56.5	57.6	55.8	53.3	48.9	45.5	43	43.2	39.5	41.1	42.1
54.8	56	57	56.5	54.6	52.6	48.8	46.5	43	43	38.8	41	42
55.3	55.9	57.2	58.4	55.6	51.5	47.8	46.7	42.6	42.4	38.7	40.6	41.5
56.2	55.6	56.4	60.4	56.9	51.3	50.2	46.3	42.7	42.9	39.7	41.4	42.2
58.1	55.7	55.1	60.1	55.6	52.6	50.1	46	43.8	43	39.9	41.4	42.4
62.4	54.7	54.4	58	54.2	52.8	48.5	46.2	43.9	43.1	39.9	41.1	42
62.9	54.8	52.8	56.2	53	52	47.5	45.2	43.3	42.4	39.2	40.2	41.8
60.9	54.4	52.3	54.7	52.1	50.5	47.7	44	42.3	40.9	39.3	40.5	41.9
58.2	53.6	53.6	54.8	50.7	49.6	47.3	44.2	42.7	41.1	39.2	40.7	42.2
56.6	53.9	54.5	54.5	50.2	48.2	47.9	43.2	42.7	40.7	38.9	40.8	42.4
56	54.7	54.3	54.1	50.2	48.9	48.3	43.9	43.2	40.5	39.7	40.5	42.2
57.7	53.5	54.5	61.2	49.5	50.4	47.8	43.8	43.2	41.5	40	40.5	42
61.4	52.9	54.7	62.8	50.8	51.6	47.5	44.6	42.7	43.2	41.7	41.3	43.2
64.4	53.2	54.3	61.1	52	50.9	47.2	44.5	42.5	44	43	42.4	43.3
66.3	53	53.1	58.8	55.6	49.8	47	44.5	43.5	44.2	43.2	42.8	43.3
65.5	51.5	54.4	57.9	56.3	50.7	47.7	44.3	43.4	43.4	42.9	42.2	43.3
62.3	58.4	54.8	57.4	55.8	52.6	51.9	45.4	51.3	50.7	46.2	46.2	46.5
61.7	58.4	53.8	60.4	60.8	52.6	51.3	49.7	51.8	49.9	46.9	48	48.2
58.7	55.8	52.5	63.4	61.6	52.6	49.5	49.7	50.4	48.9	46.9	47.4	47.8
57	54.2	57.1	63.6	60.2	52.7	49.3	48.1	49.1	48.5	45.8	46.1	46.6
66.6	62.4	56.5	61.1	58.6	52.8	49.2	46.9	47.5	47.7	44.8	44.7	45.5
66	60.8	54.1	58.7	56.7	52.9	49.2	47.7	47.4	47.6	44	45	45.4

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
65.4	58.6	52.9	56.6	56.1	52.6	50.9	46.8	46.5	46.1	43.2	45.4	45.8
62.5	56.7	53.5	54.6	56.3	53.2	50.2	47	46.1	46.5	44.9	47.2	46.3
65.3	55.7	52.9	54.1	56.5	53	50.6	47.4	46.3	46.9	46.6	47.1	46.6
64.1	59	54.3	56.5	56.7	54.6	51.1	47.8	47.9	48.4	46.8	48.4	49.8
62.3	59.1	55.3	57.4	57	54.1	52	49	47.7	48.8	46.3	48.8	50
62.1	59.6	55.1	58.4	57.8	58.6	53.5	48.3	47.8	48	45.2	46.8	48.6
69.1	58.1	55	66.7	56.4	59	54.1	50.3	51.6	45.6	44.8	44.8	46.2
72.3	64.5	62.9	67.1	59.1	58.9	54.5	50.7	51	46.4	46.8	47.3	46.4
71.2	64.4	62.8	73	70.9	57.5	56.8	54.6	53.2	49.4	48.6	48.9	51
67.9	61.1	59.6	72.6	71.2	56.5	55.9	53.8	52.3	49	48.1	48.4	50.3
65.3	59.5	58.7	71	67.9	54.4	55.3	52.2	50.1	48.9	47	46.4	48.7
62.1	57.2	56.2	69	65.5	54.1	52.9	50.7	48	49.1	45.9	46.6	47.7
58.9	54.8	55.7	64.9	63.5	58.1	50.9	48.4	50.2	48.6	47	47.4	48.4

59.1	58.9	58.2	55.4	55.1	52.8	50.9	49.8	47.6	46.2	43.8	41.2
55.7	55.5	55.1	52.5	52.1	49.8	47.8	46.5	44	42.5	40	37.4
53.1	52.3	51.8	49.7	49.7	47.5	45.6	43.9	41	39.4	37	34.3
49.8	49.7	48.8	46.9	47.7	45.2	43.4	41.7	38.5	36.7	34.4	31.9
47.7	48	47.2	46.5	47.2	43.8	42.8	41.2	37.4	34.9	32.7	30.6
45.8	46.3	46.4	45.6	45	41.3	40.4	39	35.2	32.3	30	28.2
44.7	45.4	45.8	44.7	43.1	40	38.4	37.6	33.9	31.1	28.9	27
43.2	43.5	43.4	42.7	40.9	38	36	34.9	31.6	28.4	26.2	24.7
42.9	42.2	41.6	40.7	39	37	34.7	32.8	29.6	26.7	24.8	23.5
41.2	41.7	40.6	39.3	37.6	36.6	33.4	31.4	28.5	26	23.9	22.7
41.5	41.2	40.3	38.8	36.8	35.9	32.5	30.2	27.6	25	23	22.1
41.2	40.4	39.8	38	36.1	35.1	32.3	29.9	27.2	25.1	22.8	22
40.7	40.3	39.6	37.7	37.1	34.9	32.7	30.6	28.2	26.9	24.6	23.4
40	40	39.7	38.1	37	35.2	33	31.6	30	27.9	25.1	23.6
38.9	39.8	39.6	37.8	36.4	34.9	32.9	31.2	29.5	27.4	24.7	23.2
38.5	39.7	39.1	37.1	35.9	34.2	32.3	30.3	28.2	26.6	24	22.8
39.3	39.5	38.9	37	35.7	34.6	32.3	30.1	28	26.6	23.9	22.8
38.8	39.7	38.9	37.5	36.5	34.9	31.9	29.8	28	26.4	23.7	22.5
39.8	40.6	39.7	37.9	37.3	35.4	33	30.9	28.9	27.7	25.5	24.7
41	41.1	40.5	39.4	38.8	36	32.7	30.9	28.7	27.6	25.4	24.6
43.6	43.3	42.4	42	40.6	37.1	33.8	32.2	29.3	27.4	24.9	23.9
44.2	45	44	42.8	40.9	37.8	35.2	34.1	31.9	30.1	27.5	25.7
44.1	45.2	44.3	43.5	41	38.5	37.3	36.3	34.1	32.3	29.8	28.1
43.6	45.1	43.9	43.2	40.6	38.5	37.4	36.4	34.6	32.8	30.5	28.8
42.2	43.5	43	41.4	39.5	37.7	36.7	35.3	33.5	32.1	29.1	28.1
46.4	46	44.5	42.9	41.9	42	39	36.6	35	33.3	30.9	30.4
49.5	48.8	47.4	45	44.6	44	41.4	39.6	37.9	36.7	34	32.6
50.5	50.1	48.1	46.7	45.8	45.4	41.8	39.9	39.8	37.3	34.7	32.9
51.1	51	49.6	48	46.5	45.7	42.5	40.3	40	38.7	35.6	34
50.4	50.8	49.3	47.5	46.1	45.4	42.2	40.3	39.5	38.2	35.3	33.4
48.4	49	47.5	45.5	44.1	43	40.6	38.4	38.4	37.3	35.3	34.5
47.1	47.6	46.4	45.1	43.4	41.4	40.3	38.3	37.8	37.5	34.9	33.7
45.5	45.9	44.8	43.3	41.9	39.8	38.4	36.8	36.3	35.7	32.7	31.4
44.9	44.8	42.9	43	42.3	40.8	44.7	37.8	40.7	41.2	35.5	34
44.7	44.9	43.1	43.2	45.6	43.9	44.1	38.4	43	45.1	42.3	41.7
43.7	44.5	42.7	42.6	45	43.3	41.7	37.9	41.9	43.5	40.7	40.1
42.5	42.4	41	40.9	42.1	40.4	38.7	36	38.5	40.6	37.3	36.3
41.2	41	40	40	40.2	38.6	36.9	35.4	35.6	37	33.7	32.6
41	41.1	39.7	40.5	39.3	37.6	35.9	33.9	33.1	33.5	30.5	29.5
41	41.1	39.8	40	38.5	36.7	35.5	33.2	32.1	31.5	29.7	27.6
40.9	41.8	40	38.9	38.3	36.6	35.3	32.8	31.1	29.8	28.2	26.5
40.9	41.7	40.6	41.8	43.4	37	36.1	35.7	30.9	29.5	27.3	26.4
41	42	41.4	41.3	42.3	37.7	36.8	35.3	31.9	29.9	28	26.6
41	42.3	41.9	42.1	41.1	38.9	36.9	34.8	32	29.8	27.9	26.2
42.6	42.5	41.8	42.2	41	39.2	36.9	34.5	31.5	29.4	27.9	26.5
42.4	42.6	41.3	42.1	41	38.8	36.8	34.2	31.6	30.4	29.9	29.6
41.1	41.8	41	41.7	40.6	38.5	36.4	33.9	32	31.9	30.5	29.5
41.7	41.8	41	44.9	44.5	46.2	46.1	46.4	45.4	44	42.1	36.7
41.5	41.7	41	44.9	45.1	46.2	46	46.5	45.7	44.4	42.2	37.7
40.4	40.2	39.4	42	42.2	42.9	42.8	43	42	40.7	38.7	34.4
40.2	39.8	39.2	40.1	39.6	39.7	39.4	39.4	38.2	36.8	34.8	30.8
43.3	43	42	41.2	40	40.2	42.4	40.1	38.5	35.7	35.1	34.6
45.9	46	45.3	44.5	42.7	42.4	43.7	41.9	41.2	40.9	36.9	34.2
46.7	47	47.6	45.6	44.6	44	46.2	43.8	43.7	41.5	42.7	39.3
46.2	46.5	46.9	44.8	43.8	43.2	45	42.5	42.4	40.1	41.2	37.8
43.9	44.2	44.3	42.6	41.9	40.6	42	40.4	39.4	37.6	37.7	34.6
42.5	42.7	42.4	41.1	40.3	38.9	39.6	38.6	39.2	37.6	36.4	34.3
41.1	41.2	41.2	40.2	38.9	36.9	36.8	35.5	35.7	34	32.7	30.8
39.8	39.7	39.7	39.1	37.9	35	34.3	32.6	32.3	30.4	29.2	27.3
39.1	38.9	38.5	38.3	37	34.2	34.4	31.4	29.4	27.5	34.3	28.2
39.1	37.9	37.4	37.8	36	33.4	33.2	39.2	30	25.4	33.4	30.3
37.8	37.5	37	37.7	35.4	33.2	32.2	38.4	29.6	25.9	33.1	30.1
38.6	37.8	38	37.8	36.2	35.1	34.1	35.2	30	27.9	30.2	27.2
39.7	38.6	38.7	38.6	37.2	36.6	34.9	33.9	30.4	28.3	28.1	25.4
39.5	38.3	38.5	38.4	36.8	36.2	34.5	32.7	30	27.9	26.6	24.1
38	37.1	37.7	37.2	35.6	35.3	33.3	30.7	28.2	25.8	24.2	22.6
37.4	36.5	37.1	35.9	34.7	33.7	31.4	29	26.5	24.5	23.1	22.2
37.3	36.9	37.2	35.2	34.9	33.5	30.3	28.1	25.7	24.2	23.8	23.3
37.8	37.3	37.4	35.4	34.9	33.4	30.4	28	25.9	24.4	23.7	23.2
37.5	37.1	37	35.7	34.7	33	30	27.8	25.5	24.1	23	22.1
38.9	38.1	38	38.5	36.9	36.4	33.8	31.1	29.1	27.6	27.3	22.4
39.5	39.1	38.9	39.9	38.4	37	35.1	32.2	30.5	30.5	28.7	22.8
39.3	39	38.9	40	38.6	37.4	35.1	32.2	30.6	30.8	30.2	25.1
39.2	38.5	38.5	39.7	38.5	37.4	35.1	32	30.5	30.4	30.1	24.7
39.1	37.9	38.4	39.2	37.8	36.8	35	31.4	30	30.8	30.5	23.9
39.3	38	37.8	38.1	36.4	35.2	33.4	30.5	28.8	29	28.5	23
38.9	37.2	37.3	36.8	35.6	34.4	32.1	29.9	27.3	26.3	27.2	22.8
38.4	37.2	36.9	36.4	34.9	33.3	31.2	29.2	27.9	28.2	28.8	25.7
39.3	39.5	40.5	42.3	40.7	40.1	39.1	37.8	37.1	33.7	31.4	28.7
39.4	39.3	40.5	41.9	40.5	41.4	41.3	38.7	38.4	33.6	32.7	29.9
38.9	39.4	41.4	41.5	40.3	41.1	41.2	39.2	38.7	34.5	33.1	30.7
38.7	38.3	39.3	39.7	38.3	38.3	37.8	35.8	35.1	31	29.7	27.5
38.6	38.4	38.7	38.9	37.8	36.3	35.3	33.5	32.3	29.5	27.8	25.1
40.5	40.2	40	40.6	39.5	37.1	34.6	31.5	30.3	30.8	27.4	25.4
41.6	41.8	42.1	41.8	40.4	37.5	35.2	32.2	31.3	31.2	28.1	27.8
41.3	41.8	42.1	42	41.1	37.6	35.9	33.9	31.1	29.6	27.7	26.4
41.8	40.6	41.4	41.4	40.4	37.7	35.9	34	32.2	29.5	28.1	26.2
44	42.5	42.4	43.1	42.8	40.4	38.4	37.6	34.9	32.6	30.4	27.8
45.8	43.8	44.7	44.7	44.5	42.5	40.5	39.1	36	33.9	31.3	28.7
45.7	44.9	45.2	44.7	44.4	42.3	40.1	38.5	35.8	33.6	30.9	28.5
45.1	44.9	45.2	44.6	43.5	41.5	38.6	36.5	34.2	32.2	29.3	27
44.9	46.2	44.6	44.7	43	40.5	37.5	35	32.1	30.3	27.3	25.6
45.9	47.4	45.5	45	42.6	40.1	37.1	34.7	30.9	29.5	26.8	25.7

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
46.7	48	45.5	45.1	43.3	40.6	36.5	34	31.1	29.4	26.9	25.9
47.8	48.1	45.5	46.3	44.8	41.8	37.3	34.7	31.7	29.7	27.8	26.3
48.4	48.1	46.6	46.5	46.2	43.6	39.1	36.9	34.3	33.2	33	30.8
48.9	49.7	47.3	47.2	47.1	44.6	41.7	39.8	38	37.6	36.1	34.2
48.7	49.8	47.3	47	47	44.5	42.2	40.9	39.3	38.1	36.8	34.7
47	47.9	46.3	46.3	45.6	43.5	42.1	40.8	39.1	37.8	36.3	34.3
44.9	45.7	45	44.8	44.5	42.4	40.8	39.7	37.7	36.3	34.7	32.5
44.7	45.9	45	47.9	46.6	43.4	43.3	41.3	38.6	37.8	35.6	35.6
45.3	47.1	45.8	49	47.9	43.9	43.5	41.9	39.1	38.1	35.8	36
44.7	46.4	45.2	48.1	47.3	43.4	42.5	40.8	38.3	37.1	34.9	35
44.9	44.6	43.7	46.3	45.2	42	40.5	39	36.7	35.4	33.4	33.3
45.9	44.5	44.1	47.9	46.4	43.5	41.9	41.2	38.3	36.2	34.9	34.7
48	46.7	46.4	49.1	47.1	44.8	43.2	41.2	38.5	36.9	34	33.1

37.6	33.7	30.6	26.4	42.6	42.9	43.2	52.4	54.6	57.5	58	58.5	57.2
33.9	30.1	28.2	25.4	42.2	43.6	43.3	52.3	56.5	57.6	60	58.6	60
31.1	27.7	26.3	24.9	43	46.5	44.7	55	58.4	58.2	62.6	61.6	59.2
29	26.1	24.9	24.7	43.5	46.5	48.1	52.7	55.2	56.3	59.1	63.2	58.1
27.8	25.2	24.4	24.7	47.8	49.5	46.2	51.8	53.1	56.4	58.2	60.7	57.6
25.9	24.2	24	24.6	44.9	49	45.2	51.4	50.3	57	57.4	59.1	56.7
25.3	23.9	23.9	24.5	43.4	47.7	44.8	51.2	50.1	54.8	57.2	57.7	55.5
23.6	23.2	23.7	24.5	42.4	47	44.6	50.4	51.6	54.2	57.8	54.8	55.5
22.8	23	23.7	24.5	43.6	46	47.8	48.5	48.6	55.4	56.7	54.6	55.3
22.4	22.8	23.7	24.5	44.3	47.1	45.9	47.4	48.7	55.4	57.6	56.8	58.8
22.2	22.7	23.6	24.5	52.9	49.6	44.4	47.7	50.9	56.1	57	55.5	59
22	22.8	23.6	24.6	54	46.8	43.7	46.4	51.7	57	55.7	56.6	59.1
22.9	22.9	23.7	24.6	50.2	46.3	43.8	46.3	51.5	55.7	56.7	57.2	60.6
22.9	22.8	23.7	24.5	48.3	47.7	44.3	49.8	54.3	54.8	56.9	61.1	62.4
22.6	22.7	23.7	24.5	46	47	46.5	50.4	55.8	54.3	58.6	59.4	61.6
22.5	22.8	23.7	24.6	45.7	44.6	46.4	49.9	54.7	56	60.6	58.5	60.1
22.5	22.8	23.6	24.6	45	46.4	47.2	49.9	52.9	55.6	61.4	58.6	59.3
22.4	22.8	23.6	24.6	43.5	46.2	47.7	49.8	52.8	54.9	61.9	58.6	57.7
24	23.2	23.7	24.6	42.1	45.2	45.8	49.5	51.4	54.4	60.9	57.9	57.7
23.8	23.2	23.7	24.6	44.8	44.9	46.7	48.5	50.6	53.9	58.8	56.4	58
23.1	22.9	23.7	24.5	43.8	44.6	45.7	48.9	52.4	53.9	56.7	55.1	58
24.1	23.3	23.8	24.6	42.3	44.4	43.7	48.3	52.7	55.1	56.8	55.2	59.4
25.7	24	23.9	24.6	46.2	42.1	42.1	47.7	51.9	53.7	58.1	55.7	59.2
26.5	24.1	23.9	24.6	48.7	39.9	42.4	47.5	50.2	54.4	56.4	56.4	59.4
25.9	24	23.8	24.6	45.1	40.9	42.8	47.2	50.6	54.9	55.8	58.8	58.7
26.6	24.6	24	24.6	44.6	43.1	43.4	48.5	50.3	54.6	55.6	62.1	61.3
28.9	25.9	24.5	24.7	44.3	46.3	44.5	46.8	48.8	54.8	57.9	59	62.7
29.3	27	24.8	24.8	43.9	45.2	45.7	46.8	51.3	56.7	56.3	58	60.6
31.3	27.8	25.2	24.8	44.5	46.1	46.9	47.8	51.8	55.4	56.4	58.7	60.7
31.1	27.8	25.1	24.8	45.6	44	48.6	49.3	52.3	57.8	56.1	57.4	59.7
31.7	28.4	26.2	24.9	46.2	47.4	50.8	52	55	57	55.5	56.7	58.7
31.1	28.3	25.8	25	47.9	46.7	49.9	50.6	54.4	56.5	54.7	58.3	59.7
29.4	26.7	25	24.8	49.2	46.6	47.3	52.2	53	55.8	54.9	58.4	58.7
32.7	29.2	26.2	25.1	50.6	45	49	50.7	52.2	57	53.4	60.5	59
39.9	35.6	30.9	27	48.7	44.1	46.8	50	51.9	55.3	53.4	60.1	58
38.3	33.9	29.5	26.3	47.8	48.6	46.7	51.1	53.2	54.1	56.7	60.5	58.8
34.4	30.4	26.9	25.3	49.1	46.7	48.6	50.4	53.6	54.8	62.4	58.8	58.2
30.7	27.3	25.2	24.9	50	46	48.7	49.1	51.9	55.3	60.2	59.3	56.5
27.5	25.1	24.3	24.6	50.5	45.3	47.4	49.1	50.6	57.3	60	58.8	56.3
25.6	24.1	23.9	24.6	48.9	43.4	47.8	48.4	50.9	55.4	58.8	59.5	56.5
24.8	23.9	23.9	24.6	48.9	43.6	47.9	47.6	50.2	54.8	59	58.4	56.8
24.2	23.7	23.9	24.6	47.6	46.3	46.7	48.2	51.5	54.8	57.3	58.2	55.3
24.7	24.3	24.3	24.7	45.2	46.5	46.1	47.6	51.7	55.1	55.8	56.1	54.6
24.4	24	24.2	24.7	44.4	45.5	46.3	47.7	52.9	53	55.7	55.5	54.8
24.9	24.2	24.1	24.7	46	44.5	46.9	48.4	52.3	53.3	57.5	54.2	55.6
28.8	24.9	24.2	24.7	45.4	45.5	46.6	48.9	50.9	53.9	57.4	53.8	55.2
28.6	26.3	24.7	24.8	46.3	47.4	46.3	47.8	51.1	53	57.9	54.7	53.2
34.2	31.9	27.1	25.4	43.4	46.9	45.2	48	50.9	53.9	57.4	57.8	52.7
35.2	32.7	28	25.8	43.5	48.3	45.4	50.3	51.5	52.9	57.1	57.2	53.7
32.2	30	26.3	25.3	43.7	46.4	45.8	50.4	51.2	53.9	57.8	56.8	54.5
29.1	27.3	24.9	24.9	43.5	47.4	49.4	49.7	50.3	55.9	59.9	57.3	54.6
29.9	26.3	24.4	24.8	46.2	48	49.2	49.4	51.9	58.6	61.8	57.6	56.5
30.2	26.6	24.6	24.7	46.5	49.5	47.9	50.3	55	57.9	61	55.7	55.7
32.6	27.3	24.5	24.7	49	46.6	47.9	49	53.8	56.7	61.2	56.2	55.7
31.3	27.5	24.7	24.7	45.7	45.6	48.1	48.8	54.5	56	59.9	57.7	56.2
31.2	28.2	25.2	24.9	44.4	47.3	48.7	47.9	54.3	56	59.1	58.1	56.2
31.1	28.1	25.1	24.9	44	47.8	45.7	46.9	53.8	58.2	60.3	57.6	54.1
28	25.7	24.3	24.6	43.5	47.8	45.4	52.2	52.5	55.3	59.3	56.9	53.5
25.3	24.1	23.9	24.6	46.3	47.3	50.5	50.8	52	55.2	57.7	57.1	53.5
23.5	23.3	23.7	24.6	46.5	50.3	50.2	49	53.6	54.7	58.3	55.7	52.2
22.7	22.9	23.6	24.5	51.3	53.3	50.1	51.1	53.9	54.2	57.2	55.5	51.9
22.5	22.8	23.6	24.5	53.4	55.9	52.3	51.1	51.7	52.9	55.8	55.8	51.1
22.6	22.9	23.6	24.5	56.6	60	50.7	49.9	51	51.5	55.3	56.7	51.1
22.5	22.8	23.6	24.6	55.9	56	48.3	50.2	52.7	53.4	55.8	55.8	52.9
22.4	22.7	23.5	24.5	53.7	54.4	46.6	50.4	51.3	53.5	58	54.7	52.7
22.1	22.7	23.6	24.5	52.9	52.6	46.8	50.9	49.3	52.6	57.4	56.4	52
22.5	23	23.6	24.5	53.9	49.2	47.6	48.7	50.4	52.9	56	57	51.9
22.9	23.1	23.7	24.6	50.8	47.8	48.1	47.3	50.4	54.1	55.3	58.1	52.6
22.9	23.1	23.7	24.6	51	48.2	49.8	48.2	50.3	54.4	54.5	56.8	52.3
22.4	22.9	23.7	24.6	52.1	50	47.9	48.3	49.9	52.9	54.1	55.4	53.9
22.4	22.8	23.7	24.6	50.6	50.1	46.8	48.1	51	53.2	53.8	54.6	53.9
22.3	22.8	23.6	24.6	48.1	47	46.8	48.9	49.6	52.7	54	54.3	54.9
23.1	23.3	23.6	24.6	46.5	46.8	46.7	48.7	50.3	53.5	55.4	53.5	54.6
23	23.2	23.7	24.6	47.7	46.7	46.3	48.2	50.7	52.8	55.9	53.3	55.1
22.8	23.1	23.7	24.6	47.4	47.9	47.6	49.4	50.8	53.1	55.9	54.1	54.7
22.3	22.8	23.7	24.6	50.1	48.8	47.3	48	51.9	52.2	57.7	56	54.2
22.4	23.1	23.6	24.6	49.7	46.4	46.7	47.6	53.2	53.4	59.5	56.9	53.4
23.9	23.7	23.8	24.5	47.5	47.1	47.4	50.5	53.1	53.5	57.4	60.9	53.5
26.8	25.1	24.3	24.7	45	46.2	45.5	51.3	54.5	52.3	56.3	58.2	53.6
27.8	26.6	25.1	25.1	42.6	44.9	47	48.7	52.8	52.4	54.6	56.3	52.5
28.6	26.5	24.7	24.9	45	47.6	46.6	48.4	52.6	52.8	54.1	56	52
25.9	24.6	24.2	24.7	49.8	49.2	44.5	48	52.7	52.4	54.3	54	53.5
23.9	23.5	23.8	24.6	48.4	48	42.6	48.4	52.7	52.8	55	55.8	52
23.8	23.6	23.9	24.6	47.2	44.5	44.1	48.5	51.8	55.8	54.4	57.6	51.6
24.4	24.2	24	24.6	48.2	43.9	46.6	49.5	51.4	57	55.4	61.4	52.1
23.9	24	24	24.6	48.8	49.2	46	49.4	51.2	54.5	54.2	64.5	51.3
24.1	23.5	23.8	24.6	50.9	48.5	45.1	48.2	52	53.3	55.9	61.8	49.3
25.8	24.2	23.9	24.6	49.5	48.3	44.6	48.2	52.5	53.2	60.1	59.5	50.4
26.7	24.7	24.1	24.6	48.2	48.8	47.5	48.2	53.5	53.5	59.6	58.7	55.8
26.4	24.5	24	24.6	48.2	45.7	47.6	47.9	53.7	55	58.1	56.7	54.2
25.3	23.9	23.9	24.6	48.2	44.6	52.5	52.9	53.2	53.8	57	55.8	53.4
24.3	23.4	23.7	24.6	47.3	45.2	51	51	52	52.8	56.7	55.8	53.7
24.2	23.2	23.8	24.6	47.9	49.8	49.2	48.4	52.1	52.4	58.1	64.4	58.6

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
24.2	23.2	23.9	24.7	47.4	48.6	45.8	47.7	52.2	53.2	59.2	62.6	56.4
24.5	23.3	23.8	24.6	46.4	45.5	45.6	49.2	51.5	53.5	61.6	60.9	55.3
28	25.2	24.5	24.7	44.8	45.8	45	50.5	50.2	53.3	60.2	62.1	54.8
32.2	28.5	26.3	25.1	46.2	46.1	43.7	49.2	51.7	52.7	59.9	62.3	54.7
32.9	29	26.7	25.3	44.3	44.5	44.1	48.9	51.1	53.2	62	61.3	57.9
32.6	28.8	26.5	25.2	44	47.3	43	50.2	55.4	57.5	60.5	61.2	58.1
31	27.4	25.6	24.9	46.3	45.1	49.4	53.3	56.8	55.6	59.8	62.2	55.9
32.6	28.5	26	25	46.3	43.6	49.1	50	53.8	54.2	59	69.2	55.7
33.4	28.7	26.1	24.9	46.3	44.2	48	49	52	54.5	58.9	67.7	61.1
32.4	27.9	25.6	24.8	44.5	43.8	49	50.7	52.2	54.5	59.8	65.3	59.5
30.9	27.2	25.1	24.7	45.3	43.5	49.4	49.7	52.9	55.8	59.6	62.2	56.9
30.9	27.4	25.3	24.8	45.5	43.7	48.2	49	52.5	56.8	58.7	58.9	54.8
30	26.3	24.7	24.7	44	44.1	47.2	47.4	50.7	56.3	59.5	56.2	52.9

57.1	59.6	60.8	64.3	56.7	58.4	56.2	61.2	57.2	54.6	54.9	55.7	55.6
55.7	58.3	60.1	60.8	56.9	55.3	53.6	57.4	53.5	51.2	51.9	53.1	52.3
55.3	56.9	57.7	57.9	54.4	52.8	51.4	53.7	50.3	48.6	49.5	49.8	49.6
56	56.1	56.5	55.8	53.6	51.1	50.3	50.8	48.5	47.1	48.6	47.7	47.9
55.9	54.2	56.3	54.3	52.6	49.5	49.8	48.7	46.4	45.4	46.6	45.6	46.3
56.4	53.5	55	52.3	51.4	48.5	49.9	47	44	44	45.6	44.4	45.3
55.2	53	54.7	51.4	50	48	48.1	46.3	42.7	43.7	45.6	42.9	43.5
54.4	52.8	53.3	51.3	49.5	46.6	46.2	44.8	41.9	43.5	44.4	42.2	42.1
55.4	52.8	53.5	51.7	50.5	45.6	45.4	44.5	41.6	45.2	43.8	41.2	41.6
56	52.7	53.2	52	49.6	46.4	44.8	44.1	41.2	43	42.8	40.1	41.2
55.3	52.6	53.1	50.6	49.5	46.3	44.2	43.6	40.8	41.8	43	39.5	40.2
55.3	52.7	52.6	49.2	48.4	46.4	43.9	43	40.9	41.6	42.7	40	40
54.3	52.1	53.4	49	47.8	45.7	43.2	42.3	40.2	42	43.4	39.5	39.9
54.1	53.4	53.9	49.8	47.6	45	42.5	41.8	39.6	40.2	42.5	38.9	39.4
53.1	52.5	54.3	49.4	46.8	45	42.5	42.3	39.6	39.5	42	37.8	39.4
52.8	53.7	53.2	48.3	46.2	45.2	41.8	42.4	39.1	39.4	41.7	37.7	39.1
53.4	54.6	52.6	48.8	46.6	44.8	41.7	41.8	38.9	39.3	41.6	37.4	38.9
54.3	53.9	52.4	49.8	49.5	44.5	41.7	41.5	39.9	39.1	41.4	38.1	39.2
53.5	53.5	52.1	48.5	52.6	44.9	42.8	41.2	40.4	42.1	41.7	38.4	39.7
53.1	53.7	51.5	48.9	51.6	46	41.9	41.7	41.3	43.1	41.9	39.6	40.4
52.5	53.7	53.6	48.7	49.5	47.4	42.6	42.6	43	46.1	42.4	41	41.1
54.3	54.1	55.5	49.6	48.7	46.6	44	43.5	42.7	45	44.4	43.2	43.3
54.9	53.6	55.2	50.4	48.3	47.7	45.1	45.1	43	43.7	45.9	43.2	44.6
59.3	53.3	54.5	49.7	48.1	48.2	45.2	44.1	43	43.6	45.7	42.1	43.4
57.7	56.1	54.5	48.9	47.5	46.3	45.1	43.8	42.8	42.5	45.5	41.4	42.8
57.2	54.8	53.4	48.7	47.6	46.1	45.3	44.1	43.7	42.4	45.5	41.5	42.9
58.9	55.2	53.1	49.6	51.5	46.6	48.6	45.7	46	45.3	48.6	46.3	46
59.9	53.5	55.5	50.8	51	48.9	48.6	49.7	47.6	47.8	50.6	49.3	48.8
59.6	53.7	57.6	52.9	50.7	52.2	48.8	49.3	46.7	47.8	51	50.3	50.2
57.4	53.8	57.2	55.5	51.9	49.9	48.2	48.2	46	47.2	50.2	48.4	49
55.2	52.3	55.6	56.2	50.7	49.3	47.8	47.3	45.4	46	48.5	47	47.5
54.7	51.5	53.3	54	49.3	48.1	46	46.2	44.7	44.8	46.7	45.4	45.9
53.4	51.2	52.6	52.9	48.4	46.7	44.8	44.4	43.2	44.2	45.5	44.5	44.4
53	52.2	52.3	51.8	48.2	45.7	44	44.4	43	45.7	45.3	43.7	43.7
53.1	52.1	51.2	51.1	47.9	45.8	43.8	44.1	43.6	45.4	45.5	43.5	43.8
56.2	51.5	51.2	50.5	47.4	45.9	44.1	42.6	43.1	44.2	44.2	42.3	42.4
57.7	52.3	51	50.1	47.4	45.5	43.5	42	42.1	42.8	43.3	41.1	40.9
58.9	53	52	50.6	48.2	45.7	44.1	42.3	42.3	42.7	42.7	40.3	40.5
57.8	53.2	54.3	49.7	48.4	47.2	44.2	43.9	42.7	42.9	42.5	40.4	40.7
58.6	53.2	54.5	51.1	49.6	48.8	44.2	43.9	42.7	42.6	42.9	40.6	40.6
55.9	53.2	55.1	51.6	49.5	48.6	43.6	43.7	41.8	41.7	42.4	40.6	41.1
54.6	53.2	57.2	51.6	49.8	49.1	42.6	43.7	41.9	42.3	42.1	40.3	41.3
54.4	54	58.2	51.3	49.1	48	42.3	43.2	41.8	42.5	42.2	40.4	41.4
54.3	55.3	58.1	52.9	48.7	46.9	42.6	43.4	42.6	42.4	42.8	40.7	41.8
54.6	54.5	56.8	51.4	47.5	45.7	42.7	43.4	41.7	41.4	42.6	41	41.9
53	54.1	55.4	50.6	47.4	45.2	42.6	43	41.5	41.3	42.6	41	41.8
53.7	52.3	53.7	50.5	46.7	45.2	43	41.8	41.6	42	42.4	39.8	40.2
53.8	51.4	54.3	50	47.2	45.2	42.1	41.9	41.3	41.7	42	39.6	39.5
54.4	51.4	55.1	51.3	47	44.8	41.9	41.2	40.9	41.2	41.7	40.4	40.2
53.6	52.7	54.9	52	46.9	44.8	42.1	41.4	40.9	40.8	41.4	39.3	39
53.9	53.6	54.6	52.1	46.3	45.7	42.9	42.8	40.9	40.8	41.7	39.4	39
54.4	53.4	52.6	51.7	46.7	46	47.2	43.1	42.1	41.3	42	40	39.8
54.1	54.5	52.9	51.3	49.9	45.8	46.5	44.6	45	44.3	43.9	43.2	42.9
53.6	54.3	54	51.7	49.9	48.8	47	51.2	47.6	46.2	46.4	45.6	45.9
53.2	53.7	58	51.7	49.8	48.2	46.4	48.2	45.5	45.5	45	43.9	44.1
53	56.2	57.7	50.2	49.6	47	46	47.4	44.3	43.6	44.1	42.5	42.7
53.9	55.3	56.1	49.6	50.8	46.7	45.4	45.8	43.6	42.7	43	41.1	41.1
53.1	53.6	53.5	49	49.2	45.8	44.1	43.4	41.9	41.1	41.9	39.7	39.7
53	52.6	51.8	49.5	47.7	43.8	42.6	41.4	40	39.9	41.5	38.7	38.9
53.8	50.7	51.3	50.2	46.6	42.7	41.8	40.4	39	39.3	41.1	38.5	37.9
52.9	50.2	51.7	51.9	46.1	42.6	41.8	39.8	38.7	39.3	40.8	37.7	37
52.9	51.2	52.6	53.4	46.3	42.2	41.6	39.1	38	39.1	40.8	37.5	37
53.3	51.2	53	53.8	46.4	42.1	41.1	39.4	38.5	39.4	40.9	37.5	37.2
52.6	51.5	51.5	51.4	47.7	41.9	41.3	40.6	40.6	41.1	41	38.6	37.6
52.5	51	52.8	49.6	47.2	42.3	41.4	41.5	39.8	40.7	41.2	37.9	37.1
54.3	50.9	53.8	49.7	47.2	43.4	40.9	41.2	39.6	40.6	41.1	37.3	36.3
53.6	52.6	54.6	52	47.2	43	40.7	40.8	39.2	40.6	41	36.3	36.1
52.2	52.3	54.5	50.6	47.2	42.7	40.3	40.1	38.7	40.2	41.1	36.3	36.2
52.4	53.6	56.2	50.3	47.2	42.6	40.8	40.3	38.1	39.8	41.3	37.1	36.9
54.9	53.5	55.8	53.1	47	43.3	41.6	41	37.9	39.3	41.2	37.1	36.5
56	53.8	55.7	52.2	47.4	43	41.6	40.8	38.4	39.2	41.4	37.3	36.8
55.4	54	54.6	52	48.4	44.5	42.4	42.5	38.6	40.6	41.7	38.7	38.1
55.9	54.9	53.7	51.6	47.6	44.9	42.4	41.7	38.3	40.3	41.4	39	38.3
56.3	56.5	53.4	50.2	47.1	45.6	41.9	41.4	38.3	40.1	41	38.6	37.8
55.2	57.3	55.6	49.6	47.6	45.2	41.8	42.2	38.7	40.5	41.2	38.2	37.3
54.1	57.8	54.1	51.1	48.4	44.9	42.8	42.1	39.2	40.8	41.5	38.3	37
52.8	56.1	53	52	47	45.2	43.2	42.2	39.2	39.8	41.4	38.3	36.9
51.8	54.5	52.1	50	46.5	44	41.9	40.9	37.6	39.4	40.8	37.8	36.4
51.4	53.6	50.5	49.5	46.7	43.5	41.6	40	37.6	39.4	40.7	37.6	36.3
51.3	53.5	49.6	48.3	46.6	43	41.2	39.9	38.8	40.2	41.6	38.5	38.4
53.4	53.5	48.8	47.3	45.7	42.6	41.1	40.1	38.3	39.8	41.5	38.3	38.2
53.3	52.4	48.5	47.3	47.2	43	42.2	39.6	38.3	39.3	41.2	38.4	37.5
53.3	52.4	48.7	48.7	46.7	42.7	42.5	39.6	39.4	39.2	41.3	37.8	37.9
53.7	61.2	48.8	50.2	47	42.8	42.1	41.6	39.8	40.2	41.8	38.6	38.1
52.9	58.4	50	49.8	45.9	43.8	42.1	43	41.7	41.3	42.7	40.3	40.2
51.9	57.5	51.8	48.9	45.6	43.9	42.2	43.2	42.6	42	42.9	40.8	40.6
51.9	56.9	55.1	48.9	46.5	43.7	42.7	42.3	42.4	41.6	42.6	40.6	39.8
53.6	56	54.7	50.5	47.8	43.4	43.4	42.7	42.9	42.3	43.2	41.8	40.5
52.4	56.7	53.7	51.1	49.5	44.4	49.7	48.8	46	46	46.4	43.8	42.3
50.6	58.3	60.2	51.9	48.7	48.1	49.1	48.5	45.8	46	46.4	44.9	43.8
51.1	60.9	58.1	52	48.7	46.8	47.3	47.7	44.8	44.6	45.1	44.3	44.3
54.1	58.8	56.7	51.6	48.6	46.4	46.8	47.3	44	44.2	45	44.3	44.7
52.8	56.6	55.5	51.9	48.4	46.7	46.6	46.1	42.9	44.3	44.9	44.9	46.2

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
51.9	54.7	54.9	51.3	49	45.9	45.7	45.3	42.4	44.5	45.2	45.9	47.4
51.8	53.1	55.6	52.2	49.4	45.9	45.3	45.3	42.5	45.4	45.7	46.4	47.4
51.7	52.9	55.5	51.6	49.5	46.5	45.2	46.2	44.9	46.5	45.5	47.6	47
51.4	53.1	55	52.4	50.3	46.7	46.2	46.8	46.4	47	46.4	48.3	48.1
54	56.2	55.5	53	50.7	47.5	46.7	47.8	45.2	46.8	48.6	47	48
53.5	56.7	55.7	53.8	51.4	47	46.8	45.6	44.5	44.8	46.2	44.9	45.7
53.4	57.9	54.5	58	51.8	45.8	47.3	45.1	44.4	43.7	44.3	43.6	44.2
53.1	64.9	54.4	57.5	51.5	49.3	49.8	45.1	44.9	43.9	44.3	43.6	44.1
59.6	65.3	57	56	54.6	50.7	50.6	46.5	46.7	47.3	46.4	44.7	45.9
57.7	71	67.9	54.4	54.8	52.2	50.1	47.9	46.7	46.3	48.4	44.2	44.6
56.3	69.1	65.4	52.5	52.7	50.7	47.6	48	45.2	45.9	47.7	43.8	43.7
53.7	65	63.5	52.2	50.9	48.4	46.9	48.3	45.4	45.9	47.4	44.9	43.9
53.6	61.1	59.9	53.9	49.5	47	48	47.2	45.5	46.5	47.5	45.8	44.5

55.1	52.5	52.1	49.8	47.8	46.5	44	42.6	40.1	37.4	34	30.2
51.8	49.7	49.7	47.5	45.6	44	41.1	39.4	37	34.4	31.1	27.7
48.8	47	47.7	45.2	43.4	41.7	38.5	36.7	34.4	31.9	29	26.1
47.2	46.4	47.2	43.8	42.8	41.3	37.4	35	32.7	30.7	27.8	25.2
45.8	45.5	45.1	41.3	40.4	39	35.2	32.3	30.1	28.2	25.9	24.2
45.7	44.7	43.1	40.1	38.4	37.4	33.9	31	28.6	26.8	25.1	23.9
43.4	42.7	40.9	38	35.8	34.9	31.6	28.4	26.2	24.7	23.6	23.2
41.7	40.6	39	36.8	34.5	32.5	29.6	26.6	24.7	23.5	22.8	23
40.5	39.4	37.5	36.3	33.4	31.4	28.5	26	24	22.7	22.3	22.7
40.3	38.7	36.8	35.9	32.3	30.1	27.6	25	23	22	22.1	22.7
39.8	37.9	36.1	35.1	32.1	29.6	26.9	24.7	22.7	21.8	21.9	22.7
39.1	37.2	35.5	34.2	31.6	29.2	26.7	24.3	22.3	21.7	21.9	22.6
39.3	36.9	35.8	34.2	32	29.9	27	24.9	22.6	21.9	21.9	22.7
39.4	37.5	36.3	34.5	32.4	30.4	28.2	26.7	24.3	23.2	22.6	22.7
39.1	37.1	35.9	34.1	31.9	30.1	28.2	26.2	23.9	22.8	22.4	22.6
38.8	36.9	35.5	34	31.5	29.8	27.8	26	23.7	22.5	22.3	22.6
38.5	36.7	35.4	34.1	31.8	29.5	27.5	26	23.2	22.3	22.3	22.7
38.3	36.6	35.6	34.5	31.7	29.2	27.6	25.7	23	22.2	22.2	22.6
38.8	37.4	36.5	34.9	31.9	29.7	27.8	26.2	23.7	22.5	22.4	22.8
39.2	37.9	37.2	35.2	32.3	29.9	28.2	26.8	24.6	23.9	23.1	22.9
40.4	39.6	38.9	36	32.6	30.7	28.4	26.5	24.5	23.4	22.8	22.8
42.4	42.1	40.7	37	33.8	32.2	29.3	27.4	24.9	23.4	22.8	22.8
43.8	42.7	40.6	37.5	35.2	34.1	31.9	30.1	27.5	25.7	24.1	23.3
42.9	41.4	39.3	37.4	36.4	35.2	33.5	31.9	29	27.5	25.5	23.7
42.3	40.6	38.8	37.3	36.5	34.5	33	31.6	28.5	27	25.2	23.7
42.4	40.8	39.6	37.7	36.5	34.6	33.1	32	28.8	27.7	25.7	23.8
44.6	42.9	41.9	42	39	36.6	35	33.4	31	30.4	26.6	24.6
47.4	45	44.6	44.1	41.4	39.7	37.9	36.7	34.1	32.5	28.7	25.8
48.1	46.7	45.8	45.3	42	39.9	39.4	37.4	34.8	33	29.4	26.9
47.5	45.5	44.1	43.1	40.7	38.4	37.4	36.2	33.4	31.5	29.4	26.5
46.1	44.4	42.7	41.4	39.6	37.6	36.9	36	32.7	31	29	26.2
44.9	43.3	41.9	39.8	38.4	36.8	36.1	35.6	32.6	31.4	29.4	26.8
42.9	41.9	40.7	38.9	37.3	36.4	35.3	34.7	31.8	29.7	27.2	25.2
41.7	41.1	40.2	38.8	37.1	36	36.2	34.6	31.8	29.1	26.7	24.9
41.6	42.3	41.1	40.2	41.7	37.1	40.3	41.1	34.6	33.3	32.1	28.6
41	40.9	42.1	40.4	38.7	35.8	38.6	40.7	37.3	36.4	34.5	30.4
40	40	40.2	38.5	36.9	35.3	35.6	37.1	33.7	32.6	30.8	27.3
39.4	39.1	39.2	37.6	35.9	33.9	33.2	33.5	30.5	29.6	27.5	25.2
39.4	39	38.3	36.7	35.1	33.1	32.1	31.5	29.6	27.6	25.5	24
39.5	38.7	37.7	36.4	34.9	32.6	31	29.8	28.2	26.5	24.4	23.5
39.6	38.5	37.6	36.3	34.9	32.5	30.7	28.8	27.3	26.1	23.9	23.4
39.8	38.9	38.2	36.7	35.3	32.7	30.7	28.8	27	26.1	23.8	23.3
40.4	41	41	36.9	35.8	34.8	30.9	29.3	27.3	25.9	24	23.6
41.3	41.2	40.8	37.7	36.5	34.5	31.5	29	26.9	25	23.5	23.5
41	41.8	40.7	38.8	35.9	33.4	30.6	28.8	26.9	25	23.5	23.5
40.9	41.7	40.1	38.3	35.7	33.1	30.4	28.5	26.9	25.7	24.5	23.6
40	40.2	38.9	37.1	35.5	33.1	30.7	29.7	28.9	28.2	27.4	24.3
39.4	39.6	38.4	36.8	35.4	33.1	31.9	31.9	30.5	29.1	28.7	26.6
39.3	42	42.2	42.9	42.8	43.1	42.1	40.8	38.7	34.4	32.2	29.9
38.7	40	39.7	39.7	39.4	39.4	38.2	36.9	34.9	30.9	29.1	27.3
38.7	39.3	38.5	37.9	37.8	37.1	36	34	32	29.2	27.7	25.8
39.1	39.3	38.5	38.3	37.7	36.4	36.6	33.5	31.6	28.6	26.8	25.1
41.9	41.3	40.1	40.5	42.2	39.9	38.5	35.7	35	33.5	29.2	25.9
45.4	44.5	42.7	42.5	43.6	41.9	41.1	39.2	36.6	33.2	29.8	25.8
44.2	42.6	42	40.6	42	40.4	39.4	37.1	37.8	34.6	29.8	26.1
42.4	41.1	40.3	39	39.7	38.6	38	35.6	36.1	33	28.5	25.7
41.2	40.2	39	36.9	36.8	35.5	35.7	34	32.8	30.8	28	25.8
39.7	39.1	37.9	35	34.2	32.6	32.3	30.5	29.3	27.4	25.3	24.1
38.5	38.2	36.8	34.1	33	31.1	29.4	27.5	26.3	24.8	23.5	23.3
37.4	37.7	36	33.4	33.2	30.9	27.2	25.4	26.1	24.8	22.6	22.9
36.9	36.9	35.3	32.6	32.1	30.9	27.1	24.9	31	28.1	22.5	22.8
36.6	37.1	35.2	32.4	31.6	35.2	28.5	24.9	30.3	27.2	22.2	22.7
36.7	37.5	35.3	33.2	32.2	33.9	28.6	25.9	28.1	25.4	22.2	22.7
37.9	37.6	36.4	35.1	34.1	32.7	30	27.9	26.6	24.1	22.3	22.6
37.5	37.2	35.6	35.3	33.3	30.7	28.2	25.8	24.3	22.6	22	22.6
37.1	35.9	34.8	33.7	31.4	29	26.5	24.5	23.1	21.9	21.9	22.5
36.5	34.6	33.8	32.4	30.1	27.8	25.6	23.6	22.3	21.5	21.9	22.5
36.3	34.5	34.1	32.7	29.9	27.4	25.3	23.6	22.8	22.1	22.5	22.9
37	35	34.4	32.8	30	27.4	25.4	23.5	22.3	22.1	22.3	22.9
36.7	35.3	34	32.6	29.7	27.1	25.1	23.1	21.9	21.6	22	22.6
36.9	35.7	34.5	33	30	27.8	25.5	24.1	22.9	21.9	22.1	22.7
38	38.5	36.9	36.3	33.9	31.1	29.1	27.4	26.2	22	22.1	22.7
38.5	39.7	38.2	36.8	34.7	31.9	30	29.3	27.3	22.8	22.4	22.8
38.1	39	37.6	36.4	34.5	31.1	29.6	29.2	28.2	23.8	22.8	23
37.7	38	36.4	35.2	33.4	30.5	28.8	28.8	27.8	23	22.3	22.8
37.2	36.7	35.6	34.4	32.1	29.9	27.3	26.4	25.7	22.2	22.1	22.7
36.9	36.2	34.7	33.3	31.2	29	26.2	24.6	23.6	21.6	21.7	22.6
36	35.8	34.3	32.8	30.7	28.6	26.5	25.4	25.8	22.5	22.3	23
35.7	35.7	34.2	32.5	30.5	28.5	27.2	27.5	27.7	25.2	23.7	23.5
38.9	40.1	39.3	38.9	37.9	36.5	35.6	32.2	30.2	27.5	25.8	24.5
39.3	39.7	38.3	38.3	37.9	35.8	35.1	31.1	29.7	27.5	25.9	24.6
38	38.4	37	36.1	35.2	33	32.3	28.8	27.4	25.1	23.9	23.5
38.2	38.5	37.2	35.6	34	31.5	29.9	27	25.3	23.3	22.9	23
38.5	38.6	37.7	35.7	34	31.2	29.3	26.3	24.6	22.9	22.7	22.9
40.1	40.6	39.4	37.1	34.6	31.4	30.2	29.6	27.3	25.4	23.7	23.5
41.4	41.3	40.5	37.3	35.3	32.3	30.6	28.4	27.2	25.1	23.4	23.4
40.1	40.6	39.8	37	34.9	32.7	30.2	27.7	26.9	24.7	23.4	23.2
40.7	41.3	40.3	37.7	36	34.1	32.2	29.6	28.2	26.2	24.1	23.5
42.4	43.1	42.8	40.4	38.4	37.6	34.9	32.6	30.4	27.8	25.7	24.2
44.4	44.4	43.5	41.5	38.6	36.5	34.2	32.2	29.3	27	25.3	23.8
44.2	44.1	42.8	40.5	36.9	35	32.1	30.3	27.3	25.7	24.3	23.4
44.3	44.1	42.3	39.9	36.8	34.6	30.8	29.4	26.7	25.6	24	23.2
44.5	44.5	42.2	39.8	36.5	33.9	30.8	29.1	26.4	25.5	24	23.1

NM1 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
45.2	44.7	42.3	39.9	36.1	33.6	30.7	29	26.4	25.5	24	23
45.1	45.1	43.3	40.6	36.5	34	31.2	29.3	26.9	25.9	24.1	23.2
45.1	46.2	44.6	41.7	37.3	34.6	31.4	29.6	27.6	26.3	24.4	23.2
46.5	46.4	46.2	43.7	39.1	37	34.3	33.3	33.2	30.9	28.2	25.3
46.3	46.3	45.6	43.5	41.7	39.9	38.1	37.6	36.1	34.2	32.2	28.5
45	44.7	44.4	42.3	40.8	39.7	37.7	36.4	34.8	32.5	31	27.5
43.4	44.3	43.7	41.4	39.8	38.4	36.6	35.1	33.2	31.4	29.6	26.5
43.4	44.5	43.9	41.7	39.9	38.5	36.8	35.3	33.7	31.7	29.8	26.8
44.8	47.8	46.6	43.4	42.5	40.9	38.3	37.1	34.9	35	32.5	27.9
43.6	45.6	45.2	41.7	40.4	38.8	36.1	34.8	32.6	32.6	30.2	26.3
43.3	45.6	44.6	41.5	39.9	38.1	35.9	34.7	32.6	32.1	29.8	26.3
43.3	46.2	44.7	42.1	40	38.2	35.9	34.8	32.6	32	29.7	26.2
44.1	48	46.4	43.5	41.6	40	37.4	35.6	33.6	32.6	29.7	25.6

27.7	25.4	7.5	No	No
26.3	24.9	5.9	No	No
25	24.7	3.2	No	No
24.4	24.7	1.2	No	No
24	24.6	0.6	No	No
23.9	24.5	1.1	No	No
23.7	24.4	1	No	No
23.6	24.5	-0.2	No	No
23.6	24.5	0.8	No	No
23.6	24.5	1.1	No	No
23.5	24.5	2.3	No	No
23.5	24.4	1.6	No	No
23.5	24.5	2.1	No	No
23.6	24.5	0.6	No	No
23.6	24.5	0.6	No	No
23.6	24.5	0.7	No	No
23.5	24.5	0.6	No	No
23.5	24.5	1.5	No	No
23.5	24.5	3.8	No	No
23.7	24.5	5.9	No	No
23.6	24.5	2.4	No	No
23.6	24.5	0.9	No	No
23.8	24.5	1.2	No	No
23.8	24.5	0.2	No	No
23.8	24.5	0.4	No	No
23.8	24.5	0.3	No	No
24	24.5	0.5	No	No
24.4	24.6	-0.5	No	No
24.7	24.7	2.6	No	No
24.7	24.6	1.9	No	No
24.6	24.6	5.2	No	No
25	24.8	4.3	No	No
24.2	24.6	1.3	No	No
24	24.6	6.7	No	No
25.8	25	11.9	No	No
26.9	25.3	8.8	No	No
25.2	24.8	5.9	No	No
24.3	24.6	3.3	No	No
23.9	24.6	0.2	No	No
23.8	24.5	0.8	No	No
23.8	24.5	0.5	No	No
23.7	24.5	2.9	No	No
23.8	24.5	0.8	No	No
23.8	24.6	0.4	No	No
23.8	24.6	0	No	No
23.8	24.6	3.1	No	No
24	24.5	0.5	No	No
24.8	24.8	2.7	No	No
26.3	25.2	12.9	No	No
24.9	24.9	9.1	No	No
24.3	24.8	4.8	No	No
24.1	24.7	1.8	No	No
24.3	24.7	2.9	No	No
24.3	24.6	12.4	No	No
24.3	24.6	10	No	No
24.1	24.6	7.5	No	No
24.3	24.6	7.5	No	No
23.8	24.6	5	No	No
23.7	24.5	1.8	No	No
23.6	24.5	0.7	No	No
23.6	24.5	0.9	No	No
23.5	24.4	0	No	No
23.5	24.4	0.5	No	No
23.5	24.5	0.9	No	No
23.5	24.4	0.2	No	No
23.5	24.4	1.3	No	No
23.4	24.4	0.2	No	No
23.5	24.4	0	No	No
23.6	24.5	0.8	No	No
23.5	24.5	0.1	No	No
23.6	24.5	0.6	No	No
23.5	24.5	0.7	No	No
23.5	24.5	1.1	No	No
23.6	24.5	0.8	No	No
23.5	24.6	0.3	No	No
23.6	24.5	0.5	No	No
23.6	24.4	0.4	No	No
23.6	24.5	0.1	No	No
23.7	24.5	7.1	No	No
24.1	24.6	11.2	No	No
24.2	24.7	7.7	No	No
23.8	24.5	2.3	No	No
23.8	24.5	0.7	No	No
23.7	24.5	0.3	No	No
23.9	24.5	0.3	No	No
23.8	24.5	0.4	No	No
23.7	24.5	0.8	No	No
23.8	24.5	0.4	No	No
23.9	24.6	1.1	No	No
23.9	24.5	1.2	No	No
23.7	24.5	0.5	No	No
23.6	24.6	0.2	No	No
23.6	24.6	0.4	No	No

NM1 KWAQN 1020 El Centro Street, South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAIeq-LAeq	OVLD	OBA OVLD	Marker
23.7	24.6	0.6	No	No	
23.7	24.5	0.6	No	No	
23.7	24.6	0.1	No	No	
24.5	24.7	0.6	No	No	
26.3	25	1.2	No	No	
25.6	24.9	1.1	No	No	
24.9	24.8	-0.2	No	No	
24.9	24.8	-0.2	No	No	
25.7	24.8	4.1	No	No	
24.7	24.7	1.8	No	No	
24.7	24.7	0.3	No	No	
24.7	24.7	1.1	No	No	
24.2	24.6	0.8	No	No	

572		11/19/2021	1:04:33 PM	56.4	73.0	56.7	56.0	95.3	11.7	48.7	56.6	64.6	65.2	58.7	53.3	53.8	52.1	48.1
573		11/19/2021	1:04:34 PM	53.5	70.5	56.6	54.8	95.3	10.5	50.3	58.7	62.1	65.7	53.6	52.7	51.8	48.7	45.3
574		11/19/2021	1:04:35 PM	50.3	62.7	54.8	52.5	95.3	12.1	51.2	60.2	58.8	61.3	52.4	48.8	48.3	45.7	42.1
575		11/19/2021	1:04:36 PM	51.6	62.7	52.5	51.9	95.5	11.7	51.4	57.6	61.3	57	52.1	48.7	48.2	47.8	43.9
576		11/19/2021	1:04:37 PM	56.4	69.3	55.8	52.1	95.3	7.2	48.8	59.7	63.8	58.7	52.7	51.5	49.6	54.4	45.7
577		11/19/2021	1:04:38 PM	58.2	70.7	57.6	55.8	95.4	6.9	49.6	56	62.9	57.9	53.1	53.9	51.7	56.3	49.7
578		11/19/2021	1:04:39 PM	55.6	67.6	57.1	56.2	95.4	8.1	50.4	59.5	65.8	57.4	52.8	51.3	50.2	52.4	48.5
579		11/19/2021	1:04:40 PM	53.9	68.6	56.2	54.8	95.4	10.8	47.3	59.8	62.5	57.1	52.9	51.9	49.8	50.7	46.4
580		11/19/2021	1:04:41 PM	49.7	60.6	54.8	52.3	95.4	14	47.8	60.7	65.3	60.8	52.2	49.3	46	45.4	41.7
581		11/19/2021	1:04:42 PM	50.9	62.1	52.3	51.5	95.4	11.2	49.1	61	64.6	58.7	54.2	49.4	48	46.4	43
582		11/19/2021	1:04:43 PM	51.6	63.2	51.6	51.5	95.4	12.1	49.5	59.4	60.9	57.9	55.1	49.3	48.8	47.2	43.1
583		11/19/2021	1:04:44 PM	51.5	64.1	51.6	51.4	95.5	11.8	48.3	58.3	64	58.5	55.7	49.6	48.5	47.5	42
584		11/19/2021	1:04:45 PM	53.1	74.6	52.5	51.5	95.7	11.2	51.0	57.3	63.1	60.4	54.2	51.0	48.9	49	45.4
585		11/19/2021	1:04:46 PM	53.4	65.1	53.2	52.4	95.5	12.4	50.5	56	65.1	62.3	55.6	51.5	48.4	49	47
586		11/19/2021	1:04:47 PM	54.6	69.4	54.1	53.2	95.5	10.1	53.3	58.4	62.6	60.7	53.7	51.2	49.3	50.9	47.4
587		11/19/2021	1:04:48 PM	55.8	68.0	55.3	54.1	95.3	10.4	52.0	58.1	64	63.7	55.9	51.4	51.5	52.5	48
588		11/19/2021	1:04:49 PM	56.7	69.4	56.3	55.3	95.4	9.1	50.2	54.2	61.5	63.7	56.2	51.8	53.3	53.1	49.5
589		11/19/2021	1:04:50 PM	55.7	69.0	56.1	55.8	95.5	8.6	53.5	57.5	63	60.3	56.3	52.6	51.3	52.5	48.1
590		11/19/2021	1:04:51 PM	56.0	68.3	56.3	55.8	95.5	7.3	49.7	55.3	63.1	59.6	53.9	51.4	51.1	53.2	48.9
591		11/19/2021	1:04:52 PM	53.2	65.4	55.8	54.3	95.7	10.6	50.3	56.4	61.3	58.1	54.9	51.6	50	50.1	44.7
592		11/19/2021	1:04:53 PM	51.3	63.6	54.2	52.6	95.5	12.7	49.9	58.6	63.8	58.3	55.3	49.0	47.8	47.6	42.6
593		11/19/2021	1:04:54 PM	51.0	63.2	52.5	51.7	95.8	13.4	51.4	56.4	63.5	59.1	55.3	50.9	48.5	47	41.9
594		11/19/2021	1:04:55 PM	50.1	62.1	51.7	50.7	95.8	13.1	50.5	58.1	65.6	58.7	52.9	49.6	48.9	44.8	40
595		11/19/2021	1:04:56 PM	49.5	60.6	50.7	50.0	95.8	13.1	51.0	57.3	61.3	59	53.6	49.2	47.9	43.7	40.6
596		11/19/2021	1:04:57 PM	50.3	62.1	50.3	49.8	95.8	12.6	51.2	58.5	61.7	57.6	54	49.3	49.4	45.3	40.3
597		11/19/2021	1:04:58 PM	50.0	62.7	50.4	50.0	95.8	12.4	53.6	57.3	62.2	56.8	54.6	50.5	48.1	45	40.8
598		11/19/2021	1:04:59 PM	49.8	63.2	50.3	49.8	95.8	13.7	46.8	54.3	61.5	59.2	54.1	49.1	48.1	43.6	41.4
599		11/19/2021	1:05:00 PM	50.1	64.1	50.1	49.7	95.7	13.1	49.2	54	63.1	58.3	54.8	50.3	48.3	43.9	40.9
600		11/19/2021	1:05:01 PM	50.4	62.1	50.5	50.0	95.8	13.6	47.2	58	62.9	56.2	56.4	53.2	48.9	44.1	40.7
601		11/19/2021	1:05:02 PM	50.4	65.4	50.4	50.0	95.8	12.6	51.2	59.4	64.8	57.4	54.2	50.2	49	44.9	41.3
602		11/19/2021	1:05:03 PM	51.0	62.7	50.8	50.2	95.8	14.5	53.8	57.9	63.2	60.5	55.2	49.9	48.7	45.5	42.2
603		11/19/2021	1:05:04 PM	51.5	63.2	51.3	50.7	95.9	14.6	54.0	59.8	64.6	61.9	56.8	50.2	50.4	45.2	42
604		11/19/2021	1:05:05 PM	51.8	63.6	51.5	51.1	95.9	15.6	49.9	60.5	66.9	58.8	56.2	49.5	50.1	45.9	42
605	Stop	11/19/2021	1:05:06 PM															

40.4	33.8	28.8	50.9	59	64.7	65.1	60.7	53.6	53.7	52.3	50	43.8
38.4	31.2	28.5	50.8	58.8	64.6	66.5	58.7	54	53.8	52.3	48.7	42
35.3	30.5	28.4	51	59.9	62.8	65	56.2	52.6	52.3	50.3	46.8	39.8
34	27.7	28.4	51.7	59.6	61.7	62.9	54.4	50.6	50.2	48.1	44.4	37.5
36	30.2	28.6	51.2	59.6	63.4	60.2	53.4	50.9	49.6	53.8	45.6	36
36.2	31.4	28.6	50	59.2	63.3	59.4	53.2	53	51	55.7	48.5	36.3
35.6	28.1	28.4	50.7	58.9	65.1	58.8	53.2	53	50.9	55	48.7	36.1
34.7	28.1	28.5	50	59.7	65.2	57.8	52.9	52.2	50.5	53.5	48.5	35.7
34	27.5	28.4	48.4	61	65.2	59.9	53.1	52	50.1	51.8	47.1	35.1
37.4	29.2	28.5	49.4	61.9	65	60	54	50.6	48.3	48.9	44.5	36.7
38.2	29.1	28.6	50.5	60.9	64.7	59	54.9	50.1	48.7	47.6	43.8	37.7
37.6	29.5	32.2	49.6	59.6	64.2	58.7	55.9	49.8	48.7	47.6	43.2	37.7
41.4	31.2	33.3	50.9	59	63.8	60.1	55.2	50.7	49	48.6	44.5	41.4
39.6	31.8	28.8	50.9	58.4	65.3	62	55.5	51.3	48.7	48.9	46.4	40.2
41.4	34.8	29.8	52.8	58.4	65	61.8	55.4	51.4	49.2	50.2	47.1	41
41.2	33.6	29.4	52.8	58.4	64.3	63.2	55.6	51.9	51	51.9	47.9	41.2
43	33.7	29.3	52.8	58.4	64	63.8	56.1	52	52.6	52.8	49.2	42.5
40.5	32.3	28.7	53	57.6	63.5	63.6	56.4	52.5	52.4	52.7	48.7	42.2
40	32.1	28.9	53.1	57.3	63.3	61.7	56.5	52.6	52	53.2	49.1	41.2
35.8	29	28.6	51.2	56.7	62.9	60.5	55.3	52.1	51.3	52.8	48.5	40.3
34.6	28.9	28.6	51	58.4	63.4	59.3	55.9	51.5	50.2	51.2	46.5	38.1
34.6	28.5	28.5	51.6	57.9	63.7	59.1	55.4	50.9	48.9	49.2	44.4	36.1
32.7	29.3	28.6	51.9	58.5	65.1	59.1	55.3	50.7	49.1	48.1	43	35.1
33.2	27.2	28.4	51.4	57.7	64.5	59.3	54.2	49.8	49	46.3	41.4	34.2
32.9	27.5	28.4	51.1	58.5	62.9	59	54.1	49.6	49.3	45.4	41	33.3
33.9	27.4	28.3	53.4	58.5	62.5	58.3	54.7	50.3	49.1	45.4	41.1	33.8
34.4	27.5	28.4	52.4	57.7	62	58.8	54.3	50.2	48.9	45	41.6	34.3
33.5	27.1	28.4	50	55.9	63.2	59	54.8	50.1	48.6	44.3	41.2	34.4
32.4	27.4	28.4	49.5	57.5	63.1	58.4	56.1	52.5	48.8	44.4	41	33.5
33.2	27	28.4	50.8	59	64.8	57.7	55.6	51.9	49.5	44.8	41.2	33.2
36.2	29.7	28.4	53.4	58.6	63.7	60.3	55.3	51	48.8	45.3	41.9	35.4
35.8	33.4	28.4	54	59.6	64.5	61.9	56.2	50.7	50	45.5	42.3	36
34.8	42.5	28.7	54	60.3	66	61	56.4	50.2	50.2	45.6	42	35.4

37	29.7	49	57.3	63.7	62.6	58.7	51.8	52	51.7	48.8	41.9	35.3
35.3	29.1	49.7	57.5	62.8	65	56.2	52.7	52.3	50.3	46.8	39.9	33
33.3	28.7	49.4	58.1	60.9	62.9	54.2	50.6	50.3	48	44.5	37.5	31.3
31.3	28.5	50.4	57.8	60.4	60.2	53.1	49.4	49.1	47.4	44	35.8	29.5
30.2	28.5	49.7	58.3	60.9	59.3	52.7	49.7	48.9	48.1	43.9	35.6	29.1
31.3	28.6	49.3	57.3	62.5	58.4	52.6	50.8	49.6	54	45.6	35.9	30.2
30.7	28.6	49.7	57.3	62.7	57.5	52.7	51.9	50.4	53.5	48.3	35.7	29.2
29.2	28.5	48.4	58.3	63.6	57	52.2	51.5	49.6	51.9	47.1	35.1	28.5
28.5	28.5	47.3	58.8	63.5	57.2	52.4	50.6	48.1	48.9	44.5	34.1	27.9
28.8	28.5	47.6	60.5	63.8	59	52.4	49.9	47.9	47.5	43.6	34.8	28
29	28.6	48.8	59.6	62.4	58.3	53.3	49.5	47.9	47.3	43.2	36.7	28.8
29.3	32.1	48.3	58.3	62.6	57.7	54.9	49.3	48.1	47.1	42.5	37.5	29
30.9	34.3	48.5	57.7	63	58.7	54.4	49.3	48.5	47.5	42.4	37.2	29.3
31.6	32	49.6	56.8	62.9	59.4	54.4	50.7	48.3	48.2	44.3	39.7	30.4
33.9	30.3	49	57.2	63.7	60.9	54.4	50.8	48.5	48.9	46.4	40	31.6
33.7	30	50.7	56.6	63.6	60.5	54.5	51.2	49	50.2	46.9	40.8	33.5
33.9	29.7	51.5	56.3	62.4	62.6	55.3	50.7	50.9	51.9	47.9	41.2	33.5
33.5	29.4	51.5	55.8	61.8	61.8	55.9	51.8	51.7	52.2	48.2	41.2	32.8
32.8	29	51.3	55.8	62.1	60.4	54.7	51.8	51.1	52.5	48.4	40.3	32.3
32.4	29	50.4	54.8	61.7	59.2	54.2	51.5	50.3	51.3	46.5	38.1	30.5
30.6	28.8	50	56.2	61.9	58.4	54.6	50.2	48.8	49.2	44.4	36.1	29.4
29.5	28.6	49.6	56.9	63.1	58.6	54.6	49.9	48.5	48	43	35.1	28.8
29.3	28.6	50.1	56.4	63.5	58.3	54	49.9	48.4	46.3	41.4	33.8	28.3
29.1	28.6	49.4	56.8	62.7	58.7	53.6	49.2	48.1	44.8	40.8	33.3	28
28	28.5	50.2	57.2	62.1	58.2	53.3	49.2	48.1	44.3	40.4	32.9	27.7
27.7	28.4	50.9	57.2	61.7	57.2	54	49.6	48.4	44.9	40.3	33.1	27.5
27.6	28.4	49.8	55.9	61.2	57.4	53.9	49.4	48.1	44.1	40.7	33.7	27.4
27.5	28.4	49.2	54.7	61.9	58.4	54	49.3	48.1	43.8	40.8	33.5	27.2
27.5	28.4	48.3	54.2	62	57	54.5	50.1	48.1	44	40.7	32.8	27.1
27.4	28.5	47.6	57.4	63	57.1	54.8	50.6	48.5	43.9	40.7	32.9	27.1
29	28.5	50.9	57.8	63.2	57	54.3	50.3	48.4	44.7	41.1	33.1	27.1
33.3	28.5	51.6	57.6	63.3	60.5	55.4	50.1	48.6	45.1	41.8	35.4	28.9
40.2	28.6	52	59.5	64.6	59.7	56	49.7	49.7	45.1	41.7	35	33.6

29.1	40.9	43.7	44.4	52.4	52.7	54.4	63.5	56.6	52.3	51.7	54.4	63.7	58.2	48.6
28.7	50.3	43.5	46.6	51.7	50	56.1	60.2	60.1	55.2	56.5	53.2	64.3	50.3	47.6
28.5	43.4	43	43.4	48.8	53.5	59	55.2	53.6	53.3	60.2	52.7	52	48.5	46.6
28.4	40.1	46.2	45.5	50.4	52.6	54.7	55.9	55.6	57.8	54.6	51.6	49.7	50.7	47.5
28.5	45.8	42.4	47.2	50.7	51.8	55.7	56	59.8	58.8	55.6	54.5	52.1	49.5	47.6
28.5	49.1	48.3	45.3	50.2	53.6	57.3	60.6	54.3	56.2	54.4	55.4	50.5	49.9	48.3
28.5	43.2	44.5	47.3	50.4	50.5	55.9	62.6	59.1	56.5	53.9	50.4	51.6	50.4	46.2
28.4	42.9	42.5	46	49	53.4	55.4	62.2	59.5	56	51.7	49.9	51.3	49	47
28.4	44.1	44.1	40.7	51.8	54.2	58.7	62.2	57.5	53.8	56.9	56.9	53.1	50.1	46.6
28.4	45.2	41.8	44.8	49.8	53.8	60.4	63.3	54.1	51.5	55.6	53.7	53.5	51.3	48.6
28.5	42.6	42.1	48.1	41.4	57.2	58.3	62.6	54	56.1	54.2	54.1	50.9	52.5	49.6
28.5	42.6	38.2	44.6	47.7	53.1	51.7	60.2	56.7	54.7	54.1	53.2	52.1	54.3	50
32.1	43.5	44.7	49.6	52.2	52.8	53.7	61.9	52.8	56.9	53.7	57.3	56.3	50.3	50.7
30.3	44.9	41.7	46.7	48	54	55.1	60	54.4	61.8	57.5	54.9	56.3	51.2	51.8
30	43.1	42.7	47	47.8	50.3	57.1	56.4	59.2	61.6	57.5	59.2	51.6	51.9	50.3
29.7	40.9	43	50.4	51.4	47.2	53.6	54.6	60.5	58.9	55.5	58.9	60	50.8	52.2
29.4	41.5	48	46.7	46.6	53.8	52.4	57.9	59.3	55.4	54.5	57	60.6	53	49.3
29	43.7	47.2	48.5	49.7	53.2	55.2	59.4	56.4	57.8	60.6	58.3	56	54.2	51.8
28.9	44.3	48.6	51.1	50.4	48.5	52.3	58.4	56.1	56.1	54.5	53.9	53.9	51.4	50.4
28.7	45.1	47	48.5	50.8	50.7	52.2	59.9	57.3	57.9	53.9	52.5	53	51	49
28.6	46.3	43.8	43	39.2	51.7	55	56.4	55.9	60.6	53.3	53.3	54.2	51	51.6
28.5	39	41.7	45	50.7	52.1	55.1	60.1	56.6	60.3	53.5	53.7	53.6	53	49.9
28.5	48.4	46.1	47.5	51.1	51.8	52.5	57.8	61.2	61	52.4	51.9	55.3	51.2	49.4
28.5	44.2	47.7	45.3	53.3	54.7	51.8	56.7	58.4	57.1	56.7	52.8	53.3	50.2	48.7
28.4	47.5	42.7	45.7	49.5	52.5	54.8	57.5	59.5	55.1	55.7	52.2	53.2	50.5	47.5
28.4	43.9	47.8	51.4	51.5	54.6	55.1	56.5	59.7	57.2	50.5	52.3	52.2	53.8	49.8
28.4	43.8	44.1	49	47.4	53.6	50.5	51	58.8	56.9	53.1	55.1	54.5	50.4	49
28.4	47.1	45.8	43.1	48	50.9	52.6	54.8	59.6	59.3	53.9	52.1	55	52.9	49
28.4	44.6	42.3	44.7	46.2	48.9	50.3	57	58.5	56.9	51.5	52.3	51.2	54.4	49.9
28.4	42.9	43	44.8	47.7	54.5	58.5	58.5	61.1	59.1	54.1	51.8	52	52.8	49.1
28.4	43.4	42.5	43.4	46.8	50.6	55.8	57.9	57.7	58.4	55.4	53	51	52.3	49.7
28.4	42.6	35.8	44	49.4	50.5	57.4	56.5	56.2	60.3	60.8	56.5	53.6	54.6	51.8
28.4	49.3	52.2	45.4	44.5	51.2	58.6	63.6	62	61.2	53.4	55.9	52.2	51.6	52.3

44.7	47.7	46.3	46.1	48.2	50.7	47.7	47.6	46	47.5	46.3	42	39.7	37.6	34.9	33.1
46.2	48.7	51.6	47.1	48.7	47.4	46.4	44.6	43.5	43.7	43.3	39.1	37.6	35.4	33.5	31.4
43.4	43.7	45.3	43.2	44.5	43.9	42	39.9	40.7	42	40.2	35.8	33.2	31.5	30.1	30.1
43.5	43.6	45.5	42.1	44.8	44.2	41.4	41.1	42.5	44.6	43	35.8	32.4	30.7	30	26
44.2	46.2	48.6	45	45.3	45.3	42.7	43.3	46.8	52.9	43.8	36.9	33.9	31.3	29.4	32.2
46.4	47	50.6	49.1	48.3	47	45.8	44.7	46.6	55.5	47.2	40.4	36.2	33.6	30.7	28.7
44.4	46.6	48.4	46.4	44.8	47.2	44.7	43.6	47.9	49.4	47.5	40.9	36.8	33	29.9	27.6
45.1	46.5	47.5	47	46.5	45.2	43.7	43.4	46.5	46.9	45.2	39.6	36.2	32.2	29.7	26.8
44.5	43	45.8	43.7	41.6	42.8	39.7	39.3	40.5	42.2	39.6	35.9	32.5	30.5	28.1	28.5
44.9	45.1	45.1	42.9	41.4	45.1	42.2	40.2	41.4	42.5	40.7	37.2	34.2	33.4	31.2	32.9
43.8	46	44.4	42.7	42.5	45.2	43.6	42	42.3	43.2	41.2	36.9	34.8	33.8	31.6	34.4
45	45.9	46.4	42.1	42.3	44.4	44.7	42.8	43.3	42.3	39.5	36	34.3	33.3	32.3	32.9
45	46.1	47.9	42.6	44.3	44.1	43	42.7	45.2	44.3	43.2	40.1	36.4	37.5	34.9	33.6
46.5	48.3	48	42.4	42	44.5	42.9	42.9	44.3	45.1	44.4	42	39.7	37.3	33.7	30.9
46.1	47.3	47.5	42.7	42.8	45.8	44.3	45.9	46.6	45.6	43.6	42.7	41	38.9	35.7	32.9
49	47.8	48.6	43.6	45.3	48.7	46.1	48.6	47.2	47.3	44.2	43.1	40.8	38.6	36.2	33
49.7	47.7	47.1	44.1	46.6	50.3	47.4	49.4	48.2	46.5	46.1	45.2	42.5	40.3	37.9	33.8
46.7	48	48.8	44	43.9	48.2	46.4	48.9	46.7	46.6	45.1	43.4	40.4	37.8	35.6	32.1
44.3	48.1	47.8	44.8	44.4	47.2	47.2	48.7	48.5	47.9	46.5	43.7	40.1	37.6	34.8	31.4
48.4	48.8	47.2	42.7	45.1	43.8	45.4	44.7	46.3	44.9	42.3	39	36.1	33.1	30.4	27.5
45	45.2	45.4	40.7	42.5	43.3	43.7	41.8	43.6	42.9	40.4	37.4	34.2	32.1	29.4	27.1
43.6	47.1	47.7	42	43	45.4	42.8	41.9	42.8	41.7	39.6	36.1	34	31	29.2	29
45	44.2	47.6	40.2	43.3	46.2	42.1	40.4	39.8	39.9	37.2	35.1	32.6	29.6	28	25.2
46.4	42.5	46.7	43.2	40.7	45	43	39.5	38.5	38.9	37.3	36.3	33.2	30	28.8	24.7
44.4	44.2	47.3	40.7	44.2	46.4	42.7	41.4	40.4	39.2	37.4	35.6	32.2	30.1	28.3	24.9
44.3	46.6	46.8	41.5	43	43.6	42.9	40.2	39.8	40.7	37.7	36.6	32.5	30.9	29.1	26.3
44.1	46.4	45.4	41.6	42.5	44.3	43.1	39.7	38.2	39.1	38.4	36.5	34.3	31.4	29.9	26.7
43.5	46.1	46.6	40.7	42.3	44.5	43.3	39.1	39.9	39.1	38	35.8	34.1	30.9	27.6	25.9
46.7	47	51.2	43.1	43.9	45.5	42.4	39.9	38.8	39.3	37.9	35.7	32.8	29.4	27.3	24.5
43.5	46.3	46.6	42.3	41.7	44.4	45.2	40.7	39.4	40.4	38.7	35.7	33.6	30.5	27.9	25
46.8	45.5	47.2	41.2	42.1	43.7	46.1	39.9	40.2	41.3	39.1	37.1	35.4	33.4	31.4	29.4
45.8	43.4	48.4	41.4	44.3	45.6	46.6	41.1	40	40.5	39	36.6	34.9	32.8	30.7	28.8
49.4	46.1	43.5	41.9	44.2	45.2	46.1	41	41.7	40.5	39.4	36.4	34.7	32.2	29.6	26.4

30.5	29.3	26.5	23.8	23.7	24.6	44	44.4	49.3	52.1	52.8	56.5	63.3
28.1	26.2	24.1	23	23.6	24.5	49	44.1	47.4	52.3	52.5	56.2	63.5
28.7	23.2	22.6	22.7	23.7	24.5	49	43.5	46.9	51.7	53.2	58.5	61.2
23.5	22.9	22.3	22.7	23.6	24.5	46.3	45.8	45.9	51.1	53	58	58.3
26.9	24.2	23	23	23.9	24.5	45.4	44.8	47	51.1	53.3	56.7	56.9
29.6	24.7	23.3	23	24	24.5	48.3	47.5	46.4	50.8	54.3	57.7	59.7
24.5	22.9	22.4	22.8	23.7	24.4	48.3	47.5	47	51.3	52.5	56.5	61.9
24.5	22.9	22.5	22.9	23.7	24.5	45.6	45.8	47.1	50.1	53.4	56.8	62.5
23	22.2	22.5	22.9	23.5	24.6	44.7	44.5	46.4	51.4	54	58	62.3
25.1	23.7	23.8	23	23.7	24.6	45.8	44.1	44.7	51.3	54.2	60.4	63.9
25.1	24.3	23.3	23.1	23.8	24.6	44.2	43.1	47.4	50.3	56.6	59.4	63.9
25.5	24.6	23.4	23.4	30.9	24.5	43.3	42.2	47.1	47.8	56.2	59.2	62
28.1	25.6	24.2	23.1	32.1	24.4	43.8	43.5	49.4	51.4	54.1	56.2	62.6
28.8	26.2	25.2	23.6	23.8	24.6	44.8	43.6	49.4	51.2	54.6	55.9	62.1
31.5	30.1	28	25.8	24.4	24.7	45.4	43.2	49.1	50.1	53.6	56.6	60.3
30.2	28.7	26.8	25.2	24.2	24.7	43.2	43.1	50.2	50.9	51.8	56.7	57.7
30.6	28.5	26.7	25	24	24.6	42.1	47.2	48.9	50.6	53.1	54.9	57.6
29.4	26.8	25.1	23.7	23.8	24.6	43.3	47.8	48.9	50.3	54.4	55.1	59.2
29.4	26.1	25.4	23.8	23.9	24.7	44.3	49.5	50.8	50.7	52.4	54.9	59.9
25.7	23.7	23.3	23.2	23.8	24.6	45.3	47.5	49.9	51.5	50.9	53.4	60
25.8	22.9	22.7	23.3	23.8	24.5	46.3	47.3	49	50.2	52.1	54.6	58.9
25	22.9	22.6	22.9	23.6	24.5	45.7	45.2	46.5	50	52.5	56	59.9
25.9	23.7	23.7	23.2	23.7	24.5	47.5	45.8	47.3	50.9	52.5	54.4	59.1
22.8	22.3	22.3	22.8	23.6	24.4	47.7	47.6	47.4	52.5	54.8	53.7	58.6
23.6	22.3	22.2	22.7	23.6	24.6	47.5	47.1	46.8	52.5	54	54	57.9
23.1	22.3	22.1	22.8	23.5	24.4	46.6	47.5	50.6	51.9	55	55.3	57.2
23.2	22.4	22.3	22.8	23.6	24.5	44.9	47.5	51.4	51.2	54.6	54.4	56.9
22.9	21.8	22.1	22.7	23.6	24.4	46.5	46.3	49	49.7	54.1	53.1	54.9
22.7	22.2	22.8	22.8	23.6	24.5	46	45.6	47	48.5	52	52.2	56.3
22.5	22	22.4	22.8	23.6	24.6	45.2	44.3	45.3	48.7	54.2	57.2	58.1
27	23.7	22.7	22.8	23.6	24.5	43.9	43.5	45.7	47.9	54.2	57.3	58.3
29	30.8	23.5	22.9	23.7	24.5	43.9	42.3	44.4	49.1	52.6	57.4	57.8
37.1	41	26.6	23.4	24	24.4	47.6	50.1	45.1	49	51.6	58.2	62.1

57.3	53.2	55.1	61.1	63.4	59.3	49.6	47	50.1	47.6	47.3	48.3	50.4
59.8	55	55.8	58.2	65.1	57.5	49.1	46.7	49.3	50.9	47.7	49.7	50.4
58.7	54.5	59	55.9	63.3	54.4	48.5	45.7	48.4	49.3	46.6	48.1	48.5
56.5	56.9	59.2	54	59.5	52	47.8	44.3	46.1	47.3	44.6	46.1	46.2
59.3	58.8	56.4	54.2	55.9	51.1	48.1	44.4	45.9	48.1	44.5	45.6	45.4
59.2	58.3	56.4	55.2	53.8	50.6	48.2	46.1	46.9	50	48.2	48	46.6
58.8	57.6	55.2	55.3	51.9	50.7	48.1	45.8	46.9	50.2	47.6	47	47.2
60.3	56.4	54.2	52.6	52.7	50.6	47.5	45.3	46.9	48.8	47.2	46.9	47
58.8	56.4	56	55.8	53.1	50	47.6	45.5	46.7	48.2	47	46.6	46
57.8	54.5	56.6	55.8	53.4	51.3	48.1	45.2	45.2	47	45.3	44.2	45.2
56.7	55.5	55.5	54.8	53.1	52.3	49.5	45.1	46	45.9	44	42.7	45.3
56.4	55.5	55.2	54.1	52.5	53.8	50.2	45.1	46.1	46	43.3	42.6	44.9
56	56.4	54.7	56.4	55.4	53.4	50.7	45.9	46.3	47.5	42.7	43.7	44.8
54.6	60.6	57.3	56.4	56.5	51.8	51.9	46.2	47.6	48.1	43	43.7	44.6
57.9	62.1	58.6	58.7	55.9	52.8	51.4	46.6	47.6	47.8	42.9	43.1	45.7
60.1	61	57.1	58.8	59.2	51.5	51.7	48.6	48.5	48.4	43.5	44.8	48
60.8	59.3	56.2	59.3	61	52.8	51.6	49.4	47.9	48	44.1	46	49.8
59.2	58.7	60.4	58.2	59.8	54	51.4	49.4	48.5	48.8	44.3	45.8	49.5
57.9	57.3	58.2	57.9	57.8	54	51.4	47.8	48.9	48.6	44.7	45	48.9
57.3	57.8	56.2	55.9	55.7	52.1	50.6	48.2	48.7	48.1	44.3	45.3	47.5
57.2	60.1	55.3	54.6	54.6	51.9	51.9	47.7	48.3	47.4	43.3	44.7	45.5
56.7	60.3	53.9	53.9	54.8	52.7	50.8	46.1	47.4	47.4	42.1	43.6	45.2
60	61.5	53.6	53.9	55	52.7	51.2	45.3	47.1	48	42.1	43.8	45.9
59.9	60.6	56.2	53.1	54.5	51.5	49.7	45.9	45.3	47.3	43	43.2	46.3
59.4	58.4	55.7	53.2	54	51.3	48.9	45.8	44.4	47.4	43	44.1	46.3
60.3	57.3	55.5	52.7	53.7	52.8	49.5	45.1	46	47.5	42.1	44	45.9
59.7	58.1	53.5	54.8	54.2	52.7	49.4	44.8	46.7	47.1	41.8	43.7	44.8
60	59.1	54.6	54.7	54.9	52.6	49.2	44.5	46.3	46.6	41.4	43.1	44.9
59.3	58.5	53.1	53.7	54.8	54.4	50.3	45.9	46.9	50.6	42.6	43.8	45.2
61.3	59.1	53.9	52.7	53.4	53.9	49.7	45.8	46.8	49.5	42.6	43.1	45.5
59.9	59.1	55.3	53.1	52	53.3	49.9	46.4	46.7	48.2	42.4	42.4	44.4
58.9	60	60.2	55.3	53.2	54.3	51.3	46.7	45.9	48.6	41.7	43.9	45.6
60.5	60.9	58.7	56.3	53.2	53.9	52.5	48.3	45.7	48	42.1	44.2	45.2

48	47.7	46.5	49	47.3	44.7	43.2	41	38.3	36.7	33.6	32.6
48.2	47.6	46.2	48.1	46.5	43.1	41.3	39.1	36.7	35	32	30.8
46.8	45.8	44.6	45.9	44.7	40.9	39.2	37	34.5	32.9	30.8	28.3
44.5	43.1	42.7	44.6	42.9	38.5	36.5	34.3	32.3	31	28.5	25.8
42.9	43	45.9	52.3	43.9	37.2	34.4	32.5	31.3	31.5	27.1	24.5
45.1	44.2	46.5	54.8	46.2	39.5	35.7	33.1	30.6	31.4	29.3	24.7
45.5	44.1	47.5	54	47.2	40.5	36.5	33.2	30.6	29.7	28.2	24.4
44.5	43.8	47.4	51.7	47.2	40.4	36.5	33	30.1	28.4	26.2	23.5
44.1	43.4	46.7	49.2	45.8	39.8	36.2	32.5	29.8	28.6	25.2	23.1
42.3	41.3	43.8	46.1	42.9	37.7	34.4	32.9	30.4	32	24.8	23.4
43.2	41.7	42.6	44.2	41.8	37.6	34.9	33.6	31.2	33.7	25	23.9
44.3	42.6	43.1	43.5	41.3	37	34.5	33.4	31.9	33.6	25.4	24.4
44.2	42.8	44.8	44	42.5	39.1	35.7	37.3	34.7	34.6	27.7	25.2
43.6	43	44.4	44.8	43.8	41.3	38.6	37.1	34	33.3	28.5	26
44	45.2	45.9	45.4	43.9	42.3	40.3	38.4	35.1	32.8	30.6	29
45.6	47.7	46.8	47	44.3	43	40.9	38.6	36	33	30.5	28.9
47	48.9	48.1	46.9	45.8	44.9	42.1	39.8	37.4	33.6	30.7	29
46.7	49.3	47.6	46.7	45.3	44.2	41.8	39.6	37.1	33.4	30.4	28.4
47.7	49.2	48.4	47.6	46.4	44.1	41.1	38.6	36.2	32.5	29.9	27.4
46.6	48.6	47.9	47.4	46	43.5	40.3	37.7	35.2	31.7	29.6	26.6
45.8	46.5	46.9	45.9	44	41.2	38.1	35.4	32.9	29.7	27.8	24.9
44.6	44.1	44.9	44.2	42	39.1	36	33.5	30.9	29.5	26.6	23.7
43.6	43	43.9	42.8	40.7	37.5	34.8	32.1	29.8	28.3	26.4	23.6
43.4	41.5	41.7	41.3	38.9	36.6	33.6	30.8	29.9	26.6	25.6	23.5
43.2	41.5	40.5	40	38	36.6	33.5	30.4	28.5	25.5	24.2	22.7
43.5	41.1	40.5	40.4	38.2	36.9	32.9	30.8	29.1	26.1	23.8	22.5
43.6	40.6	40	40.2	38.6	37	33.8	31.2	29.8	26.8	23.5	22.6
43.9	40.2	39.6	39.6	38.2	36.5	34.6	31.9	29.3	26.5	23.4	22.3
43.2	39.8	39.6	40	38.2	36	33.6	30.7	28.2	25.9	23.1	22.2
45.1	40.9	39.4	40.1	38.5	35.9	33.6	30.5	28	25.3	22.9	22.2
45.5	40.4	40.1	41	38.9	36.8	34.7	32.5	30.4	28.4	26	23.2
46.4	41.2	40.1	40.9	39.3	37.1	35.2	32.9	30.9	29.3	28.9	30.6
46.8	41	41	40.6	39.3	36.7	34.8	32.6	30.4	28.4	34.8	38.5

29.7	25.6	24.2	24.7	42.4	43.7	47	49.1	50.3	55	62	56.5	52
27.9	24.5	23.9	24.6	42.2	43.3	45.9	51.3	50.9	54.6	61.2	56.2	52.3
25.8	23.6	23.8	24.6	46.3	42.9	45.1	49.8	50.3	55.7	58.4	56.2	53.6
24.1	23	23.7	24.6	43.4	43.4	45.1	49.9	51.7	56.2	56.9	55.5	53.3
23.2	23	23.8	24.6	42.9	43.5	44.6	50.3	51.9	55.7	56	54.4	56.4
23.3	23	24	24.5	45	42.8	45.2	49	52.5	56	56.3	56.7	56.9
23.1	23	23.9	24.5	45.6	45.9	45.9	50.1	51.4	54.4	59.6	56.1	56.3
22.8	22.9	23.8	24.5	44	44	46.1	49.4	51.2	55.5	61.9	58.6	55.6
22.6	22.9	23.7	24.6	43.5	43.9	43.6	48.9	52.1	55.8	61.4	57.9	54.6
23.4	23	23.6	24.6	44.2	42.6	43.2	50.3	52.4	56.8	62.4	55.5	52.9
23.6	23.2	23.7	24.6	43.3	41.9	44.5	47	54.3	57.9	62	54.6	52.9
23.4	23.3	30.6	24.6	42.2	39.8	45.4	46	54.1	56.1	60.7	54	54.4
24.1	23.3	33.4	24.5	42.2	40	44.7	47.4	53.2	54.4	61.2	54.1	54.4
25	23.5	30.5	24.6	43.5	41.9	47.6	49.5	53.6	54.5	60	53.4	56.6
27.3	25.2	27.5	24.7	43.2	41.8	47	47.9	51.9	53.8	57.8	54.8	60.7
27.1	25.3	25.9	24.7	41.8	42.3	47.1	47.7	49.3	54.9	55.8	57.2	59.4
27.2	25.4	24.9	24.7	40.4	42.4	47.6	48.3	49.3	53.3	56.2	59.2	57.3
26.6	25	24.3	24.7	42.2	45.9	47.7	48.6	52.5	52.8	56.7	57.7	57
26.1	24.1	24	24.7	42.2	47.6	47.8	47.5	50.5	53.4	58.3	56.7	56.3
25.5	24	24	24.7	43.3	47.1	49	50.2	50.1	52.1	58.2	56.8	56.1
24.1	23.6	23.9	24.6	45.4	45.3	46.3	46.6	49.5	53	57.6	56	57.3
23.2	23.3	23.8	24.6	42.6	43.4	45.3	46.6	50.2	54.4	57.3	55.7	59.3
23.7	23.2	23.8	24.6	42.4	42.5	44.6	49	51.2	52.9	58	56.7	60.1
23.6	23.1	23.8	24.6	45.3	45.2	45.7	50.5	50.8	52.3	57.2	58.7	58.4
22.8	23	23.7	24.6	45	44.9	45.6	50.3	53	52.3	57.2	58.3	56.5
22.4	22.9	23.6	24.5	45	44.1	46.1	50.9	52.5	54	56.4	58.4	55.9
22.4	22.8	23.6	24.5	43.9	45.7	49.1	48.9	53.5	52.3	54.3	58.9	56.8
22.3	22.8	23.6	24.5	44.7	45.6	46.4	48.6	52	52.2	53.7	58.6	56.5
22.6	22.9	23.6	24.5	45.2	43.6	45	45.9	50.3	51.2	54.6	57.6	57.5
22.7	22.9	23.6	24.6	43.9	42.8	44.3	47.5	49	51.4	56	59.1	57
22.6	22.8	23.6	24.6	43.2	42.3	43.6	46.8	52.1	55.7	57.7	58.2	58.5
23.4	22.9	23.7	24.5	42.8	39.2	43.3	45.7	50.9	56.3	56.7	57.3	58.5
25.3	23.2	23.9	24.6	42.8	39.1	43.2	47	49.8	57.2	57	57.4	59

53.3	58.2	58.1	57.5	48.6	45.7	48.7	46.5	45.9	46.6	48.3	47.2	45.9
53.3	55.9	63.3	54.4	48.2	45.5	48.4	47	46.5	48.1	48.6	46.8	45.8
55.8	54.1	59.5	51.7	47.2	44.2	46.1	47.3	44.6	46.1	46.1	44.4	43.1
56.4	52.6	55.9	50.9	47	43.7	44.7	46	43.1	45.4	44.9	42.7	42
55.1	52.6	53.8	50.1	47.3	43	44.8	46.4	43.2	44.8	45	42.3	41.9
55	53.9	52	49.8	47	43.8	45.1	47.9	44.6	45.5	45.2	42.7	42.8
54.1	52.7	51.4	49.4	47	44.7	46	48.8	46.8	45.7	46.5	44.6	43.7
52.6	50.8	51.3	49.1	46.8	44.9	46.1	47.8	46.5	45.2	45.8	43.9	43.4
52.4	51.5	50.9	49	46.5	44.6	44.6	46.9	45.2	44.2	44.3	41.8	41.3
55.5	54.3	52.4	49.5	46.2	44	44.1	45.8	43.9	42.6	44.2	41.5	40.6
54.3	54	51.4	50.5	47.6	44.3	45.2	44.9	43.1	42.3	44.6	42.1	40.7
54.3	52.7	51.1	52.4	49.4	43.5	45.2	44.8	42.4	42.2	44.3	43.2	41.5
53.8	53.9	52.2	51.7	49.2	44.7	45.6	45.6	42	42.3	44.3	43.4	42.4
53.4	54.9	55.2	51.2	50.5	44.3	46.3	47.4	42.1	42.7	44	42.8	42.4
56.8	55.9	53.9	51.4	50.5	45.7	47.1	47.5	42.4	42.6	44.5	43.1	42.9
56.1	57.3	53.6	50.9	51.1	45.9	47.4	47.5	42.6	42.8	45.1	44	45.1
55.1	57.4	59.3	51	50.2	48.6	46.8	46.9	42.8	44.8	47.8	45.6	47.7
55.4	57.3	57.8	52.4	50.2	47.8	47.4	47.9	43.6	44.7	48.5	46.3	48.4
56.3	55.9	55.7	52.2	50.6	45.8	47.6	47.7	44	44.4	47.5	46.5	48.6
54.9	53.9	54.3	51	49.3	46.2	47.7	47.3	43.4	44.2	45.5	45.9	46.5
53.6	53.5	53.3	50.4	49.7	46.1	46.7	46.2	41.9	43.4	44.2	44.5	44.1
53.1	53.4	53.7	51.3	49.9	44.7	46	46.2	41.3	43	44	43.5	42.8
52.7	52.2	54	51.5	49.5	44.6	45.4	46.9	41	42.4	44.9	42.6	41.5
52.9	52.5	53.7	50.7	48.9	44.7	43.8	46.5	40.5	41.8	45.2	42.1	40.2
54.9	51.9	53.2	50.3	47.8	44.8	43.3	46.8	41.5	41.7	44.9	42.6	39.9
53.2	52.2	52.6	50.4	48.4	44.2	44.1	46.8	41.3	43.1	44.7	42.2	40.5
52.7	51.9	52.5	51.5	48.5	44.1	45.9	46	41.2	42.7	44.3	42.8	40
53.2	52.9	53.1	51.3	48.5	43.8	45.4	45.8	40.9	42.2	44.1	42.7	39.4
51.7	52.5	52.8	52.2	48.6	44	46.1	46.5	40.9	42.2	44.5	42.2	39.3
52.1	51.7	52	52.9	48.7	44.4	45.9	47.6	42.2	42.1	44.4	42.3	39.6
53.2	51.7	50.9	52.4	49.2	44.5	45.7	47.4	41.6	41.9	43.8	44.1	39.8
54.8	52.6	51.5	52.7	49.4	45.7	44.4	47.2	41.2	41.7	43.9	45.5	40.1
56.6	55.3	52.4	52.7	51.3	45.7	44.3	46.2	41.5	43.7	44.8	45.7	40.7

45.9	48	46.5	43.2	41.3	39.1	36.5	34.8	31.9	30.8	27.9	24.5
44.6	45.9	44.7	41	39.2	37	34.6	32.7	29.6	28.3	25.9	23.6
42.5	43.8	42.3	38.5	36.5	34.4	32.3	31	28.5	25.8	24.1	23
41.8	43.4	41.9	37.1	34.4	32.5	30.8	28.6	26.1	24.3	23.2	22.9
42.8	44.6	42.3	36.5	34	31.7	30.1	28.6	25.3	24.1	23	22.8
45.7	52.5	43.8	37.2	34.2	31.8	30	29.7	27.1	24.2	23	22.9
46.4	51.8	46	39.6	35.6	33	30.1	28.4	26.2	23.5	22.7	22.9
46.7	49.2	45.8	39.8	36.1	32.4	29.8	27.4	25.2	23.1	22.5	22.8
43.9	46.1	42.9	37.7	34.3	31.1	28.4	26.7	24	22.4	22.4	22.8
42.5	44.2	41.7	37.1	34.1	31.6	29.2	28.7	24.1	22.7	22.6	22.9
42.2	43.6	41.3	37	34.3	32.9	30.4	32	24.7	23.4	23.3	23
42.5	42.9	40.3	36.4	34.3	33.3	31.2	33	25	23.9	23.2	23
43.1	42.7	40.1	36.6	34.3	33.2	31.8	32	25.3	24.3	23.3	23.1
43.9	43.7	42	38.8	35.6	36.1	33.6	32.1	27	25.1	23.8	23.1
44.4	44.7	43.6	41.3	38.7	37.1	33.8	31.8	28.4	26	25.1	23.6
45.8	45.3	43.2	42.1	40.1	38.2	35.1	32.7	30.2	28.6	26.7	24.9
46.9	46.2	44.3	43.1	40.8	38.6	36	33	30.4	28.5	26.6	25
46.9	46.3	44.7	43.7	41	38.5	36.2	32.5	29.8	27.4	25.6	24.1
47.2	46.7	45.3	43.5	40.3	37.7	35.3	31.8	29.3	26.6	25.2	23.9
46.9	46	44	41.3	38.2	35.4	32.9	29.6	27.5	24.9	24.1	23.4
45	44.2	42	39.2	36.1	33.6	30.9	27.9	26.3	23.7	23.2	23.3
43.5	42.8	40.7	37.5	34.9	32.1	29.9	27.5	25.3	23.2	22.9	23
41.7	41.2	38.8	36.2	33.7	30.7	28.8	26.6	24.6	22.8	22.7	23
39.9	40	38	35.8	33.1	30.1	28.4	25.4	24	22.7	22.8	22.9
39.3	39.3	37.4	35.8	32.7	30.1	27.9	25.1	23.7	22.4	22.4	22.8
39.9	39.7	37.1	35.6	32.5	30.1	28.4	24.9	23.4	22.3	22.2	22.8
39	39.6	37.7	36.1	32.5	30.7	28.9	25.9	23.2	22.3	22.2	22.8
38.8	38.9	37.8	35.8	33.4	30.7	28.2	25.9	22.9	22	22.2	22.7
39.1	39.2	37.8	35.5	33.1	29.9	27.5	25.1	22.6	21.9	22.1	22.7
38.9	39	37.8	35.7	33.1	29.9	27.7	25	22.6	22	22.4	22.7
39.4	40.1	38.3	35.8	33.5	30.3	27.8	25	22.7	22	22.4	22.8
39.8	40.4	38.7	36.5	34.7	32.5	30.4	28.3	25.9	23.2	22.5	22.8
40	40.2	38.8	36.4	34.6	32	30	27.5	29	30.9	23.5	22.9

23.9	24.6	4.7	No	No
23.7	24.5	6.9	No	No
23.7	24.5	5.1	No	No
23.6	24.4	0.5	No	No
23.7	24.5	0.4	No	No
23.8	24.5	3.9	No	No
23.7	24.4	1.4	No	No
23.7	24.5	3.4	No	No
23.5	24.5	2.3	No	No
23.5	24.5	0.3	No	No
23.6	24.5	0.3	No	No
23.7	24.5	1.2	No	No
30.5	24.4	2.9	No	No
27.6	24.4	0.6	No	No
25.9	24.5	0.5	No	No
24.9	24.6	0.7	No	No
24.3	24.6	1.8	No	No
24	24.6	-0.2	No	No
23.8	24.6	3	No	No
23.8	24.6	1.6	No	No
23.7	24.5	0.2	No	No
23.7	24.5	2.9	No	No
23.7	24.5	0.3	No	No
23.6	24.5	1.8	No	No
23.6	24.5	1.4	No	No
23.5	24.5	2.4	No	No
23.5	24.5	0.3	No	No
23.5	24.4	-0.1	No	No
23.6	24.5	1.1	No	No
23.5	24.5	1.5	No	No
23.5	24.5	1.9	No	No
23.6	24.5	1.3	No	No
23.7	24.4	0.3	No	No

NM2_KWAQN 1020 El Centro Street. South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
1	Calibration Change	11/19/2021	1:22:03 PM															
2	Calibration Change	11/19/2021	1:22:18 PM															
3	Run	11/19/2021	1:22:34 PM															
4		11/19/2021	1:22:34 PM	50.6	62.1	57.6	55.7	98.1	14.1	53.4	52.8	67.9	56.5	58.4	55.9	46.1	42.9	40.2
5		11/19/2021	1:22:35 PM	50.2	60.7	55.7	53.1	98.3	15.3	52.9	54.1	67	58.8	56.5	52.8	45.6	43.5	41.5
6		11/19/2021	1:22:36 PM	51.7	64.1	53.1	52.3	98.4	13	53.0	54.4	66.7	59.8	57.9	50.7	45.8	45.4	43.9
7		11/19/2021	1:22:37 PM	51.7	71.6	52.3	51.9	98.3	13.1	53.2	52.9	65.7	57.7	55.9	51.6	47.6	46.2	43.8
8		11/19/2021	1:22:38 PM	51.2	67.5	52.0	51.5	98.3	14.3	51.9	55.2	65.7	58.9	56	51.3	47.3	45.1	43.7
9		11/19/2021	1:22:39 PM	52.3	66.5	52.1	51.7	98.1	14	52.8	55	68.3	59	57	49.7	46.9	47	45.5
10		11/19/2021	1:22:40 PM	55.8	68.4	55.2	52.1	98.1	10.3	53.1	56.3	68.3	58.2	58.1	53.3	51	50.2	48.5
11		11/19/2021	1:22:41 PM	59.1	70.7	58.1	55.2	98.4	9	51.8	59.1	65.3	65.6	58.3	55.1	54.1	53.9	52.4
12		11/19/2021	1:22:42 PM	59.2	72.4	58.8	58.1	98.4	6.7	50.5	57.4	62.7	65.1	57.8	54.8	54.2	55	51.7
13		11/19/2021	1:22:43 PM	57.2	69.9	58.8	57.7	98.3	9.3	54.2	57.3	61.3	59.9	58.9	55.9	52.1	53.7	49.3
14		11/19/2021	1:22:44 PM	55.2	70.7	57.6	56.2	98.3	10.7	51.2	59.3	65.9	60.5	57.9	53.3	49.3	52.6	46.8
15		11/19/2021	1:22:45 PM	54.3	70.4	56.2	55.1	98.4	11	50.3	50.2	66.2	61.3	56.4	54.1	48.3	51.5	45.3
16		11/19/2021	1:22:46 PM	53.1	67.1	55.0	53.9	98.1	11.1	54.0	52.9	65.1	58.8	56.7	53.1	51.1	48.8	43.5
17		11/19/2021	1:22:47 PM	53.8	66.5	54.1	53.8	98.3	11.9	51.0	52	64.2	62.4	58.7	52.5	50.7	48.3	44
18		11/19/2021	1:22:48 PM	54.2	68.6	54.1	53.8	98.3	12.4	53.1	53.9	63.4	63.8	58.7	53.6	51.8	48.6	45.6
19		11/19/2021	1:22:49 PM	54.0	65.7	54.1	54.0	98.6	11.7	52.2	58.6	62.4	64	58.3	54.8	53.1	47.8	43.8
20		11/19/2021	1:22:50 PM	53.7	67.7	54.1	53.8	98.1	12.7	56.5	56	63.6	62.9	57.6	53.9	52.3	47.9	42.9
21		11/19/2021	1:22:51 PM	51.7	64.1	53.8	52.6	98.4	14	56.7	57.9	63.1	64	58	51.7	49.7	46.3	41.3
22		11/19/2021	1:22:52 PM	51.0	63.2	52.5	51.6	98.3	14.7	53.7	56.9	63.2	63.6	58.1	50.9	48.9	44.9	40.8
23		11/19/2021	1:22:53 PM	50.5	63.2	51.6	50.9	98.4	15.3	54.0	57.7	63.2	63.6	57.5	50.3	49	43.9	39.9
24		11/19/2021	1:22:54 PM	50.2	61.5	50.9	50.5	98.4	15.7	53.1	56.8	62.1	63.3	57.5	50.1	48.9	43.5	39
25		11/19/2021	1:22:55 PM	49.7	60.7	50.5	50.0	98.3	15.8	51.7	59.7	64.1	63.3	57.2	50.1	48.1	43	38.6
26		11/19/2021	1:22:56 PM	49.4	62.1	50.0	49.7	98.3	15.3	53.9	58.9	62.5	61.9	57.6	49.5	47.9	42.8	38.6
27		11/19/2021	1:22:57 PM	49.8	72.1	49.9	49.6	98.1	15.6	56.6	57.5	63	61.5	57.3	49.9	47.8	43.4	40.8
28		11/19/2021	1:22:58 PM	49.5	62.1	49.8	49.6	98.1	15.4	53.4	57.4	64.9	62.3	56.5	49.1	47.5	43.3	39.3
29		11/19/2021	1:22:59 PM	49.3	62.7	49.6	49.4	98.4	15.7	52.8	57.2	63	62.3	55.8	47.9	48	43.1	38.7
30		11/19/2021	1:23:00 PM	49.2	60.7	49.4	49.3	98.6	14.6	55.0	58.1	62.3	61.5	55.7	47.5	48.3	43	38.8
31		11/19/2021	1:23:01 PM	49.3	61.5	49.3	49.2	98.3	16.1	50.9	58.9	61.8	61.2	56.6	48.3	47.9	42.9	38.6
32		11/19/2021	1:23:02 PM	50.1	68.6	49.9	49.3	98.3	15.5	50.7	59.9	64.6	63.5	57.2	48.8	48.6	43.1	39.9
33		11/19/2021	1:23:03 PM	49.8	62.1	49.9	49.6	98.3	15.1	53.5	57.7	63.8	62.3	55.8	47.9	48.4	43.7	40.5
34		11/19/2021	1:23:04 PM	50.2	62.7	50.2	49.9	98.5	14.6	51.5	59.4	63.4	61.6	56.3	47.9	48.2	44.3	40.8
35		11/19/2021	1:23:05 PM	50.0	62.7	50.2	50.0	98.5	14.2	54.4	57.5	64.5	59.6	57	47.6	47.9	44.6	41.2
36		11/19/2021	1:23:06 PM	48.4	60.7	50.0	49.0	98.3	17.4	51.7	56.2	65.3	63	54.2	48.3	43.4	43.6	39.1
37		11/19/2021	1:23:07 PM	48.9	60.7	49.1	48.8	98.3	16.2	53.4	53.8	64.6	62.2	53.1	46.6	44.4	44.4	40.5
38		11/19/2021	1:23:08 PM	47.6	59.7	48.9	48.2	98.3	16.7	54.7	56.5	63.7	62.3	53	47.6	44	42.2	38.2
39		11/19/2021	1:23:09 PM	47.5	62.1	48.3	47.7	98.1	16	51.6	55.3	64.5	61.4	52.7	45.3	42.9	43.2	38.7
40		11/19/2021	1:23:10 PM	47.3	60.7	47.9	47.1	98.4	17.4	52.6	56.4	62.1	60.3	51.1	46.1	42.8	42.8	39.2
41		11/19/2021	1:23:11 PM	47.9	58.4	48.0	47.2	98.4	14.8	50.3	61.3	64.8	59.1	51.5	44.6	42.9	43.9	39.8
42		11/19/2021	1:23:12 PM	51.4	64.1	50.4	48.0	98.4	12.6	52.9	59.5	63.4	59	54.3	48.6	47.6	48	42.8
43		11/19/2021	1:23:13 PM	50.8	64.8	50.8	50.4	98.5	13.9	52.2	59.3	65.7	58.2	53.9	49.3	46.8	47.4	41.5
44		11/19/2021	1:23:14 PM	52.9	66.2	52.3	50.6	98.4	11.4	53.8	56.7	65.3	60.1	53.3	51.7	49.2	49.7	42.6
45		11/19/2021	1:23:15 PM	49.7	60.7	52.2	50.7	98.4	14.2	55.0	60	63.3	61.1	54.8	51.2	45.7	44.9	40.4
46		11/19/2021	1:23:16 PM	49.2	60.7	50.7	49.9	98.3	16.2	59.1	57.9	64.8	63.1	52.8	47.9	45.5	44	41.3
47		11/19/2021	1:23:17 PM	48.0	60.7	49.9	48.8	98.4	17	60.6	56	65.6	61.6	53.1	46.9	43.8	43.3	39.7
48		11/19/2021	1:23:18 PM	48.3	58.4	48.8	48.5	98.1	16.8	52.1	61.2	65.6	61.5	54.2	47.0	44.1	43.6	39.7
49		11/19/2021	1:23:19 PM	48.3	60.7	48.7	48.3	98.4	16.2	54.6	55.1	64.9	61.3	52.3	47.2	45	43.9	39.1
50		11/19/2021	1:23:20 PM	48.9	62.1	48.8	48.0	98.3	16.5	51.4	58.3	65.2	61.3	52.6	45.1	43.2	44.2	41.8
51		11/19/2021	1:23:21 PM	50.3	67.8	49.8	48.8	98.3	14.7	48.5	59.3	66.1	61.6	52.3	43.9	44	45.3	43.9
52		11/19/2021	1:23:22 PM	55.2	80.2	54.4	49.9	98.6	9.6	56.0	54.9	66.8	62.4	54.3	47.7	47.6	49.5	49.5
53		11/19/2021	1:23:23 PM	50.4	61.5	53.2	51.6	98.3	13.4	54.5	54.5	63.6	60.6	55	46.5	46.2	45.6	43.1
54		11/19/2021	1:23:24 PM	49.3	62.7	51.6	50.2	98.6	13.9	52.4	56.4	64.3	60.3	53.2	47.2	44.8	44.8	41.4
55		11/19/2021	1:23:25 PM	46.4	58.4	50.1	48.1	98.4	17	52.6	53.8	63.2	59.9	52.3	45.5	42	41.2	37.6
56		11/19/2021	1:23:26 PM	45.3	56.7	48.1	46.6	98.4	18.3	51.0	57.8	64.5	59.1	50.9	43.6	40.9	40.5	36.9
57		11/19/2021	1:23:27 PM	44.9	65.7	46.6	45.5	98.4	19.8	52.0	56.3	64.3	59.6	51	42.9	39.6	39.9	36.7
58		11/19/2021	1:23:28 PM	47.2	74.6	47.9	45.7	98.4	16.9	51.6	64.1	65.8	62.2	50.1	42.3	41.1	40.7	40.2
59		11/19/2021	1:23:29 PM	44.4	53.7	46.1	45.1	98.3	18.3	56.6	67.3	65.1	57.7	50.6	41.7	40.1	40.1	35.9
60		11/19/2021	1:23:30 PM	44.8	53.7	45.1	44.9	98.5	18.4	65.0	56.6	65.1	58.7	50.6	42.3	40.3	40.3	36.4
61		11/19/2021	1:23:31 PM	45.3	53.7	45.3	44.9	98.5	17.6	55.9	55.8	63.6	60.1	52.2	42.6	40.5	41.2	36.3
62		11/19/2021	1:23:32 PM	46.2	65.7	46.0	45.3	98.5	17.6	53.9	55.7	64.9	59.5	52.1	41.6	40	42	38.9
63		11/19/2021	1:23:33 PM	46.5	56.7	46.4	46.0	98.3	17	55.2	56.1	64.9	59	52.6	43.5	40.6	42.7	38.4
64		11/19/2021	1:23:34 PM	48.7	70.4	47.8	46.4	98.4	14	51.7	57.3	65.6	58.1	51.6	43.3	41.9	44	42.4
65		11/19/2021	1:23:35 PM	46.5	58.4	47.8	47.0	98.3	16.7	48.1	57.3	64.9	59.2	53.1	42.9	40.9	42.8	37.7
66		11/19/2021	1:23:36 PM	46.8	56.7	47.0	46.9	98.4	16	55.0	56.2	65.3	58.4	54.5	43.7	40.5	43.2	38.1
67		11/19/2021	1:23:37 PM	45.8	56.7	46.9	46.2	98.4	16.4	54.2	52.7	63.1	57.7	53.2	42.1	39.7	42	37.6
68		11/19/2021	1:23:38 PM	46.0	60.7	46.2	46.0	98.4	16.7	51.6	52.8	64.6	58.3	53	43.2	40.1	41.2	38.1
69		11/19/2021	1:23:39 PM	47.0	66.7	47.1	45.6	98.4	15.5	49.4	54.2	63.6	59.1	53.5	43.4	40.5	40.3	39.5
70		11/19/2021	1:23:40 PM	45.4	56.7	47.0	46.0	98.3	17	55.7	53.5	63.6	58.6	53.9	43.4	40.1	40.2	37.3
71		11/19/2021	1:23:41 PM	45.5	59.7	46.0	45.7	98.5	16.8	58.8	55.3	62.9	58.1	53.8	43.0	40.8	40.4	37
72		11/19/2021	1:23:42 PM	44.9	56.7	45.7	45.2	98.5	17.7	59.2	53.1	63.6	57.4	53.6	42.3	39.8	39.7	36.6
73		11/19/2021	1:23:43 PM	45.6	58.4	45.6	45.0	98.4	16.8	64.1	53.4	64.1	58.5	53.8	42.4	41.8	39.7	37.3
74		11/19/2021	1:23:44 PM	46.5	56.7	46.2	45.6	98.4	16.3	57.8	55.4	64.2	57.3	54.4	43.9	43.5	40.7	37.9
75		11/19/2021	1:23:45 PM	47.1	59.7	46.8	46.2	98.4	16.1	58.9	57.3	62.9	60	55.3	45.1	42	41.5	39.5
76		11/19/2021	1:23:46 PM	46.4	58.4	46.9	46.5	98.1	17.6	62.3	52.8	64.5	61.3	55.8	43.9	41.6	40.7	38.4
77		11/19/2021	1:23:47 PM	46.0	56.7	46.4	46.0	98.5	17.1	53.5	57.8	62.6	60.1	51.2	44.8	41.1	40.4	38.5
78		11/19/2021	1:23:48 PM	46.2	59.7	46.5	46.1	98.4	17.2	53.9	58.1	64.7	59	50.7	44.8	41.7	41.1	38.2
79		11/19/2021	1:23:49 PM	44.7	56.7	46.1	45.3	98.5	19.4	58.4	57.4	64.9	59.6	51.7	45.0	40.4	38.9	36.1
80		11/19/2021	1:23:50 PM	43.9	59.7	45.2	44.4	98.4	18.9	55.4	60.9	66	59.2	50.2	42.2	38.7	38.9	35.7
81		11/19/2021	1:23:51 PM	44.1	53.7	44.5	44.2	98.3	18.2	57.6	56.1	64.8	58.6	50.3	43.2	38.8	39	35.8
82		11/19/2021	1:23:52 PM	44.5	56.7	44.5	44.2	98.5	22	56.7	54.5	63.2	58	51.2	42.7	39.1	39.5	36.2
83		11/19/2021	1:23:53 PM	43.8	53.7	44.3	44.0	98.5	18.8	59.0	61.1	69.5	58.7	50.6	41.8	37.9	38.8	35.4
84		11/19/2021	1:23:54 PM	44.4	59.7	44.3	44.0	98.4	18.1	54.9	55.9	63.2	58	50	42.2	39.9	39.6	36.3
85		11/19/2021	1:23:55 PM	44.7	53.7	44.6	44.3	98.4	18	55.1	55.8	64.3	56.9	49.4	42.6	40.8	39.5	36.7
86		11/19/2021	1:23:56 PM	44.9	56.7	44.8	44.5	98.3	17.6	54.5	56	64.3	57.9	50.1	43.2	40.8	39.7	36.8
87		11/19/2021	1:23:57 PM	44.9	56.7	44.8	44.7	98.3	17.5	53.9	57.4	64.1	57.3	51.9	43.4	39.6	39.6	37.3
88		11/19/2021	1:23:58 PM	45.3	56.7	45.1	44.8	98.4	17.4	53.6	56.5	64	57.3	50.1	42.1	40.3	40.6	37.4
89		11/19/2021	1:23:59 PM	45.0	58.4	45.2	45.0	98.5	17.2	56.0	55.5	64	57.7	51.1	42.2	40.7	40.4	36.9
90		11/19/2021	1:24:00 PM	44.4	53.7	45.0	44.6	98.3	18	55.9	54.9	62.9	58.5	50.1	42.1	38.7	39.6	36.3
91		11/19/2021	1:24:01 PM	46.0	61.5	45.7	44.6	98.4	14.8	52.2	56.3	62.9	57.2	51.1	43.3	40.7	41.4	39.6
92		11/19/2021	1:24:02 PM	45.3	58.4	45.3	45.2	98.4	17.5	51.3	56.6	62.7	57.7	50.9	44.7	40.6	40.3	37.3
93		11/19/2021	1:24:03 PM	46.6	67.5	46.5	45.3	98.4	16.2	49.6	53.8	63.2	59.4	52.4	46.6	42	41.3	38.5
94		11/19/2021	1:24:04 PM	46.0	58.4	46.5	46.2	98.3	17.4	49.8	54.8	64	58.7	52.5	45.9	43.8	40.6	36.6
95		11/19/2021	1:24:05 PM	47.6	68.7	47.3	46.2	98.4	16	50.8	56.5	64.5	59.3	51.3	44.2	43.4	42.4	40.4
96		11/19/2021	1:24:06 PM	47.5	61.5	47.6	46.9	98.4	16.2	48.8	54.4	65.6	58.2	54.1	45.7	44.1	42.4	38.9
97		11/19/2021	1:24:07 PM	50.2	62.1	49.4	47.6	98.3	13.9	53.2	54.1	64.6	59.6	54	47.0	48.9	44.8	41.7
98		11/19/2021	1:24:08 PM	48.9	60.7	49.4	49.0	98.4	14.4	55.3	56.7	64.4	58.8	54.7	46.2	44.8	43.5	41.6
99		11/19/2021	1:24:09 PM	49.8	64.5	49.8	48.7	98.3	14.6	57.1	57.4	63.5	61.5	53.8	48.1	46.2	44.3	42.8

NM2_KWAQN 1020 El Centro Street. South Pasadena. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
100		11/19/2021	1:24:10 PM	47.4	61.5	49.5	48.2	98.5	16.7	58.2	57.3	65	60	52.8	45.8	44	42.6	38.9
101		11/19/2021	1:24:11 PM	46.6	59.7	48.2	47.2	98.3	17.3	57.2	57.2	65.3	60.2	52.5	44.1	41.6	42	38.5
102		11/19/2021	1:24:12 PM	45.6	59.7	47.2	46.3	98.4	16.9	54.9	58.8	64	59.6	51.3	43.9	41	40.7	38.3
103		11/19/2021	1:24:13 PM	45.7	56.7	46.3	45.9	98.3	17.5	51.3	59	63.2	58.1	51.4	43.5	41	41	37.6
104		11/19/2021	1:24:14 PM	46.6	64.1	46.5	45.8	98.4	16.6	55.1	53.8	65	60.6	53	43.7	42.2	41	39.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
36	30.5	28.6	58.8	54.2	66.8	57.9	57.5	54.4	45.4	56.1	40	37.6
40	31.4	29	57.2	54.8	67.4	58.8	57.6	54.5	45.7	53.7	41.1	39.1
44	33.7	28.8	54.9	54.7	67.5	59.8	57.6	53.4	45.9	50.1	43	42.8
41.4	33.6	28.8	53.9	54	66.9	59.2	57.6	52	47.1	47.8	43.6	42.7
39.7	33.9	28.9	53.4	54.8	66	58.9	56.4	51.8	47.4	46.9	43.8	42
42.1	35.1	29.3	53.2	55.5	67.7	59.3	57.1	51.4	47.2	46.8	44.9	41.7
46.4	42.1	31.5	53.2	56.2	68.3	59.2	57.9	52.4	50.3	49.5	48	45.7
49.9	45.1	33.4	54.3	58.5	68.1	64.2	58.7	54.4	53.2	52.9	51.2	48.8
49.2	44	33.1	51.7	58.5	66.1	65.3	58.2	54.7	53.9	54.3	51.5	49.1
45.6	40.3	31.4	53.6	57.8	64.3	64.3	59	55.9	54	54.5	51.6	49
40.3	34.9	29.5	53.3	59.2	65.1	62.8	58.5	55.3	52.5	53.8	50	46.9
39.7	33.8	30.7	52.4	58.3	65.8	61.3	58	54.2	50.7	53	48.2	43.9
39.1	32.7	29.1	53.7	54.9	66.2	61.2	57.5	54.1	50.5	51.9	46.6	41.8
40.1	33.3	48.8	53.1	54	65.3	61.9	58.1	53.4	50.8	50.2	44.9	40.4
40.8	34.8	31.8	53	53.5	64.8	63.4	58.6	53.6	51.6	49.2	45.3	40.9
38.9	32.3	30.9	52.9	57.8	64.2	64.1	59.1	54.5	52.7	48.8	45.1	40.5
38.6	32	29.3	56.6	57.6	63.7	63.5	58.2	54.6	52.7	48.4	44.3	39.5
37.4	30.9	31.5	57.7	57.7	63.9	64	58.2	54.1	52.4	47.9	43.4	39
36.8	30.5	30.6	56.4	58.5	63.7	64.1	58.3	52.7	50.9	46.8	42.1	38
36.1	29.9	29.5	55.1	57.7	63.7	63.9	58	51.6	49.6	45.6	41.4	37.4
34.9	29.2	28.5	54.9	57.7	63.5	63.9	57.9	50.8	49.3	44.6	40.5	36.5
34.9	29.1	28.6	53.7	59.2	63.8	64.1	57.7	50.4	49.2	43.9	39.6	35.6
35.1	29.2	28.5	53.8	59.6	63.4	63.3	57.8	50.3	48.5	43.4	39	35.2
36	29.4	28.6	56.4	59	63.3	62.5	57.6	50	48.3	43.4	40.4	35.8
35.6	29.8	28.5	55.2	58.3	64.9	62.3	57.3	49.8	47.9	43.5	40.1	35.8
35.4	33.2	28.5	54.4	57.9	64.3	62.5	56.8	49.3	48	43.4	39.6	35.6
35.5	29.6	28.5	55.3	58.8	63.4	62.7	56.3	48.6	48.2	43.2	39.1	35.5
35.8	29.8	28.6	54	58.6	62.8	61.5	56.5	48.2	48.3	43.1	38.9	35.7
38.1	33.9	29.1	52.3	59.9	64	63.1	57	48.6	48.5	43.1	39.7	38
36.7	31.1	28.9	53.4	60.3	64.1	62.9	57.1	48.6	48.5	43.6	40.3	37.2
36.9	32.2	29.5	52.9	59.2	64.6	62.5	56.4	48.5	48.8	44.1	40.7	37.1
37.1	32.2	29.3	54.6	59.3	64.4	62	57	47.9	48.6	44.5	41.1	37.1
35.6	30.1	28.8	53.6	58.1	65.4	62.6	56.6	48.1	47.7	44.4	40.9	37.1
36.2	30.1	28.6	53.6	56.8	65.6	62.6	55.3	48.1	45.6	44.5	40.5	36.4
35.4	29.4	28.5	54.8	56.5	64.8	62.9	54.1	47.7	45	44.2	40.2	36.2
36.6	29.4	28.6	53.9	55.8	65.2	62.2	54.2	47.3	44.5	43.5	39.4	37
35.2	28.9	28.5	53.4	56.6	64	61.7	52.7	46.3	43.7	43.3	39.5	36.2
34.8	28.8	28.4	52.2	60.2	64.9	60.8	52.1	46.2	43.2	43.8	39.8	35.5
37.6	30.7	28.8	52.5	60.4	63.9	60	53.4	47.8	46.4	46.9	42	36.9
37.2	32.5	29.6	52.7	60	65.4	59.5	53.9	48.9	46.9	47.5	42.4	37.4
38.4	33	30.3	53.5	59.5	66.1	59.8	53.8	51.1	48.5	49.1	42.4	38
36.7	30.9	28.9	55.1	59.9	64.9	61.1	54.8	51.5	48.4	48.9	42.3	38
38.2	32.9	29.5	58.5	60.6	64.6	62.5	54.4	51	46.8	46.8	41.4	37.9
36.2	30.2	28.6	61.2	58.1	65.7	63.2	53.5	49.4	46.2	45.4	41.3	37.9
36.6	30.8	28.6	59	60.9	66.1	61.9	54.3	47.9	44.9	44.2	40.3	36.9
35.9	30.8	28.7	55.8	59.5	65.8	62	53.7	47.4	45	44.2	40.1	36.9
37.6	31	29.2	55.4	58.3	65.6	61.9	53	47.3	44.7	44.2	41.4	37.3
40.8	36.9	33	53	59.5	66.3	61.8	53	46.1	44	44.9	43.1	39.8
47.9	38.6	30.2	55.4	59.1	66.7	62.2	53.8	46.9	46.7	48.2	48.8	47.3
39.9	32.1	28.6	56.3	57.3	66.4	62.1	55	47.1	46.6	47.9	47.2	45.2
39.5	32.8	28.8	54.3	56.9	65.3	61.1	54.7	47.1	46	46.6	45.1	42.7
35.3	29.8	28.6	53.6	55.8	64.6	60.8	53.5	47.1	45.2	45.3	42.9	40.8
33.4	28.6	28.7	52.9	57.3	64.3	60.4	52.7	46	43.4	43.2	40.3	38.1
33.4	29.1	28.6	53.4	57.3	65.2	60.3	52	44.7	41.9	41.7	38.5	35.7
41	33.7	29.2	51.9	64	65.4	61.4	51.3	43.8	41.9	41.6	40.8	41.1
31.7	27.8	28.5	56.3	67.1	65.6	61.2	50.9	42.9	40.7	40.4	38.6	38
33	28	28.6	63.5	65.5	65.4	59.7	50.8	42.3	40.4	40.4	37	35.2
32.5	28.4	28.6	62.9	62.1	65.3	59.8	51.9	42.6	40.6	41	36.7	34.1
33.8	29.8	28.8	59.8	59.3	64.9	59.8	52.2	42.4	40.6	41.9	38.5	33.9
33.3	28.7	28.7	57.1	57.5	65.2	60.2	52.6	43.1	40.6	42.5	38.6	33.6
38.3	30.5	28.8	56.2	57.7	65.5	59.1	52.5	43.2	41.6	43.4	41.3	36.8
32.7	28.1	28.6	53.9	58	65.4	59.3	52.9	43.2	41.5	43.4	41.2	36.6
33.4	28.8	28.5	54.8	56.8	65.6	58.9	54.2	43.5	41.1	43.2	39.4	34.6
32.9	27.9	28.6	54.8	56.6	65.3	58.9	54.4	43.5	40.7	43.1	38.7	33.9
34.3	29	28.7	53.7	54.6	64.5	58.4	53.7	43.2	40.3	42.3	38.1	34.3
38.9	32.4	28.8	52.2	54.4	64.8	59.1	53.7	43.5	40.6	41.8	39.7	38.7
32.9	28.2	28.6	54.7	54.8	64.2	59	53.8	44	40.6	40.9	39.5	38.5
32.2	27.4	28.4	58.2	56	63.6	59	53.9	43.3	40.8	40.5	38.3	35.9
32.5	28.4	28.4	59.4	54.5	63.7	58.2	53.9	43.1	40.7	40.6	37.5	34
33.3	28.3	28.5	63	53.8	64	58.4	54	42.7	41.5	40	37.3	33.4
33.9	29.1	28.6	62.9	54.8	64.3	58.3	54.3	43.6	43	40.6	37.7	33.7
34.6	29.6	28.5	60.5	56.7	64.2	59.6	55.3	44.6	43	41.1	39	34.4
34.1	29	28.6	61.7	56.2	64.3	60.7	55.8	44.5	42.3	41.3	39.1	34.6
33.7	29.1	28.7	61.3	57.5	64.3	60.8	55.3	44.9	41.9	40.7	38.8	34
34.6	30.3	28.7	58	58.5	64.4	60.4	53.2	44.8	41.9	41.2	39.1	34.7
32.9	28.8	28.5	57.9	57.7	64.9	60.1	52.1	45.2	41.4	40.8	38.2	34.3
32.6	28.4	28.6	57.5	60.2	66.5	59.5	51.6	44.8	40.9	39.7	37	33.5
32.3	28.5	28.7	57.7	59.7	65.4	59.4	50.9	43.9	39.6	39.6	36.3	32.9
33.3	28.6	28.5	57.9	57.7	64.9	59.4	51.2	43.3	39.3	39.3	36.3	33.1
32.6	29.4	28.8	59.1	60.3	68.9	58.8	51.2	42.7	39.1	39.4	36	33
33	28.8	28.6	57.8	59.7	67.3	58.7	51.1	42.3	39.5	39.5	36.1	33.1
32.6	28.6	28.6	56.7	57.7	65.4	58.1	50.3	42.6	40.4	39.6	36.5	33.2
32.8	29.9	28.6	55.8	56.7	65.2	57.9	50.1	43.2	40.9	39.6	36.6	32.8
33.4	29.4	28.8	55.1	57.6	64.4	58.2	51.5	43.6	40.7	39.7	37.1	33.2
34.5	30.3	29.1	54.4	57.2	64.7	57.6	51.5	43	40.3	40.2	37.4	34.2
32.3	28.3	28.7	55.9	56.5	64.6	57.8	51.2	42.4	40.6	40.3	37.3	33.8
32.9	29.7	29	57	56.2	63.9	58.4	50.9	42.5	40.5	40.4	37.1	33.3
32.3	28	28.5	55.3	56.3	63.6	58.5	51	42.9	40.5	41.1	39	32.9
31.8	28	28.5	53.6	57	63.2	57.8	51.2	44.2	40.6	40.8	38.2	32.5
35.1	29.8	28.6	52.1	56.4	63.4	58.8	52.1	45.8	41.7	41.3	38.7	34.9
33	28.7	28.6	51.5	55.2	63.8	59.3	52.5	46.1	43.2	41.3	38.7	34.9
36.8	30.6	28.9	50.8	56.2	64.4	59.6	52.4	45.9	43.6	41.9	40	36.5
35	29	28.5	51.1	55.8	65.5	58.8	53.7	45.5	44	42.4	39.7	36.1
37.9	30.3	28.7	52.1	54.9	65	59.3	54	46.6	48	44	41	37.1
37.4	30.2	28.5	54.8	56.3	65.1	59.6	54.6	46.4	47.3	43.9	41.7	37.7
37.7	29.7	28.6	56.4	57.1	64.5	60.7	54.5	47.8	46.5	44.3	42.7	37.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/1 LZeq 4000 1/1 LZeq 8000 1/1 LZeq 16000 1/1 LZSmax 8.0 1/1 LZSmax 16.0 1/1 LZSmax 31.5 1/1 LZSmax 63.0 1/1 LZSmax 125 1/1 LZSmax 250 1/1 LZSmax 500 1/1 LZSmax 1000 1/1 LZSmax 2000 1/1 LZSmax 4000

34.4	28.9	28.5	58.3	57.6	64.9	61	54.2	47.5	46.3	44.1	42.3	37.5
32.6	28.1	28.5	58.3	57.7	65.7	60.6	53.1	46.6	44.8	43.2	40.4	35.7
32.9	28	28.5	56.9	58.6	65	60.1	52.8	45.2	43.1	42.4	39.4	34.1
32.6	28	28.5	55.6	59.2	64.4	59.9	51.9	44.5	41.9	41.4	38.7	33.4
35.6	28	28.7	54.7	58.7	65	60.3	52.8	43.9	42	41.3	39.3	35.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
31.1	29.6	57.2	53.6	65.8	57.1	56.4	52.4	44.4	53.8	39.6	37	30.8
31.2	29.3	55	53.2	66.7	56.8	56.8	53.4	45.3	50.2	40	37	30.8
33	29.1	53.7	53.5	66.4	58.9	57	51.8	45.1	47.8	41.1	39.1	31.3
33.6	28.9	53.1	53.3	65.9	58.3	56.4	51.6	45.8	46.9	42.9	41.8	32.5
34.1	29	52.1	53.4	65.2	58	55.9	51.3	47	45.8	43.2	40.7	32.9
34.8	29.2	52.5	54.2	65.5	58.6	56.2	50.4	46.8	45.9	43.8	41	34.1
41.2	31.1	52.5	54.9	67.5	58.4	56.6	50.4	47.1	46.8	44.9	41.6	34.8
44	32.7	51.8	55.5	66.2	58.5	57.8	52.4	50.4	49.6	48	45.8	41.3
44.1	33.1	50.8	57.6	64.3	64.2	57.3	54.2	53.1	53	51.2	48.8	44
44	32.9	50.9	57.2	62.6	62.3	58.3	54.6	52.6	53.8	50	46.9	41.7
41.7	31.9	51.6	57.3	62.4	60.9	57.8	54	50.7	53	48.2	43.9	38.7
38.7	30.9	51.2	55	64.9	60.7	56.6	53.8	49.4	52	46.6	41.8	36.3
36.3	30.6	50.6	53.8	65	59.8	56.7	53.4	49.5	50.2	44.9	40.4	34.4
34.4	47.5	51.8	52.4	64.2	59.8	56.9	52.9	50.1	49.1	44.4	40	33.6
34.8	45.1	51.8	52.5	63.6	61.9	57.8	52.7	50.7	48.7	44.4	40.3	33.8
34.4	41.2	51.8	53.6	63.2	63.2	58.2	53.3	51.5	48.1	44.3	39.5	33.2
33.2	37.6	50.8	56.4	62.5	63	57.7	54.1	52.3	47.9	43.4	38.8	32.5
32.5	34.6	56.2	56.9	63.2	63.1	57.8	52.7	50.8	46.8	42.1	38	31.5
31.5	33.2	54.5	56.9	62.9	63.5	57.8	51.6	49.6	45.7	41.3	37.1	30.8
31	31.2	53.6	56.5	62.3	62.9	57.7	50.8	49.2	44.6	40.5	36.5	30.3
30.3	30.4	53.7	57	62.4	63.1	57.4	50.3	48.7	43.9	39.7	35.6	29.6
29.6	29.3	52.3	56.8	62.3	63.2	57.1	50	48.5	43.4	39	35.2	29.3
29.4	28.8	53	58.7	62.4	62.2	57.3	49.8	48.1	42.9	38.7	35	29.2
29.4	28.6	53	57.9	62.4	61.9	57.3	49.7	47.8	42.8	38.7	35.1	29.3
29.8	28.6	53.7	57.5	63.1	61.5	56.8	49.4	47.5	43.2	39.6	35.6	29.3
32.7	28.6	53.1	57.1	63.3	62.1	56.1	48.5	47.6	43.1	39	35.4	29.8
31.7	28.6	53.2	57.4	62.6	61.4	55.8	47.7	47.8	42.9	38.8	35.5	30.5
30.5	28.6	52.3	57.3	62	61	55.9	47.6	47.9	42.9	38.7	35.5	30
33.9	29.1	51.3	57.8	62.2	61.2	56.3	48.2	47.8	42.9	38.7	35.6	30.1
32.7	28.9	50.5	58.4	62.6	62.2	56.1	48.1	48	43	39.3	36.8	31.7
32.4	29.5	51.4	58.4	63.2	62	55.8	47.9	48	43.6	40.3	36.8	31.5
32.6	29.6	51.8	57.6	63.5	60.5	56.3	47.4	47.8	44	40.6	36.9	32.1
32.2	29.4	52.4	56.8	63.5	59.9	55.3	47.8	45.6	43.9	39.8	36.1	30.9
30.9	28.9	52.5	55.1	64.8	62.1	54	47.1	44.8	43.8	39.7	35.9	30.4
30.4	28.7	52.6	55.2	64.2	62.2	53.1	47.3	44.2	43.1	39	35.3	29.8
29.9	28.6	52.3	54.6	64	61.6	52.7	46.1	43.5	42.8	38.6	35.8	29.5
29.5	28.6	52.1	54.9	62.8	60.8	51.8	45.8	42.6	42.5	38.2	35.3	29
29	28.5	51.1	56.6	63.1	59.8	51.5	45.2	42.8	42.6	38.8	35	28.8
30.3	28.7	51.4	59.7	62.5	59.1	51.5	45.4	43.4	43.8	39.8	35.3	29
31.8	29.3	51.9	59.1	63.8	58.2	53.1	47.8	46.5	46.9	41.5	36.9	30.3
32.7	30	51.7	57.9	65	58.8	53.1	48.8	46.7	47.1	41.2	36.8	31.6
32.7	29.9	52	56.6	63.9	59.9	53.5	51	46.8	46.8	41.2	37.3	31.6
33	29.8	54.8	58.1	63.9	60.2	53.4	49.4	45.9	45.3	41.2	37.3	31.6
32.2	29.3	58.6	56.2	64	61.6	52.9	47.9	44.8	44.2	40.3	36.8	31
31.1	28.9	55.9	56.9	65.3	61.2	53.5	47.3	44.3	43.7	39.8	36.3	30.6
31.3	28.7	54.7	57.1	65	61.3	52.8	46.9	44.3	43.7	39.4	36.2	30.8
31.1	29.1	53	56.9	64.8	61.1	52.4	46.1	43.8	43.4	39.2	36	30.7
36.2	32.8	50.6	57.4	64.4	61.2	52.3	44.8	43.7	44	41.4	37.4	30.9
38.7	31.7	50.6	56.8	65.6	60.8	52.5	44.9	43.9	44.9	43.1	39.8	34.6
36.7	30.4	54.3	55.5	64.9	61.1	53.6	46.5	46	46.5	45.1	42.7	34.4
34.4	29.3	53	55.4	64.4	60.3	53.5	46.6	45.2	45.3	43	40.8	33.3
33.3	29	52.5	54	63.5	59.9	52.8	46	43.4	43.2	40.3	38.1	31.3
31.3	28.8	51.6	54.8	63.5	59.4	51.5	44.7	41.9	41.7	38.5	35.7	29.8
29.8	28.7	51.3	56.1	63.8	59.4	51.2	43.5	40.6	40.6	37	34.1	29.1
33.9	29.3	50.2	55	63.5	59.3	50.3	42.7	40.6	40.4	37.6	34.6	29.5
31.5	28.8	51.8	64.2	65.1	59.3	50.3	42	40.2	40.2	37	35.2	29.6
29.5	28.6	56.4	62.2	64.5	58.8	50.4	41.7	40.2	40.2	36.5	33.9	28.6
28.7	28.7	59.8	59.4	64.2	58.8	50.5	42.2	40	40.3	36.3	33.2	28.4
29.5	28.8	57.1	57.5	64	59.1	51.5	41.9	40.1	40.9	36.5	33.3	28.5
29.3	28.8	55.7	56.5	64.5	59	52	42.1	39.8	41.8	38	33.3	28.7
30.3	28.8	53.9	56.7	64.5	58.3	51.8	42.9	40.6	42.5	38.5	33.4	28.8
29.6	28.7	51.2	56.8	64.4	58.5	52	42.6	41	43	39.4	34.6	28.7
29.1	28.6	51.3	56.1	65	57.9	52.4	43	40.7	43	38.6	33.9	28.3
28.8	28.6	53.5	54.5	64.1	57.9	53.5	42.7	40	42.3	38	33.2	28.3
28.8	28.7	52.3	53.3	63.7	57.5	53.1	42.5	39.8	41.7	37.9	33.2	28.2
32.2	28.9	50.8	53.3	63.8	58.4	52.9	43.1	39.5	40.8	37.3	33.2	28.3
32	28.8	50.7	52.9	63.5	58	53.3	43.1	40.1	40.4	38.3	35.9	30
30	28.7	54.2	53.8	63.1	58.2	53.5	42.9	40.1	40.3	37.5	34	28.6
28.9	28.5	56.8	53.5	63.1	57.6	53.5	42.6	40	39.9	36.9	33.1	28.3
28.4	28.5	57.3	52.9	63.4	57.5	53.4	42.2	39.6	39.5	36.7	32.8	28.2
28.9	28.6	60.5	53.6	63.2	57.6	53.6	42.5	41.5	39.8	37.2	33.4	28.4
29.5	28.6	59.3	54.8	63.3	57.5	54.2	43.6	42.2	40.5	37.7	33.7	28.8
29.6	28.6	59.7	54.3	63.2	59.2	54.7	44	41.8	40.7	38.5	34	29.1
29.3	28.7	58.1	54.4	63.2	60.1	53.2	44.1	41.3	40.3	37.9	33.4	28.7
30.1	28.8	56.1	57.5	63.1	58.9	51.8	44.3	41.4	40.7	38.3	34.1	29.3
29.8	28.7	56	57	64	59.4	51.6	44.7	40.7	39.7	37	33.5	29.2
29.2	28.6	55.7	57.1	65	59.2	50.9	43.3	39.6	39.2	36.2	32.9	28.7
28.7	28.7	55.9	57.8	64.6	58.8	50.3	43	39	38.9	35.9	32.6	28.5
28.7	28.7	56.8	55.8	63.9	58.3	50.3	42.6	39	38.9	35.9	32.5	28.5
29.1	28.8	56.7	55.6	64.1	58.3	50.7	42.1	38.3	38.9	35.5	32.6	28.6
29.1	28.8	55.9	57.8	65.3	58.1	50.3	42	38.3	38.9	35.6	32.6	28.7
29.1	28.7	55.2	56.6	64.6	57.3	49.8	42	39.6	39.4	36.1	32.7	28.6
29.9	28.7	54.7	55.6	64.2	57.3	49.7	42.4	40.2	39.4	36.5	32.6	28.4
29.9	28.7	53.6	56.8	63.8	57.3	49.8	43	40	39.5	36.6	32.8	29.3
30.3	29	53.8	56.5	63.9	56.9	50.5	42.3	39.9	39.5	37	33.2	29.6
29.9	29	53.7	55.5	63.8	57.3	50.3	42	40.2	40.1	37	33	28.9
29.9	29.1	55.3	55.4	63.1	57.5	50.2	42	39.4	39.8	36.4	32.7	28.9
29.2	28.8	53.7	55.3	62.8	57.3	49.9	42	39.5	39.8	36.6	32.4	28.5
28.5	28.6	52.1	56	62.2	57.1	50.5	42.8	40.1	40.4	37.5	32	28.2
29.7	28.6	50.7	54.9	62.8	57.7	51	44.1	40.5	40.2	37.1	32.1	28.2
29.7	28.6	49.7	54.4	63	58.6	52	45.7	41.7	40.7	37.5	33.8	29.2
30.5	28.9	48.7	54.8	63.8	58.4	51.6	44.7	43.1	41	37.5	33.9	29.1
30.2	28.9	49.4	54.8	64.1	58.4	51.6	44.6	43.2	41.8	38.9	35.3	29.5
30	28.7	49.2	54.2	64.6	58.3	53.4	45.4	44	42.3	39.4	35.6	29.6
30.3	28.7	51.6	54.6	64.4	58.6	53.9	46.1	45.9	43.6	41	37.1	30
30	28.6	54.5	56.1	63.3	58.9	53.9	46.3	45.4	43.4	40.7	36.6	29.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmax 8000 1/1 LZSmax 16000 1/1 LZSmin 8.0 1/1 LZSmin 16.0 1/1 LZSmin 31.5 1/1 LZSmin 63.0 1/1 LZSmin 125 1/1 LZSmin 250 1/1 LZSmin 500 1/1 LZSmin 1000 1/1 LZSmin 2000 1/1 LZSmin 4000 1/1 LZSmin 8000

29.8	28.6	56	56.8	63.8	60	53.1	46.5	44.8	43.1	40.4	35.8	29.2
29.3	28.5	56.9	56.2	64.5	60.1	52.6	45.1	43.1	42.4	39.3	34.1	28.5
28.5	28.5	55.6	57.5	64.2	59.7	51.9	44.2	41.8	41.3	38.7	33.3	28.2
28.2	28.5	53.3	58.4	63.2	58.7	51.5	43.7	41.3	41.1	38	32.8	28.1
28.1	28.7	53.2	56.1	63.4	58.7	51.2	43.3	41.3	40.9	37.9	32.7	28

NM2_KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
29.2	48.8	49.2	48.4	42.6	44.9	49.3	66.3	54.2	53.5	52.7	52.9	53.6	53	54.6
29.1	49.1	54	46.9	47.5	46.5	50.2	67.1	58.4	53.8	54.3	49.7	50.1	53.4	51.1
28.9	49.1	52.6	46.4	47.5	48.5	49	66.2	54.5	59.3	60.2	51.2	52.1	52.9	53
28.8	45.2	49.5	45.2	49.6	50.8	47.8	65.2	53.3	53.2	54.9	52.3	50.4	51.4	50.6
28.8	49.2	50.1	50.1	48.4	45.6	51.1	64.1	56.6	58.9	55	51.3	51.6	50.8	52.4
29	48.9	47.6	46.9	49	46.1	50.5	66.3	58.8	57	56.8	51.5	53.4	53.1	53.6
29.2	44.4	47.3	50.5	47.4	52	50.1	68	57.2	54.6	55.4	53.5	53.4	53.4	53.9
31.1	48.9	46.2	52.5	52.8	51.6	55	65.4	61	56.3	63.6	57.8	55.2	55.5	51
32.7	45.9	48.4	45.7	49.7	52	55.7	58.6	60.8	54.9	57.3	64.9	53.8	51.8	54.5
31.9	43.7	46.8	48.8	51	54.4	54	57.4	58.9	51.3	54.7	56.9	54.9	52.1	56.5
30.5	42	41.7	51.9	48.3	52.6	56.9	60.4	62.7	56.8	58	54.2	55.3	53.7	51.9
30.4	44.1	50	46.5	53.1	53.5	51.2	60.4	64.8	56.3	58.2	53.8	52.2	51.9	52.8
29.7	41.6	44.9	46.2	47.2	46.9	44.1	60.7	62.3	57.3	57.2	52.1	51.5	53.2	51.6
30.2	44.1	48.2	47.5	46.9	49.8	48.6	61.9	54.6	57.7	57.4	58.6	51.9	52.7	54.9
41.3	45.8	45.8	49.9	47.4	46.9	48.9	61	53	54.6	58.9	60.4	55.6	53.6	55.3
37.6	51.4	49.8	46.5	46.9	47.3	50.1	61.5	55.6	52.7	60.3	60.9	56.5	52.1	55.3
34.4	38.7	45.7	40.8	50.8	51.5	54.8	59.8	55.7	60.7	59.3	56.3	56.6	52.6	53.1
32.6	48.1	48.8	55.8	54.3	50.1	56.3	55.4	54	61.9	61	59.2	53	51.3	54.7
31.2	43.9	47.9	52.3	48.2	49.3	56.7	56.9	53.4	62.2	60.5	60.3	50.9	50.6	52.5
30	44.1	54.5	50.9	50.4	44.7	56.1	55.6	56.3	61.8	61.2	58.2	50.8	52.4	50.4
29.3	45.5	47.4	49.2	46.9	48.9	56.7	58	52.7	60	61.3	57.8	52.3	50.5	51.9
28.8	47.1	48.6	48.5	45.4	50	56.9	60	55.7	58.7	62.4	59.5	50.8	53	52.9
28.6	48.3	50.9	52.1	44.8	48.8	58.3	59.9	55.6	59.8	59.2	57.1	51.1	52.6	52.1
28.6	44.2	42.7	50.9	53.1	49	55.5	58.1	57.7	58.7	59.9	56.7	49.1	51.1	51.9
28.5	49.7	47.5	45.9	49.3	47.9	55.8	56.5	62.8	60.4	60.8	54.9	48.7	48.8	52
28.5	46.6	51.5	47.9	49.9	51.2	56.5	56.4	56.1	60.4	61.3	56.6	49.4	47.8	52.2
28.5	53.4	49.8	49.7	48.6	50.7	56.3	55	53.3	60.8	60.9	54.9	51.1	49.7	52.4
28.5	46.5	48.4	46.2	51.2	53.3	56.4	57.1	52.7	60.3	59.2	50.7	51.1	50.8	51.3
28.5	47.8	50.9	47.5	50	49	57.7	60.3	55.7	61.2	61.6	55.8	51.3	51.9	51.3
28.7	48.3	49	48.2	43.6	49.3	57.8	58.6	58.4	58.7	61.1	57	51.5	50.2	51.8
28.9	43.3	46.9	50.3	50	55.1	57.5	60.2	56.1	61.1	59.3	52.6	55.3	50.7	51.5
29.2	41.2	49.8	44.1	48.6	52.6	57.3	58.4	59.7	59.4	56.4	56.5	54.5	51.1	53.5
28.9	40.7	47.2	50.2	50	50.4	49.7	51.9	62.8	53.8	52.3	58.9	56.9	50.1	48.5
28.7	47.5	47.8	49.4	53.1	50.6	50.5	60.3	63.6	53.4	55	59.6	57.5	51.1	45.5
28.6	51.6	47.1	51.6	51	48.2	54.2	61.3	60.4	54.7	57.8	54.5	60	49.1	47.5
28.6	40.7	48.3	52.5	46.8	48.2	50.9	62.7	60	53.4	56.7	58.5	53.1	50.9	46.4
28.5	46.7	46.1	46.8	49.4	51	52	60.6	55	56.1	56.9	55	50.3	47.3	47.1
28.5	42	49.1	50.4	49.4	49.2	59	56.9	56.3	64.2	55.8	54.1	50.6	48	46.4
28.5	45	46.5	46.1	49.4	47.9	60.2	50.4	55	59	57.6	51.2	51.8	52.4	48.9
28.7	40.7	46.5	43.7	50.9	50.7	56.5	59.2	60.2	57.1	54.1	51.2	50.8	48.6	50.6
29.1	45	48.4	47.8	50	55.8	51.1	64.7	61.8	50.8	56.5	55	53.1	49.4	48.1
29.3	47.4	47.8	46.6	54.4	52.2	50.8	61.2	55.3	52.1	60.6	50.7	53.9	49.1	49.8
29.3	49	51	49.6	50.2	50.1	53.7	62.5	54.4	56.4	60.9	53.8	50.9	49.5	48.1
28.9	47.6	48.7	60.5	59.8	53.9	46.4	62.9	55.3	55	61.2	56.1	53	49.5	48.1
28.7	52.8	52	52.3	45.8	52.1	59.8	66.2	54.8	55.1	59.6	51.9	51.5	52.9	48.3
28.7	50.3	52.9	46	53.9	53	51.9	64.7	55.4	56.4	61	52.2	52.1	50.1	45.1
28.7	49.5	47.9	53.1	50.2	48.1	51.4	64.4	55.6	58.9	59.8	52.4	53.6	49.2	46.5
28.9	46.3	50.3	45.1	53.6	51.7	54.7	65.4	57.1	54.7	59	53.3	56.7	49.4	44.2
30.4	42.3	45.8	44.3	50.7	53	56.3	66	54.8	54.8	60.9	50.4	54.2	52.9	47.5
29.4	43.2	44.3	51.6	52.4	50.2	48.7	63.6	57.4	52.5	60.6	53.8	49.4	50.6	49.1
29	41.4	50.3	45.2	50.2	51.8	51	64.7	55	51.8	57.6	53.2	52	51.3	46.6
28.8	47.6	54.9	44.5	47.8	53.6	49	63.6	52.6	49.7	59.2	52.1	52.3	49.3	46.8
28.7	45.7	50	46.6	47.6	48.6	51.9	63.7	54	50.5	57.7	54.1	50.8	48.2	45.5
28.6	46.5	49.7	51.6	53.9	53.5	51.6	64.2	58.1	52.6	58.8	51.7	51.3	48.8	46.5
28.7	46.1	47.2	46.9	50.1	51.1	49.1	62.2	55.3	53.9	60.7	54.8	50.5	45.7	43.9
28.6	44.8	43.8	46.7	49.9	54.7	55.7	65.4	55.1	51.6	58	49	50.5	48.6	45
28.6	37	44.5	58.7	65.8	64.5	48.8	63.4	55.3	51.2	56.1	52.1	49.6	47.8	45.2
28.6	48.4	52.2	61.3	59.5	48.6	48.5	65.1	55.9	51.2	58.2	52.8	51.4	48.7	45.9
28.6	52.4	58.3	50.7	53.7	50.3	50.6	63.1	56.5	52.8	57.8	52.7	51.9	50	44.3
28.7	59.2	53.6	48.3	52.5	46.9	49.3	63.8	56	52.5	55.9	56.1	52.2	50.6	44.3
28.6	52.4	49	46.5	55.2	48.5	47.2	63.9	57.3	49.6	55.5	51.3	51.1	47.9	47.5
28.6	49.8	48.3	44.8	51.8	55.5	51.7	63.9	56	54.4	56.8	51.6	54.3	49	50
28.5	52.2	48.6	51.1	48.2	55	49.3	64.1	56	52	53	53	51.9	51.3	49.5
28.5	48.6	42	51.4	51.5	51	49.2	63.7	55.6	52.2	55	52.8	50.8	49	50.3
28.6	39.7	51.6	43.6	49.5	50	48.2	63.1	55.3	49.7	55.1	50.2	51.3	49.8	49
28.6	40.7	50.3	45.7	47.1	45.2	49.1	64.3	51.9	51.7	57.4	52.2	50.6	49.7	50
28.7	48.5	49.9	49.8	50.6	47	48.9	63.1	52.8	52.2	55.1	53.6	50.2	51.6	48.8
28.5	46.8	42.7	52.9	47.2	46.8	47	63.2	50.6	50.7	56.4	53.4	51.5	49.9	50.2
28.4	46.5	52.2	51.3	53.8	51.1	48	63.3	54.3	54.3	52.8	51.4	51.6	49	51
28.5	50.2	54.1	49.9	44.5	48.5	45.1	63.4	52.1	54.4	55	52.8	49.6	48.6	50.7
28.5	55.2	55.2	50.8	47.2	47.4	49.3	62.7	52.5	53.1	55.4	52.1	50.2	52.2	49.4
28.5	54.9	53.1	52.6	51.3	49.1	48.8	63.9	54.3	50.1	53.9	52.2	57	51.4	50.3
28.5	63.5	54.8	50.6	52.6	54.7	50	63.2	53.3	51.5	55.1	54.4	56.6	53	50.3
28.5	53.5	52.3	49.1	48.4	47.1	48.3	63.5	54.3	53.3	58.6	54	55.4	48.4	46.6
28.7	56.6	57.5	45.4	47.8	52.4	53.9	61.3	58.8	53.7	56.7	50.5	54.5	45.7	46.7
28.6	58.6	52.6	49.3	49.7	55.7	49.5	62.9	56.8	55.2	57.5	53.4	50	47.1	47.1
28.6	52.7	49.6	49.8	54.1	52.2	57.6	66.2	54.6	53.4	57.2	52.5	50.4	46.6	46.1
28.6	50.5	52.9	54.3	52.2	56.4	53.5	63.9	52.3	52.8	56.9	52.8	50.3	45.6	46.3
28.6	55	48.1	51.4	50.9	49.5	48.4	63.3	55.1	52.8	56.1	52.1	52.4	47.1	46.1
28.6	51.2	51.3	47.3	50.2	50.6	58.8	69.4	57.1	51	57.6	49.6	50.8	47.3	47.1
28.7	52.7	52.6	45.3	49.9	49.2	55.4	64.5	53.3	51.7	57.5	50.7	48.8	46.6	45.8
28.6	56	58.4	50.9	50.7	50.1	46.4	62.7	59.6	52.2	55.8	49.2	47.3	45.8	45.2
28.6	49.2	49	51.1	53.2	49.2	49.4	63.9	56.5	56.6	57.3	50.2	48.5	45.2	47.3
28.6	51	52.5	48.8	48.6	49.4	52	62.5	55.8	50.3	56.4	50.7	48.6	49	47.3
28.7	47.3	47.1	49.9	54.3	51.7	49	64.6	54.8	51.9	55.9	50.2	49.1	47.3	46.4
28.8	51.3	47.6	47.8	51.3	52.2	49.1	63.5	54.3	51.7	58.4	49.1	48.8	48.5	45.6
28.8	47.1	48.8	56.2	48.7	50	50.2	62.9	53	52.4	58.8	49.8	48.3	47	44.9
28.6	50.7	48	46.3	44.9	50.7	49.4	63.1	53	52.4	57.1	48	48	47.4	46.4
28.5	50.2	49.4	49.3	48.1	49.3	52.9	62.3	52.2	51.6	56	49.7	46	45.6	48.1
28.5	49.6	39.9	46.8	49.2	46.8	52.1	62.6	53.2	53.9	58.7	51.4	49.1	46.6	48.4
28.6	49.1	46.1	47.4	49.5	48.6	47.7	63.4	51.7	55	58.3	50.3	50.3	49.4	49
28.6	47.2	46	44.8	49.4	50.5	52.9	62.9	59.6	53	58.5	49.1	50.2	48.7	46.8
28.6	39.6	45.6	48.3	45.2	51.4	49.9	64.8	56.9	51.2	57.2	49.5	50.5	51.1	48.5
28.7	40.4	44.9	45.4	42.1	49.9	51	64.1	56.9	54.2	58	55.3	49.3	48.4	52.8
28.6	36.4	46.5	45.7	45	48.1	49.9	64.2	54.7	57.1	56.1	56.5	52.2	52.6	49.6
28.6	44.5	46.2	47.8	46.9	49	54.1	62.6	53	53.2	56.4	56.9	52.8	49.8	50.4

NM2_KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125

28.5	51.3	47.2	55.6	50.9	52.8	50.3	63.1	55.9	54.9	57	58	50.4	48.3	49.1
28.5	54.2	50.6	55.9	51	52.9	51	65.3	56.4	54.2	58.4	55.9	52.2	49.9	46.4
28.5	50.1	51	51.1	52.5	48.3	55.9	63.6	55.9	51.8	58	53.9	52.1	48.4	46.6
28.5	50.3	54.9	47.7	50.5	52.5	54.7	63.2	54.2	52.7	57.5	52.3	51	49.3	46.7
28.5	49.5	48.6	48.9	52.8	53	49.3	62.7	57.9	51.4	59	52.2	51.8	50.5	45.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
51.3	53	47.6	50.2	41.7	41.2	37.7	37.7	39.8	36.7	36.3	35.5	34.1	32.7	31.2	28.6
50.5	51.6	46.6	45.2	41.1	41.5	39.2	37.6	40.5	37.5	38	36.6	35.2	35	32.7	36.8
52.8	47.3	45.2	44.4	40.1	41.6	40.4	40	41.6	39.6	40.7	38.6	37.6	39.6	35.4	41.1
50.5	46.9	45.7	46.1	42	44.3	41.3	40.9	42.7	40.9	39.9	38.9	37.6	36.7	37.3	36.3
49.7	46	45	46.9	42.1	44.1	40.2	39.3	41.6	39.7	40.1	38.7	37.8	36.6	34.9	33.1
50.1	46.7	45	45.9	43.3	43.4	39.2	41.9	42.6	41.7	41.4	41	39.9	39.5	37.3	33.8
51.7	49.2	47.2	48.2	46.6	46.5	43.5	45.7	45.4	45	44.8	43.4	43.2	42.8	42.2	39.5
53.7	50.7	50	50.3	49.4	49.3	49	49.4	49.4	48.8	48.6	47.5	46.7	46.4	45.4	42.5
51.1	50.7	50.4	50.5	50.3	49.5	48.5	51.1	51.1	49.2	48	46.8	45.5	45.8	44.6	42.6
53.1	51.6	52	49	48.3	47	46.8	48.8	49.9	48.4	46.5	44	41.7	41.7	41.2	39.1
52.9	49.7	48.9	46.8	45.2	44.6	43.3	46.8	49.5	46.7	44.6	41.1	37.7	36.8	35.7	34
50.1	50.7	49.3	45.3	44.1	43	42.3	45	48.6	46.1	43.4	39.3	37.1	36.7	34.5	33.2
51.5	49.9	48	46.3	49	44.1	42.7	43	45.5	43.4	40.9	37.2	36.8	36.2	33.5	32.7
54	50.3	46.5	45.8	48.4	45.7	43.9	43.1	44.9	42.6	41.2	38.2	37.4	37	35	33.3
53	50.7	47.9	47.4	48.4	45.3	46.7	43.7	44.7	42.7	43.3	39.3	38.6	37.2	35.4	34.7
53.5	50.4	48	50.6	49.9	48.3	46.3	42.8	43.7	42.7	40.9	38.1	37.3	35.8	33.3	32.3
52.4	48.1	50	50.5	48.2	47.3	47.5	42.5	43.9	42.2	39.7	37.3	36.9	35.9	32.7	31.7
54.1	46.1	46	48.1	46.9	42.8	43.2	40.5	43.6	40.4	38.3	35.8	34.7	34.5	32.2	30.7
55.1	44.5	45.6	47	47.8	40.2	41.8	39.8	41.3	39	37.5	35.1	34.5	33.8	31.5	29.9
54.3	44.3	45.2	45.8	48.3	39.6	39.7	38.3	40.7	38.3	36.9	34.1	34.3	33.1	30.8	29.5
54.6	45.1	44.1	45.3	48	41	39.8	37.5	40.6	37.6	36.3	33.1	32.9	31.8	29.8	28.2
53.4	45.1	45.5	45.1	47.1	40.8	38.1	36.8	40.1	37.1	35.2	32.8	32.9	31.7	29.5	28.4
53.9	44.4	43.8	44.5	46.9	39.8	37.8	36.7	39.8	36.6	35	32.4	33.2	32	29.8	28.6
53.2	46.8	44.4	44	46.8	39.7	37.7	37.7	40	38.1	36.7	35.8	35.5	33.1	30.7	28.7
54.1	44.1	43.9	44.5	46.6	40.1	37.7	38	39.7	37.6	35.8	33.8	33.9	32.9	30.1	28.5
51.9	42.3	42.6	43.9	47.2	39.1	38.6	38.1	39.8	36.3	35.4	33.3	33.4	32.7	30	29
51.1	42.5	41.5	43.4	47	40.5	39.9	38.6	39.2	36.8	35.3	33	33.3	32.4	30.1	28.8
51.8	43.6	42.9	44.2	46.9	39.8	38.5	38	39.4	36.4	34.9	32.8	33.7	32.7	30.4	29.1
53.8	43	42.3	44.6	47.1	40.8	39.4	37.8	39.8	37.1	35.8	35.1	34.2	33.3	33.5	33.7
52.7	41.8	43.1	43.9	46.8	41.1	39	38.2	39.3	38.5	36.7	35.6	35	33.2	31.5	30
52.1	43.8	42.3	42.7	44.9	41.3	42	39.2	40.6	38.7	37.2	35.8	34.9	33.7	31.8	30.5
53.6	44.1	43.5	41	45.4	42.6	40.5	40.5	40	38.3	37.9	36.2	35.2	33.8	32.1	30.7
48.7	44.6	43.8	39	37.1	38	39.4	38.4	39.6	37.1	36	34.3	32.8	32.6	30.1	29.2
46.4	44.6	42	39.5	40.2	40.3	39.3	39.2	40.3	39	36.8	35.9	33.7	33.6	30.9	29
46.4	44.7	43.8	39.6	39.7	38.6	38.6	37.2	39.1	36	34.8	33.1	32.2	32.4	30.5	28.2
45.3	42.2	41.1	37.7	38.4	37.4	38.1	38	39.4	37.3	35.1	33.7	33.7	32.9	32.5	29.6
44.6	43.2	40.8	37.6	36.3	36	40	37.3	39.4	37	35.1	33.2	34.1	31.8	30.5	28.5
44.3	42.2	39.3	38.6	36.9	36.9	39	38.9	40.5	37.3	36.1	34.4	33.8	31.5	29.7	28
44.9	43.5	44.7	42	41.3	42.4	44.1	45.4	42.7	40	39.2	37.9	36.5	34.3	32.6	30.3
45	43.8	46.2	42.9	41.3	41.2	42.9	44.3	43	40	38.1	36.2	35.4	33.9	31.8	30.5
49.6	44.4	46.7	48.6	43.4	42.1	45.8	46.8	45.5	40.5	38.6	38.2	36.7	35.3	33.5	31.7
49.5	47.1	45.6	46.7	42	39.3	41.6	41.2	40.6	38.1	37.1	35.5	34.7	34	31.8	29.2
45.4	44.3	43.2	41.1	40	40.2	40.2	39.3	39.3	38.4	37.9	35.8	35.4	35.1	32.9	31.4
46.2	43.8	42.5	40.1	38.8	38.5	39.5	39.4	38.6	38	35.9	34.5	34.1	33.5	30.9	28.8
46.4	44.4	41.4	39	38.6	39.9	40.6	39.8	38.1	37.7	36.3	34	34.3	33.9	31	29.5
45	43.9	42.4	39.6	38.9	40.6	41.2	40.4	38.1	38	35.5	33.9	33.8	32.9	30.6	28.8
46	42.4	40.3	38	38.1	37.8	39.5	39.9	39.4	39.6	38.5	37.1	35.1	34.7	32.3	30
44.9	40.4	39.2	38.7	38.3	38.9	40.1	40.3	40.6	39.9	40	39.4	38	37.4	35.8	34.2
47.8	42.9	40.9	44.5	43.5	43	42.3	45.2	44.6	44.2	44	44.4	45.4	45.4	41.5	39.2
50.7	43.2	41.2	41.3	41.2	41.7	41.3	41.8	40.7	39.8	38.9	38.5	37.2	36.7	35	32.6
44.8	44	43.2	38.6	39	40.1	40.9	41.1	40.3	38.2	36.7	37.5	35.5	35.7	34.5	34.1
47	43.1	40.9	38.2	38.5	37.3	36.9	38.2	36.7	35.1	33.3	33	32.1	31.7	30.1	29.6
43.7	40.1	39.6	37.1	37.4	35	35.6	35.9	36.4	34.6	32.7	31.8	31.5	29.9	28.1	27.6
43.6	39	39.3	35.4	35.5	34.5	34.1	34.9	35.5	34.7	31.6	31.9	32.1	30.2	27.8	27.1
43.4	38.3	37.5	35.2	36.1	35.4	36.4	37.4	36.3	34.3	33.7	34.6	35.7	37.6	35.8	33.3
43.3	38.1	37.3	35.3	35.8	34.8	34.2	34.7	35.4	35.4	32.6	30.3	30.1	28.1	26.1	26.1
43.8	38.8	37.9	35.3	36.4	35.4	35.3	34.9	36.3	34.8	32.8	30.3	31	30.9	26.4	26.4
43.3	39.6	37.8	35.6	34.7	34.9	37.1	36.4	36.2	36.3	33.6	30.4	30.5	29.2	26.8	26.3
43.7	39.2	35.8	35	34.3	34.4	36.9	36.5	38.1	36.3	35.8	33.7	31.9	29.9	28.3	28
45.2	41.2	36.7	35.4	35.8	34.9	36.6	37.8	38.7	37	36.2	32.1	31.3	29.6	28.5	27.2
45.1	39.1	38.5	36.3	37.7	37.1	37.8	39.6	39.4	38.5	39.2	37.4	36.2	35.2	33.7	30.7
44.6	39.5	37.7	36.5	35.8	35.5	37.4	38.5	38.3	37.5	35	32.2	30.6	29.2	27.5	26.3
46.8	40	38.5	36	35.4	34.5	36.7	38.8	38.2	37.2	35.5	32.4	30.6	29	28.2	28.2
45.9	38.5	38.1	35.4	34.6	34.3	35.6	37.2	37.9	36.9	35.2	31.6	30.3	29.2	28.2	26.4
45.9	40.2	37.5	35.8	35.8	34.9	35.5	36.6	36.7	36.3	35.6	32.2	31	30.2	29.7	28.2
45.1	40.3	38.5	35.6	35.1	35.6	36.2	35.5	36.4	35	35.1	33.9	35.5	36.1	34.1	32.5
44.2	39.2	38.9	38.7	36.3	36	35.3	35.2	36	34.8	34	32.1	30.6	29.4	27.8	26.2
44.9	40.1	38.3	34.1	35.6	36.5	35.9	34.8	35.4	36.6	34.4	31.2	30.6	29.1	26.7	25.5
43.8	39.8	37.6	34.1	34.7	34.2	36.3	34.7	35.5	35.1	33.3	31.6	30	29.3	27	26.2
44.4	37.3	38.5	36.3	38.4	36.8	35.8	35.2	36.1	34.1	34	32.4	30.8	29.9	27.9	26.9
45.6	39.3	39	37.5	41.1	38.1	36.1	36.6	36.6	34.8	34.3	33.1	31.9	30.6	28.7	27.5
45.9	42.5	40.3	38	38.9	37.8	36.2	37.3	36.5	35.2	36.3	34.7	32.9	31.1	29.4	27.9
44.9	40.4	39.8	37.2	36.7	37.2	36.5	37	35.9	34.8	35.3	33.6	31.9	30.7	28.6	27.9
45.4	41	40.2	38.2	36.4	37.3	35.7	36.5	35.7	35.3	35.5	32.6	31.9	30.2	28.5	27.4
44.1	41.9	39.3	36.3	37	37	36.4	36.2	37.2	36.4	35.2	33.3	31.8	31.1	29.6	28.7
45.8	42.5	39.5	35.3	36.6	34.4	34.9	33.9	34.8	34	32.3	31	30.2	29.7	27.6	26.8
42.7	39.2	37.5	35.2	35.4	31.8	33.9	33.8	34.9	33.2	31.9	30.5	29.6	29.2	27.1	26.3
42.6	40.2	38.7	35.2	35.9	32.9	34	34.3	34.8	33.6	32.4	30.8	30	29.1	26.9	26.1
44	38.6	37.4	36.6	35	33.8	34.2	35	35.3	33.5	31.6	31.4	31.2	30.6	27.6	26.6
42.7	39.2	35.5	34.5	34.2	32.3	33	34.7	34.3	33.5	31.7	30.4	29.4	29.3	26.9	26.8
43.6	38.8	37.5	35	35.1	35.5	33.9	34.2	35.4	34.1	32.7	31	30.8	30.2	27.5	26.6
43.4	39.4	37.6	35.1	35.1	35.3	36.9	34	34.6	35.2	33.7	31.5	30	29.2	27.3	26.7
43.2	40.5	37.8	35.5	36.3	34.5	37.2	33.6	35.2	35.3	33.5	31.1	31	29.2	27.4	26.6
43.4	40.8	36.5	36.3	35.5	34.7	34.6	34	35.2	35	33.7	32.2	31.2	29.9	27.7	27.9
42.2	39.1	36.7	35.1	36.2	34.6	36	34.5	35.9	36.7	34	32.6	31.3	30.6	29.6	28.7
43.3	39.1	37.7	34.1	36.1	36	36.3	34.7	36.3	35.3	33.9	31.8	30.4	29	27.3	25.9
43.7	39.7	36.8	34.8	35.1	34.1	33.6	34.8	35.3	34.1	33.1	31.1	30.2	29.2	27.7	27.4
42.9	40.7	37.7	36.1	37.1	35.6	35.1	34.8	38.1	36.7	38	32.6	31	29.1	27.1	25.8
44.2	42.9	38	35.8	35.7	35.7	35.8	35.7	35.7	35.4	34.4	31.5	30.4	28.3	26.7	25.3
44	45	39.5	37.8	37.6	36.3	37.3	35.3	36.6	36.4	35.5	33.2	33	31.5	30.3	28.9
43.5	43.6	39.6	38.1	39.2	38.8	38.8	35.9	35.9	35.3	33.5	31.1	30.6	29.7	27.7	26.7
43.4	40.8	39.4	37.5	39.3	37.7	39	38	38.1	36.3	36.1	35.9	35.3	33.3	32	30
44.2	42.2	40.8	38.6	39.7	39.6	39	38.3	38.1	36	34.8	33.9	33.7	32	30	28.2
45.4	42.5	42.7	41.1	46.7	43.2	41	41.4	40.2	39	38.1	36.7	36.5	34.6	33	30.9
44.2	42.4	41.9	40.2	41	40.7	38.8	39.1	39.6	38.1	37.5	36.4	36.8	33.6	32.5	31.2
44.8	44.9	42.6	41.9	41	41.2	40.3	39.6	40.4	38.8	38.8	38.9	36.5	35	32.4	30

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
45	43	40.7	37.4	40.2	38.5	39.7	38.4	38.3	37.9	36	33.3	32.6	30.9	29.3	27.9
44.9	41.6	39.8	36.5	37.6	36.7	37.4	38.9	36.2	36.8	36.8	32.1	30.5	29.5	27.5	26.1
44.3	41.2	39	35.4	34.6	34.8	37.3	35.8	36.3	35.8	36.1	32.8	31.4	29.7	27.4	26.4
42.4	41.1	38.5	36.2	35.5	35.3	37.6	35.1	36.4	36.8	34.9	32.1	30.3	29.2	27.2	26.3
44.7	41.8	37.3	36.3	37.5	35.4	38.3	34.5	36.7	36.8	35.4	35.2	33.5	33.7	29.4	26.5

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
27.4	25.3	23.5	23	23.8	24.7	63.8	59.6	56.3	48.9	50.4	52.6	66.1
28.2	26.2	24.5	23.5	24.2	25	61.3	57.4	54.3	48.4	48.8	51.2	67
31.1	28.4	25	23.7	23.8	24.7	57.5	55.8	51.1	48	48.6	50.8	66.6
30.6	28.3	25.7	23.7	23.8	24.6	54.1	53.9	48.8	49.9	50.5	50.2	66.5
31.5	28.7	25.4	23.9	24	24.6	50.7	51.6	49.5	48.6	50.2	50.7	65.7
32.3	30.6	26.7	24.8	24.1	24.8	50.2	51.1	48.7	49.5	47.9	50.7	66.2
38.8	38.1	33.3	28.5	25.6	24.9	49.2	49.2	49.9	49.6	51.2	50.8	67.5
42.2	40.9	36.5	31	27	25.3	48.6	48.1	52	52	51.2	54.4	67.4
41	39.7	35.6	30.5	26.9	25.4	48.7	48.3	51.8	51.9	52.1	56	65.9
37.6	35.4	31.7	26.9	25	27.4	46.9	48.1	49.9	51.3	54.1	54.8	62.7
32	29.9	27.4	25.2	24.1	24.9	45.1	46.8	51.4	51	53.9	56.3	60.9
30.8	28.8	26.6	25	24.1	28	44	49.1	50.4	52.6	53.3	56.8	60.8
29.8	27.6	25.3	24.5	23.9	24.6	43.9	49.1	48.4	52.8	53.2	53.4	61.1
30.5	28	25.7	48.7	30.4	24.6	43.7	47.9	48.2	49.8	50.3	49.9	61.8
32	29.2	26.8	27	24.3	28.9	45.7	47.7	49.9	48.2	50	49.7	62.1
29.7	26.9	24.9	23.9	23.9	28.8	50.4	49.2	49.9	48.1	48.1	49.7	61.7
29.3	26.3	24.5	23.6	23.8	26	49.5	49.2	48.2	50.2	50.8	54.4	61.4
27.9	25.7	23.8	23.3	23.8	30	47.9	48.4	54.8	53.4	50.9	55.2	59.9
27.5	25	23.7	23.3	23.7	28.6	47.9	49.4	54.1	52.6	50.7	56.9	58.8
26.8	24.5	23.7	23.5	23.8	26.5	45.7	52.9	53.1	51.1	49.7	56.4	57
26	24	23	23	23.6	24.6	46.1	52.6	51.9	50.4	48.6	56.8	57.6
25.7	23.9	22.9	23.1	23.8	24.5	46.6	50.1	50.8	48.2	49.7	57.2	59.5
26	23.8	22.9	23.1	23.7	24.6	48.3	50.7	51.8	46.9	49.6	57.9	60.3
26.2	24	22.9	23.1	23.7	24.6	48.3	49.9	51.7	51.6	49.6	58	59.6
27.2	24.1	23	23	23.6	24.6	49	48	51.8	51.9	49.5	56.7	58.8
28.4	30.7	23	23.2	23.6	24.5	48.4	51.1	48.9	50.9	50.6	56.6	57.9
26.7	24	22.9	23.1	23.6	24.6	51.9	50.2	49.8	50	50.9	56.8	56.9
26.8	24.7	23	23.1	23.8	24.6	51.7	50.2	49.6	51	53	56.9	57
32.2	27.3	26.2	24.5	24	24.6	48.9	50.7	48.1	50.5	52.5	57.5	59.8
28	25.9	24.6	23.7	24	24.7	49.2	50.6	48.3	50.3	50.3	58.6	60
28.5	27.1	26.2	24.9	24.5	24.8	47.9	49.3	50.4	49.9	54.3	57.7	60.5
29.1	27	25.7	24.7	24.3	24.8	45.6	49.7	48.7	49.3	53.1	57.8	59.6
26.7	24.8	24.1	23.6	23.9	24.7	43.2	49.9	49.2	49.8	53.2	57.4	59.1
26.8	24.9	23.6	23.1	23.9	24.4	46.6	48.8	49.6	52.4	51.8	54.2	59.6
26	24.1	23.3	23	23.7	24.5	50.7	47.7	51.3	53.3	50.6	54.3	60.7
26	24.3	23.1	23.2	23.8	24.6	49.8	48.4	53.4	51.1	49.8	53.9	62.5
25.6	23.3	22.6	22.9	23.6	24.6	47	48.1	51.3	50.1	50.5	52.8	62.3
25.6	23.5	22.9	22.9	23.6	24.5	46.5	48.6	50.8	49.7	51.6	58	61.5
27.8	25.3	23.8	23.5	23.8	24.6	44.9	48.7	49.2	50.9	49.7	59.4	58.8
29.5	27.5	25.9	25.1	24.7	24.7	44.6	47.1	48.4	51.3	50.3	59.6	58.4
29.9	27.4	26.9	26.6	25.1	25.2	45	48.2	47.7	50.4	54.9	57.6	63.4
27.6	25.9	24	23.6	23.9	24.7	47.1	48.6	47.1	53.4	54.9	54.7	63.4
29.5	28	26.2	25	24.6	24.8	48.7	50.4	48.8	53.5	53.3	54.1	62.6
27.1	25.1	23.3	23.3	23.7	24.5	47.8	50.4	59.2	58.6	54.5	53.4	62.9
27.5	26.1	23.7	23.2	23.7	24.6	52.1	52	59.2	57.4	52.9	58.8	65.3
27.4	26	24.3	23.4	23.9	24.6	52.1	52.9	56.1	54.1	54.1	58.9	65.3
27.5	26	24.7	24.2	24.2	24.9	51.2	52.1	53.2	53.9	52.5	55.7	65.2
33.3	31.2	31	30	27.9	25.7	49.8	50.6	53	53.8	51.6	55.2	65.5
36	34.4	28.8	26.5	24.6	24.7	48.2	50.6	49.9	52.8	52.8	57.2	65.9
28.6	27.8	23.8	23.3	23.6	24.5	45.2	48.3	50.9	52.6	52.4	54.5	66
29.8	27.7	24.6	23.7	23.8	24.6	44.1	49.7	50.5	52.4	52.7	51.8	64.7
26.5	24.6	23.4	23.2	23.9	24.6	46.9	53.6	47.8	50.4	53.6	51.7	64.6
24.7	23.7	23.1	23.4	23.8	24.6	48.1	53.2	46.7	49.5	52.5	51.6	63.9
25	24	23.5	23.1	23.8	24.6	46.9	51.7	51	53.2	53	52.3	64.4
31.2	28.3	25.8	24.2	24.3	24.6	47.7	50.7	51.3	53.1	53.1	51.2	64
23.5	22.8	22.7	23.2	23.7	24.5	46	48.7	48.6	52.4	54.6	55.2	64.7
23.9	22.9	22.8	23.1	23.7	24.6	45.6	45.9	57.6	64.3	63.2	54	64.7
24.2	23.1	23.3	23.2	23.7	24.6	47.5	51.3	60.8	64.4	61.8	51.6	64.8
25.9	25.4	23.7	23.7	23.9	24.6	52.1	57.3	59.6	61.7	58	50.8	64.8
24.7	23.2	23.4	23.4	23.8	24.6	58.2	56.8	56.2	58.4	54.9	50.9	64.1
26.8	25.8	24.2	23.5	23.9	24.6	56.8	54.8	53.1	55.6	51.7	49.7	64.2
23.9	22.9	23	23.1	23.7	24.6	54.6	52.3	50.2	55.4	54.5	50.6	64.7
25.3	23.3	22.9	23	23.7	24.5	52.6	50.3	50.7	53.3	55.8	51	64.2
23.8	22.8	22.8	23	23.8	24.7	52.7	49.1	51.3	51.6	54.4	50.4	64.3
25.1	23.7	23.5	23.4	23.8	24.7	50.1	50.6	51.1	51.8	52.9	49.7	63.6
29.2	27.4	24.6	23.6	23.9	24.6	46.5	50.6	48	49.7	50.8	49.1	64.1
24.1	23.2	23	23.2	23.7	24.6	47.9	50.3	49.6	50.4	48.6	49.5	64
23.1	22.4	22.4	22.9	23.6	24.5	48	49.9	52.6	49.9	48.4	49.6	63.5
24.9	23.1	22.7	22.9	23.6	24.5	47.5	51.6	52.6	52.8	50.7	48	63.7
24.5	23	22.9	23	23.7	24.7	49.8	53.8	52.2	52.5	50	47.9	63.9
25.4	23.9	23.2	23.1	23.8	24.6	53.9	55.1	51.1	49.3	49.4	48.4	63.3
26.3	24.6	23.2	23.2	23.7	24.5	55.2	54.8	52.6	51.1	49.9	49.5	63.7
25.4	24	23.1	23.1	23.9	24.6	62.1	54.7	51.5	52.2	53.1	50	63.6
25.4	24.2	23	23.4	24	24.6	61.8	54.8	51.6	52.4	53.2	49.8	63.5
26.8	25.3	23.8	23.3	23.8	24.7	58.5	57.1	49.6	49.9	52.2	53	63.4
24.8	23.9	23.1	23.1	23.6	24.6	58.5	57.4	49	49.8	55.5	52.7	62.7
24.3	23.5	23.2	23.4	23.8	24.5	58	54.4	50.7	52.9	53.8	57	65.6
24.6	23.3	23.3	23.2	23.9	24.8	55.3	53	53.1	53.3	56.2	56.9	65.2
25	23.2	23.1	23.2	23.6	24.6	54.8	53	53.3	52	56.1	54.8	64.4
25.1	25.1	23.4	23.6	23.9	24.6	54.1	51.3	51.8	51.5	53.1	58.5	68.8
24.8	23.4	23.4	23.4	23.8	24.5	53.1	53.3	49.1	50.6	51.7	58.9	68.5
25	23.1	23.2	23.3	23.7	24.7	55.3	57.2	50.5	51.1	51.5	56.3	66.5
24.6	26.7	23.3	23.1	23.8	24.5	54.5	57.2	51.2	52.7	49.7	52.7	64.5
25.5	24.6	23.7	23.6	23.8	24.6	52.1	53.7	51.3	52.8	49.9	52.1	64.3
27	25	24.2	24.1	24.1	24.7	51.7	53	50.1	53.8	51.8	51.2	64.2
24.3	23.1	23.1	23.4	23.9	24.6	51.4	50.4	50.1	53.7	52	49.9	64.2
25.9	24.5	24.2	24.3	23.8	24.6	50.1	49.6	55.1	52.7	51.6	50.2	63.8
24.1	22.8	22.8	23	23.6	24.5	50.3	48.7	55	50	51.3	50.2	63.3
24.1	22.7	22.7	23.1	23.7	24.4	50.5	49.4	51.5	48.5	51	52.2	63.5
26.3	24.5	23.6	23.2	23.8	24.6	50.3	48.7	50	49.3	49.6	53.1	62.6
24.9	23.6	23.1	23.2	23.6	24.7	50.8	46.3	48.3	49.9	49.1	51.2	63.2
27.4	25.2	24.2	24	23.9	24.5	49.4	46.5	48.1	50.1	50.2	52.3	63.1
25.3	23.9	23.2	23.2	23.7	24.6	47.6	46.9	48.1	49.3	51.3	52.4	64.6
27.2	25	23.5	23.3	23.9	24.6	44.5	45.4	47.2	47.3	51.4	51.4	64.6
27.2	24.8	23.4	23.2	23.7	24.5	42.3	46.5	46.9	45.2	49.9	51.1	64.4
26.6	24.4	23.3	23.3	23.6	24.6	43.5	46.9	47.6	46.4	49.6	53.2	64.1

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
25.5	23.6	23	22.9	23.7	24.5	50	47.3	53.8	50.3	51.9	53.5	63.3
24.1	22.9	22.6	23.1	23.7	24.6	53.3	50.1	55.2	50.7	53.5	51.6	64.8
24.1	22.8	22.7	22.9	23.5	24.6	53.3	51.5	54.9	52.7	52	54.9	64.6
24.1	22.9	22.7	22.9	23.6	24.5	51.8	54.2	53	51.3	51.9	55.6	64.2
24.4	22.6	22.8	23.3	23.8	24.7	50.6	53.4	50.3	52.6	53.1	54.4	63.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
54.1	53.3	54.8	53.6	53.2	52.9	54	50.5	51.8	46.8	48.1	41.2	40.6
57.6	54.8	54.6	53.1	52.6	53.6	53.9	50.8	52.4	47	48.2	41.3	41.5
57.7	58.9	58.8	51.6	52.1	53.2	53	52.2	51.4	46.7	46.4	41.2	41.6
55.8	57.4	58.5	52.4	52	53	52.9	52.2	49.2	45.9	46	41.6	43.6
56.1	58.3	56.7	52.9	52.2	52.1	52.5	51.1	48	46.1	46.9	42.1	44.1
58.3	58.3	57	51.8	52.9	52.7	53.7	51.2	47.1	45.4	46.6	42.8	43.9
58	57.4	57	53.3	53.3	53.4	54.1	51.7	48.7	46.8	47.7	46	46.1
60.9	56.7	62.5	57.5	54.7	55.4	54	53.2	50.2	49.3	49.6	48.3	48.4
60.8	55.9	62.6	63.5	54.9	54.4	54.4	52.9	50.7	50.1	50.5	49.7	49
60.5	55.8	59.6	63	54.7	53.4	56.2	52.8	51.6	51.7	50.3	50	49.1
62.4	56.2	58.5	60.4	55.7	53.4	55.5	54	50.8	51.4	49.1	48.5	47.7
64.1	56.7	58.2	57.5	54.8	53.4	54.2	52.3	50.7	50.1	47.8	46.6	45.9
64.3	57.1	58.5	55.8	53.4	53.5	53.1	51.5	51	49.4	46.6	48.1	44.5
62.7	58.2	57.5	58.1	53.2	52.9	54.3	53.2	50.5	48.8	46.4	48.4	45.5
59.3	57.1	58.9	60.1	54.8	53.4	55.3	53.2	51	48	47.2	48.5	45.6
56.8	55.9	59.8	60.8	56.5	53.3	56.1	53.7	51.3	48.2	50	49.8	47.5
56.7	60	59.9	60.3	56.5	53.2	54.9	53.2	50.5	49.3	50.5	49.5	47.6
55.8	61.8	60.8	59.2	56.2	53.2	54.4	53.8	49	49.3	50.5	48.7	47.2
55.2	61.8	60.7	60.3	54.5	51.9	54.5	54.7	47.3	47.4	49.1	48.2	44.9
55.7	61.9	61.2	59.9	52.4	52.4	53.2	54.7	45.7	46.5	47.7	48.3	42.6
55.2	61.9	61.6	59.5	53	52.1	52.1	54.7	45.6	45.6	46.5	48.3	41.1
55.5	60.5	62.3	59.4	51.8	52.4	52.7	54.4	45.2	45.3	46	48.3	41.1
56	60	61.8	59.3	51.9	52.9	53	54.1	45.3	45.4	45.5	47.5	40.9
57.6	60	60.8	57.6	50.9	52.4	52.5	53.9	46	44.8	44.8	47.2	40.2
61.5	60.1	60.6	57	50.1	51.6	52.5	54	46	44.4	44.5	46.9	40.1
61.4	60.7	61.1	56.6	49.8	50.5	52.2	53.9	44.8	44.1	44.6	47.2	40
58.7	60.7	61.6	56.3	51	49.5	52.7	52.7	43.5	43.2	44.3	47.1	40.4
56.2	60.7	60.8	55.3	51.1	50.8	52.4	51.9	43.6	43	44.2	47.2	40.3
55.4	61.2	61.4	55.2	51.6	51.4	51.9	53.2	44	42.7	44.5	47.2	40.5
58.3	60.9	61.6	56.8	51.6	51.9	51.9	53.5	43	43.1	44.4	47.1	40.9
57.1	60.6	61.1	56.1	55	51	52	52.6	43.4	43.3	44.3	47.2	41.3
59.6	61.2	60	56.3	55.5	51.6	53	53.8	44	43.5	43.1	46.7	42.2
61.9	59.4	57.8	58.7	56.7	51.2	52.7	53	44.5	44.1	42	44.9	41.9
63.7	56.8	55.8	59.9	57.6	51.4	50.7	50.7	45	43.5	40.4	41.7	40.6
62.4	55.3	57.3	58.9	59.3	50.7	48.2	48.7	44.7	43.9	40	40.9	40.5
61.6	54.8	57.3	58	59.1	51.5	48.6	47.2	44.6	43.1	39.8	40.4	39.4
60.4	56.3	57.5	57.9	56.4	50.3	47.4	46	43.5	42	38.5	39.1	38.2
57.7	62.9	57.3	56.2	53.6	48.7	47.4	45.3	43.6	41.2	38.6	37.6	37.2
56.7	62.1	57.5	55.3	52.2	51.8	48.5	45.1	43.4	44	40.9	40.2	41.3
59	60.4	57.4	52.9	52.6	51.1	50.1	45.1	43.7	45.7	42.5	41	41.6
60.9	58.2	56.6	54.4	52.6	50.2	50	49	44.5	46.6	47.9	42.7	41.9
60.9	55.2	59.6	53.9	54	50	49.8	49.6	46.4	46.3	48.6	42.6	41.8
58.2	55.9	60.6	53.5	53.2	50.2	49.4	49.2	46.3	45.6	46.9	42.3	40.6
56.8	55.8	61.6	56.1	53	49.7	49	47.3	45.2	44.7	44.2	41.3	40.7
56.1	55.8	60.7	54.8	52.6	52.3	48.8	47	44.8	43.1	42.1	39.9	39.8
55.6	56.6	60.9	53.6	52.2	52	48.2	46.4	44.3	42.4	40.4	39.3	40.6
55.7	58.3	60.8	52.8	53.4	51	46.8	46.1	44.3	42.5	40	39.1	40.2
57	58.2	60.1	53.7	55.8	50.3	46.4	46.4	43.1	41.1	39	38.6	39.1
56.5	56.3	60.8	52.7	56.4	52.5	46.8	47.5	42.7	40.7	43.1	42.7	42
57.2	55.6	61.5	53.5	54.4	51.8	48.7	50.3	43.2	41.2	43.2	41.8	42
56.8	53.9	60.5	54	52.2	51.7	48.5	49.6	43.8	42.5	41.8	41.3	41.5
55.5	52.7	59.7	53.3	52.7	51.1	47.5	47.8	44	42.5	40.4	40.2	40.5
54.5	50.9	59.5	54.1	52.3	50.2	47.2	47.1	43.2	41.5	39	39	38.8
57.2	52.5	59.1	54.1	51.7	49.6	47	45	41.6	40.6	38.1	38.1	36.8
57	53.8	60.7	54.4	51.5	48.6	46.1	44.3	40.2	39.7	36.8	37.2	36.4
55.8	53.6	60.3	54	51.3	48	45.1	44.3	39.5	38.6	35.7	36.6	35.2
56.3	52.5	58.6	52.5	50.6	48.2	45.6	43.9	38.7	38	35.5	36.3	35.5
56.6	52	58.2	52.6	51.4	48.7	46	44.1	39.5	38.1	35.7	36.3	35.4
56.3	52.9	58.5	53.2	52	50.2	45.8	44	39.5	37.8	35.5	35.3	35.2
56.6	52.8	57.9	55.5	52.3	50.3	45.3	44.9	40.6	37	35.6	35.7	35.1
57.1	52.3	56.7	54.8	51.7	50	46.7	45.1	40.6	38	36.1	37	36.8
57.4	53.3	56.6	53	53.7	49.3	49.1	45.2	39.8	38.1	36.4	37.1	36.3
56.6	53.3	56.5	53.3	53.3	50.8	49.8	46.2	40.1	38.5	36.6	36.2	35.8
56.3	53.5	55.5	53.4	52.9	51.3	50.2	46.3	40.2	38.6	36.3	35.7	35.2
56.2	52.2	55.2	52.7	51.8	50.4	50	46.2	40	38.2	35.9	35.7	35.1
55.9	51.4	56.7	52.3	51.5	49.7	50.3	45.9	40.4	38.4	36.2	35.8	35.8
54.1	52.1	56.6	53	50.9	51.2	49.9	45.4	40.2	39.2	38.9	36.2	36.4
53.1	51.8	56.5	53.6	51.8	51.1	50.1	45	40.3	39	37.3	36	36.7
53.5	53.6	55.8	53.2	51.7	50.3	50.8	44.8	40.4	38.4	35.5	36	36.3
53.5	54.2	54.9	53	51.5	49.7	51.3	44.5	39.9	38.5	36.1	37.8	36.8
53.2	54.8	55.8	52.5	51.1	51.3	50.6	45.3	39.3	38.9	37.2	40.4	38.1
54.2	53.3	54.7	52.6	55.6	51.8	50.7	45.9	41.4	39.9	37.6	40.7	37.8
54.8	52	55.2	53.9	56.4	52.7	50.6	45.9	41.4	40.3	37.8	39.3	38
54.4	53.5	58	54.8	56.2	52.5	50.2	45.7	41.2	40.3	38.3	37.9	37.4
57.8	54.1	57.1	53.6	56.7	50.1	48.1	45.3	41.9	40	37.7	37.2	37.7
58	54.9	57.7	53.2	54.8	47.8	47.5	45.7	42.6	40	37	37.1	37
57.1	55	57.6	53.2	52.4	47.4	47.5	45	42.1	39.5	36.1	37.1	35.7
55.7	54	57.6	53	51.5	47.1	46.9	43.8	41.4	38.7	35.6	36.1	33.6
55	53.4	57.4	52.8	52	46.9	46.7	43.7	40	38.6	36.7	36.2	33.8
56.6	52.8	57.5	52.7	52	47.5	46.9	44.1	39.3	37.8	36	35.4	33.5
56.1	52.4	57.5	51.2	51	47.9	46.6	43.8	39.4	37.4	35.2	35.2	35.1
58.8	52.7	57.5	51	49.8	46.8	46.2	43.7	39.5	37.5	35.3	35.2	35.7
58.4	55.9	57.4	50.6	49.4	46.1	46.8	43.7	40.1	37.9	35.5	36.1	35.1
56.7	54.9	57.4	51	48.7	48.5	47.3	43.6	40.7	37.8	36.2	36	35.2
56.5	52.8	56.7	51.2	49.5	48.5	47.6	43.4	40.3	37.5	36.1	36.2	34.9
55.5	52.5	57.9	50.1	49.4	48.7	46.6	43.6	39.6	37.6	35.6	36.4	35.5
55.1	52.5	58.5	50.1	49	48.1	46.1	43.6	40.2	37.3	35.1	36.1	35.3
53.5	53.3	58.5	49.9	48.9	47.8	46.2	43.5	40.4	37.7	35.9	37.1	35.5
53.7	52.5	57.4	50	48.1	47.8	47.8	44	42.2	38	36	36.3	35.8
53.6	53.3	58.1	51.4	48.7	46.9	48.3	44.2	44.1	39.2	37.3	37.4	36.2
53.1	54.7	58.5	50.9	50.3	48.4	48.9	44.2	44.3	39.9	37.9	38.7	38
58.4	54.5	58.6	50.1	50.4	49.2	48.8	43.9	43.7	40.2	38	39.2	38.2
57.9	53.3	58.3	49.7	51.2	50.6	48.7	44.4	42.6	40.5	38.4	39.7	39.2
57.5	54.3	58.2	54.5	50.2	50.4	51.6	45.3	42.7	42.2	40.4	45.7	42.1
57	56.6	58	56.2	51.5	51.9	51.6	45	42.8	42.3	40.5	44.9	41.9
55.8	56.2	57.1	56.8	52.6	51.5	51.1	44.8	44.5	42.5	42	42.8	41.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
55.5	55.3	57.2	58.2	52.5	50.7	50.6	45.3	44.5	42.2	41.5	42.1	41.3
56.4	55.3	58.2	57	52.4	50.1	49.5	45.1	43.8	41.5	39.4	40.7	39.5
56.7	54	58.3	56.6	52.9	49.8	47.9	45.3	42.4	40.6	37.8	38.9	37.9
56.1	54	58.7	54.8	51.6	49.3	47.3	44.5	42	39.5	36.8	36.8	36.1
57.4	52.9	59	53.7	52.3	50.5	46.7	44.2	41.8	38.8	36.4	37.2	35.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
37.4	37.7	55.5	36.4	36.3	35.1	33.7	35.3	31	30.6	27.6	26.1
38.8	37.9	53.1	37.2	37.5	36.1	34.8	35.2	32.3	36.1	28	26.1
39.9	39.2	49.2	38.8	39.8	37.7	36.8	38.8	34.5	40.3	30.1	27.9
41	40.3	46.1	40.2	40	38.6	37.4	37.6	36.6	40.2	30.7	28.2
41	40.3	44.3	40.2	40.2	38.8	37.8	37.2	36.5	38.2	31.5	28.8
40.6	41.4	43	41.2	41	40.3	39.3	38.6	36.8	35.9	32	30.1
43	45	44.8	44.3	44.2	42.9	42.6	42.2	41.4	38.9	37.9	37.2
48	48.5	48.5	47.7	47.4	46.3	45.7	45.3	44.3	41.5	41	39.8
48.6	50.5	50.4	49	47.9	46.7	45.9	45.7	44.6	42.3	41.1	39.9
48.5	50.2	50.5	49.4	48	46.6	45.4	45.5	44.3	42.2	41	39.7
47.1	49.3	50.1	48.3	46.8	45	43.3	43.3	42.4	40.2	38.8	37.2
45.1	47.7	49.8	47.4	45.4	42.9	40.6	40.4	39.4	37.3	35.8	34.1
43.5	46	48.8	46.5	44.2	41	38.7	38.5	36.9	35.2	33.3	31.5
43.8	44.3	46.9	44.8	42.3	39	37.7	37.3	35.2	33.8	31.4	29.5
46	44	45.8	43.6	43	39.1	38.2	37.3	35.7	34.7	32.1	29.2
46.3	43.8	45.3	43.1	42.6	39.1	38.2	37.3	35.2	34.2	31.6	29.1
47.2	43.3	44.4	43.1	41.6	38.5	37.5	36.3	34	33.1	30.5	27.8
47	42.5	44.3	42.2	40.4	37.6	37.1	36.1	33.4	32.3	29.8	26.9
45	41.2	43.6	41	39.2	36.5	35.7	35	32.7	31.3	28.6	26.1
43.1	40.5	42.3	39.8	38.2	35.7	35.1	34.4	32.1	30.6	28	25.5
41.2	39.2	41.3	39	37.4	34.8	34.6	33.6	31.3	29.8	27.2	24.8
40.4	38.1	40.9	38.1	36.7	33.9	33.6	32.6	30.5	28.9	26.5	24.4
39.1	37.5	40.3	37.4	35.9	33.3	33.3	32.1	30	28.6	26.1	24.1
38.4	37.6	40.3	37.8	36.4	35.3	35.3	32.8	30.4	28.8	26.2	24.1
38.1	38	40.1	37.9	36.4	34.9	34.7	33	30.4	28.8	27.1	24.1
38.4	38.4	40	37.6	35.9	34.2	34.2	32.9	30.2	28.9	28.2	29.9
39.5	38.4	39.9	36.9	35.7	33.7	33.7	32.7	30.3	28.9	27.6	28.4
39.4	38.5	39.6	36.8	35.4	33.4	33.6	32.7	30.4	29	27.1	26.1
39.4	38.3	39.8	37.1	35.6	34.8	34.2	33.5	33.4	33.5	32.1	27.5
39.4	38.2	39.7	38.2	36.5	35.3	34.8	33.3	32.4	32.2	30.6	26.5
41.4	38.9	40.4	38.5	37	35.7	35.1	33.7	32.1	31.2	29.3	27.1
40.9	40.1	40.3	38.7	37.7	36	35.2	33.8	32.1	30.8	29.2	27.4
40.7	40	40.1	38.4	37.5	36	35	33.8	32	30.8	29	26.9
40	39.3	40.3	38.7	37.1	35.8	34	33.5	31.1	29.7	27.6	25.6
39.6	39.1	40.1	38.4	36.7	35.5	33.6	33.3	30.9	29.3	27.1	25.2
39.1	38.6	39.9	37.5	35.9	34.5	34.1	33.6	32.7	29.8	26.7	24.8
40	38.2	39.7	37.4	35.5	33.8	34.5	32.7	31.7	29.4	26.3	24.4
39.6	38.8	40.5	37.4	36	34.4	33.9	32.1	31	28.7	25.8	23.7
42.9	44.1	42	39.3	38.4	36.9	35.8	33.7	32	29.8	27.4	24.9
43.2	44.5	42.8	40.3	39.1	37	36.2	34.1	32.3	30.6	28.8	26.7
45.3	46.2	45	40.3	38.6	37.9	36.5	35	33	31.3	29.6	27.4
45	46	44.8	40.2	38.5	37.6	36.5	34.9	33.1	31.3	29.6	27.4
43	43.5	42.5	39	38.1	36.4	35.6	34.9	32.7	31.2	29.5	27.9
41.6	41.6	40.9	38.8	37.8	36	35.4	34.9	32.7	30.8	29	27.2
40.7	40.3	39.7	38.1	36.6	35	34.6	34.2	31.5	29.7	27.8	26.3
41.2	40.6	38.9	38.1	36.6	34.8	34.7	34.2	31.4	29.7	28.1	26.6
40.9	40.2	39.2	39.2	37.9	36.5	35	34.5	32.1	29.8	27.7	26.2
40.4	40.4	40.2	39.8	39.3	38.5	37.2	36.5	34.8	32.8	32.6	30.4
41.9	43.8	43.5	43.5	43.3	43.6	44.9	44.8	40.8	38.7	36	34.1
41.6	43.6	43	42.6	42.2	42.3	42.8	42.6	39.1	36.8	33.8	32.2
41.6	42.6	41.6	40.9	40.3	40.5	40.1	39.9	37.1	35.1	31.3	30.1
40.9	41.5	40.6	39.2	38.2	38.5	37.7	37.6	35.4	34	30.2	28.5
38.8	39.7	38.6	37.2	35.8	35.8	35	34.8	32.7	31.6	28.1	26.4
37	37.7	37.5	35.7	34.1	33.8	33.1	32.4	30.4	29.5	26.3	24.9
36.8	38.2	37.3	35.4	34.1	35.6	36.5	37.8	36	33.6	31.3	28.7
35.7	36.4	36.1	35.2	33.2	33.3	33.9	34.6	32.8	30.7	28.5	26.2
35.3	35.5	36.3	35.2	33	31.7	31.9	31.8	29.8	28.4	26.1	24.4
36.8	36.1	36.2	36	33.4	30.9	31.6	31.6	28	27.2	24.8	23.6
37.1	36.5	37.9	36.3	35.2	33.3	31.9	30.5	28.2	27.7	25.8	24.9
37	37.6	38.5	36.8	36	33.1	31.9	30	28.3	27.6	25.3	24.5
37.7	39	39.2	37.9	38.4	36.3	35.5	33.6	32.2	29.5	26.7	25.6
37.5	38.9	38.9	37.9	38.3	36	34.3	33.4	32	29.2	25.7	24.7
37.6	39	38.7	37.6	36.6	34	32.4	31.3	29.8	28.6	25.5	23.7
36.9	38.8	38.5	37.4	36	33.1	31.4	30	28.8	28.1	25.1	23.5
36.2	37.7	37.9	37	35.7	32.3	30.9	30.2	29.8	28.2	25	23.6
36.3	37.2	37.3	36.6	35.7	33.9	35.3	35.8	34	32.3	29	27.1
36.3	36.1	36.8	35.8	35.6	34	35.2	35.6	33.8	32.1	28.7	26.8
36	35.6	36.1	36.1	34.8	32.6	32.9	32.8	31	29.3	26.4	24.9
36.6	35.3	36.1	36.2	34.6	31.9	31.7	30.9	28.9	27.4	25.5	23.6
36.2	35.3	36.1	35.4	34.1	32.3	30.8	30.1	27.9	26.9	24.7	23.2
36.4	36.3	36.6	35	34.3	32.8	31.5	30.5	28.5	27.3	25.2	23.7
36.3	37.1	36.6	35.1	35.7	34.2	32.6	31	29.1	27.8	26	24.4
36.6	37.4	36.7	35.2	35.8	34.4	32.8	31.1	29.3	28.3	26.2	24.6
36.5	36.9	36	35.4	35.8	33.6	32.2	30.7	28.8	27.7	25.7	24.3
36.5	36.9	37.1	36.2	36.1	33.6	32.5	31.1	29.6	28.5	26.5	25.2
36.1	36.3	36.7	35.8	35.2	33.1	31.8	30.8	29.3	28.2	26.2	24.9
35.5	34.9	35.6	34.9	33.6	31.9	31	30.1	28.2	27.3	25.3	24.3
34.6	35	35.4	34	32.8	31.2	30.3	29.5	27.6	26.7	24.7	23.8
34.4	34.7	35.2	33.8	32.4	31.5	31	30.1	27.5	26.6	24.9	23.5
34.2	34.9	35.1	33.9	32	31.2	30.6	30	27.5	26.8	25.2	24.8
33.8	34.7	35.2	34	32.5	31	30.5	30.2	27.5	26.8	25.1	24.3
36	34.5	35.2	34.7	33.2	31.3	30.5	30.2	27.8	27	25.4	23.9
37.1	34.2	35.1	35.2	33.5	31.4	30.7	29.6	27.4	26.8	24.9	26.6
36.8	34.2	35.2	35.3	33.7	31.9	31.2	29.7	27.6	27.7	25.3	26.6
36	34.3	35.6	36.2	33.9	32.4	31.3	30.4	29.1	28.6	26.7	25.7
36.3	34.7	36.1	36.1	34	32.4	31.1	30.2	28.7	28.1	26.2	25.1
36.2	34.8	36.2	35.7	33.9	32	30.7	29.7	28.3	27.7	26.1	24.8
35.1	34.9	37.7	36.1	37.4	32.5	30.7	29.4	27.7	27.1	25.4	24
35.6	35.5	37	36.1	36.1	32	30.7	29	27.4	26.4	24.6	23.4
36.9	35.5	36.7	36.6	35.8	33.2	32.8	31.3	30.1	28.7	26.2	24.4
38.3	35.9	36.7	36.6	35.9	33.2	32.8	31.3	30.1	28.7	26.2	24.4
38.9	37.3	37.6	36.4	36.1	35.5	34.8	33	31.8	29.9	27.2	25.2
39.1	38.2	38	36.3	35.7	35.1	34.5	32.6	31.3	29.5	27	24.9
40.5	40.4	39.5	38.2	37.4	36.1	35.8	33.8	32.2	30.2	26.8	24.9
40.3	40.4	39.8	38.4	37.8	36.6	36.7	34	33	31.2	27.3	25.1
40.2	40.1	40.3	38.8	38.7	38.6	36.8	35	32.7	30.6	26.9	24.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630 1/3 LZSmax 800 1/3 LZSmax 1000 1/3 LZSmax 1250 1/3 LZSmax 1600 1/3 LZSmax 2000 1/3 LZSmax 2500 1/3 LZSmax 3150 1/3 LZSmax 4000 1/3 LZSmax 5000 1/3 LZSmax 6300 1/3 LZSmax 8000

40.3	39.7	40.3	38.7	38.3	38	36.5	34.5	32.4	30.4	26.8	24.4
39.8	39.2	38.9	38.1	37	35.6	34.4	32.5	30.7	28.9	26	23.9
38.7	38.8	37.4	37.2	37.1	33.8	32.4	30.9	29	27.3	24.8	23.3
38	37.1	36.7	36.8	36.2	33.2	31.8	30.1	28.2	26.7	24.4	23.1
38.1	35.9	36.9	37	35.6	34.6	33.1	33.2	29.2	26.7	24.4	22.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
24.5	24.1	24.4	26	61.4	57.4	54.4	47.2	48.9	51.1	65.7	53.5	52.1
24.5	23.6	24.3	25.6	57.6	55.8	51.2	46.9	47.5	50.2	66.1	53.9	53.1
25	23.7	24.2	25.1	54.1	54	48.8	46.6	46.6	49.6	66.2	55.8	53
25.6	23.8	23.9	24.9	50.7	51.7	46.7	47.3	47.8	48.4	65.7	54.4	55.2
25.7	24	24	24.7	49.7	50.1	46.5	47.8	47.9	48.5	64.6	53.9	55
26.5	24.6	24.1	24.7	49.2	49.2	47.5	47.1	46.8	49.6	64.5	56.3	57.4
32.5	27.9	25.3	24.9	46.8	47.9	47.9	47.6	47	49.7	66.2	57.2	55.8
35.4	30	26.4	25.2	46.1	46.9	49.3	47.4	50	49.8	65.9	57.3	55.8
35.7	30.5	26.8	25.4	46.9	47	49	50.7	50.2	54.5	62.7	59.3	54.8
35.4	30.2	26.6	26.9	45.1	46.9	48.5	50.3	52.2	54.1	60.3	59.2	53.4
33.2	28.3	25.6	26.7	43.3	44.5	48.5	49.4	52.5	54.5	59.1	59.2	53.2
30.5	26.6	24.7	27.6	43.1	44.3	48.4	49.3	52	53.4	60.3	61.8	55.4
28.5	25.7	24.4	27.1	42.3	47	47.3	49.8	50.1	49.9	59.3	62.7	56.1
26.8	47.4	29.9	25.7	42.3	47.2	46.8	48.1	49.4	49.1	60.8	59.3	57
26.9	45	27.7	28.5	43	46.6	46.1	47.5	48.2	48.1	61	56.6	55.4
26.5	40.8	25.9	29.1	45.2	46.6	48.2	47.2	47.3	49	60.9	55.6	54
25.5	36.7	24.7	28.4	45.9	47.1	44.9	46.9	47.8	49.8	60	55.6	53.5
24.9	32.8	24.2	29.3	45.2	46.9	45	50	49.6	52.3	57.7	54.4	60.1
24.2	29.3	23.9	30.5	45.7	47.5	52.9	50.5	49.8	54.6	56.9	53.7	60.7
24	26.6	23.9	28.1	44.6	47.7	51.8	50.1	47.3	55.3	56	53.6	61.4
23.8	24.9	23.8	27.5	44.7	50.1	50.3	48.2	47	56.4	56.2	53.8	60.5
23.3	23.8	23.7	25.9	44.7	49	49	46.5	48.7	55.7	56.9	53.3	59.4
23.1	23.3	23.7	25.1	45.5	49.1	48.3	45.2	47.9	56.5	59.2	55.3	58.4
23	23.2	23.7	24.8	46.1	46.7	50	46	48.5	56.5	58.5	54.8	59.2
23.1	23.1	23.7	24.7	46.3	45	48.9	50.1	48.5	55.9	57.4	57.7	58.9
23.1	23.1	23.7	24.7	46.6	48.1	47.8	49.8	48.6	55.7	56.7	58.7	60
23	23.1	23.7	24.6	48.1	48.7	47.8	48.5	49.3	55.4	55.7	56.2	60.2
23	23.1	23.8	24.6	48.9	48.7	47.4	49.3	50.5	55.1	55.5	54.5	59.7
26	24.4	24.1	24.6	48.2	48.5	47.1	49.6	50.4	56.9	57.1	54.3	60.7
25.1	24	24	24.7	47.9	49.3	46.9	47.3	49.1	57.2	58.9	55.5	59.6
26.1	24.9	24.5	24.9	45.6	47.4	48.1	46.9	50	56.7	59	56.1	59.6
26.3	25.1	24.5	24.9	43.2	47.5	46.3	47.5	52.6	57.1	57.8	55	59.4
25.9	24.7	24.4	24.8	41.2	47.8	46.8	48.6	51.1	54.2	55.9	59.7	56.8
24.6	23.9	24	24.7	41.9	47.7	47.9	49.5	50.5	52.4	55.3	61.7	54.8
24	23.4	23.9	24.6	46.6	46.7	49.3	51.1	49.1	51.3	59.5	60.8	54.3
23.6	23.2	23.8	24.6	46.4	47.4	51.3	48.7	48.4	52.1	60.7	60.4	53.8
23.3	23.2	23.8	24.6	46.4	46.8	48.9	48.5	48.2	51.4	61.2	57.6	52.6
22.9	23	23.7	24.6	43.9	46.5	48.9	47.9	49.1	51.7	58.8	56.7	56.4
23.5	23.4	23.8	24.6	43.6	47.1	46.9	48.8	48.2	58	55.7	55.6	60.2
25.1	24.7	24.4	24.7	42.6	46.1	45.5	48.8	47.3	57.7	55.3	55.9	58.3
26.3	26.1	24.9	25	41.4	47.1	45.5	48.4	50.3	54.7	58.2	59	55.2
26.3	25.8	24.9	25	45	47.6	46.3	50.2	53.3	52.8	62.2	58.2	53.3
26.6	25.5	24.8	24.9	46.1	47.1	46.9	51.4	51.6	52.2	62	56.3	53.4
25.5	24.6	24.4	24.7	47.1	48.6	48.1	51.5	51.6	50.5	62.4	55.5	54.7
24.2	23.8	24	24.6	47.2	49.8	56.2	53.6	50.9	49.9	62.6	54.9	54.7
24.3	23.5	23.9	24.6	51.1	50.1	52.5	53.3	52.5	55.7	64.7	54.5	54.4
24.7	24.2	24.2	24.8	49.8	49.7	51.6	51.7	50.1	53.4	64.3	54.8	55.9
30.7	29.7	27.8	25.7	48.2	48.4	49.9	51.3	50.7	53.5	63.5	55.4	56.3
30.1	28.4	26.3	25.3	45.3	48.3	47.2	51.6	51.2	54.2	65.4	55.5	55.4
28.1	26.6	25.1	24.9	44.1	45.8	47.2	51.6	50.9	51.8	64.3	55.7	53.8
26	24.9	24.3	24.7	42.6	45	47.7	50.5	50.8	50.7	64.2	55.6	52.6
25.1	24.1	24	24.7	42.7	49.3	45.6	48.4	50.9	49.9	63.9	53.9	50.9
24.1	23.6	23.9	24.7	45.4	51.7	45.1	47.9	50.6	49.1	63.1	53.5	50
23.7	23.4	23.9	24.6	43.6	50.5	46.7	47.5	50.4	51.2	63.9	53.6	51
26.1	24.3	24.4	24.8	46	48.7	48.6	51.6	51.8	49.9	62.7	55.9	51.5
24.4	23.6	24	24.6	44.7	46	47.6	50.1	51.3	49.8	63.3	54.9	52.4
23.4	23.4	23.8	24.6	42.2	44.7	47.1	49.8	54.8	51.5	63.7	55.1	51.4
23.4	23.3	23.8	24.6	41.6	45.4	57.4	61.7	58	49.7	64.1	55.1	51.1
23.6	23.6	23.9	24.6	47.2	51.4	56.3	58.4	54.9	48.5	63.5	55.2	51.1
23.8	23.6	23.9	24.6	52.2	54.8	53.1	55.5	51.7	49.4	63.4	56	51.9
24	23.6	23.9	24.7	54.7	52.3	50.2	54.8	49.5	48.2	63.7	55.9	50.8
23.8	23.4	23.9	24.6	52.4	50.3	47.7	53.4	49.9	48.2	63.5	56.3	50.7
23.3	23.2	23.9	24.6	51.6	49.1	46.8	51	54.3	49.7	63.4	55.7	51.9
23.1	23.1	23.8	24.6	50.2	46	50.6	51	52.7	49.2	63.6	55	51.9
23.4	23.4	23.8	24.7	46.5	45.9	48	49.7	50.9	48.4	63.1	55	50.8
24.6	23.6	24	24.7	43.9	50	46.6	47.4	48.1	48	63.4	53.8	50.8
24.4	23.6	24	24.6	43.3	49.9	45.9	49	46.5	48.6	63.4	53.1	51.4
23.6	23.3	23.8	24.6	47.1	47	48.6	48.1	46.6	47.5	63.1	51.3	50.3
22.9	23.1	23.7	24.6	46.3	46.1	51.4	48.5	46.5	47.2	63	51.9	51.5
23	23	23.7	24.7	46.3	51	50.5	49.3	48.1	46.2	63.1	52.5	53.1
23.1	23.1	23.8	24.7	49.9	52.2	50.2	47.8	47.8	46.2	62.9	52	53.1
23.2	23.2	23.8	24.6	53.9	53.8	50.7	48.3	47.7	48.2	62.8	52.1	51.8
23.3	23.2	23.8	24.6	54.2	53.6	50.5	49.9	48.8	47.6	63.2	53.2	50.8
23.1	23.4	23.9	24.6	58.6	53.2	49.6	49.9	50.1	48.5	63.2	52.7	52.1
23.7	23.5	24	24.7	57.5	52.7	47.5	48.6	49.4	48.8	62.3	54.2	52.2
23.6	23.4	23.9	24.7	57.5	54.4	47.2	47.9	52.2	50.8	62.4	57	52.7
23.4	23.4	23.8	24.6	55.4	52.3	48.9	49.5	52.4	49.5	62.7	55.7	53.6
23.3	23.3	23.9	24.7	53	51.7	48.7	52	52.6	54.8	64.4	53.9	52.8
23.3	23.3	23.8	24.7	53.3	50.3	51.8	51.1	53.1	51.8	63.6	53.5	51.8
23.4	23.5	23.8	24.7	52.5	50	49.2	50.7	51.7	50.3	63	54.8	51.6
23.5	23.6	23.9	24.7	52.1	51.3	47.3	49.5	50.4	56.4	66.5	54.7	51.8
23.6	23.5	23.8	24.6	52.6	51	47.5	49.4	49.8	52.7	64.5	54.8	50
23.3	23.3	23.8	24.6	52.1	53.7	48.5	50.6	49	50.9	63.9	56.7	52.8
23.6	23.5	23.8	24.6	51.3	53.1	49.9	50.3	48.4	50.9	63.2	55.7	52.8
24.1	24	24	24.7	49.2	50.4	49.2	49.8	50	49.9	63.2	55.3	51.7
24	24	24	24.7	49.4	48.9	48.5	52.3	50.4	48.9	63.6	54.6	51.9
24.3	24.4	24.1	24.7	48.5	48.5	48.6	50	50.3	49.3	63.1	53.3	51.5
23.8	23.9	23.8	24.6	48.3	48	51.5	47.5	50.7	49.3	63.1	52.9	51.6
23.2	23.3	23.7	24.5	49.9	47.8	50.1	47.4	49.7	49.8	62.5	52.5	51.8
23.5	23.3	23.8	24.5	49	45.3	48.3	46.5	48.1	51.2	62.2	52.3	51.7
23.5	23.3	23.8	24.7	49.2	44	47.5	48.4	48.2	49.2	62.6	51.4	53
24.2	23.9	23.9	24.7	47.6	45.5	46.1	49.3	47.6	49.3	62.5	52.3	53.3
24	23.8	23.9	24.6	44.6	45.4	46.5	47.3	49.8	50.8	63	57.2	52.1
23.7	23.5	23.9	24.7	42.3	44.5	45.4	44.8	50	50.4	64.2	56.9	51.7
23.5	23.3	23.8	24.6	39.5	45.3	45.7	43.9	48.2	50.1	64.1	55.7	52.8
23.5	23.3	23.8	24.6	39.8	45.7	45.1	45.2	48.7	50.2	63	53.6	54.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.3	23.3	23.7	24.6	42.9	44.8	47.7	46.4	49.1	51.4	62.8	54	54.4
23.1	23.1	23.7	24.6	49.5	46.4	53.7	47.7	51.9	50.4	63	55	54
22.9	23.1	23.7	24.6	51.4	48.4	53	50.8	50.1	51	64	56	52.6
22.8	23	23.7	24.6	50.4	51.6	50.2	50.5	50.3	54.4	63.3	54.9	52.5
22.9	23.3	23.8	24.7	49.7	51.3	47.6	50.4	51.6	51.8	62.6	54.5	51.5

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
53.8	53	52.1	51.9	52.9	49.9	50.1	45.8	44.8	40.5	39.8	37.2	37.3
53.1	51.3	50.6	52.5	52.3	50.2	51.4	46.2	46.4	40.8	40.5	37.3	37.5
53.9	50.1	51.4	52.8	51.9	50.3	49.3	45.7	45.1	40.3	40.7	38.7	37.5
56.8	51.1	50.5	51.7	51.3	51	47.9	45.5	45.1	40.9	41.5	39.8	39.2
55.4	51.6	51.1	51	51.2	50.2	46.7	45.1	45.9	41.5	43.4	40.5	39.4
55.9	51	50.9	50.8	52.4	49.8	46.5	44.7	46	41.8	43.1	39.7	40.2
55.3	51.4	52.3	52.1	52.4	49.4	46.4	45	45.9	42.8	43.6	39.7	41.2
55	52.3	53.2	53.2	52.2	51.6	48.3	47.1	47.7	46	46.2	43	45
59.6	57.5	54.1	53	52.2	51.8	50	48.5	49.6	48.2	48.5	48.1	48.5
57.2	60.3	53.8	52.3	54.3	51.9	50.3	50.1	49.1	48.5	47.7	47.1	49.3
56.7	57.6	54.8	51.9	53.5	52.2	50.2	49.8	47.7	46.6	45.9	45.1	47.7
56.9	55.6	53.4	52.3	52.8	50.9	49.9	49.4	46.3	45.3	44.2	43.5	46
57.3	53.7	51.9	52.4	51.9	50.8	49.9	48.4	46.1	45.6	43.9	43	44.3
56.8	53.3	51.6	52.3	51.3	51.6	49.4	47.4	45.7	47.5	43.9	42.8	43.6
56.8	58.1	51.6	52.5	54	52.4	49.9	47.2	46.1	48	45.1	43.8	43.5
58.7	58.9	55	52.5	54.8	53	50.3	47.1	46.8	48.2	45.5	46	43
59.2	57.9	55.1	51.7	53.7	52	49	48.2	49.8	48.6	47.3	46	42.6
59.4	57.8	54.4	51.6	53.9	52.9	47.3	47.4	49	47.6	44.9	45	41.3
60.2	59	52.5	50.6	53.2	53.7	45.7	46.4	47.7	47.6	42.6	43.1	40.4
60.2	58.2	51.3	50.9	51.7	54.4	44.8	45.6	46.6	47.1	40.9	41.3	39.2
61	58.1	51.7	51.1	51.4	54.4	44.9	44.6	45.7	47.6	40.8	40.3	38.1
61	58.1	51	51.1	51.7	53.4	44.6	44.3	45.3	47.4	40.7	39.2	37.3
60.4	57.7	50.9	52	52.1	53.7	44.5	44.2	44.7	47	40.2	38.2	36.9
59.9	57	49.8	51.5	51.8	53.5	44.8	44.2	44.1	46.8	39.8	37.8	36.6
59.9	55.8	49.1	50	51.9	53.4	44.8	44	44.1	46.5	39.9	37.8	37.5
60.5	55.6	47.8	48.5	51.6	52.7	43.3	43.2	44.1	46.8	39.4	37.8	37.8
60.8	55.3	49.7	48.6	51.9	51.7	42.8	42.1	43.6	46.9	39.4	38.1	37.7
59.7	52.8	50	49	51.7	51.4	42.8	42	43.6	46.9	39.9	38.8	38.1
59.8	52.8	50.6	50.2	51	51.8	42.7	42.2	44.1	46.8	39.8	38.7	37.9
61	55.2	50.8	50.3	51.4	52.6	42.1	42.1	44.1	46.6	40.5	38.6	37.9
60	54.2	51.1	50.2	51.3	51.9	42	42.4	43.1	45.6	40.8	39.4	38
57.9	54.2	54.4	50.5	51.5	52.4	43	42	41.9	44.9	41	40.3	38.9
55.3	54.8	53.9	50	50.7	50.7	44	43.3	40.4	41.7	40	39.9	39
54.2	58.8	55.7	49.8	48.1	48.5	44.3	42.4	39.8	40.7	39.5	39.5	38.9
55.3	56.6	57.5	49.4	47	47.1	44.2	42.6	39.4	39.6	39.4	38.9	38.1
55.8	56.4	56.5	50	46.8	46.1	43.2	42	38.5	39.1	38.2	38.4	37.7
56.9	56.2	53.6	48.6	46.3	44.9	42.7	41.2	37.7	37.6	37	38	37.1
56	54.5	51.9	48.3	46.5	44.5	42.5	40.2	37.7	37	36.4	39.1	37.4
56.1	52.9	50.8	48.3	46.1	44.1	42.5	40	38.7	37.4	37.1	39.3	38.9
55.5	51.8	51	49.6	48.4	44.3	43.1	44	40.8	40.2	41	42.7	44
55.5	51.9	50.9	49	48.6	44.7	43.7	45.8	41.9	41.1	40.7	42.8	44.1
56.1	52	52.7	48.3	48	48.7	44	45.6	46.9	42	40.3	43.1	43.6
58.8	51.7	52	49.2	48.5	47.3	45.2	44.3	44.2	40.7	39.3	41.6	41.4
60.6	53.5	51.6	48.6	48.2	46.4	44.3	43	42.1	39.9	39.4	40.4	40.3
60	53.1	51.9	49.7	48.1	46.4	44	42	40.4	38.9	39.2	40.3	39.9
59.8	52.7	51.6	50.9	46.5	45.5	43.6	41.7	39.8	39	39.7	40.2	40.1
59.9	52.2	52.2	49.8	46.3	44.9	43.1	41.1	38.8	38.4	38.9	40.1	39.6
59.4	52.7	52.5	49.4	45	45.1	41.5	40	38.6	38.1	38.6	40	39.8
58.3	51.4	54.4	49.2	45	45	41.8	39.8	38.6	38.5	38.6	40	40.5
60.5	50.8	51.9	50.6	46.2	47.3	42	40.6	41.9	41.3	41.5	41.2	42.5
59.1	53.1	51.4	50.5	47.2	47.4	42.6	40.9	39.9	40	40.6	40.9	41.5
58.7	51.9	51.6	49.9	46.9	47	43.3	41.5	39	39	38.8	38.9	39.7
58	51.8	51.3	48.8	46.1	45.1	41.7	40.3	37.9	38.1	36.8	37	37.7
58.3	52.6	50.8	48.6	46	44.3	40.1	39.7	36.4	36.6	35.4	35.3	36.2
57.8	52.6	50.6	46.9	44.8	43.6	39.1	38.3	35.5	36.1	35.1	35.3	36.1
58.6	51.7	50.5	46.9	44.2	43.3	38.3	37.6	35.3	35.6	34.7	34.7	35.4
57.2	51.7	49.5	47.5	44.6	42.6	38	37.4	35.1	35.5	34.9	34.7	35
57	51.7	50.3	47.4	44.8	43.4	38.6	37.5	35.3	35.3	34.5	34.9	35
57.4	51.7	50.8	48.7	44.9	43.2	38.9	36.8	34.7	34.4	34.7	36.6	35.8
56.4	52.7	51	48.8	44.4	43.4	39.1	36.2	35.1	34.7	34.5	36.1	36.4
55.9	52.9	50.7	48.6	44.4	44.1	39.4	36.9	35.1	35.5	34.8	36.8	37.5
55.7	51.2	51.7	48.5	46.6	44.5	39.1	37.5	35.8	36.1	35.7	37.2	38.4
54.5	52	52.4	48.8	48.1	44.7	39.4	37.6	36	35.7	35	36.7	38.7
54.7	52.7	51.2	49.4	49.6	45.9	39	38.1	35.4	34.9	34.4	36.1	37.7
54.6	51.3	50.9	49.3	49.3	45.6	38.8	37.3	35.3	34.7	34.3	35.6	37.1
55	51.2	50.6	49	48.8	45.2	39.9	37.7	34.8	35	34.3	35.4	36
55.6	51.9	49.9	49.3	48.9	44.6	39.5	38.2	36.1	35.2	35.5	35.6	35.5
55.6	52.9	50.2	50.2	48.9	44.5	39	38.1	35.4	35.4	35.4	35.5	35.1
54.2	51.6	50.5	49.4	50	44.2	39.7	37.7	34.5	35	34.9	35.9	34.8
54.3	52.1	50.4	48.9	50.3	43.8	38.3	37.3	34.3	34.8	34.2	35.3	34.5
54.7	52	49.9	48.9	49.6	44.4	38.3	38.2	35.8	37.8	36.8	36	35
54.2	52.1	49.9	50.9	49.8	44.9	39	39	36.8	39.3	37.1	35.7	36.2
53.7	52.1	55.4	51	49.8	45.1	40.3	39.6	37.2	37.8	37.3	36.2	36.9
55.3	53.6	54.7	50.2	48.1	45.2	40.3	39.7	37.5	36.8	37	35.8	36.3
56.4	52	54.8	47.9	47.3	44.4	40.6	39.6	36.6	36.7	37	35.9	36.4
56.6	51.7	52.4	47.2	46.6	44.5	41.9	39.3	36	36	35.7	35.4	34.9
57	52.3	51	46.5	46.7	43.5	40.5	38.2	35.3	36.1	33.6	34.5	34.2
56.9	52.1	50.5	46.2	46.2	43.1	39.9	38.1	34.8	35.5	33.2	34.1	34.1
56.1	51.5	50.6	46	46.1	42.9	38.9	37.7	35.5	35.4	33.2	33.8	34.1
55.6	51.1	50.8	46.6	46.3	42.9	38.5	36.4	35.1	34.6	32.7	33.4	34.4
57.1	50.4	49.7	46.5	45.9	43	38.9	36.5	34.7	34.4	32.5	33.4	34.3
56.2	49.5	48.2	45.9	45.1	42.8	38.8	36.9	34.9	34.8	35	33.8	34
56.2	49.9	48	45.4	45.8	42.9	39.5	37.3	34.9	35.1	34.7	35.9	33.7
56.7	49.4	47.5	45.3	46.4	42.6	40	36.9	35.2	35.5	34.5	35.5	33.8
55.7	50	48.3	47.4	46.5	42.6	39.4	36.6	35.2	35.5	34.5	35.5	33.7
56.6	48.7	48.6	47.5	45.6	42.4	39.1	36.7	34.6	36	34.5	35.7	34.2
57.5	49.4	47.8	47.3	45.4	42.9	39.4	36.6	34.3	35.5	34.5	34.7	34.4
57.4	48.6	47.7	46.2	45.3	42.7	39.2	36.7	34.6	35.5	34.6	34.5	34.5
56.5	48.6	46.3	46.4	46.1	42.8	39.9	37.5	35.3	35.5	34.9	35	34.9
56.7	49.1	47.2	46.1	47.4	43.8	42.2	37.6	35.7	36.1	35.4	35.6	34.9
57.8	50.1	47.9	46.5	47.9	43.5	43.7	39.2	37.2	37.2	36.3	36.8	35.2
57.7	49.5	49	48.3	47.5	43.4	42.1	39	37.5	38.5	37.5	38	35.9
57.5	48.9	50.1	48.3	46.5	43.4	41.7	38.9	37.3	38.6	37.8	38.5	37
57.4	49.7	49.2	49.3	48.8	43.8	42.1	40.5	38.5	39.8	39.3	39.1	38.1
56.6	54.5	49.7	49.2	50.1	44.3	41.7	41.7	39.7	42.8	41.2	39.3	39.6
55.8	55.2	51	50.5	50.1	44.2	42.5	41.8	40.2	41.6	41	39	39.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
55.8	56.8	51.1	49.1	49.2	44.3	43.6	41.3	39.5	40.7	39.6	39.8	38.9
56.9	56.1	51	48.9	47.8	44.6	42.4	40.4	37.8	39	37.9	38.5	38.7
57.7	54.9	51.6	48.9	46.8	44.5	41.7	39.4	36.4	36.8	36.2	37.7	37.1
57.2	53.4	50.9	48.4	46.6	43.2	41.2	38.8	36.2	36	35.6	37.5	35.9
56.9	52.4	51.1	48.5	45.8	43.2	40.7	37.9	35.9	36.1	35.4	37.4	35

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
53.1	36.2	36	34.6	33.3	34.3	30.8	29.9	27.5	25.8	24.1	23.6
49.3	36.4	36.3	35.1	33.7	34	31	29.7	27.5	25.8	24	23.5
46.1	37.1	37.4	36.1	34.7	35.3	32.3	34.5	28	26.1	24.5	23.5
44.3	38.8	39.4	37.7	36.6	37.1	34.3	38.1	29.6	27.1	24.6	23.5
42.8	39.8	39.5	38.1	36.9	36.4	35.6	35.7	30.1	27.7	25	23.6
42.5	39.8	40.1	38.8	37.8	37.3	35.8	34.7	31.5	28.8	25.8	24
42.8	41.2	40.8	40.3	39.4	38.4	36.9	34.7	32	30.1	26.4	24.6
44.8	44.3	44.3	42.9	42.7	42.3	41.4	38.9	37.9	37.2	32.6	28
48.5	47.5	47.2	46.2	45.4	45.3	44.4	41.5	40.9	39.7	35.4	30
49.9	48.3	46.8	45	43.3	43.3	42.4	40.2	38.8	37.2	33.2	28.4
49.6	47.4	45.5	42.9	40.6	40.4	39.4	37.3	35.8	34.1	30.5	26.7
48.8	46.5	44.2	41	38.8	38.5	37	35.2	33.4	31.6	28.5	25.7
47	44.8	42.4	39.1	37.6	37.2	35.1	33.8	31.4	29.5	26.8	25
45.8	43.5	41.7	38.5	37.4	37	34.7	33.3	30.6	28.6	26.1	26.1
45	42.9	41.7	38.7	37.5	37.1	35.2	33.6	31	28.5	26.1	40.9
44.3	42.6	41.6	38.4	37.5	36.3	34.1	33	30.5	27.8	25.5	36.8
44	42.2	40.4	37.6	37.1	35.9	33.1	32.2	29.7	26.9	24.9	32.8
43.6	41	39.2	36.5	35.7	35.1	32.7	31.3	28.6	26.1	24.2	29.3
42.3	39.8	38.2	35.6	35	34.3	31.7	30.3	27.9	25.3	23.8	26.6
41.3	38.9	37.4	34.8	34.5	33.6	31.3	29.8	27.2	24.8	23.8	24.9
40.8	38.1	36.7	33.9	33.6	32.6	30.4	28.9	26.5	24.3	23.3	23.8
40.3	37.4	35.8	33.2	33.1	32	29.9	28.6	26	24.1	23	23.3
39.9	36.9	35.3	32.7	33.1	31.9	29.8	28.5	25.9	23.9	22.9	23.2
39.7	36.8	35.2	32.7	33.1	32.1	29.8	28.6	26	23.9	22.9	23.1
39.8	37.5	35.9	34.2	34.2	32.6	30.1	28.5	26.1	23.9	22.9	23
39.7	36.8	35.6	33.6	33.6	32.6	30	28.6	27.1	24.2	23	23
39.3	36.6	35.4	33.2	33.4	32.5	29.9	28.8	27.1	26.2	22.9	23.1
39.4	36.4	35	32.9	33.4	32.4	30.1	28.8	26.8	25.2	22.9	23.1
39.4	36.6	35.1	33	33.4	32.5	30.2	29	26.8	25.4	23	23.1
39.2	36.9	35.4	34.3	33.9	32.9	31.7	31	29.2	25.8	24.5	23.5
39.6	37.9	36.5	35.3	34.8	33.2	31.7	30.7	28.7	26.1	24.8	23.8
40	38.3	36.8	35.6	34.7	33.5	31.8	30.5	28.7	26.7	25.6	24.5
39.6	37.5	36.6	34.9	33.8	33	30.8	29.7	27.6	25.7	24.6	23.9
39.6	37.5	36.3	34.8	33.6	32.9	30.5	29.3	27.1	25.2	24	23.4
39.5	37.1	35.6	34.1	32.7	32.2	30	28.5	26.4	24.5	23.5	23.1
39.2	36.8	35	33.7	32.7	32.7	30.8	28.5	26.1	24.3	23.3	23.1
39.1	36.5	34.7	33.1	32.4	32	30.6	28.4	25.7	23.7	22.8	23
39.1	36.9	35	33.1	33.3	31.6	30.2	28.2	25.4	23.4	22.8	22.9
40.5	37.3	36.1	34.4	34	31.9	30.4	28.5	25.8	23.7	22.9	23
42.1	39	37.9	36.3	35.4	33.7	31.8	29.8	27.4	24.9	23.5	23.4
42.5	39	37.5	36.1	35	33.6	31.7	30	28.6	26.4	25	24.3
42.6	39	37.7	36.4	35.5	34.3	32.3	30.1	28.4	26.3	25	24.5
40.8	38.5	37.5	36	35.4	34.4	32.3	30.1	28.4	26.3	25	24.5
39.6	38.1	36.6	35	34.6	34	31.6	29.6	27.8	26	24.2	23.9
38.6	37.6	36.1	34.3	34.1	33.4	30.9	29.1	27.3	25.6	23.8	23.5
38.3	37.9	35.8	34.1	34	33.3	30.8	29.1	27.4	26	24.1	23.4
38	37.6	35.7	34	33.7	33	30.6	29	27.3	25.8	24.1	23.5
39.1	39.1	37.9	36.6	35	34.6	32.1	29.8	27.5	26	24.4	23.9
40	39.6	39.4	38.6	37.2	36.6	34.9	32.8	31.1	29.3	28.2	26.6
41.6	40.9	40.3	40.4	40.2	39.9	37	34.7	31.3	30.1	26	24.9
40.7	39.2	38.3	38.5	37.7	37.6	35.4	34	30.2	28.5	25.1	24.1
38.6	37.2	35.8	35.8	35	34.8	32.7	31.7	28.2	26.4	24.1	23.6
37.3	35.7	34.2	33.8	33.1	32.4	30.4	29.5	26.3	24.9	23.5	23.4
36.2	34.7	32.5	32.1	31.8	30.8	28.7	28	25.3	23.8	23.3	23.2
36	34.7	32.8	33	32.8	31.4	29.1	28.2	25.7	24.6	23.6	23.2
35.4	34.6	32.8	31.7	31.9	31.8	29.9	28.4	26.1	24.4	23.4	23.4
35.5	34.7	32.7	30.9	31	30.4	28	27.2	24.8	23.6	23	23.2
36	35	32.8	30.5	30.9	30.3	27.3	26.6	24.4	23.2	22.9	23.2
36.2	35.9	33.4	30.6	30.9	29.8	27.4	26.8	24.5	23.3	23.1	23.2
37.8	36.2	35	32.5	31.3	29.7	27.8	27.2	24.8	23.7	23.2	23.3
38.4	36.7	35.9	32.6	31.5	29.7	28.2	27.2	24.8	23.6	23.3	23.3
38.5	37.6	36.6	34	32.4	31.3	29.8	27.6	24.7	23.7	23.3	23.2
38.3	37.3	35.9	33.1	31.4	30	28.8	27.1	24.3	23.3	23	23
37.9	37	35.4	32.2	30.7	29.5	28.1	27.1	24.4	23	22.9	23
37.1	36.6	35.3	32.1	30.6	29.5	28.4	27.1	24.2	23	22.9	23
36.3	35.6	34.5	31.7	30.2	29.4	28.2	27	24.3	23	22.9	23.1
36.1	35	34.6	32.6	32.9	32.8	31	29.4	26.4	24.9	23.6	23.3
35.6	35.2	34.4	31.8	31.7	30.9	28.9	27.4	24.7	23.6	22.9	23.1
35.6	35.4	33.8	31.6	30.7	29.9	27.7	26.7	24.3	23.2	22.7	22.9
35.4	34.6	33.5	31.5	30.5	29.6	27.4	26.4	24.4	23	22.6	22.9
35.9	34.5	33.7	32.2	30.8	30.1	27.9	26.9	24.7	23.1	23	23
36.3	34.8	34.3	32.8	31.4	30.5	28.3	27.2	25.1	23.6	23	23
36	34.8	35.4	33.6	32	30.6	28.7	27.7	25.5	24	23.1	23.1
35.7	34.5	34.8	32.7	31.4	29.9	28.1	27.1	24.9	23.6	22.9	23.1
35.9	35.4	35.2	33.1	31.8	30.7	28.8	27.7	25.7	24.3	23.2	23.2
35.6	34.9	33.6	31.9	30.9	30.1	28.3	27.3	25.3	24.3	23.3	23.2
35.1	33.9	32.6	31.1	30.1	29.5	27.6	26.7	24.7	23.8	23.1	23.2
34.8	33.6	32.3	30.7	30	29.2	27.1	26.3	24.5	23.4	23.1	23.2
34.9	33.4	31.9	30.8	30	29.2	27.1	26.3	24.6	23.3	23.1	23.2
34.6	33.4	31.6	30.5	29.9	29.4	27	26.5	24.6	23.4	23	23.2
34.5	33.4	31.7	30.7	29.9	29.4	27	26.3	24.8	23.7	23.2	23.4
34.8	33.9	32.5	30.8	30.2	29.5	27.2	26.6	24.8	23.3	23.2	23.3
34.8	34.6	33.2	31	30.2	29.2	27.1	26.3	24.5	23	23.1	23.2
35	34.9	33.2	31.1	30.6	29.4	27.3	26.7	24.8	25.1	23.2	23.2
35.1	35	33.4	31.8	30.8	29.6	27.6	27.6	25.3	25.1	23.6	23.5
35.6	35.6	33.7	31.9	30.6	29.4	27.9	26.9	25	23.9	23.4	23.6
35.5	34.6	33.2	31.3	30.2	29	27.5	26.8	24.9	23.9	23.3	23.6
35.6	34.5	33.3	31.4	30.3	29	27.2	26.4	24.6	23.3	23.2	23.3
36.1	35.6	35	31.6	30.5	28.6	26.8	25.8	24.3	22.9	22.9	23.2
35.8	35.2	34.4	31.4	30.4	28.7	26.8	25.7	24.2	22.9	22.9	23
36.1	35.8	34.5	32	31.5	30.3	28.8	27.6	25.5	23.9	23.3	23.2
36.4	35.3	34.2	32	31.5	30.5	28.8	27.5	25.4	23.8	23.2	23.2
37.3	35.7	35.1	33.8	33.6	32	30.4	28.6	25.9	24.2	23.5	23.4
38	36.2	35.3	34.6	34.3	32.4	30.8	29	26.1	24.4	23.5	23.3
39.3	38	37.3	36.1	35.7	33.6	32.2	30.2	26.8	24.7	23.3	23.2
39.4	37.7	36.9	35.7	35.6	33.1	31.6	30	26.6	24.4	23.3	23.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000 1/3 LZSmin 1250 1/3 LZSmin 1600 1/3 LZSmin 2000 1/3 LZSmin 2500 1/3 LZSmin 3150 1/3 LZSmin 4000 1/3 LZSmin 5000 1/3 LZSmin 6300 1/3 LZSmin 8000 1/3 LZSmin 10000 1/3 LZSmin 12500

38.9	38.1	36.9	35.6	34.4	32.5	30.7	28.9	26	23.9	23	23
37.4	37.2	36.7	33.8	32.4	30.9	29	27.3	24.8	23.3	22.8	23
36.7	36.4	36.3	33.1	31.8	30.2	28	26.8	24.4	23	22.7	22.9
36.5	36	35.5	32.5	30.9	29.6	27.5	26.4	24.2	22.9	22.7	22.9
36.4	36.5	35.2	32.5	30.9	29.5	27.2	26.2	24.2	22.7	22.7	22.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
24.1	25.4	22.7	No	No	
24	25.1	19.3	No	No	
23.9	24.9	15.5	No	No	
23.8	24.7	11.8	No	No	
23.8	24.6	8.1	No	No	
24	24.6	5	No	No	
24.1	24.7	-0.1	No	No	
25.3	24.9	1.2	No	No	
26.4	25.2	0.2	No	No	
25.6	25.3	1.5	No	No	
24.7	25.6	0.4	No	No	
24.4	25.5	1.6	No	No	
24.1	25.7	0.7	No	No	
24.1	25.1	0.2	No	No	
25.9	24.9	0	No	No	
24.7	28.4	0.5	No	No	
24.2	26.8	0.3	No	No	
23.9	27.5	0.4	No	No	
23.8	28.1	1.5	No	No	
23.7	26.5	0.8	No	No	
23.6	25.9	0.9	No	No	
23.6	25.1	0.7	No	No	
23.7	24.8	0.1	No	No	
23.7	24.6	2.5	No	No	
23.6	24.6	0.1	No	No	
23.6	24.5	0.4	No	No	
23.6	24.5	0.3	No	No	
23.6	24.6	0.4	No	No	
23.7	24.5	2.9	No	No	
23.8	24.6	0.3	No	No	
23.9	24.7	0.4	No	No	
24.2	24.7	0.6	No	No	
24	24.7	0.5	No	No	
23.9	24.5	1.5	No	No	
23.7	24.5	1.2	No	No	
23.8	24.5	3.5	No	No	
23.7	24.5	3.6	No	No	
23.6	24.5	0	No	No	
23.6	24.5	1.4	No	No	
23.8	24.6	0.4	No	No	
24.3	24.6	2.5	No	No	
24.3	24.8	2.9	No	No	
24.3	24.7	0.6	No	No	
24	24.6	0.4	No	No	
23.8	24.5	0.4	No	No	
23.8	24.5	1.1	No	No	
23.9	24.6	0.9	No	No	
24	24.7	-0.1	No	No	
25.1	24.9	11.3	No	No	
24.3	24.6	9.1	No	No	
24	24.6	9.3	No	No	
23.9	24.6	8.4	No	No	
23.8	24.5	5.1	No	No	
23.7	24.5	2.3	No	No	
23.8	24.6	10.5	No	No	
23.8	24.5	6.9	No	No	
23.7	24.5	3.7	No	No	
23.7	24.6	0.3	No	No	
23.7	24.5	2.8	No	No	
23.8	24.5	0.3	No	No	
23.8	24.6	3.3	No	No	
23.7	24.6	1.5	No	No	
23.7	24.5	0.8	No	No	
23.7	24.5	0.6	No	No	
23.7	24.6	1.6	No	No	
23.7	24.6	5.1	No	No	
23.8	24.6	5.9	No	No	
23.6	24.5	2.1	No	No	
23.6	24.5	0.2	No	No	
23.6	24.5	0.9	No	No	
23.7	24.6	1	No	No	
23.7	24.5	0.7	No	No	
23.7	24.5	0.9	No	No	
23.7	24.5	0.1	No	No	
23.9	24.6	3.3	No	No	
23.7	24.6	0.6	No	No	
23.7	24.5	0	No	No	
23.7	24.6	0.6	No	No	
23.7	24.6	0.8	No	No	
23.7	24.6	1	No	No	
23.8	24.5	0.2	No	No	
23.7	24.6	0.5	No	No	
23.7	24.5	0.1	No	No	
23.7	24.5	0.1	No	No	
23.8	24.6	0.3	No	No	
23.9	24.6	0.3	No	No	
23.8	24.6	-0.3	No	No	
23.6	24.5	4.8	No	No	
23.6	24.5	0.5	No	No	
23.6	24.4	-0.1	No	No	
23.6	24.5	1.8	No	No	
23.7	24.5	4.6	No	No	
23.8	24.5	0.3	No	No	
23.7	24.6	1.4	No	No	
23.7	24.6	0.8	No	No	
23.6	24.5	4.2	No	No	

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.6	24.5	3.1	No	No	
23.7	24.5	0.3	No	No	
23.5	24.6	1	No	No	
23.6	24.5	0.3	No	No	
23.5	24.5	3.2	No	No	

105		11/19/2021	1:24:15 PM	45.4	56.7	46.3	45.7	98.3	18	52.2	55.2	63.1	58.2	52	44.3	40.8	40.8	37.2
106		11/19/2021	1:24:16 PM	45.2	53.7	45.7	45.4	98.4	17.7	50.9	56.6	64.8	57.6	50.8	44.8	40.9	40.2	36.9
107		11/19/2021	1:24:17 PM	47.1	59.7	46.8	45.4	98.1	19.4	54.6	54.6	65.6	59.5	54	45.2	42.3	41.4	38
108		11/19/2021	1:24:18 PM	48.0	60.7	47.7	46.8	98.5	17.1	54.7	58.5	67.4	63.9	55.5	45.2	43.5	42.7	40
109		11/19/2021	1:24:19 PM	48.2	58.4	48.0	47.7	98.3	15	52.0	55.3	64.6	61.1	56	47.1	44.7	43.6	39.5
110		11/19/2021	1:24:20 PM	48.1	58.4	48.1	47.9	98.3	15.3	53.5	53.4	63	57.8	53.4	46.3	44.8	43.5	39.5
111		11/19/2021	1:24:21 PM	48.8	59.7	48.6	48.1	98.3	15.1	54.0	54.9	64.1	60.8	54	45.8	45.1	44.6	40.6
112		11/19/2021	1:24:22 PM	48.1	60.7	48.5	48.2	98.3	15.6	51.8	57.2	64.2	59.9	54.7	46.3	45	43.2	39.2
113		11/19/2021	1:24:23 PM	47.6	58.4	48.2	47.8	98.3	17.3	52.6	57.4	63.3	60.6	56.2	46.0	43.6	42.5	38.8
114		11/19/2021	1:24:24 PM	47.3	59.7	47.8	47.5	98.4	18.1	55.9	57.6	66.1	60.9	54.2	46.0	42.4	41.8	39.2
115		11/19/2021	1:24:25 PM	47.9	58.4	47.9	47.5	98.4	17.8	55.5	57.4	66.8	61.6	54.3	46.8	43.9	43	39.5
116		11/19/2021	1:24:26 PM	48.7	60.7	48.5	47.9	98.4	15.2	56.7	63.2	66	59.1	53.1	48.2	45.6	43.3	39.9
117		11/19/2021	1:24:27 PM	50.4	62.7	49.8	48.5	98.4	15.1	52.5	65	63.8	61.8	55.8	49.2	48.3	44.9	42
118		11/19/2021	1:24:28 PM	50.2	62.1	50.0	49.8	98.4	14.6	51.3	65.3	64.6	62.2	55.4	49.3	48.5	45	41
119		11/19/2021	1:24:29 PM	50.0	61.5	50.1	49.9	98.4	14.1	53.2	61.3	62.7	61.1	56	50.5	47.7	45	40.8
120		11/19/2021	1:24:30 PM	50.4	63.2	50.3	50.0	98.3	13.3	53.1	59.3	63.1	60.7	56	51.1	48.4	45.3	41.5
121		11/19/2021	1:24:31 PM	51.6	72.1	51.3	50.3	98.3	12.8	49.5	56.9	60.4	60.6	55.4	51.1	50	47	41.5
122		11/19/2021	1:24:32 PM	50.9	62.7	51.0	50.9	98.4	13.8	53.6	61.9	63	62	58.6	49.8	48.5	46.3	41.2
123		11/19/2021	1:24:33 PM	51.2	63.7	51.1	50.9	98.6	11.9	61.5	58.8	61.5	59.1	54.5	50.0	49.4	47.3	41.4
124		11/19/2021	1:24:34 PM	51.1	64.1	51.1	51.0	98.4	12.1	54.9	58.8	62	58.3	52.7	49.9	48.9	47.3	41.5
125		11/19/2021	1:24:35 PM	51.6	62.1	51.4	51.1	98.4	11.2	52.7	57.9	62.4	61	53.3	51.7	49.4	47.6	42.2
126		11/19/2021	1:24:36 PM	53.1	65.1	52.7	51.4	98.3	10	54.2	57.8	60.8	57.4	53.5	51.2	50.4	49.1	45.2
127		11/19/2021	1:24:37 PM	55.8	68.0	55.0	52.7	98.3	7.8	52.9	58.6	60.9	59.9	54.4	52.3	51.9	52.5	47.8
128		11/19/2021	1:24:38 PM	58.3	74.7	57.4	55.1	98.5	6.5	52.0	58	62.3	57.8	54.8	54.1	54.2	55.8	49.1
129		11/19/2021	1:24:39 PM	58.9	72.8	58.4	57.4	98.1	7.7	49.5	57.9	61.6	62.2	56.9	55.8	54.9	56.6	49.2
130		11/19/2021	1:24:40 PM	57.3	69.1	58.4	57.6	98.3	9.3	49.5	56.2	63.6	62.7	56.9	55.3	54	54.1	48.7
131		11/19/2021	1:24:41 PM	56.4	68.7	57.6	56.9	98.1	8.1	56.2	57.7	63.5	61	54.5	53.8	51.8	53.3	48.7
132		11/19/2021	1:24:42 PM	55.0	67.5	56.9	55.7	98.4	10.6	51.9	55.6	64.8	60.5	55.4	55.0	49.8	51.7	47.5
133		11/19/2021	1:24:43 PM	55.5	67.8	55.7	55.5	98.3	9.9	53.3	56.7	65.6	61	56.3	55.1	50.5	52.3	47.3
134		11/19/2021	1:24:44 PM	59.9	72.9	59.0	55.7	98.3	7.8	51.8	56.3	65.7	60.8	56.7	57.0	55.3	57.3	51
135		11/19/2021	1:24:45 PM	62.5	75.4	61.6	59.0	98.1	7.1	52.0	66.8	66.5	63.5	61.9	58.2	58.8	60.4	52
136		11/19/2021	1:24:46 PM	61.0	74.2	61.8	61.1	98.1	7.8	52.1	67.8	66.4	64	62.9	58.8	56.4	58.9	50.4
137		11/19/2021	1:24:47 PM	58.9	71.9	61.1	59.7	98.4	7.7	66.0	57.6	66	62.8	58.2	56.6	52.4	57	49.7
138		11/19/2021	1:24:48 PM	55.3	69.1	59.7	57.4	98.4	9.6	56.6	56.3	65	61.8	56.7	54.5	50.2	52.7	46.7
139		11/19/2021	1:24:49 PM	53.1	65.4	57.4	55.2	98.5	11.4	49.9	55.3	63	61.9	55.2	52.9	48.5	50	44.5
140		11/19/2021	1:24:50 PM	51.3	63.7	55.1	53.2	98.3	13.5	50.6	57.7	61.9	60.5	56.5	52.6	47.3	46.8	42.7
141		11/19/2021	1:24:51 PM	50.5	64.1	53.1	51.7	98.4	14.7	50.5	56.3	63.2	63.2	55.3	50.9	47.3	46.4	41.1
142		11/19/2021	1:24:52 PM	50.0	60.7	51.6	50.7	98.4	13.4	49.7	55.9	63	62.4	55.3	50.6	48.3	45	39.7
143		11/19/2021	1:24:53 PM	49.4	61.5	50.7	49.9	98.4	13.4	47.6	56.3	63.8	57.5	54.5	50.3	46.8	44.8	38.7
144		11/19/2021	1:24:54 PM	48.9	61.5	50.0	49.3	98.3	16	51.3	54.2	63.3	60.5	53.5	51.1	46.5	43.6	37.9
145		11/19/2021	1:24:55 PM	47.5	59.7	49.3	48.2	98.5	16.6	49.8	54.5	64	62.8	53.6	50.8	44.7	41.9	36.6
146		11/19/2021	1:24:56 PM	46.7	58.4	48.2	47.3	98.4	16.7	50.5	53.3	62.4	60.1	53.3	48.1	44.4	41.2	36
147		11/19/2021	1:24:57 PM	47.0	58.4	47.3	47.1	98.3	17.1	45.7	55.8	63.2	60.6	54.4	48.8	44.2	40	35.5
148		11/19/2021	1:24:58 PM	46.2	59.7	47.2	46.6	98.1	16.8	48.3	54.9	61.8	62.1	55.2	49.9	42.6	39.5	35
149		11/19/2021	1:24:59 PM	47.2	58.4	47.1	46.6	98.3	15.4	49.6	55.1	62.4	59.1	54.6	50.5	44.2	41	35.4
150		11/19/2021	1:25:00 PM	48.2	59.7	47.8	47.1	98.5	15.3	49.8	56.2	59	60.3	55.9	52.4	44.1	41.3	36.3
151		11/19/2021	1:25:01 PM	48.2	58.4	48.1	47.8	98.1	15	54.6	54.2	62.6	59.1	53.6	51.9	44.8	42.5	37.1
152		11/19/2021	1:25:02 PM	48.7	59.7	48.6	48.1	98.4	14.7	51.7	54.4	62.2	61.1	54.3	51.5	45.5	43.4	37.4
153		11/19/2021	1:25:03 PM	48.6	59.7	48.8	48.5	98.3	14.5	49.6	54.4	63.1	59.4	54	50.9	45.6	44	37.6
154		11/19/2021	1:25:04 PM	48.8	60.7	48.8	48.4	98.4	13.7	49.4	53.8	62.8	58.5	54	50.2	45.3	44.8	37.9
155		11/19/2021	1:25:05 PM	48.0	58.4	48.7	48.3	98.4	15.3	47.3	56.6	61.7	59.4	56.5	50.3	44.3	43	38.2
156		11/19/2021	1:25:06 PM	47.2	58.4	48.3	47.7	98.4	15.8	52.0	55	62.9	59.7	54.5	49.8	43.3	42	36.8
157		11/19/2021	1:25:07 PM	47.5	59.7	47.8	47.5	98.3	16.2	51.3	55.3	62.6	60.3	56.1	49.8	43.6	41.8	36.7
158		11/19/2021	1:25:08 PM	48.6	60.7	48.4	47.4	98.3	15.2	46.8	52.3	63.5	59.9	57.8	50.6	44.4	42.9	37.1
159		11/19/2021	1:25:09 PM	48.1	62.1	48.8	48.1	98.1	14.2	50.4	53.4	63.6	57.8	54.9	50.5	45.5	42.2	38.1
160		11/19/2021	1:25:10 PM	48.1	59.7	48.2	48.0	98.5	15.2	51.0	53	62.8	59.3	55.4	49.6	44.6	43	38.6
161		11/19/2021	1:25:11 PM	47.7	60.7	48.0	47.7	98.3	15.9	49.2	52.2	63.3	57.2	57.6	49.4	42.2	42.7	37.9
162		11/19/2021	1:25:12 PM	46.9	60.7	47.9	47.2	98.3	16.8	50.6	53.9	63.8	59.1	58.3	48.7	42	41	36.7
163		11/19/2021	1:25:13 PM	46.5	58.4	47.2	46.7	98.3	17.8	48.8	55.7	60.8	59.3	56.8	48.2	40.9	40.5	36.2
164		11/19/2021	1:25:14 PM	46.8	62.7	47.4	46.7	98.4	16	47.9	55.5	65.2	59	55.1	48.6	42.3	41.2	37.9
165		11/19/2021	1:25:15 PM	47.2	59.7	47.1	46.6	98.4	16.4	52.7	51.9	63.4	61.2	55.7	48.2	42.1	41	37.8
166		11/19/2021	1:25:16 PM	49.8	62.1	49.1	47.1	98.1	14.5	53.8	54.6	62.6	58.9	57.7	48.7	46.5	44.3	40.7
167		11/19/2021	1:25:17 PM	49.6	60.7	49.5	49.2	98.1	14.4	52.8	55.6	63.4	59.3	59.4	48.8	45.5	45.6	39.8
168		11/19/2021	1:25:18 PM	49.8	60.7	49.8	49.4	98.4	13.7	49.6	58.3	64.1	57.3	58	48.8	46.3	45.1	40.5
169		11/19/2021	1:25:19 PM	50.1	60.7	50.0	49.5	98.3	13.6	58.0	53.7	63.4	60.5	56.6	49.1	47.1	45.3	41.6
170		11/19/2021	1:25:20 PM	52.9	64.8	52.2	50.0	98.5	11.8	49.6	53.7	61.7	62	58.6	49.4	47.2	48.1	46.5
171		11/19/2021	1:25:21 PM	52.4	64.1	52.6	52.2	98.4	12.2	48.8	55	62.3	61	58.6	49.5	47.7	48	45
172		11/19/2021	1:25:22 PM	52.7	64.8	52.6	52.2	98.3	12.6	51.2	52.7	62.2	63.6	58.3	50.1	48.3	49.2	44.4
173		11/19/2021	1:25:23 PM	49.9	60.7	52.6	51.0	98.4	14.4	51.5	55.9	62.4	60.4	57.2	50.3	45.7	45.8	40.4
174		11/19/2021	1:25:24 PM	47.4	59.7	51.0	49.1	98.4	16.2	53.9	56.7	61.5	60.3	56.3	46.5	43.1	42.7	37.7
175		11/19/2021	1:25:25 PM	47.3	59.7	49.0	48.1	98.1	16.3	53.6	55.4	62.9	59.4	55.1	43.9	41.4	42.9	39.7
176		11/19/2021	1:25:26 PM	46.0	58.4	48.1	46.8	98.3	17.7	51.5	56	62.3	61.1	54.8	44.3	40.3	41.7	37.2
177		11/19/2021	1:25:27 PM	45.1	56.7	46.8	45.7	98.4	18.4	51.2	56	64.4	58.7	54.5	42.8	39.7	40	35.6
178		11/19/2021	1:25:28 PM	44.8	56.7	45.7	45.2	98.4	18	51.6	53.9	64.9	57.6	53.4	43.6	40.4	39	35.4
179		11/19/2021	1:25:29 PM	44.7	58.4	45.2	44.9	98.1	17.2	51.8	58.2	62.8	58.2	53.7	43.4	39.8	39	35.5
180		11/19/2021	1:25:30 PM	45.3	53.7	45.2	44.8	98.3	16.9	54.5	53	62.7	57.7	54.6	44.1	41.2	39.7	35.6
181		11/19/2021	1:25:31 PM	45.4	56.7	45.4	45.2	98.4	17.4	46.1	52.6	63.5	57.7	54.5	43.7	42	40.4	35.4
182		11/19/2021	1:25:32 PM	45.0	56.7	45.4	45.1	98.3	17.9	50.2	55.1	63.3	60.6	54.4	44.3	40.5	39.6	34.6
183		11/19/2021	1:25:33 PM	45.4	59.7	45.3	45.1	98.3	17.6	51.2	53.3	63.9	58.5	53.7	44.7	40.8	39.2	35.5
184		11/19/2021	1:25:34 PM	46.4	58.4	46.1	45.3	98.3	17.9	54.8	53.2	63.9	62.6	54.4	44.6	42.3	41.1	37.6
185		11/19/2021	1:25:35 PM	45.3	53.7	46.0	45.5	98.4	17.5	54.7	54.3	62.6	59.1	53.1	44.0	40.1	40	36.4
186		11/19/2021	1:25:36 PM	45.7	56.7	45.7	45.6	98.3	17.2	55.7	56.8	62.7	58.9	53.5	43.9	40.3	40.5	36.9
187		11/19/2021	1:25:37 PM	46.3	58.4	46.1	45.7	98.3	16.4	57.6	54.7	63.3	60.1	53.5	45.1	41.5	41.5	37.3
188		11/19/2021	1:25:38 PM	46.5	56.7	46.4	46.1	98.4	17.3	52.2	54.7	63.2	59	53.5	45.2	42.3	41.8	37.5
189		11/19/2021	1:25:39 PM	46.8	58.4	46.7	46.4	98.3	16.8	50.0	56.2	63.6	59.1	55.5	46.0	42.5	41.4	36.9
190		11/19/2021	1:25:40 PM	47.6	60.7	47.4	46.7	98.5	16.6	54.5	55.6	63.3	60	56.4	46.2	43.1	42.7	38.2
191		11/19/2021	1:25:41 PM	48.0	58.4	47.8	47.4	98.4	16.3	52.8	55.2	63.6	61.3	57.9	45.0	42.2	43.6	39
192		11/19/2021	1:25:42 PM	47.7	58.4	47.9	47.7	98.4	16.4	46.9	57.3	63.4	59.2	58	44.8	41.6	43.5	39.4
193		11/19/2021	1:25:43 PM	47.3	58.4	47.7	47.4	98.4	16.5	48.9	54.4	65.6	59.6	56.7	45.5	41.9	42.7	38.4
194		11/19/2021	1:25:44 PM	47.7	58.4	47.7	47.4	98.4	16.5	51.5	55	64.2	59.7	59.5	45.8	42.1	41.6	37.9
195		11/19/2021	1:25:45 PM	48.4	60.7	48.2	47.6	98.3	16.1	50.1	54.2	62.4	60.1	60	46.8	43.2	41.8	38.2
196		11/19/2021	1:25:46 PM	48.8	59.7	48.7	48.2	98.3	15.7	49.0	53.7	63.1	59.2	60.5	46.4	43.5	42.9	39.1
197		11/19/2021	1:25:47 PM	49.3	62.1	49.2	48.5	98.4	16.8	50.8	55.2	62.4	59.6	60.4	47.6	44.2	43.4	39.3

NM2 KWAQN 1020 El Centro Street, South Pasadena. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
198		11/19/2021	1:25:48 PM	50.3	62.1	49.9	49.3	98.1	15.6	46.8	56.2	64.3	62.3	62.4	48.8	44.6	44.8	40.2
199		11/19/2021	1:25:49 PM	48.5	62.1	49.8	49.0	98.3	16.1	52.1	57.2	62.5	60.7	60.4	48.3	43.1	43.2	38.3
200		11/19/2021	1:25:50 PM	48.0	66.0	49.3	48.3	98.4	17.6	51.6	55	63	61.6	58.8	47.1	43.3	42.4	37.8
201		11/19/2021	1:25:51 PM	46.5	59.7	48.3	47.2	98.3	18.6	57.6	54.6	64.8	63	56	45.1	41.4	40.5	37.6
202		11/19/2021	1:25:52 PM	45.9	61.5	47.2	46.4	98.1	18.9	57.1	54.6	66.8	61	53.1	44.6	40.3	40.4	38.4
203		11/19/2021	1:25:53 PM	45.4	56.7	46.4	45.8	98.4	17.6	50.3	52.6	66.2	58.1	51.7	43.2	40.3	40.3	38
204		11/19/2021	1:25:54 PM	46.0	53.7	46.0	45.8	98.3	17.4	51.0	56.1	64.6	60	52.7	45.4	40.5	40.7	38.2
205		11/19/2021	1:25:55 PM	46.1	58.4	46.1	45.9	98.4	16.7	55.5	56.1	64.2	59.1	52.2	45.8	41.6	41	38.2
206		11/19/2021	1:25:56 PM	46.3	56.7	46.3	46.0	98.4	16.8	54.7	55.2	63.6	57.8	51.3	45.3	41.5	41.3	38.4
207		11/19/2021	1:25:57 PM	47.6	58.4	47.1	46.3	98.1	16.3	56.4	54.6	65	61.4	51.2	47.6	42.2	42.9	40.1
208		11/19/2021	1:25:58 PM	48.2	59.7	47.9	47.1	98.3	16.8	55.0	54.1	64.5	62	52.2	47.2	43.2	42.9	40.3
209		11/19/2021	1:25:59 PM	50.3	64.1	49.7	47.9	98.1	15.1	58.4	55	64.2	61.3	56	48.8	45.2	45	42.5
210		11/19/2021	1:26:00 PM	53.3	66.9	52.4	49.7	98.3	16.2	60.1	55	64.8	68.2	59.5	50.7	49.3	47.9	44.2

32.2	27.9	28.5	54.7	56.6	65.1	59.9	53	44.3	41.7	41.2	39.1	34.8
32.1	28.3	28.5	52.9	56.7	65	58.8	52	44.9	41.3	40.8	38	33.3
33.1	28.2	28.4	54	56.1	65.3	59.3	53.6	45.1	41.9	41.2	37.9	33.1
33.7	28	28.5	55.5	58.1	66.7	63	55.2	45.3	43.1	42.3	39.6	33.6
34.1	27.9	28.5	53.9	57.9	66.6	62.4	56.4	46.7	44.2	43.2	39.7	33.9
34.8	28.3	28.5	54.2	56.5	65.3	61.4	55.2	46.6	44.6	43.5	39.6	34.6
35.5	28.9	28.6	54.1	55.2	64.7	60.7	54.8	46.3	45	44.3	40.3	35.3
34.3	29	28.7	54.3	56.8	64.4	60.5	54.6	46.4	45.5	44.1	40.2	35.2
33.7	28.4	28.6	53.3	57.5	64.1	60.6	55.6	46.4	44.8	43.5	39.5	34.5
34.8	31.6	29.7	55	58	65.4	60.9	55.6	46.3	44.1	42.9	39.2	34.6
34.2	29.3	28.6	55.6	57.6	66.4	62	55.1	46.7	43.7	42.9	39.5	34.6
34.5	28.9	28.4	56.7	62.2	66.7	61	54.5	47.9	45.1	43.1	39.8	34.5
36.4	30.7	28.6	56	64.2	66.1	61.4	55.3	48.7	47.5	44.4	41.4	35.9
35.3	29.8	28.5	54.2	65.3	65.3	62.1	55.6	49.2	48.1	44.8	41.4	35.9
34.6	28.7	28.6	53.7	64.6	64.6	62.1	55.9	50.2	48.1	45	41.1	35.5
34.9	28.8	28.5	54.1	62.9	63.7	61.4	56.2	51.1	48.3	45.2	41.4	35
35.2	29.2	28.6	52.5	60.9	63.1	61	56.2	51.5	49.4	46.5	41.6	35.1
34.8	28.8	28.5	53.2	61.3	62.7	61.9	58	50.8	49.2	46.4	41.4	35.1
34.8	28.5	28.5	60.5	60.8	63	61.8	57.7	50.3	49.4	47.1	41.4	34.9
34.8	28.9	28.6	59.4	59.7	62.6	60.1	55.8	50.2	49.2	47.3	41.5	34.8
35.3	29	28.5	57.2	58.9	62.4	60.7	54.3	51.2	49.3	47.5	42	35.2
37.1	29.7	28.6	54.9	58.7	62.2	60.1	54	51.4	50.1	48.7	44.5	36.6
39.5	31.4	28.7	54.7	59	61.9	59.6	54.2	52	51.4	51.6	47	38.8
41.4	32.4	28.9	53.8	58.3	62.5	59.5	54.7	53.5	53.7	54.9	48.4	40.7
42.3	33.9	29.2	53	58.5	62.1	61.5	56.4	55.2	54.6	56.1	49	41.7
41.1	33.6	29	51.7	57.8	63.4	62.3	57	55.6	54.5	56	49.1	41.7
39.6	32.3	28.8	55.6	57.9	64.1	62.6	56.6	55.1	54.1	54.8	48.8	41.3
37.1	30.7	28.7	55.2	57.2	64.8	61.5	55.8	55	52.7	53.9	48.8	40.2
37.5	31.4	28.9	53.8	57	65.4	61.9	56.2	55.2	51	52.5	47.9	38.6
41.4	32.9	28.9	53.5	56.9	65.8	61.2	56.7	56.6	54.6	56.4	50.2	40.6
43.1	34.3	29.6	52.4	66.4	66.6	63.3	60.8	57.8	57.8	59.5	51.5	42.4
41.6	33.9	29.5	52.7	68.4	66.6	63.8	62.3	58.5	57.9	59.8	51.3	42.4
39.8	32.1	28.7	64.2	66.7	66.7	64.2	61.9	58.4	56.7	59	50.6	41.8
36.3	30.4	28.8	63.6	63.2	66.3	63.1	59.8	57.3	54.4	57.7	50.1	40.5
36.9	31.6	28.9	60.2	60.2	65.7	62.5	58.1	55.7	52.3	55.2	48.1	38.4
36.4	31.6	28.7	56.6	58.2	63.9	61.9	57	54.2	50.4	52.5	46.1	37.5
36	31.2	28.8	53.9	57.4	63.6	62.7	56.3	53.3	48.8	49.8	44.3	37
34.1	29.5	28.7	52.1	57.1	63.2	63.4	55.7	52.3	48.3	48	42.5	36.3
33.6	29.2	28.6	50.7	56.3	63.8	62.3	55.4	51.2	48.1	46.4	41	35
33.1	29.7	28.8	51.5	56.4	63.6	60.6	54.9	51.1	47.5	45.5	39.6	34.2
32.4	28.5	28.5	50.4	55.5	64	62.7	54.1	51.3	46.7	44.3	38.6	33.5
31.5	28	28.4	50.5	54.8	64.2	61.7	54	50.7	45.5	42.9	37.5	32.8
31.5	28.2	28.6	50.5	55.3	63.7	60.8	54.2	49.2	44.9	41.9	36.5	32.1
31.5	30.4	29.2	48.4	55.4	62.9	61.7	55	49.8	44.4	40.8	36	31.7
31.8	33	29.6	49.4	55.7	62.5	61.4	55.1	50.4	44.1	40.9	35.4	31.8
31.8	33.2	29.8	50.4	56.5	62.5	60.8	55.5	52	44.2	41.2	36.1	31.8
32.6	28.3	28.5	53.5	55.8	62.2	60.2	55.4	52.1	44.6	42.2	36.8	32.4
33.3	28.6	28.5	53.5	55	62.5	60.8	54.4	51.9	45.3	43.1	37.2	33
33.3	28.2	28.5	52.4	54.9	62.8	60.7	54.7	51.9	45.9	43.6	37.5	33.3
32.7	28.2	28.5	51.6	54.7	63.1	60	54.2	51.1	45.5	44.5	37.8	33.2
32.1	28	28.5	49.8	56.1	62.9	59.4	56.1	50.9	45.5	44.5	38.2	32.9
32.1	27.8	28.5	51.1	56	63.1	59.8	56	50.5	44.8	43.5	37.9	32.5
32.2	28.1	28.5	51.6	56.1	62.8	60.2	56	50.4	44.1	42.7	37.4	32.3
32.8	28.7	28.6	51.4	55.1	63.3	60.3	57.3	50.5	44.5	43	37.1	32.7
34.8	30.5	28.7	50.5	54	63.8	59.8	57	50.7	45.7	43.3	37.8	34.2
33.9	29.8	28.9	51.1	53.4	63.4	59.5	56	50.5	45.2	42.8	38.4	34.2
33.5	30	30	50.7	53.4	63.4	59.3	57.1	49.9	44.5	42.8	38.3	33.8
32.8	29	28.8	50.8	53.9	63.9	59.4	58	49.8	43.4	42.8	38	33.8
32	28.4	28.5	50.6	55	63.7	59.3	58.1	49	42.3	41.7	37.2	33.1
33.2	28.7	28.6	50.1	55.5	64.3	59.7	57.2	49.1	42.5	41.7	38.1	33.2
35.2	29.7	28.6	51.7	54.9	64.5	60.9	56	48.6	42.1	41	37.8	34.7
37.5	31.1	28.8	53.4	54.7	63.7	60.8	57.3	48.8	45.7	43.4	39.9	36.7
36	30.1	28.6	53.4	55.4	63.4	60.2	58.9	48.9	46.2	44.9	40.2	36.7
37.2	31.2	28.7	53	58	64	59.3	58.9	48.9	46.1	45.3	40.5	37
37.7	31.5	28.6	56.8	56.6	64.4	59.9	58.3	49.3	46.7	45.3	41.3	37.6
41.1	34.9	28.9	56	55.3	63.4	61.6	58.4	49.4	47.2	47.5	45.4	40.3
40.1	34	28.7	52.9	55.1	62.7	61.7	58.7	49.7	47.7	47.9	45.9	40.9
39.3	33.1	28.7	51.6	55	62.4	63.3	58.8	50	48	48.8	44.9	39.8
36	30.9	28.6	51.6	55.5	62.7	63.1	58.6	50.4	48	48.8	44.6	39.5
33.2	28.4	28.5	53.7	56.7	62.3	62	57.9	49.9	46.6	47	42.4	37.5
32.9	28.1	28.5	55.2	56.1	62.8	60.7	56.9	48	44.6	44.7	40.2	35.3
31.9	27.9	28.6	52.9	56.1	63	60.9	56	46	42.8	43.7	39.9	33.9
31.4	27.8	28.6	52	56.2	64.1	60.6	55.1	45	41.5	42.4	38.2	32.8
31.6	28.1	28.5	52.5	56	64.5	59.5	54.8	43.9	40.6	41	36.7	31.9
32.3	28	28.5	52.7	57.4	64.8	58.7	54.1	43.9	40.8	39.9	36.2	32.1
32.8	28.1	28.5	54.2	57.3	63.5	58.1	54.4	44	41	39.7	35.7	32.5
32.8	28.4	28.5	53.8	55.1	63.6	58.5	54.5	44	41.6	40.2	35.7	32.7
32.1	28	28.5	50.9	55	63.8	59.8	54.7	44.3	41.5	40.3	35.4	32.6
32.9	32.2	29.1	51.6	55	63.8	59.8	54.6	44.6	40.9	39.8	35.4	32.8
34.3	29.2	28.5	53.9	54.3	64.2	62.1	54.4	44.8	41.9	40.6	36.9	33.8
32.8	28.5	28.5	55.4	54.5	63.8	62	54.2	44.5	41.7	40.6	36.9	33.8
33.4	28.8	28.5	55.9	56.2	63.5	60.4	53.7	44.5	40.9	40.4	36.8	33.4
33.1	28.6	28.5	57.8	56.2	63.4	60.3	53.6	44.8	41.2	41.2	37.2	33.3
33.4	28.5	28.5	56.7	55.8	63.5	59.8	53.7	45.1	42	41.6	37.5	33.4
33.3	28.9	28.6	54	56	64.1	59.3	55.1	45.8	42.4	41.6	37.5	33.3
33.4	28.6	28.6	53.7	56	63.6	60	56.1	46.2	42.9	42.3	37.9	33.4
33.3	28.4	28.5	54.2	55.8	63.7	61.2	57.4	46	42.9	43.3	38.7	33.4
33.2	28.5	28.6	52.9	57	63.6	60.7	58.2	45.4	42.5	43.6	39.2	33.4
33.3	28.4	28.6	50.1	56.5	64.9	59.9	57.7	45.5	42.1	43.3	39.2	33.3
33.4	28.6	28.6	51	55.4	65.3	60.3	59	45.8	42.2	42.9	38.6	33.4
34.1	29.2	28.6	51.2	55.6	64.3	60.1	59.8	46.6	42.9	42.2	38.3	34
34.6	29.1	28.6	50.7	54.6	63.3	60	60.6	46.6	43.4	42.7	39	34.6
34.6	29.1	28.6	50.9	55.1	63.9	59.8	60.6	47.5	44	43.2	39.2	34.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
35.2	29.2	28.6	50.2	55.9	64.1	61.8	61.8	48.3	44.5	44.3	40.1	35.3
34.2	29.2	28.7	51.3	57	63.5	61.5	61.8	48.6	44.2	44.3	40.1	35.2
33.3	29	28.5	51.7	56.9	63.1	61.5	60.9	48.5	44.6	44	39.1	34.6
33.1	28.5	28.6	56.5	55.7	64.5	62.5	59.7	47.4	43.1	42.6	38.2	33.7
33.7	29.7	28.8	57.7	55.3	66.5	62.4	57.6	46.1	42.2	41.4	38.4	33.7
32.9	28.6	28.6	57	54.8	66.6	61.5	55.3	45.2	41.1	40.8	38.1	33.5
33	28.7	28.6	53.9	55.8	66.2	60.1	53.7	45.1	40.7	40.6	38.3	33.1
33.1	28.6	28.5	55.5	56.2	65.3	60.2	53.2	45.7	41.4	40.9	38.3	33.1
33.3	28.5	28.5	55	55.8	64.7	59.4	52.5	45.5	41.5	41.3	38.4	33.2
34.2	28.9	28.6	56.4	56.2	65	60.6	51.9	47.2	42	42.4	39.6	33.9
35.5	30.1	28.6	56.3	54.7	64.8	61.7	52.3	47.2	42.8	42.8	40.2	35.2
37.9	31.6	28.6	57.6	55.2	65	62	55.1	48.5	44.6	44.5	41.9	37.1
39.9	33.2	28.8	59.5	55.4	64.9	66.9	58.6	50.2	48.2	47	43.5	39

28.1	28.6	52.9	55.4	63.7	58.8	52	43.8	41.2	40.8	38	33.4	27.9
28.2	28.6	51.4	55.6	63.9	57.9	51.3	44.1	40.9	40.4	37.3	32.6	27.9
28.3	28.5	51.8	54.9	64.1	57.9	51.2	44.2	40.9	40.4	37.2	32.5	28
28.3	28.5	53.9	55.1	65.3	59.2	53.7	44.7	41.8	41.2	37.8	33	28.1
28.1	28.5	51.8	56.5	65.3	61.5	55.2	45.3	43	42.3	39.3	33.5	28
28.2	28.5	53.1	54.8	63.9	59.4	54.1	46.2	44.2	43.2	39.3	33.9	27.9
28.7	28.6	52.2	54.2	64	59.6	53.9	45.8	44.3	43.5	39.6	34.6	28.3
29.4	28.7	52.5	54.6	63.8	59.9	53.8	45.6	44.8	43.5	39.5	34.5	28.7
28.7	28.6	52.3	55.9	63.3	59.5	54.5	46	44	42.9	39.1	34	28.5
31.1	29.6	52.4	57.3	63.9	60	54.5	45.9	43	42.2	39.1	34.1	28.5
31	29.5	54.2	56.9	65.5	60.9	54.3	46	43	42	39	34.3	30
30	28.9	54.5	57.6	65.8	59.8	53.7	46.7	43.6	42.8	39.5	34.3	29.4
30.3	28.6	54.3	62.3	64.8	59.3	53.7	47.8	45.1	43.1	39.8	34.5	29.4
30.3	28.6	52.7	64	64.5	61.1	55	48.5	47.4	44.4	41.1	35.5	30
29.9	28.6	52.5	62.9	63.4	61.1	55.2	49.2	47.8	44.6	40.8	34.9	29.2
29.2	28.6	52.6	61	63.1	60.7	55.8	50.1	47.8	44.9	40.9	34.8	28.9
29.2	28.6	51	58.9	61.4	60.4	55.4	50.6	48.2	45.2	41.3	35	29
29.1	28.6	50.9	59	61.2	60.2	55.5	50.2	48.7	46	41.2	34.9	28.8
28.9	28.5	53.3	59.4	61.7	60.2	55.8	49.8	48.9	46.4	41.3	34.7	28.6
28.8	28.6	57.2	58.9	61.6	59.1	54.1	49.6	48.9	46.9	41.3	34.7	28.7
29	28.6	54.9	58.2	61.8	59.2	53.5	50.1	49.1	47.2	41.5	34.8	28.8
29.6	28.6	54	57.8	60.9	58.6	53.3	51	49.3	47.5	42	35.2	29
30.8	28.7	53.6	57.6	61	58.6	53.4	51.2	50.1	48.7	44.5	36.6	29.6
32	28.9	52.3	57.7	61	58.2	54	52	51.5	51.7	47.1	38.9	30.8
33.3	29.1	51	57.7	61.3	58.4	54.7	53.3	53.6	54.9	48.3	40.7	32
33.5	29.1	50.2	56.9	61.4	61.4	56.1	55.1	54.1	54.8	48.7	41.3	33.3
33.5	29	49.7	56.8	63.2	61.1	55.3	54.3	52.7	53.9	48.5	40.2	32.7
32.7	28.9	53.4	56.3	62.9	60.4	54.8	54.2	51.1	52.5	48	38.5	31.5
31.7	28.9	52.8	55.6	64.8	60.8	55.6	54.8	50.5	52.2	47.5	37.9	31.3
32.6	28.9	52.2	55.5	65	60	55.6	54.9	50.9	52.6	47.6	37.9	31.4
33.8	29.4	51.2	56.5	65.1	60.8	56.8	56.5	54.6	56.4	50.2	40.6	32.6
34.2	29.6	51.1	66.3	65.6	62.8	60.8	57.6	56.7	59	50.6	41.8	33.7
33.9	29.4	52.7	63.3	65.5	62.7	59.9	57.3	54.5	57.7	50.1	40.5	32.6
32.5	28.9	60.3	60.2	65.6	62	58.1	55.8	52.3	55.2	48.1	38.4	31.3
31.7	28.9	56.7	57.7	64	61.4	56.4	54.2	50.4	52.6	46.1	37.5	31.2
31.7	28.9	54	57.4	62.7	61.2	56.3	53.3	48.7	49.9	44.3	36.8	31.2
31.8	28.9	52.2	56.7	62.7	61.2	55.6	51.8	47.8	48	42.6	36.3	31.2
31.3	28.8	50.6	55.9	62.6	62.2	55.3	51.2	47.6	46.4	41	35	30.2
30.2	28.7	48.8	55.6	63	59.8	54.8	50.6	47.3	45.4	39.6	34.1	29.5
29.9	28.8	48.5	54.9	63.3	59.4	53.7	50.6	46.7	44.3	38.6	33.5	29.1
29.7	28.8	49.6	54.3	63.3	60.7	53.4	50.7	45.5	43	37.5	32.8	29
29	28.6	49.3	53.6	62.7	60.5	53.1	49.2	44.8	41.9	36.5	32	28.4
28.4	28.5	47.7	53.6	62.4	60.2	53.4	48.7	44.4	40.8	35.9	31.7	28.2
30.1	29.1	47.3	54.1	62.1	60.7	54.1	49.3	43.3	40	35.3	31.5	28.2
32.2	29.4	47.8	53.9	61.6	60.1	54.5	49.2	43.3	39.9	35.2	31.6	30.1
33.8	30.1	49.3	55.5	60.6	60	54.4	50.3	43.8	40.6	35.4	31.7	32.1
32.1	29.4	49.3	54.8	60.6	59.2	54.2	51.8	43.9	41.2	36.1	31.8	30.2
30.2	28.9	52.4	53.9	62.1	59.7	53.9	51.6	44.4	42.2	36.8	32.4	29.3
29.3	28.7	50.5	54	61.9	59.5	54	51	45.2	43.1	37.2	33	28.6
28.7	28.6	49.8	53.7	62.2	58.9	53.8	50.4	45	43.6	37.4	32.9	28.4
28.4	28.5	48.4	54.4	61.8	58.5	53.8	50.3	44.7	43.5	37.7	32.4	28.1
28.1	28.5	48.5	54.9	62.1	58.8	55.1	49.9	43.8	42.6	37.2	32.2	27.8
28.1	28.6	50.8	55.1	62.1	59.6	55	49.7	43.5	42.1	36.9	32.1	27.9
28.7	28.6	48.6	53.4	62.6	59.8	55.7	49.4	43	41.7	36.8	32.2	28
30.2	28.7	47.6	53	63.3	58.5	55.7	50.4	44.6	42.4	37.1	32.9	28.8
30	28.9	49.8	52.5	62.7	58	55.4	49.9	44.5	42.3	37.5	33.5	29.3
30.2	30	49	52.6	62.9	58.1	55.5	49.4	43.2	42.5	38	33.3	29
30.2	30	49.3	52.6	63	58	56.9	49	42.4	41.7	37.2	33.1	29.4
29.4	29.3	49.7	53.2	62	58.5	57.2	48.4	41.4	41	36.6	32.5	28.8
29	28.8	48.3	54.8	62.1	58.9	55.8	48.4	41.8	40.8	36.6	32.4	28.7
29.5	28.7	48.3	53.3	63.4	58.4	55.2	47.9	41.6	40.8	37.1	32.9	28.6
30.6	28.7	51	52.9	63	59.4	56	48.2	42.2	41	37.8	34.7	29.5
30.7	28.7	52.5	53.7	62.3	59.3	57.3	48.5	45.3	43.5	39.7	36.2	30.2
30.9	28.7	51	55.5	63.2	58	58.3	48.6	45.2	44.8	39.7	36.1	30.2
31.4	28.7	51.1	54.9	63.3	58.2	57.2	48.4	46.1	44.6	40.1	36.8	30.7
34.1	28.8	52.9	54.3	62.2	59.7	57.4	48.7	46.6	45.3	41.3	37.6	31.4
34.8	28.8	50.7	54	62.1	60.6	57.9	49.2	47.2	47.5	44.9	39.8	33.6
33.6	28.7	50.6	53.6	61.6	61.1	58.1	49.2	47.4	47.7	44.5	39.4	33.1
33.4	28.7	50.7	53.7	62.2	61.5	57.5	49.8	46.6	47	42.4	37.6	31.9
31.9	28.7	50.8	55.6	61.5	60.5	56.9	48.1	44.7	44.8	40	35.3	30
30	28.6	52.7	55.2	61.9	59.8	55.7	45.9	42.8	43.8	39.4	33.9	28.9
28.9	28.6	51.5	55.4	62.1	59.9	55	44.9	41.4	42.4	38.2	32.8	28.3
28.3	28.6	51.1	55.7	62.3	59.3	54.6	43.8	40.4	41.1	36.7	31.9	27.9
28.2	28.6	50.8	54.7	63.3	58.4	53.8	43.6	40	39.8	35.9	31.7	27.9
28.1	28.6	51.1	54.7	63.1	58.1	53.7	43.4	40	39.4	35.6	31.7	28
28.1	28.5	51.4	55	62.9	57.6	53.8	43.3	40	39.2	35.3	32	28
28.3	28.5	50.7	53.4	62.4	57.5	54.2	43.4	40.9	39.7	35.4	32.5	28.1
28.3	28.6	50.3	53.4	63.2	57.5	54	43.8	40.8	39.7	34.9	32.3	28.1
31.6	29	49.3	53.9	63.1	58.8	53.9	44	40.5	39.3	35	32.4	28
31.7	28.9	51.7	53.3	63.7	58.8	53.7	44.4	40.8	39.4	35.4	32.8	30.3
30.3	28.7	53.8	52.7	63.1	60.4	53.5	44.1	40.8	40.2	36.6	33.2	29.2
29.2	28.6	52.8	54.1	62.7	59.5	53.3	43.9	40.2	40.1	36.6	33.1	28.9
29	28.6	55.9	55	62.6	59.5	53.2	44.1	40.6	40.4	36.7	33.2	28.7
28.7	28.5	54	54.7	62.6	59.2	53.3	44.5	41.2	41.2	37.2	33.2	28.6
28.8	28.6	51.8	54.7	63.1	58.8	53.1	45.1	41.8	41.3	37.1	33.2	28.5
28.8	28.6	52.3	55.4	62.9	59.2	55.2	45.5	42.2	41.6	37.1	33.3	28.6
28.7	28.6	52.8	55.2	62.9	59.4	56.2	45.3	42.4	42.4	37.9	33.2	28.5
28.6	28.6	50.1	55.3	63.1	59.6	57.4	44.9	41.9	43.2	38.7	33.2	28.5
28.5	28.6	48.9	55.3	63.6	59	57	44.9	41.9	42.9	38.6	33.2	28.4
28.6	28.6	49.9	54.7	64.2	59.5	56.9	45.4	41.8	42.1	38.2	33.2	28.4
29.1	28.6	49.8	54.4	63	59.2	58.5	45.6	42	41.8	37.9	33.3	28.5
29.2	28.6	49.5	53.8	62.7	59.4	59.6	46	42.9	41.9	38.3	34	29
29.1	28.6	49.5	53.8	62.3	59	60.1	46.5	43.3	42.5	38.6	34.1	28.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
29.3	28.6	48.4	54.8	62.5	59.7	60.2	47.3	44	43.2	39.2	34.4	29.1
29.4	28.7	48.3	55.7	62.7	60.8	60.8	48.1	43.5	43.5	38.9	34.5	29.1
29.2	28.7	50.9	55.7	62.2	60.6	59.6	47.4	43.2	42.6	38.2	33.7	29
29	28.6	50.6	55	62.9	61.3	57.7	46	42.2	41.4	37.8	33.4	28.7
29.5	28.7	55.5	54.3	64.3	61.5	55.4	45.2	41.1	40.7	37.8	33.3	28.7
29.3	28.7	53.9	53.6	66.1	59.6	53.5	44	40.4	40.4	38	33.1	28.8
28.9	28.7	51.8	53.4	65.2	59.4	52.9	44	40.3	40.4	37.8	33	28.7
28.8	28.6	52.7	55.2	64.6	59.3	52.3	45	40.7	40.6	38.2	33	28.6
28.6	28.6	53.5	55.3	63.9	58.4	51.6	45.1	41.1	40.8	38.1	33.1	28.5
28.8	28.6	54	54.4	63.6	58.4	51.3	45.5	41.5	41.2	38.4	33.2	28.5
29.8	28.6	55.2	53	64.1	60.2	50.9	46.6	41.9	42.4	39.4	33.9	28.7
31.1	28.6	55.4	54.5	64.3	61.3	52.1	47	42.9	42.7	40.2	35.2	29.8
32.6	28.7	57.3	54.7	63.7	61.3	55	48.5	44.6	44.5	41.9	37.2	31.1

28.5	51.7	49.4	51.4	53.7	47	48.3	64.1	58.6	51.8	58.7	50.4	49.9	49.8	45.6
28.5	47	47.4	45.5	51.9	44.7	53.3	63.4	59.2	51.2	55.3	51.5	51.1	46.6	45.5
28.4	47.8	49.9	48.2	50.7	49.6	48.6	64.1	57	55.9	56.3	51.3	51.8	48.7	47.4
28.4	48.8	45.1	49.9	50.4	50.6	53.2	64.5	64.2	53.1	59	54	61.7	50.6	50.9
28.5	44	47.8	46.6	42.3	51.3	52.7	63.8	60.7	52	60	50	55.2	54.5	51
28.5	51.9	49.2	50.8	49.2	52.8	50.5	63.5	50.9	53.2	56.1	51	50.2	51.6	46.8
28.5	52.4	44.2	46.9	42.7	46.1	49.1	63.8	53.8	52.5	59.1	51.7	54.1	53	46.8
28.6	46.1	50.7	43.6	43.6	48.1	51	63.5	53.8	54.2	58.4	54.1	51.6	52.6	48.6
28.6	46.3	50.2	45.2	47.9	51.8	50.7	62	56.6	55.4	57.5	54.5	54.3	55	48.9
28.6	41.6	53.7	48.7	52.4	52.3	55.6	63.9	57.2	58.8	58.8	54.6	52.2	52.7	48.3
28.9	41.4	48.8	49	51.9	51.5	51.7	63.7	60.9	57.9	55.3	58.5	55.8	52.7	48.3
28.6	47.4	53.4	52.4	51.2	48.7	50.7	63.2	57.7	63.8	57	51.9	55.2	51.2	48.2
28.6	49.6	49.9	54.3	59.6	50.2	61.5	59.8	53.7	56.9	58.1	54.8	54.2	53	47.7
28.6	51	47.9	46.6	62.7	48.3	57.1	62.8	57.1	56.4	59.1	56.1	56.3	53.9	49
28.6	45.1	50.5	47.3	63.7	59.8	47.8	62	57.9	56.1	58.3	52.7	58.5	51.7	50.5
28.5	40.5	48.8	49.1	56.1	61.1	56	60.7	56.8	56.6	58.4	54	51.6	53.2	50.6
28.5	46.1	49.3	44.1	53.9	52.8	55.2	60.6	53.8	53.8	59.6	50.2	55.2	51.6	51.4
28.5	46.1	51.4	47.3	46.9	46.7	57.1	58.9	51.3	56.5	58	56.5	52.3	56.4	51.1
28.5	41.7	47.6	56.6	58	54.7	56.2	59.9	56.9	54.4	58.7	56.9	52	51.7	48.6
28.5	44.8	44.6	58.6	54.1	52.9	54.9	60.9	57.8	52.6	58.1	52.1	51	48.8	46.9
28.5	42.4	54	54.2	52.9	50.1	55.7	60.8	53.1	53.2	60.3	52.2	52.4	48.5	46.8
28.5	51.8	48.9	50.6	49.5	44.6	56.6	59.9	50.9	54.6	55.7	51.3	51.6	47.9	48.5
28.6	43.4	44.6	47.9	49.6	50.6	56.2	59.3	54	57.1	57.8	51.8	49.1	48.6	48.9
28.7	45.7	45.1	42.9	50.6	49.2	53.1	60.5	54.7	54.7	56.6	49.4	51.9	48.7	50.7
28.9	47.8	51.8	50.3	52.3	48.8	57.2	60.4	51.9	54.5	57.4	53.6	60.5	52.4	51.2
29	45.6	49.8	44.4	47.8	46.4	52.6	57.9	58.4	57.3	58.3	55.2	60.6	53.2	51.5
28.9	42.8	43.8	46.9	48.9	52.4	54.7	62.9	59.2	58.9	59.6	53.5	56.8	48.4	50
28.7	37.9	48.6	50.7	48.4	49.7	52.2	61.1	54.6	59.3	57.6	51.1	52.9	50.3	50.4
28.8	41	48.7	50.9	47.7	50.1	52	62.8	51.9	60.6	59.2	52.5	55.3	51.7	51.7
28.7	51.6	51.7	51.3	50.8	51.9	49.9	63.3	52.7	60.2	57.1	52.5	54.7	53.2	51.4
28.9	44.8	46	46.8	51.4	53.3	50.2	63.6	60.6	53.7	60.4	57.1	59	55.7	54.3
29.4	42.8	48.6	49.7	50.9	58.3	59.1	65	61	54.8	58.5	57.7	61	60.8	56.7
28.9	45.7	44.4	55.6	66.7	65.5	59.8	65.5	57.9	56.3	62	55.6	59.5	52.8	53.1
28.8	43.7	46.4	61.4	56	51	53.5	64	59.9	55.3	59.9	51.8	54.5	51.8	51.3
28.8	54	60.7	44.7	46.5	49.4	50.7	62.3	58.6	54	61.4	49.9	52.2	51.9	50.9
28.8	61.2	52.6	49.3	49.8	46.9	53.9	61.5	57.2	50.8	59.6	50.8	51.1	56.3	49.2
28.8	53.7	42.9	47.3	46.8	53.1	52.1	61.9	53.2	52.3	61.6	51.8	51.6	53.5	50.9
28.7	36.6	45.7	48.6	46.3	52	50.8	62.2	52.9	54	63.5	49.3	50.5	51.2	51.5
28.7	41.3	44.2	47.4	49.4	51	51.1	62.7	50.8	54.9	57.8	51.9	49.3	50.6	51.4
28.7	41.5	47.8	48.9	47.2	45.6	52.4	62.5	53.4	53.4	57.3	50.2	50.3	50.6	49.4
28.6	37.9	39.2	43.8	47.7	47.1	50	63.2	54	56.5	62.9	49.4	51.5	49.6	48.8
28.5	39.8	46.5	48.8	47.1	45.4	47.9	63.1	52.7	59	59.8	51.5	51.3	50.3	48.2
28.5	40	46	47.5	48.5	48.1	48.3	63.8	52.8	55.4	59.1	51.3	52.4	51.8	46.8
28.5	42.9	43	42.4	43	50.2	51.4	62.4	51.8	50.8	61.6	53.4	54.5	52.9	48.9
29.1	39.6	42.3	43.5	42.9	48.2	49.4	62.1	48.7	49.7	58.3	53.3	50.5	52.7	47.2
29.4	36	42.7	43.4	47.1	48.5	52.2	61.4	50.7	53.1	60.8	51.5	52.4	53.1	49.6
28.9	43.8	46.2	47	50.9	47	52.1	60.2	50.2	52.8	57.5	52	50.6	49.8	50.5
28.7	44.4	45.7	50.6	50.9	47.9	48.4	63.2	48.4	49.2	60.2	54.2	51.8	50	50.3
28.6	46.3	48.6	46.3	44.1	46.5	50.8	62.8	51.6	51.8	57.3	52.5	54.4	52.2	49.6
28.5	44.8	50.7	48.4	49.2	47.5	49.7	62.6	52.7	51.9	58.7	53.6	49.8	52	49.1
28.5	44.1	43.2	43.1	45	49.4	48.9	62.8	47.7	48.7	57.5	52.2	51.4	53.2	47.1
28.5	44.1	44.6	44.3	44.8	51	50.9	62.1	51	50.6	58.7	50	52.5	53.8	48.5
28.5	43.1	42	47	50.8	50.1	52.6	62.9	52.6	49.3	58.4	51.8	51	54.3	49.1
28.5	43.7	48.4	48.3	46.5	48.6	48.7	63.8	49.3	52.9	58.6	53.6	51.9	56.4	48.3
28.6	40.4	49.1	42.1	44.6	46.5	47.8	63.7	53.1	51	57.7	52.6	51.6	53.9	46.9
28.6	39.9	45.3	46.7	46.4	47.5	46.3	62.5	47.7	46.7	57.1	50.2	50.7	54	46.1
28.7	38.4	46	48.2	45.8	49.4	47.1	62.7	53.8	53.9	56.7	52.9	51.4	55.4	48.2
29.3	42.6	46.4	42.7	45.9	46.9	48.1	63.4	54.9	54.1	58.7	52	49.8	56.9	49.4
28.8	41.5	42.7	43.4	47.3	48.1	51.3	62	57.1	53.5	58.2	51	50.9	56.6	48.8
28.7	45.3	44.4	41.4	45.3	46.1	49.9	60.7	61.7	53.6	57.5	53.8	50.3	54.6	47.4
28.6	47.4	47.4	42.7	50.6	49.5	45.1	62.9	58.2	48.1	56.6	55.3	54.2	53.4	48
28.7	43.6	46.7	50.3	47.6	45.4	50.6	62.2	53.7	50.8	57.7	52.1	55	56.2	52.3
28.6	43.7	44.5	48.3	46.9	46.6	48.6	63	56.6	52.9	57.1	52.6	53.3	56	55.3
28.6	47.5	47.6	44.3	45.5	47.7	53.8	63.1	58.2	49.4	53.2	52	53.2	55.7	54.8
28.6	50.3	45.8	51	55.5	51.8	48.2	63.5	55.7	52.5	58	51.1	52.6	53.9	50.9
28.6	48.8	45.7	52.3	43	49	50.2	62.2	53.8	48.6	58.9	55.7	51.8	57.8	49.4
28.7	48.2	52.6	44.9	46	48.9	46.5	61.9	51.5	48.9	57	54.5	55.3	57.5	47.9
28.7	51.7	47.2	43.2	47.9	45.5	49.9	62.4	51.9	45.7	59.3	59.2	52.6	58.1	50.8
28.7	47.6	40.2	48.1	46.6	44.9	50.3	62.8	51.3	49.4	58.2	58.4	53.9	56.9	49.2
28.6	47.3	48	45.7	43.9	50.9	53.8	62.4	52.7	55.9	57.9	54.7	53.4	55.8	48.4
28.5	41.9	46.3	47.7	48.5	50.1	49.4	62	50.7	53.9	57.9	54.8	55.4	55.1	47
28.5	43.9	44	41.9	43.4	49.5	52.7	62.6	55.6	53.4	58.9	51.2	55.1	52.1	46.7
28.5	53.5	46.7	44.4	46.3	45.7	52.8	61.9	60.9	54.9	57.1	50.3	53.2	51.9	47.6
28.5	50.8	46.9	47.5	49.1	45.2	50.4	63.5	58.9	50.9	56.6	49.7	51.8	49.1	47.4
28.5	48.8	45.9	47.3	48.4	47.5	52.3	63.7	54.9	51.5	58.3	50.3	50.6	48.5	47.7
28.5	42.7	49.4	49.2	45	51.7	52.5	61.4	53.6	53.6	56.1	51.8	47.7	52.4	47.1
28.5	45.3	47.7	50.3	47.5	46.1	48.2	61.7	53.2	50.9	55.4	50.5	53	52.2	47.6
28.5	42.9	47.8	45.5	46.8	45.2	50.6	64.1	52.6	47.7	58.1	52	50.9	52.4	46
28.5	48.1	46	46	43.8	48.4	50.2	63.7	49.7	51.8	57.8	49.7	53.1	50.3	45.6
28.7	40.2	44.7	50	43.2	45.6	50.4	62.9	51.9	53.9	59.2	51.2	48.9	51	48.2
28.6	41.8	44.6	49.5	43.4	46.5	47.3	63.2	54	53.5	61.5	52	49.2	50.9	46.3
28.6	46.8	47.3	41.9	45.2	46.3	48.6	63	54.6	52.4	57.8	49.2	55.3	49.9	47.8
28.5	50.8	54.2	54.8	48.4	51.5	51.2	63.1	51.2	50.9	57.8	54.3	54.8	51.4	48.3
28.5	43.8	49.4	51.4	49.1	43.3	51.6	62.9	54.2	51.1	56.9	49.2	54.5	50.4	48.2
28.5	42.8	55.9	42.5	45.5	50.1	50.2	63	58.8	58.2	56.9	51.6	52.5	52.5	48
28.5	50.9	47	49.4	50.5	49.5	51	63.1	51.8	55.5	56.8	55.3	53.4	54.3	49.3
28.5	40.2	44	50.7	50.6	49.1	51.5	63	53.4	52.8	56.7	53.6	58.2	56.3	50.6
28.5	44.6	50.1	48.7	48.2	46.7	49.6	64.8	50.6	52.4	55.2	55.5	52.2	56.6	52.3
28.5	49.8	45.8	40.1	53.2	50.9	47.8	64.3	50	52.8	57.3	51.5	52.2	54.1	52.5
28.6	44.1	42.3	42.1	50.4	47.4	50.3	64.3	56.7	52.9	58.3	53.3	52.4	56	56.6
28.6	42	43.2	45	48.1	48.1	50.6	63.1	54.2	50.1	58.5	53.1	53.8	54.3	56.6
28.6	45.6	47.7	45.7	46.7	46.1	49.1	61.6	52.4	54.3	55.2	54.5	55.4	57.3	57.8
28.6	46.5	48	47.1	42.6	46.3	52	63	56.5	54.9	56.4	54.4	51.1	56.8	57.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.6	44.9	43.9	41.5	48.2	47.2	51	61.1	54.9	61.9	61	52.1	55	59.1	58.5
28.6	42.6	49.1	43.1	50.6	48.7	50.7	61.7	53.5	56.3	57.9	54.9	54.9	58.9	53.8
28.6	39.4	41	47.8	51.2	49.4	53.8	62.6	54.7	53.1	58.9	54.2	57.8	57.4	54.4
28.6	45.1	42.8	47	46.5	48.9	49.3	62.8	58	56.2	57.3	59.2	57.4	54.8	51.5
28.6	49.2	44.3	46.9	48.4	49.4	50	63.4	57.9	57	56.3	58	55.9	50	47.8
28.7	48.6	54.1	46.5	49.7	45.2	51.6	63.2	60.4	60.1	55	54.4	51.4	47.9	46.6
28.6	51.2	55.5	41.1	44.9	45.1	47.4	64.3	56.2	52.6	56.6	54.5	53.9	51	46.3
28.6	51.6	50.3	45.5	44	52.9	53.5	63.7	58.6	51	57.2	52.3	52.7	49.3	47.5
28.5	45.7	46.5	50.8	48.7	48.8	49.8	63.8	55.8	48.1	56.6	52.2	49.5	46.7	48.2
28.5	44.9	53.6	50.2	45.8	52	50.6	63.7	53.9	54.1	58.4	57.2	50.6	46.1	47.8
28.5	44.6	41.4	49.7	48.2	48.8	46.5	63.2	57.6	52.2	57.4	58.4	53.7	49.2	46.8
28.5	49.5	50.4	49.7	43.3	45.3	50.5	64.4	57.6	53.2	57.9	57.8	56.1	53.8	49.4
28.6	55.2	46	51.7	48.4	51.2	49.3	62	54.7	56.7	58.6	66.6	56.4	56.7	54.3

45.4	41.3	38	37	36.5	35.1	36.6	34.7	36	36.6	34.3	32	30.4	29.3	26.8	25.6
44	42.3	39.4	37	36.2	35	36.5	35.5	35.8	35.2	33.6	31.8	30.7	28.5	26.6	26.1
47.7	42.9	39	37.7	37.3	36	38.7	36	37.3	37	35	32.6	31.8	30.4	26.8	26
49.3	41.8	39.4	37.5	38.1	38.7	39.2	37.3	38.4	37.7	37.9	34.1	32.7	31.1	28	26.3
46.1	44.7	41.1	40.4	41.1	39.1	39.8	38.3	39.4	38.9	36.9	33.7	33	31.8	27.8	26.6
44.9	43.2	41	39	39	38.3	41.6	38.3	38.4	39.4	36	33.8	33.9	32.7	28.7	26.6
44.5	42.4	40.3	39.2	39.6	38.8	41.7	39.8	39.1	40.1	36.5	35.3	35	33.4	29.1	27.4
45.1	43.8	40.3	38.2	38.1	38.4	42.9	38.1	38.6	37.7	35.6	34	33.4	32.1	28	26.6
46.4	43.6	41.1	38.4	38.1	36.9	40.7	37.2	37.6	37.8	35.9	33.6	32.7	30.9	27.9	26.8
44.8	43.6	39.5	37.1	37.9	36.8	38	37	36.8	37.6	36.3	34	32.3	31.4	29.3	28.7
46.5	43.1	41.2	40.1	38.4	38.6	40.1	37.1	37.9	38.8	36.6	34.2	32.6	31.5	28.8	27.5
45.8	45.5	40.6	42	43.5	39.7	40.4	38.4	38.8	38.4	36.8	35.1	33.6	31.6	28.8	27.9
47	47.5	40.4	42	47.6	40.2	41	39.2	40.5	40.6	37.9	37.7	35.3	33.7	31	29.5
47.2	47.3	41.3	41.5	47.7	39.2	41.9	39.7	40.5	40.5	37.4	36	34.5	32.5	30.1	28.5
48.1	49.2	41.7	40.3	46.8	38.5	41	39.5	41.1	40.3	38	35.6	33.8	31.8	28.9	27.7
48	50.6	41.2	40.3	47.5	39.6	41.7	39.5	41.1	40.4	38.7	36.2	34.3	32.2	29.5	27.7
47.4	49.1	45.5	44.6	48	44.4	43.5	41.3	43.5	41.2	38.8	36	34.3	32.4	29.8	28.2
52	49	43	42	47.2	40	41.9	41.5	41.5	41.3	38.1	35.7	34	31.8	29.2	27.9
49	47.7	44.1	40.8	48	41.5	43.2	43.4	42.5	41.3	39.2	35.6	33.9	32.2	29.2	27.5
48.5	48.3	43.3	42.1	47.4	40.3	42.6	44	42.3	41.4	39.2	35.8	34	32.2	29.2	27.9
48.3	50.3	42	42.5	48.1	41.3	42.3	44	43.3	41.2	39.5	36.8	35.2	32.5	29.8	28.5
49.3	49.5	44.3	42.3	48.5	43	43.6	44.8	44.7	43.5	43.2	39	36.7	34.4	31.5	29.6
50.3	48.3	46.2	46	49.3	46.6	46.3	48.1	48.8	45.9	45.6	42.2	38.7	37.3	33.3	31.7
50.8	50.4	48.9	48.8	50.4	47.6	49.7	50.5	52.8	48.2	46.6	43.2	40.6	39	35.5	33.8
51.9	51.8	50.7	49.5	50.6	49	50.6	52.1	53.7	49.2	46.8	43.3	40.9	39.5	36.9	34.8
51.6	52.4	51.7	48.3	52	48.1	48.7	47.9	51.2	48.3	46.5	43	39.1	38.1	36.1	33.9
51.1	50.7	50.5	44.9	48.7	45.6	46.5	46.1	50.8	47.5	46.9	43	37.8	36.3	34.8	32.9
49.6	51.6	50.5	47.2	45.4	43.3	45.7	44.4	48.4	47	45.8	41.1	35.9	34	32	30.3
51.7	52.2	50.6	46.6	46.1	45.6	45.5	47.1	48.1	47.4	45.8	40.9	36.1	34.4	32.8	30
52.2	52.7	53.3	49.5	49.1	51	50.7	53.3	53.5	50.8	48.9	45.2	41.2	39	36.2	32.6
55.1	54.1	54	52.4	53.1	55.3	53.5	56.4	56.5	52.2	49.5	46.6	43.8	40.4	37.9	34
56.1	54.6	54.8	50.4	52.1	52.2	52	54.9	55.5	52.4	48.1	44.7	41.3	39.2	36.4	33.4
54.4	52.6	53	48.3	46.6	47.9	48.3	51.5	53.7	51.7	47.9	43.1	39.2	37	34.5	32.1
50	51.6	50.8	46.8	45.4	45.7	44.7	45.9	49.3	47.3	45.3	39.5	36	33.4	31	29.2
48.3	49.4	48.7	45.7	44	44.4	43.8	44	46.2	44.8	42.4	38.7	35.7	33.5	31.5	30.3
47	48.9	47.5	44.7	43.9	43	41	41.9	42.3	41.7	40	37.1	35	32.9	31	30.9
47.3	47.2	46.4	45.4	43.7	42.1	40.7	41.3	41.7	41.1	38.5	35.4	33.6	32.3	31.2	30.1
46.7	48.4	45.2	44.3	45.9	41.2	41.1	40.3	41.2	39.7	37.3	33.9	32.3	30.8	29	27.6
46	45.9	45.7	45	44.3	40.2	39.8	39.6	41.2	39.2	36.4	33	31.7	30	28.2	27.3
47	47.2	47.5	44.9	44.5	39.2	39.7	38.9	39.7	37.3	35.1	32.2	31.1	29.6	27.5	27.3
46.5	46.8	46.9	43.5	41.7	38.9	37.8	36.6	37.8	36.5	33.7	31.1	30.5	29	26.8	26.5
47.4	45	43.5	41.5	41.4	38.5	37.2	36.5	36.7	35.8	32.6	30.4	29.9	27.7	26	25.9
48	46.2	44.9	43.2	41.5	37.3	38.4	35	35.6	34.9	32.8	29.9	29.5	28.1	26	25.7
46.9	46.7	45.5	42.8	40.2	35.6	35.1	35.3	35	33.4	31.8	29.3	29.9	27.8	26	26
46.6	46.4	45.9	41.7	40.6	39.1	37.7	36	36.2	35.8	31.6	30	30	28.2	26.7	26.4
48.6	49.5	48.7	43.4	40.2	39	37.8	36.5	36.3	36.9	33.6	30.5	30.2	28	26.3	26.3
47.9	49.6	47.1	43.6	41.7	39.6	38.4	37	38	37.5	34.4	31.3	30.7	29.3	26.9	27
45.3	49.2	45.6	43	41.1	40.5	40.4	39.1	39.1	36.9	34.3	32	31.2	29.7	27.9	27.5
47.4	48.2	45.4	43.1	41.8	40.4	40.9	39.6	40.2	37	34.4	31.8	31.7	29.7	27.8	27.4
46.3	46.6	46.7	41.4	40.4	39.7	41.2	41	40.4	37.7	35.2	32.1	30.8	29.2	27	26.7
46.5	47	46.3	42	39.1	40.1	39.2	38.6	38.9	36.3	35.7	31.7	31	28.8	26.5	25.9
47.6	46.7	46.1	40.5	38.8	38.5	37.6	38.1	37.5	35.8	33.9	31.4	30.3	28.3	26.7	26.5
47.2	46.4	45.6	43	39.7	38.7	37.6	37.3	37.6	36.1	33.7	31.2	30.5	28.5	26.5	26.6
48.4	45.2	45.1	45.5	39.4	39.3	37.9	39.3	38.1	36.3	34.3	31.4	30.9	29.3	27.2	26.9
48.1	46.3	45.8	45.9	40.7	40.1	38.7	38.9	37.6	36.7	34.9	31.9	32	30.8	30	29.2
47.8	46.2	43.7	42.8	40.3	40.3	38.5	39	38.5	37.2	35	33	32.2	30.2	28.8	28.5
46.8	45.8	44.9	41.5	38.1	37.1	37.2	38.2	38.4	36.7	35.3	31.7	30.9	29.7	28.3	27.8
48.3	46.6	43.9	40.7	38.3	37.3	36.6	36.5	36.4	35.7	33.4	31.5	30.4	28.8	28	27.2
45.9	45.1	42.8	41.4	37.4	35.6	36	36	35.9	35	33.5	30.8	29.9	28.4	26.5	26.6
47.4	44.7	44.7	42.7	38.4	37.2	36.8	37.7	36.7	35.6	33.6	33.3	32.3	29.1	28.4	27.5
48.1	46.1	42.2	40.1	38.7	35.7	36.5	36.7	36.6	34.9	34.1	32.3	32.7	32	30	28.5
46.7	43.8	43.3	44.2	41.8	41.5	39.9	40.6	38.4	38.3	36.6	36.1	34.9	34.4	32.6	30.1
49.8	44.9	44.5	42.4	41.7	40.7	39.4	43.2	39.3	37.7	36.1	34.5	33.8	33.1	30.6	28.9
49	44	44.2	43.9	42.9	40.9	41.1	42	40.6	37.6	36.7	35.4	35	34.1	32	30.7
48.1	45.4	44.1	42.3	44.4	40.5	41	41.4	40.4	39	37.3	36.4	35.8	34.2	32.6	31.6
48.8	46.3	44.3	41.6	42.2	43.1	42.3	43.9	44	41.5	42	41.9	41.5	37.5	35.3	35.3
49.8	45.7	44.9	43.2	41.3	43	44	44.1	44.4	41.7	40.7	39.8	40.2	36.6	34.3	34.4
47.9	46.9	45.2	42.2	42.3	43	44.4	45.4	44.6	42.2	40.3	39.8	38.6	35.9	34.2	33.1
49.1	47.1	46.2	41.4	40.9	41.3	41.2	42.6	41.3	39.1	36.7	35.5	34.7	32.7	30.5	30.2
49.9	43.5	42.3	38.5	38.6	38.1	38.1	39.2	38.2	36.5	34.7	32.2	31.3	29.7	28.1	27.2
46.9	40.9	39.5	36.5	36.8	36.1	36.8	37.9	38.2	39.7	37.8	31.8	31.2	29.6	27.7	26.5
46.6	41.6	39.5	36.8	35.5	35.5	35.8	36	36.1	38.3	34.3	30.5	30	28.1	26.5	25.9
49.5	39	37.9	35.5	35.3	34.5	34.7	35.9	35.6	34.8	32.6	29.8	29.2	28	26.2	25.6
49.4	39.6	39	35.9	36.4	35.1	35.1	34.6	34.9	33	32.3	29.8	29.2	27.9	26.1	25.9
49.5	40.5	37.8	36.1	35.9	34.5	34.5	34.5	34.7	33.9	31.7	30.3	30.1	28.5	27.2	26.6
48.3	40.2	40.1	36.8	35.2	38.4	35.1	34.9	35.5	34	31.3	30.1	31.1	29.2	27.4	26.6
46.9	39.3	39.7	36.7	36.2	38.2	36.7	35.9	36.2	34.3	31.7	29.8	30.1	29.4	27.3	26.9
49	40.2	40	38.3	36.4	35.8	34.9	35.2	35.6	33.8	30.9	29.4	29.4	28.7	26.8	26
50.2	38.4	40.3	38.8	37.2	35.6	34.9	34.1	35.1	33.9	31.7	30.3	30.4	29.5	27.6	26.9
49.1	40.5	40.1	38.6	37.1	38	36.6	36.2	36.6	35.7	33.6	32.5	32.3	31.2	29	27.9
47.9	40.4	38.9	37.5	35.6	34.5	35.7	35.7	35.6	34.5	33.3	30.9	30	29.1	27.6	26.8
47.9	40.9	39.4	37.8	36.1	35.5	36	36.2	36.1	35.5	33.3	31.6	31	30.2	27.8	27.4
45.4	40.9	41.8	37.7	36.3	36.6	37.2	37.1	37.7	35.7	33.6	31.7	31.1	29.8	27.4	27.2
47.4	41.1	41.6	38.1	37.1	37.6	37.6	37.5	37.7	36.4	34.4	32	31.5	30	28	27.1
47.9	43.3	39.6	39.8	38.8	37.9	36.6	36.8	36.9	36.2	34.4	31	30.6	29.5	28.2	27.5
49.8	44.1	40.2	39.4	38.7	39.3	37.6	39	38.2	36.6	35.5	32.3	31.1	29.8	27.9	27.4
50.1	41.4	41.2	38.6	38.1	36.7	38	39.9	39.3	37.4	36.1	33.5	31.6	30.1	27.9	27.2
46.9	42.4	38.6	37.5	38.1	37.2	37	39.1	39.3	37.4	36.6	34	31.9	29.5	27.7	27.6
45.7	42.9	41.2	38.4	37	36.8	37.6	38.5	38.6	36.9	35.9	32.8	31.8	30.1	27.5	26.9
46.7	43.6	41.2	37.6	37.8	36.9	37.1	37.7	37.1	35.6	35	32.7	30.9	29.8	28.4	27.5
50.7	44.1	41.6	38.1	38.1	38.3	38.1	37.6	37.1	35.9	34.4	33.8	31.9	30.5	29.2	28.1
48.8	43	40.4	40	38.7	38.4	38.7	38.8	39	36.8	35.5	34.5	32.4	31.1	29.7	27.8
49	45.8	42.9	40.1	38.9	38.9	40.8	39.7	38.2	37.5	35.8	34.1	33	31.8	29.2	28.1

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
48.9	45.4	43.7	41.4	39.2	38.9	41	40.7	40.7	38.2	36.7	35.1	34.1	32.2	30.4	28.2
50.9	46.4	42.9	39.7	37.9	37.9	38.2	39	38.7	37.3	34.8	33.7	31.7	30.3	29.5	28.3
50.7	44.4	41.8	39.5	39.2	37.6	37.7	38.7	37.2	35.3	34.6	32.7	31.2	29.8	28.4	27.3
48.3	41.2	40.5	38.3	36.8	37	36.4	36.4	36.3	35.2	34.6	32.1	31.3	29.5	28	27
45.4	41.1	40.2	38	35.8	35.7	35	36.2	35.9	34.8	35.2	32.4	33.7	30	28.6	27.5
44.7	38.4	38.8	37.5	36.4	35.3	35	35.5	35.8	34.9	35.6	32.6	30.5	29.3	27.6	27.2
45.2	40.6	40.7	37.9	35.7	35.8	35.3	35.7	36.6	35.4	35.4	33	31.4	29.8	27.7	26.6
45	40.4	43.2	37	37.6	36.7	36.1	36.7	36.3	35.6	35.4	33.1	31.8	29.5	27.9	27
43.7	40.8	42	37.1	37.5	36.4	36.8	36.5	36.8	36.2	35.2	33.2	31.7	29.8	28.2	27.3
43.6	41.2	45.6	39.3	38.1	37.9	37	38.2	38.6	36.8	37.1	35.1	33.1	30.7	29.2	27.6
44.8	42.8	43.6	39.4	38	39.1	38.2	38.5	38.9	37.6	36.9	34.7	34.4	32.4	30.2	29.3
45.5	44.2	44.3	41.8	40.6	39.8	41.4	41.2	40.1	39.8	39.7	36.9	36.1	34.4	33.3	31.1
48.3	47.2	46.5	44.1	42.6	43.8	46.4	43.9	43.1	41.7	41	38.4	38	36.4	35.2	33.3

24.1	22.6	22.9	22.9	23.7	24.7	51.3	51.5	51.4	54.4	52.2	51.8	63.8
24.5	23.1	22.8	23	23.7	24.6	50.9	50	50.6	52.8	49.4	52.9	63.7
24.7	22.7	22.8	22.8	23.7	24.5	49.1	49.8	48.6	52.7	49	52.8	64
24.1	22.6	22.6	22.9	23.7	24.6	48.6	49.3	49.9	51.7	50.5	52.9	64.5
24.1	22.6	22.8	23	23.6	24.7	48.6	48.6	49.5	50.3	51.7	53.7	64.5
24.6	23.1	22.7	23	23.7	24.6	50.4	48.7	50.3	48.9	54	52.5	64.3
25.1	23.5	23.2	23.1	23.7	24.6	52.5	48.4	50.2	48.2	51.5	51.3	63.8
25.8	23	23.4	23.6	23.7	24.6	51	49.8	48.6	46.2	49.3	51	63.8
24.7	23	22.9	23	23.8	24.6	48.7	50.5	46.1	47.2	51	52	63.9
27.7	26.7	26.1	25.3	24.6	24.9	47.2	53.2	48.4	51.7	52	54.6	63.5
25.6	24.2	23.5	23	23.7	24.7	44.5	52.1	49.3	51.8	52.2	53.8	64
25.5	23.6	23.1	22.9	23.6	24.6	46.7	52.9	52.1	52.7	52	52.6	63.8
27.2	25.7	24.5	23.4	23.7	24.5	49	52.6	54.5	58.2	50.4	59.9	63.1
26.5	24.7	23.6	23.1	23.7	24.5	50.7	51.4	52.8	61.6	50.2	60.1	62.6
25.3	23.5	22.9	23.1	23.7	24.5	50.7	50.3	50	63.3	58.4	58	62.7
25.2	23.8	23	23	23.7	24.5	47.9	50.5	49.5	63.1	60.4	56	62.3
25.8	23.7	23.2	23.2	23.8	24.6	46.1	50	49	59.8	60.2	56.6	61.4
25.2	23.5	22.9	23	23.6	24.6	46.2	51.3	47.4	57.2	56.8	56.7	60.8
25.1	23	22.9	23	23.6	24.6	46.1	50.5	55.9	57.6	54.8	56.9	60
25.5	23.5	23	23.3	23.7	24.6	44.8	48.8	58.7	57.3	54.6	56.2	60.9
25.6	23.5	23.1	23.2	23.6	24.6	44.6	52.7	56.7	55.7	53.1	56.1	60.9
26.4	24.6	23.5	23.2	23.8	24.6	50.3	52.1	55.3	54.3	51.4	56.3	61
28.6	26.2	24	23.5	23.6	24.7	49.7	50.5	53.1	52.2	50.5	56.9	60.2
29.3	27.7	24.9	23.9	24.1	24.6	46.9	47.8	50.3	51.3	50.5	56.3	60.2
31.1	28.7	26.2	24.4	24.2	24.6	47.4	50.3	50	52.3	49.4	56.7	60.6
30.9	28	25.6	24.2	24.2	24.6	47.3	51.2	49.2	52	48.7	56.4	60.4
29.5	26.8	25	23.7	23.8	24.5	46	49.4	47.1	50	51.9	54.9	62
27.8	25.2	23.9	23.4	23.7	24.7	44.1	48.5	50.2	49.3	51.4	54.6	62
27.8	26.9	24.7	23.6	24	24.7	41.6	48.9	50.8	49.7	50.6	53.2	62.6
29.6	28.3	25.8	23.7	24	24.6	49.9	50.8	51.8	50.1	52.2	52.8	63.2
31.3	29.6	26.4	24.5	25.3	24.8	49.9	50.6	50.9	51.1	53.2	51	63.9
30.6	29.2	26.5	24.6	24.9	24.7	47.2	48.9	50.1	51.5	57.6	57.6	65.1
28.8	27.3	24.9	23.3	23.8	24.5	46.3	48.8	54.8	65.1	64.7	59.8	65.1
27	25.2	24	23.5	24	24.7	45.4	47.1	60	64.9	62.9	58.6	65
28.4	26.5	25.1	23.9	24	24.6	53.6	59.2	59.2	61.3	59	56.1	64.4
28.5	26.3	24.9	23.6	23.7	24.6	60	58.3	55.2	57.3	55.5	54.1	63.2
27.8	25.9	25.1	23.7	23.8	24.6	58.8	55.5	52.3	54.3	52.9	54.4	62.4
26	24.5	23.5	23.4	23.8	24.6	56	51.5	50.3	51.2	52.8	53	62.5
25.6	24	23.3	23.3	23.7	24.7	51.8	49.2	48.6	49.6	52.7	51.6	62.6
25.4	24.9	24.2	23.7	23.9	24.6	48.2	47.7	49.1	49.6	51.4	53	62.7
24.3	23.5	23	22.9	23.6	24.6	45	47.2	49.3	48.4	49	51.8	63.1
24	23	22.9	23	23.5	24.5	42	46	48.3	47.8	47.7	50.7	63.2
24.3	23.1	23	23.1	23.7	24.6	41.7	46.6	48.4	48.5	48.6	49.5	63.7
26.7	25.3	25	24.2	24.4	24.7	42.4	45.6	47.7	47.9	50	50.8	63.7
29.5	27.8	27.7	24.8	24.8	24.8	42.1	44.2	45.5	45.9	49.5	50.8	62.9
30.4	27.8	26.6	25.4	24.9	24.6	40.8	43.2	44.1	46.1	49.8	52.5	62.6
24.3	23.5	22.7	23	23.6	24.6	42.9	45.8	46.8	50.2	49.6	52.2	61.6
24.9	23.4	23	23.1	23.8	24.6	44.4	46.4	50.3	51.9	48	51.8	62.6
24.5	23	22.7	23	23.7	24.6	45.6	48.5	48.7	49.5	48	51.6	62.8
24.2	23.1	22.7	22.9	23.7	24.5	45.6	50	48.4	48.8	47.8	50.7	63
24.2	22.7	22.7	22.9	23.7	24.5	46.2	50	48	48.9	49	49.8	63
24.1	22.6	22.6	23.1	23.7	24.5	44.6	46.8	45.7	46.5	50.7	50.7	62.8
24.2	22.9	22.8	23	23.6	24.5	45.1	45.6	46.5	49.6	50.7	51.9	63.1
24.9	23.5	23.1	23.2	23.8	24.6	44	47.6	47.8	49	50.5	52.2	63.6
27.3	25.4	23.9	23.4	23.9	24.6	44	49.5	47.5	47.5	49.2	50.2	63.8
26.3	24.5	23.9	23.8	24.1	24.7	41.9	47.8	46.4	46.9	48.5	49.1	63.5
26.1	24.5	25	26.3	24.8	24.8	41.2	46.8	47.9	47.8	48.9	47.7	63.2
25.6	23.7	23.6	23.6	23.8	24.6	42.3	46.9	47.2	46.6	49	48.2	63.4
24.5	23	23.1	23.1	23.6	24.5	43	46.7	45	47.1	48.7	50.7	63
24.8	23.6	23.2	23.1	23.8	24.6	44.8	44.8	43.7	46.8	48	50.8	62.3
26.4	24.4	23.7	23.2	23.8	24.6	46.6	47	43.7	49.4	48.7	50.1	62.9
28	25.8	24.3	23.6	23.7	24.6	46.7	47.3	48.7	49.6	49.2	50.3	62.7
26.9	24.6	23.6	23.2	23.7	24.5	44.9	46.6	48.8	48.5	47.1	50	62.7
28.5	25.3	24.2	23.5	23.8	24.6	47.4	47.2	48.9	48.2	47.6	53	63.1
29.2	25.3	24	23.3	23.7	24.6	49.6	47.3	50.6	54.3	51.1	52.7	63.5
33.2	28.5	25.5	23.9	23.7	24.7	49.6	47.7	52.5	53.9	50.3	50.7	63.4
32	27.6	24.7	23.6	23.8	24.5	49.6	51.5	51	50.1	50.9	50.6	62.8
30.9	26.9	24.5	23.5	23.8	24.6	51	51.4	48.6	48.4	48.8	50.2	62.6
28.5	24.9	23.5	23.2	23.8	24.6	50.7	48.9	47.9	48.9	47.5	50.4	62.9
24.9	22.9	22.9	22.9	23.7	24.6	48.6	47.3	47.9	46.9	49.5	53.4	62.8
24.2	22.8	22.8	23.1	23.6	24.6	47.8	48.1	47.5	48.1	50.5	52.5	62.3
23.8	22.7	22.8	23	23.6	24.6	45.1	46.1	47.5	48.2	50.9	52.1	62.6
23.4	22.7	22.9	23.1	23.8	24.6	52.5	47.1	45	47.1	48.8	53	62.7
24	23.2	22.9	23.1	23.7	24.6	53.3	46.7	46.6	48.5	47.2	52.5	63.3
24	22.9	22.7	23	23.7	24.6	50.7	46.8	47.5	48.7	47.2	52.5	64.3
24.3	22.9	22.7	22.9	23.6	24.6	49.8	48.6	48.8	48.7	51.1	53.6	63.4
24.5	23.1	23	23.1	23.6	24.6	46.6	48.5	50.4	48.1	50.7	52	62.1
23.9	22.8	22.9	23.1	23.6	24.6	45.9	48.4	49.1	47.3	48.1	50.6	63.4
29.5	26.1	25.7	24.1	23.9	24.6	47.1	48.5	47.7	46.8	47.9	51.9	63.6
25.6	23.7	23.7	23	23.8	24.5	47	46.4	49.5	45.7	48.5	50.8	63.5
24.7	23.1	23.1	23.2	23.5	24.5	44.2	45.6	50.7	44.4	47.6	50.5	63.3
25.3	23.4	23.1	23	23.7	24.7	46.7	47	48.9	45	46.4	49.6	63.5
24.8	23.4	23	23	23.6	24.5	49.8	53	53.6	47.9	50.7	51.2	63.5
24.8	23.4	22.9	23	23.7	24.7	49.1	52.2	53.6	48.5	50.7	51.7	63.1
25.2	23.4	23.2	23.3	23.7	24.6	46.5	54.8	52.7	48.8	49.3	50.8	63.3
24.7	23.4	23.2	23.1	23.8	24.6	49.9	54.6	49.6	49.9	49.7	51.2	63.3
24.7	23.1	23	23.1	23.6	24.5	48.9	51.4	50.9	50.5	50.2	51.5	63.3
24.6	23.2	23	23.1	23.7	24.6	45.6	49.7	50.9	50.2	49.3	51.6	64.2
24.7	23.1	23.1	23.1	23.8	24.6	49	49.7	49.5	52.4	50.5	50.3	64.5
25	23.2	23	23.1	23.8	24.6	48.1	47.4	46	52.4	50.9	50.5	64.5
25.8	23.9	23.4	23	23.7	24.6	46.2	45	45.4	51.3	48.8	51.1	64.3
25.6	23.7	23.2	23.2	23.7	24.6	45.4	47.1	45.8	49.5	48.4	50.1	63.7
25.7	23.7	23.1	23.1	23.9	24.5	46.8	48.5	47	47.6	47.8	51.8	63.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
25.6	23.9	23.2	23.2	23.7	24.7	45.6	46.7	46.1	48.1	47.2	51.6	62.7
25.5	24.2	23.5	23.3	23.9	24.6	45.4	48.5	43.8	49.7	48.5	51.2	62.2
25.3	23.8	23.2	23.1	23.7	24.6	43.8	48.5	47.1	51.4	49.3	53	62.4
24.9	23.3	23	23.3	23.8	24.6	44.7	45.1	47.2	50.2	50.5	53	62.8
26.2	24.2	23.9	23.7	23.8	24.6	48.1	45.1	48.1	49.3	49.6	51.1	63.5
24.6	23.4	23.1	23.2	23.7	24.6	48.7	53.1	47.5	49.4	49.4	51.6	63.7
24.9	23.4	23.2	23.2	23.7	24.6	50.8	55.2	46.1	49.4	47	51.5	64.1
24.9	23.3	23.1	23.1	23.6	24.6	51.3	55.5	45.9	46.7	51.6	52.6	64.2
24.7	23.2	23	23	23.7	24.7	51.3	52.3	50.2	47.9	51.8	52.4	64
25.3	23.6	23.2	23.1	23.8	24.5	48.3	52.8	50.5	48	51.8	51.6	64
27.1	24.8	23.6	23.2	23.7	24.6	46.8	52.6	49.9	48.1	51.7	50.6	63.8
29	25.9	24.3	23.3	23.7	24.4	48.4	50.7	50.3	47.3	49.4	50.4	64.2
30.9	27.4	25.1	23.7	23.7	24.6	53.7	49.4	51.7	47.9	51	50.2	64.1

58.7	52.1	59.3	52.4	51.5	50.9	46.3	45.2	42.1	38.2	37	37.1	35.4
59.3	52	58.6	51.9	51.2	49.8	45.9	45	42.5	39.2	37.3	36.8	35.7
58.8	54.8	56.8	51.6	52	48.7	47	47.4	42.7	39.3	37.6	37.1	35.9
62.6	54.7	58.3	53.8	60.7	50.3	50	49.5	42.6	39.5	37.5	38	37.9
63	53.9	59.6	53.4	59.4	53.7	51.4	48	44.2	40.7	39.7	40.4	38.7
61	53.8	59.4	51.6	57.4	52.7	50.5	47.1	44	41	39.6	40.2	38.8
57.5	53.9	58.8	52.5	54.8	53	48.5	45.8	43.7	40.6	39.4	40	38.8
55.8	54	59.1	53.6	54	53.2	48.4	45.3	43.8	40.6	39.3	39.6	38.8
56.2	55.5	58.4	54.6	54.1	54.3	48.9	46.3	43.7	41.4	38.9	38.8	38.4
57.3	57.9	58.9	54.6	54	54.1	49.2	46.3	44	40.7	38.5	38.5	38
59.9	58.1	58.3	58	55.5	53.6	48.7	46.4	43.8	41	39.9	38.3	38.2
60	62.7	57.9	56.5	55.3	52.8	48.7	46.4	45.3	40.9	41.2	42.9	39.4
58.3	62.4	58.1	54.7	55	52.8	48.7	47	46.9	41.3	41.8	46.4	39.9
56.9	60.1	58.8	56.3	56	53.8	48.9	47.3	47.4	41.3	42.2	47.3	39.9
58.3	58.2	59	55.3	58.4	53.5	50	47.8	48.8	41.6	41.4	47.2	39.4
57.6	58.1	58.7	54.3	57.2	53.4	50.8	48.2	50.3	41.5	40.8	47.5	39.6
57	56.5	59.4	54.2	55.6	53.2	51.9	48.3	49.9	44.4	44	47.8	43.2
55.4	56.5	59.2	55.8	55.2	55.5	51.2	51.4	49.6	44.1	43	47.8	42.7
56.3	56.1	59	57.9	54	55.6	51.1	50.8	49.1	44	42.6	47.9	41.5
57.4	54.8	58.5	55.4	52.5	53.2	49.7	49.5	48.4	44.1	42.2	47.9	41.5
57.4	54	59.9	53.9	52.3	51.2	48.1	49	49.9	43.6	42.4	47.9	41.2
55	54.3	59.7	52.8	52.6	49.8	48.5	49.3	50	44.1	42.7	48.3	42.5
54.1	57.1	57.9	52.6	51.5	48.9	48.8	50	49.6	45.7	45.1	49	45.5
54.7	56.2	58.3	51.9	52	49.1	50.2	51.1	49.9	48	48	50	47
54.1	55.4	57.6	53.2	59.4	51.7	51	51.4	51.4	50	48.9	50.5	48.3
57.8	56.6	58.4	54.6	61.1	52.8	51.4	51.8	52.3	51.2	49.1	51.5	48.4
59.2	58.5	59.6	54.9	60.1	52.8	51.3	52.1	51.8	51.2	48.3	51.4	48.2
58.4	59.4	58.7	53.7	58.2	50.7	50.9	51	51.7	50.9	47.2	49.8	46.7
56.2	60.3	59.2	52.5	56.3	51.5	51.4	51.4	52.4	50.9	47.1	47.6	45.6
54.3	60.9	58.9	53	55	52.9	51.6	52.3	52.6	52.6	48.9	48.8	50.3
59.4	60	59.6	56.4	58.5	55	53.6	54.5	53.6	53.8	51.6	52.2	54.1
60.6	57.2	60.1	57.4	60.4	59.3	55.7	55.7	54.2	54.7	51.6	52.7	54.3
60.7	56.4	61.2	57.1	61.2	58.9	55.5	55.4	54.4	54.5	50.6	51.8	52.7
59.8	57	61	56.1	59.2	56.1	54.1	54.7	53.3	53.6	49.4	49.3	50.3
60.2	55.6	61.4	53.9	56.8	54.2	52.6	52.3	52.1	52	47.8	47.3	47.9
58.6	54.6	61.4	52.2	54.5	55.5	51.5	50	50.8	50.3	46.7	45.7	46.1
57.6	53.6	61.9	52.2	52.7	55	51.1	48.4	49.7	48.9	45.7	44.8	44.4
55.2	53.6	63.3	51.3	52.1	54.1	51.6	48	48.7	47.6	45.9	45.3	43
54.1	54.7	62.6	52.2	50.9	52.7	51.5	47.1	48.4	46.3	45.1	45.3	42
53.2	54.7	59.7	51.2	50.4	51.6	51.6	47	47.5	47.3	45.4	45.2	40.9
54.7	56	62.3	51.1	51.4	50.9	50.2	46.9	47.2	47.5	45.3	44.4	39.8
54.1	58.4	61.4	51.3	51.7	50.7	49.4	47.6	46.9	46.9	43.8	42.9	39.5
53.1	58.4	60.4	51.6	52.3	51.4	48.4	48	46.2	45.2	43.1	42.3	38.8
53.2	56.4	61.5	53.1	54.5	52.6	48.6	47.9	46.8	45.9	43.6	41.7	37.8
52.3	53.6	61	53.8	53.6	53.1	48.6	47.4	46.7	45.9	42.7	40.9	38.5
51.2	53.2	60.7	53.5	52.4	53	49.3	48	48.7	48	43.2	41	38.9
50.5	53.4	60.4	52.2	52.4	53	50.2	48.9	49.6	48.1	43.6	41.3	39.4
50.6	52.3	60	54.5	52.1	51.5	50.3	47.5	49.4	47.5	43.5	41.4	40.3
51.1	51.6	59.7	53.5	53.7	52.2	50.4	47.3	49.6	46.5	43.3	41.9	40.9
52.4	52	58.8	53.6	53.7	51.8	49.8	47.2	48.6	46.6	43.1	41.6	40.1
52.1	51.7	58.5	53	52	52.9	49.3	46.7	47.5	46.9	42.5	40.8	40.2
50.9	50.6	58.7	52.7	52.8	54	48.9	47.7	47.6	46.6	41.9	39.9	40
52.3	50.5	58.9	52.2	52.2	54.1	49.5	47.6	47.2	46.7	42.4	39.7	39.4
51.9	52.7	59	53.4	52.2	56	48.6	48.1	46.4	45.7	45.1	39.7	39.6
52.4	52	58.5	53.9	52.3	55.8	48.5	48.4	46.3	45.8	46.3	41	40.8
52.4	51.2	57.9	52.6	52.2	54.5	47.7	48.6	46.4	45.6	45.3	40.5	40.4
53.6	53	58.4	53	51.5	55.2	48.2	47.7	46.4	45	43.6	40.1	39.7
54.3	53.9	58.4	52.5	51.4	56.5	49	48.2	46.7	44.8	42.6	39.2	38.7
56.4	53.8	58.6	52	50.9	57	49.2	47.8	46.2	44.3	41.6	38.4	37.5
60.9	54.5	58.3	53.2	51	56.5	48.7	47.4	45.8	44.4	42.8	38.8	37.6
60.5	53.3	57.8	55	53.9	55.2	48.4	47.9	46.1	44.4	41.9	38.6	36.7
59.1	51.4	57.6	54.8	55.2	55.9	52.1	47.9	46.2	43.4	43.4	41.2	40.5
57.1	52.5	57.8	53.2	54.8	56.2	54.8	49.2	45.1	44.2	43.8	42.1	41.5
58.8	52.3	57.1	52.9	53.7	56.6	55	49.6	44.9	44.6	43.7	42.4	40.7
57.2	52.5	57.5	52.9	54.1	56	54.2	48.7	45.2	44.4	43.4	44	40.9
56.4	52.1	58.7	54.7	52.8	57	52.5	49	46.3	44.3	42.8	43.7	42.6
55	50.4	58.9	55.2	54.5	57.4	50.7	49.6	46.2	45.3	42.9	43	43.1
53.6	49.7	58.7	58.3	54.5	58.2	50.5	49.3	46.8	45	42.9	42.8	43.1
52.4	49.2	59.8	59	54.2	58	50.4	49.1	47.1	46.1	43	41.9	43.1
52.5	54.9	58.5	58.1	54.2	57.4	50.2	49.7	46.9	45.7	41.6	41.2	41.8
52.2	55.3	58.3	56	55.2	56.3	49.3	49.6	45	43.8	39.9	39.8	39.9
55	53.9	58.7	55.2	55.4	55.5	47.5	48.2	42.7	41.9	38.1	38	37.9
59.7	55	58.3	53.1	54.9	53.9	47.7	49	42.1	40.4	37.5	36.7	36.7
60	54.3	57.6	51.7	54.3	52.5	47.9	49.3	40.4	39.3	36.4	36.5	35.4
58.9	52.5	58	50.9	52.4	50.9	48	49.5	40.6	39.2	36.4	36.8	35.4
56.8	53.6	57.8	51.7	51.6	51.5	47.9	49.4	40.4	39.7	36.6	36	37.7
55	53	57.1	51.8	52	52.4	48.1	48.7	40.3	40	36.8	36.3	38.4
53.7	51.8	57.7	52.1	51.8	52.5	47.5	48.6	40.7	40.4	37.9	36.3	37.7
52.9	51.5	58.4	51.8	52.6	52.7	46.7	49.9	40	40.4	38.5	37	36.6
52.1	53.7	59.2	51.5	52.6	51.2	47.6	49.8	40.4	40.4	38.9	37.2	37.5
53.7	53.9	61.4	52.1	50.9	51.7	47.5	49.4	40.4	40.1	38.8	37.1	37.2
54.8	53.7	60	51.8	54.2	50.6	47.8	49.1	41	39.7	38.3	36.7	35.8
54.1	53.1	58.6	53.3	55	51.2	48.4	47.9	41.1	41.1	37.8	36.3	36.4
53.7	51.6	58.4	53.1	54.9	51	49	47.3	41.3	41.6	38.2	37	37.4
57.6	57	57.4	52.1	54.7	52.3	48.4	47.8	42.5	41.5	39.3	38.4	37.9
57	57.1	57.4	54.3	54.1	54.3	49.2	49.1	43.9	40.6	39.7	38.6	39.1
54.6	56.1	57.4	54.2	57.5	55.4	50.2	50	43.4	41	39.3	38.6	38.9
53.9	54.6	56.5	55.5	57.2	56.8	51.9	49.9	42.6	40.9	38.7	38.3	37.7
52	53.7	57	54.9	54.8	55.8	52.4	48	42.9	40.9	38.4	38.2	37.7
55.9	53.2	57.9	53.4	54	56	55.8	47	43.4	41.3	38.4	37.8	37.2
55.1	53	58.4	53.7	53.9	55.7	56.5	50	44.2	41.7	38.2	38.3	38.1
54.4	53.9	58.4	54.2	55.4	56.9	57.6	50	44	41.5	39.7	38.7	38.5
55.9	54.6	57.1	54.7	54.7	56.9	57.7	50.1	45.3	42.4	40.1	38.7	38.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
55.8	60.5	60.1	54.7	54.8	58.6	58.4	49.2	45.8	43.3	41	39.1	39.2
55.2	60.2	60.2	54.9	55.1	59.3	58.1	50.6	46.5	43.3	40.9	38.9	38.9
55	58.1	59.2	54.1	57.2	59.1	55.7	50.9	46.1	43.1	40.8	39.6	38.9
57.6	56.4	58.9	58.5	58.2	57.6	54.8	50.6	45	42.2	39.5	38.7	37.6
58.4	57.1	57.8	59.1	56.9	56	53	49.2	43.1	41.5	38.9	37.7	37.4
60.4	59.2	56.9	58.3	56.2	53.2	50.4	47.3	41.8	40.5	38.5	36.8	36.3
60	59	56.9	55.8	54.1	51.5	48.4	46	40.8	40.4	38	36.4	36.1
58.6	55.7	57.1	55.5	54.2	50.9	47.7	45.8	41.1	42.5	38.1	37.4	36.6
58.4	53.4	57.5	53.2	53.2	49.8	48.1	45.1	41	42.4	37.4	37.5	36.6
57	53.6	58	56.3	51.7	48.1	48.3	44.7	41.2	44.9	38.9	38	37.5
57.4	53.7	58.6	58.2	53.4	48.8	47.7	44.8	42.5	44.6	39.3	38.1	38.7
58.1	53.7	58.1	58.8	55.7	52.5	48.8	45.4	43.9	44.4	41.1	40	39.6
57.3	56	58.9	65.7	56.4	55.5	53.5	47.8	46.2	46	43.3	41.9	42.7

37.9	35.1	36.6	37	35.5	34.4	32.8	32.6	28.8	26.5	24.3	22.7
37.1	35.4	36.4	36.6	34.7	33	31.4	30.8	27.7	26.1	24.4	23
38.3	35.8	37	36.8	34.7	32.7	31.8	30.4	27.1	26.1	24.7	22.9
38.9	37	38.2	37.4	37.4	33.8	32.5	31	27.8	26.3	24.7	22.9
39.6	38.1	39.1	38.4	37.4	33.9	32.8	31.6	27.9	26.5	24.3	22.7
40.8	38.4	39	39.1	37.1	33.9	33.7	32.4	28.6	26.7	24.5	23
41.6	39.4	39.1	40	36.7	34.9	34.7	33.3	28.9	27.2	24.9	23.4
42.8	39.4	38.9	39.6	36.6	34.7	34.4	33	28.9	27.3	26.2	23.7
42.4	38.6	38.7	38.5	36	34.2	33.8	32.3	28.2	26.8	25.2	23
41.1	37.8	38.2	38.2	36.3	34.1	33.2	31.5	29	28.2	27.1	26.1
39.9	37.4	37.8	38.6	36.6	34.2	32.7	31.6	29	28.1	27.1	26.1
40.3	38.1	38.5	38.8	36.9	34.9	33.3	31.6	28.9	27.9	26.1	24.9
40.8	38.9	40	40	37.5	36.9	34.8	33.1	30.4	29	26.8	25.3
41.6	39.7	40.4	40.4	37.6	36.9	34.9	33.1	30.5	29	26.8	25.3
41.6	39.6	40.9	40.3	37.9	36.3	34.6	32.7	30.1	28.7	26.5	24.8
41.7	39.6	41.2	40.5	38.5	36.3	34.3	32.3	29.5	28.1	25.8	24.1
43.5	40.7	43.2	40.9	38.8	36.3	34.5	32.4	29.7	28.1	25.8	23.9
42.5	41.4	42.2	41.3	38.8	35.9	34.3	32.3	29.6	28.2	25.6	23.8
43	43	42.3	41.4	38.9	36	34.1	32.2	29.4	27.9	25.4	23.6
43.1	43.7	42.5	41.4	39.2	35.9	34.1	32.3	29.3	27.8	25.4	23.4
42.7	44	42.9	41.4	39.4	36.5	34.8	32.4	29.6	28.3	25.6	23.5
43.4	44.6	44.4	43	42.3	38.4	36.2	33.9	31.1	29.2	26.3	24.3
45.6	47.1	47.8	45.3	44.8	41.3	38	36.6	32.8	31	27.9	25.6
48.8	49.7	51.7	47.4	46	42.7	39.8	38.3	34.8	33	28.9	27.1
50.2	51.2	53.1	48.7	46.5	43.1	40.6	39.2	36.3	34.2	30.4	28.2
49.7	51.1	53.1	48.9	46.9	43.2	40.5	39	36.3	34.2	30.8	28.2
48.9	49.2	51.9	48.3	46.8	43.2	39.6	38.4	36.2	34.2	30.8	28.1
47.8	47.5	51.1	48	46.8	43	38.5	37.1	35.3	33.3	29.9	27.2
46.4	46.9	49.5	47.4	46.1	41.7	37	35.4	33.6	31.8	28.9	26.7
49.8	52.3	52.5	50	48.1	44.2	40.1	38	35.5	32.2	29.2	27.8
52.6	55.3	55.8	51.5	49.1	45.9	42.8	39.7	37.2	33.4	30.6	29.1
52.7	55.6	56.5	52.2	48.8	45.6	42.6	39.8	37.2	33.6	31	29.5
52.1	54.9	55.2	52	48.3	44.9	41.7	39.3	36.6	33.4	30.7	29.3
50	52.8	54.2	51.8	48.1	43.7	40.2	37.8	35.2	32.4	29.3	27.7
47.4	49.8	51.7	49.4	46.5	41.5	38	35.6	33.1	30.7	28.5	26.8
45.5	47	48.9	47	44.2	39.8	36.7	34.4	32.1	31	28.6	26.4
43.2	44.5	46	44.5	42.1	38.3	35.7	33.5	31.8	31	28.5	26.4
41.8	42.7	43.8	42.7	40.2	36.6	34.4	32.7	31.2	30.3	28	26.1
41.5	41.4	42.3	41.1	38.7	35.1	33.2	31.6	30	28.8	26.8	25.1
40.8	40.4	41.7	40	37.3	33.8	32.3	30.7	29.1	28	26.1	25.1
39.9	39.4	40.5	38.4	36	32.8	31.5	30	28	27.5	25.6	24.8
38.6	37.8	39	37.4	34.7	31.9	30.9	29.3	27.3	26.9	24.8	24.1
38.5	37	37.7	36.4	33.5	31.1	30.2	28.4	26.5	26.3	24.4	23.5
38	35.8	36.5	35.5	33.1	30.4	30	28.2	26.2	26.1	26.4	25
37.4	36.1	36.2	35.6	32.3	30	30.1	28.3	26.6	26.3	28.6	27.1
37.9	36.5	36.4	36.6	33.1	30.3	30.2	28.1	26.6	26.5	30.8	28.5
38.3	37	37.6	37.2	33.9	31	30.6	29	26.8	26.7	29	26.8
39.9	38.6	38.7	37.5	34.2	31.6	31	29.4	27.5	27.3	26.7	25.1
41	39.5	39.7	37	34.4	31.8	31.5	29.8	27.7	27.5	25.7	24.1
41.2	40.6	40.3	37.5	35	32	31.4	29.5	27.7	27.3	25	23.5
41.2	40.5	40.3	37.5	35.8	32.1	31.2	29.3	27.2	27	24.6	23.3
40.1	39.5	39.3	36.7	35.3	31.8	31.2	29	26.9	26.5	24.3	22.9
38.8	38.8	38.3	36.5	34.7	31.8	30.8	28.6	26.7	26.7	24.3	22.9
38.4	39.2	38.3	36.4	34.4	31.4	30.8	29.1	27.1	26.9	24.9	23.4
39.5	39.9	38.4	37.1	35.1	32	31.5	30.3	29.4	28.7	27	25.2
38.6	39	38.3	37	35	32.7	32.3	30.5	29.2	28.7	26.6	24.7
38.3	38.8	38.4	37	35.2	32.7	32	30.1	28.8	28.3	26.5	24.8
37.8	38.6	38.3	36.9	35.2	32	31.3	30	28.9	28.2	26.5	24.8
36.8	37.2	37.2	36.2	34.1	31.7	30.7	29.2	28.1	27.5	25.8	24
37.2	37.9	37.1	36.1	34.3	33.4	32.2	29.1	28.2	27.5	25.2	23.7
36.7	36.9	36.6	35.4	34	32.4	32.4	31.3	29.6	28.3	26	24.2
39.2	39.7	37.9	37.6	35.9	35.2	34.2	33.6	31.7	29.6	27.5	25.3
39.5	42.2	38.9	38	36.1	35.5	34.4	33.6	31.8	29.6	27.6	25.3
40.6	42.6	40	37.7	36.6	35.4	34.9	34	31.8	30.1	28	25.3
41	41.9	40.4	38.7	37.1	36.2	35.6	34.2	32.4	31.2	28.9	25.3
42.1	43.3	43.3	40.8	40.9	40.8	40.5	36.8	34.6	34.5	32.3	27.7
43.4	43.9	44	41.6	41.4	41.1	41.2	37.3	35.2	35.3	33.1	28.4
44.2	44.9	44.5	42	40.7	40.2	40	36.4	34.4	34	31.7	27.3
44.3	45	44.5	41.9	40.4	39.9	39.1	36.1	34.2	33.5	31.4	27.1
42.4	43.4	42.7	40.2	38.4	37.5	36.8	34.2	32.2	31.6	29.7	25.7
40.2	41.2	40.4	39.8	37.9	34.9	34.2	31.9	30	29.4	27.3	24.2
38.3	39.4	39.1	40.1	37.5	33.2	32.5	30.5	28.7	27.8	25.6	23.4
36.9	37.6	37.6	38.4	35.6	31.6	31.1	29.2	27.5	26.8	24.6	23
35.5	36.6	36.4	36.5	33.8	30.6	30	28.5	26.7	26.1	24.2	23.1
35.3	35.5	35.5	34.7	33.1	30.7	30	28.4	26.9	26.4	24.1	23.1
35.2	35.1	35.4	34.3	32.1	30.3	30.8	29	27.3	26.6	24.3	23
36.2	35.6	36	34.4	31.8	30.1	30.8	29.3	27.4	26.8	24.4	23
36.2	35.9	36	34.4	31.7	30	30.3	29.2	27.2	26.7	24.4	23
35.3	35.3	35.9	34.2	31.7	30.1	30.3	29.4	27.5	26.8	28.9	25.7
36.2	35.7	36.2	35.2	33.1	31.9	31.7	30.6	28.6	27.6	28.8	25.6
36.2	35.8	36.3	35.2	33.3	31.8	31.6	30.6	28.6	27.6	27.1	24.5
36.1	36.1	36	35.3	33.3	31.5	31	30.1	27.9	27.3	25.7	23.7
37	36.9	37.3	35.6	33.6	31.7	31.1	30.1	27.9	27.5	25.4	23.6
37.5	37.4	37.6	36.2	34.2	32	31.5	30.1	27.9	27.3	25	23.5
37.2	37.2	37.6	36.2	34.3	31.8	31.4	29.9	28.1	27.4	25.1	23.4
37.4	38.4	38	36.6	35.3	32.1	31.1	29.8	28.2	27.5	25.1	23.5
38	39.4	39.1	37.2	35.9	33.2	31.5	30	28	27.4	24.9	23.4
37.9	39.5	39.4	37.4	36.4	33.7	31.8	30	28.1	27.5	24.9	23.3
37.7	39.2	39.2	37.3	36.5	33.7	31.9	30	27.8	27.5	24.7	23.3
37.5	38.7	38.7	37	36.1	33.1	31.7	30	28.2	27.4	24.9	23.2
37.9	38.3	37.9	36.2	35.4	33.7	31.8	30.4	29	27.9	25.6	23.8
38.5	38.5	38.8	36.7	35.5	34.4	32.4	31.1	29.8	28.2	25.8	23.9
40.3	39.5	38.3	37.4	35.8	34.1	32.8	31.6	29.3	28.1	25.7	23.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
40.9	40.4	40.2	38.3	36.4	35.1	34.2	32.3	30.4	28.2	25.8	23.9
40.7	40.3	39.9	38.2	36.6	35.3	34.2	32.2	30.5	28.5	25.7	24.4
39.7	40	39.1	37.3	35.5	34.3	32.8	31.1	29.8	28.2	25.5	24.1
38.1	38.7	37.8	36.1	34.9	33.1	31.8	30.3	28.9	27.6	25.3	23.9
37.1	37.5	37	35.6	35	32.6	33.4	30.1	28.8	27.5	26	24.2
35.9	36.6	36.3	35.2	35.4	32.6	32.8	29.9	28.5	27.5	25.8	24
35.6	36.1	36.5	35.3	35.5	33	31.5	29.8	28	27.3	25.1	23.6
36.1	36.4	36.6	35.5	35.6	33.2	31.7	29.8	28	27	25.1	23.6
36.6	36.6	36.8	36.1	35.5	33.2	31.7	29.8	28.1	27.2	24.9	23.4
37.1	37.7	38.1	36.6	36.6	34.5	32.6	30.4	28.9	27.5	25.2	23.5
37.9	38.2	38.7	37.3	36.9	34.7	34	31.9	29.9	28.9	26.6	24.5
40.6	40.6	39.9	39.2	39	36.2	35.5	33.7	32.4	30.4	28.4	25.4
45.4	43	42.2	41.1	40.4	37.8	37.3	35.5	34.4	32.4	30.2	26.8

22.9	23.2	23.8	24.7	49.6	50	50.4	52.5	49.4	50.1	62.7	57.5	51.3
23	23.1	23.8	24.7	49	48.4	48	51.5	47.2	49.5	62.6	57.4	51.2
22.9	23	23.7	24.6	48.2	48.2	47.1	51	47.1	50.7	63.6	57.5	51.3
22.8	22.9	23.8	24.6	48.1	47	48.5	50.3	48.5	49.9	63.4	58	53.2
22.8	23	23.7	24.7	46.1	47.1	47.5	47	48.3	52.1	64	61.1	52.8
22.8	23	23.7	24.7	46.3	47.3	46.8	46.8	51.5	51.3	63.6	57.6	52.4
23.1	23.1	23.8	24.7	50.5	46	48.5	45.6	48.8	50	63.3	55.7	52.2
23.6	23.6	23.8	24.6	48.7	46.5	46.1	44.3	48.1	50	63.3	54.4	51.7
23.2	23.4	23.8	24.6	47.2	48.6	44.7	44.4	48	50.3	62.6	54.7	53.3
25.7	25	24.6	24.9	44.5	50.6	45.6	46.5	50.9	50.3	62.6	55.8	54.5
25.6	24.9	24.5	24.8	42.6	50.4	47	50.5	50.5	52.7	63.4	56.3	56.8
24.4	23.8	24	24.7	42.7	49.9	49.1	51.1	49.9	51.1	63.1	58.4	58.2
24.3	23.4	23.8	24.6	45.7	50.9	52.3	51.1	49.3	52.1	61.4	55.8	60.1
24.3	23.3	23.8	24.6	48.6	49.3	50.1	58.3	49.1	58	61.1	55.5	58.3
23.8	23.2	23.8	24.6	47.9	49.3	48.4	61.5	48.9	54.3	61.7	57	56.3
23.3	23.2	23.7	24.6	45.1	49.1	47.9	59.9	58.5	53.7	61	56.2	56.6
23.3	23.2	23.8	24.6	44.6	49.2	46.5	57.2	56.8	55.2	60.8	55.2	54.8
23.1	23.1	23.8	24.6	45.8	49.2	45.5	53.6	53.2	55.1	59.8	53.2	55.3
23.1	23.1	23.7	24.6	43.8	48.7	47.5	52.3	52.7	56.2	59.5	53.4	54.9
23	23.2	23.7	24.7	43.3	46.6	56.2	55.6	53.2	55.4	59.6	55	53.6
23.1	23.2	23.7	24.7	42.6	46.7	55.3	54.3	51.5	55	60.1	55	53.2
23.4	23.2	23.8	24.6	44.1	50.6	53.1	52.2	48.6	55.6	60.2	52.7	53.1
23.8	23.4	23.8	24.7	47	47.8	50.3	50.8	48.6	55	59.6	52.3	54.1
24.6	23.8	24	24.7	45.6	45.9	47.1	49.5	48.9	54.7	59.6	53.3	54.9
25.7	24.3	24.2	24.7	46.6	46.6	46.9	50.3	48.5	54.8	59.9	52.9	54.5
25.8	24.2	24.2	24.7	46	49.4	46.9	50	47.3	54.3	58.9	52.7	54.9
25.7	24.2	24.2	24.6	44.2	46.8	46.5	49.2	47.1	53.7	58.5	56.9	56.3
25.2	23.9	23.9	24.6	41.4	47	47.2	48	50.5	53.2	61.4	56.2	57.4
24.7	23.8	24	24.7	40.2	47	48.9	48.1	49.6	52	61	53.9	59.3
25.4	23.7	24	24.7	41.7	49	50.5	48.2	49.4	51	61.8	53.2	60
26.1	24.2	24.9	24.7	47.2	48.4	48.7	49.6	51	49.8	63.2	53.6	57.3
26.7	24.7	25.1	24.8	44.8	47.4	48.9	50.3	53	50.8	63.4	59.2	55.9
26.4	24.4	24.8	24.8	44.9	46.7	48.2	51.1	57.7	57.6	64	58.7	55.7
25.2	23.7	24.2	24.7	43.8	46.2	54.9	61.4	59	56.1	64.4	58.5	55.4
25	23.8	24.1	24.7	43.1	46.6	55.2	57.4	55.6	53.6	63.3	58.6	54.6
25.1	23.8	24	24.6	54	55.5	52.3	54.3	52	53	62.3	57.7	52.7
25.4	23.8	23.9	24.7	56	51.6	49.8	51.2	51.7	52.8	61.9	55.3	52.1
25	23.7	23.9	24.6	51.9	49.1	48.7	48.9	51.6	51.5	62	54.1	52.2
24.1	23.5	23.8	24.7	48.2	46.4	47.9	47.7	51.4	50.3	62.2	52.2	53.5
24.3	23.7	23.8	24.6	45.1	46.3	47.1	48.1	48.8	51.4	62.4	51.9	53.7
24.1	23.6	23.8	24.6	42.1	43.9	46.2	47.7	47.7	50.5	62.7	53.2	53.1
23.5	23.2	23.7	24.6	40.3	42.9	46.2	47	45.9	48.7	62.8	52.7	55.7
23.2	23.1	23.7	24.6	40	45.7	46.8	46.9	45.9	48.3	62.9	52	56.5
24.6	24	24.2	24.7	39.4	44.2	45.2	45.4	47.2	48.9	62.9	52.1	53.7
26.7	24.5	24.6	24.8	40.8	43	44.1	43.5	47.3	49.6	62.4	50.3	51.3
27.8	25.9	25.2	24.8	38.2	41.7	43.1	43.4	48.2	48.8	61.6	50.1	51.8
26.1	24.7	24.6	24.7	37.5	42.5	43.7	46.2	47.2	50.7	60.2	49.7	52.2
24.3	23.7	24	24.7	41.9	45.3	47	49.5	46	49.9	61.2	49.2	50.4
23.5	23.4	23.9	24.6	44.4	44	47.2	47	46.9	49.9	62.4	48.8	50.5
23.1	23.1	23.8	24.6	44	48.5	46.6	46.8	46.1	49.5	62.4	51.2	50.8
22.9	23.1	23.7	24.6	44.1	46.8	45.7	46.5	47.7	48.9	62.3	49.6	50.1
22.8	23	23.7	24.6	43	45.5	44.4	45.3	48.4	49.1	62.1	49.3	49.7
22.8	23.1	23.7	24.5	43.5	43.4	44.9	45.6	49.5	49.9	62.4	50.9	49.3
23.1	23.2	23.8	24.6	42.6	44.2	46.6	47.5	49.2	50.1	62.6	50.4	49.3
23.8	23.5	23.9	24.6	42	47.7	45	45.8	47.8	48.3	63.4	50.3	51.2
23.9	23.7	24.1	24.7	40.2	46.3	45.3	44	47.3	47.3	63	49.8	48.9
25.1	26.2	24.8	24.8	39.7	44.3	46.2	45.7	47.4	47	62.6	49.7	48.9
25	26.2	24.7	24.8	39	46	44.9	45.6	47	47.3	62.7	51.7	53.2
24.2	24.7	24.2	24.7	41.3	44.5	43.7	44.6	47.8	47.3	62.3	54.1	52.3
23.5	23.8	23.8	24.6	40.8	43.7	41.6	45.2	46.5	49.9	61.3	56.3	53.3
23.6	23.4	23.8	24.6	44.9	44.8	40.4	46.6	46.8	47.6	61.3	59	50.8
24.1	23.5	23.8	24.6	45	46.6	43.9	47.8	46.6	46.9	62.1	56.4	50.6
24.2	23.5	23.8	24.7	43.4	45.4	47.7	46.6	45.9	48.9	62.1	54.9	50.4
24.1	23.6	23.8	24.6	44.8	45.7	46.4	46	46.6	49.2	62.6	57.3	50.2
24.1	23.4	23.8	24.6	45.3	45.4	46.5	46.6	47.1	50.2	62.8	55.9	49.5
25.1	23.7	23.7	24.7	48.3	45.6	50.7	50.1	48.8	48.7	62.6	55	50
25.3	23.8	23.8	24.7	47.7	45	48.5	48	48.8	48.5	61.8	52.9	49.3
24.8	23.6	23.8	24.6	49.1	48.9	46	46.7	47	48.2	62	52.4	47.4
24.7	23.5	23.8	24.6	48.6	45.6	45.9	46.9	45.7	48.9	62.5	51.4	46.9
23.9	23.3	23.8	24.6	47.9	45.5	46.5	45.3	45.9	49.6	62.4	51.8	49
23.3	23.1	23.7	24.6	44.9	46.2	46.5	44.4	49.4	50.7	61.9	51.3	53.8
23	23.1	23.7	24.6	43.9	44.9	44.9	45.6	48.8	50.8	62.1	51.5	52.8
22.9	23.1	23.8	24.6	44	44.9	43.7	45.5	47.2	52	62	54.6	54
22.9	23.2	23.8	24.6	50.8	45.4	45	45.3	45.9	51.1	62	59	52.5
22.9	23.1	23.8	24.6	49.8	45.1	46.6	47.6	45.8	50	63.2	56.8	51.7
22.8	23	23.7	24.6	46.6	46.7	46.8	46.6	47.1	52	62.1	54.9	51.3
22.9	23.1	23.7	24.6	45.8	47.6	48.2	46.4	48.1	49.9	61.7	53.7	51.6
22.9	23.1	23.7	24.7	44.1	47.6	47.2	46.6	46.2	49.4	61.8	52.9	49.6
25.3	24	23.9	24.6	44.1	46.4	46.3	44.8	46.6	49.9	63.4	51.2	49.6
25.4	23.9	23.9	24.7	44.2	45.4	46	44	46.1	49.2	63.1	50.3	51.6
24.3	23.4	23.8	24.6	42.9	44.6	48.9	42.9	45.8	48.6	62.9	51.9	51.6
23.6	23.4	23.7	24.6	41.9	44.7	45.9	43.6	45.3	48.6	63	53.7	52.7
23.4	23.1	23.7	24.7	46.8	46.4	45.9	45.1	45.8	48.5	62.8	52.4	51.4
23.1	23.1	23.7	24.6	46.5	50.6	51.7	46.4	47.5	49.8	62.8	51.9	51
23.1	23.2	23.7	24.6	43.6	50.7	49	46.4	47.5	50	62.7	53.6	51
23.2	23.2	23.8	24.6	45.2	51.4	48.2	46.6	48.3	50	62.6	54.4	56.1
23.1	23.1	23.8	24.6	45.6	48.4	48.4	49.3	48.5	50.7	62.3	53.5	54.3
23.1	23.3	23.7	24.6	44.7	48.4	49.5	49.1	47.8	50.3	63.1	52.1	52.8
23.1	23.1	23.8	24.6	45	47.4	46	49	47.5	48.9	63.8	50.8	52.9
23.1	23.1	23.9	24.6	46.3	45	43.7	51	48.1	48.9	64.1	51.1	52.2
23.3	23.1	23.8	24.7	44.2	43.6	44.3	49.4	46.6	49.5	63.6	54.3	51.3
23.3	23.2	23.8	24.7	44	44.4	43.5	47.7	46.8	49.2	62.5	53.3	51.3
23.2	23.2	23.8	24.6	45.4	46.3	45.4	45.2	46.3	49.4	62.4	53.3	53

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.2	23.2	23.8	24.7	44.6	44.9	43.8	45.5	45.7	50.8	61.5	53.5	54.4
23.4	23.3	23.9	24.7	43.9	43.7	43.2	46.8	46.6	50.1	61.7	53.9	58.2
23.4	23.2	23.8	24.7	41.6	45.2	43.4	49.8	48	51	61.5	53.8	55.7
23.2	23.2	23.8	24.6	42	43.4	45.9	48.2	48.4	51.1	62	54.4	54.9
23.7	23.6	23.8	24.6	44.8	44	46.6	48.1	47.8	49.6	62.6	56.5	56
23.7	23.6	23.9	24.6	46.8	44	46.2	47.4	46.9	50.4	63.1	58	57
23.4	23.4	23.8	24.6	48.1	52.7	43.4	46.7	45.5	49.1	63.2	57.8	55.7
23.3	23.3	23.8	24.6	50.8	52.3	41.2	45	45.9	49.8	63.6	57.4	53.4
23.2	23.2	23.7	24.7	48.4	49.6	46.1	45.6	49.9	50.8	63.4	57	50.8
23.2	23.1	23.8	24.7	46.7	49.6	48.6	46.2	49.7	50.3	63.4	55.3	50.3
23.5	23.2	23.8	24.6	45.5	48.9	49	46.9	49.5	48.3	63.1	54.7	51.9
24	23.3	23.8	24.6	45.9	49	49.2	45.1	47.3	48.1	63.2	57.2	52.8
24.7	23.6	23.7	24.6	48.3	47.6	48	45	47.6	49.5	62.7	55.8	53

58.5	51.4	50.5	49.9	45.5	44.3	41.3	37.7	36.2	36.6	34.9	37.1	34.8
56.7	51.1	50.1	48	45.4	44	41.1	38	36.6	36.3	35	36.4	34.7
56.3	51	50.6	47.9	45.2	43.9	41.5	38.1	36.7	36.3	34.9	36.9	35.2
56.2	51.4	51.9	48.8	46.8	47.6	41.9	39	37	36.6	35.7	37.9	35.7
57.9	51.6	57.4	50.3	50.1	46.9	42.3	39.2	37.6	37.8	37.7	38.8	36.8
57.7	50.6	54.3	52	48.3	45.8	43.3	40.2	39	39.5	38.3	39.6	38
57.5	50.6	54	52	47.2	44.9	42.7	40.4	39.1	39.1	38.2	40.7	38.3
58.4	51	52.6	52.3	46.7	44.9	42.7	39.7	38.6	38.6	38.3	41.4	38.6
57.5	53.4	52.6	52.2	47.9	44.4	43.1	40.7	38.3	38.1	37.6	41.2	37.7
57.9	53.6	52.9	53	48.3	45.1	43.3	39.9	37.6	37.9	36.9	39.4	37.2
56.6	54.8	52.8	52.7	47.7	45.4	43.1	40	37.8	37.9	36.9	39.4	37.1
56.3	54.3	54.2	51.8	47.9	45.8	43.2	40	40.2	38.1	38.1	39.8	37.2
55.5	54	53.8	51.8	47.8	45.9	45.5	40	41	42.9	38.9	40.1	38
57.5	54.5	54.9	52.3	47.8	46.3	46.2	40.4	41.4	46.4	39.3	40.8	38.8
58.1	53.6	55.3	52.3	48.5	46.8	47.3	40.9	40.7	46.9	38.9	41.1	39
58.1	53.7	54.7	52.7	49.8	47.3	48.8	41.1	40.3	46.8	38.8	41	39.3
58.4	52.2	53.5	51.8	50	47.4	49.3	41.3	40.5	47.4	39.4	41.4	39.6
58.2	51.3	53.8	51.9	50.5	47.8	48.9	43.2	42.2	47.3	41.1	41.8	40.3
58.4	55.5	52.5	53.2	49.5	49.5	48.3	43.3	41.6	47.5	40.8	42.2	41.4
58	53.7	51.6	50.8	48.1	48.9	47.9	43.5	41.4	47.5	40.7	42.6	42.8
58	52.8	51.5	49.5	47.3	48.4	48.4	42.5	41.6	47.5	40.8	42.4	43.6
57.6	51.3	51.6	48.7	47.1	48.4	49.4	42.7	41.8	47.9	41.1	42.3	43.8
57.4	51.6	49.5	48.2	48	49	48.7	44	42.6	48.2	42.6	43.4	44.6
56.8	50.5	50.7	47.9	48.6	50	48.9	45.6	45.2	48.9	45.4	45.6	47.1
56.3	50.7	51.3	48.9	49.8	50.3	49.8	47.7	47.7	49.9	46.9	49	50.1
57.2	53.4	59.5	51.4	50.7	51.1	51.2	50	48.3	50.6	48.1	49	49.3
57.6	53.6	57.8	50.5	50.3	50.9	51.1	50.6	46.5	49.9	46.7	47.7	47.5
57.3	52.1	55.5	49.4	49.9	49.8	50.6	50.1	46.2	47.6	44.9	46.4	45.9
58.1	52	54.9	50.6	50.6	50	51.6	50.3	46.4	46.6	44.6	45.7	45.6
57.7	51.3	54	51.1	51	50.6	51.6	50.5	46.8	46.7	45.6	46	46.9
57.4	52.7	55.1	52.6	51.2	52.2	52.8	52.5	48.8	48.9	50.2	49.8	52.2
58.7	56.5	58.3	55.1	53.2	54.5	53.4	53.1	50.7	51.8	52.7	52.1	54.8
58.5	56.2	59.2	56.1	54.1	54.7	53	53.6	49.4	49.3	50.3	50	52.9
59.8	54	56.8	53.9	52.5	52.3	52.1	52	47.9	47.2	48	47.5	49.8
60.1	51.8	54.5	52.5	51.5	50	50.6	50.3	46.7	45.5	46	45.5	47
60.2	51	52.5	52.8	50.2	48.4	49.6	48.8	45.4	44.6	44.3	43.3	44.5
60.2	51.3	51.9	54.2	49.9	47.7	48.1	47.2	45.1	44	43	41.8	42.7
61.2	50.1	50.9	52.7	50.1	47	48.2	46.2	44.8	43.9	41.9	41.2	41.4
59.7	49.8	50	51.4	50.8	46.3	46.9	45.3	44.4	44.7	40.9	40.6	40.4
58.4	50	49.7	50.8	50	46	46.7	46.1	44.8	44.4	39.9	39.9	39.4
58.2	49.8	50.2	50	49.1	46.4	46.8	46.8	43.8	42.9	39.2	38.7	37.8
60.4	50	51.1	49.7	48.3	46.7	45.6	44.9	42.3	41.8	38.8	37.8	37
59.5	50.7	50.9	49.8	47.3	46.8	45.7	44	42.1	41.5	37.8	37.7	35.8
59.6	50.7	51.8	51.3	47.1	46.9	45.9	45.1	42.7	40.7	36.6	36.5	35.4
59.3	52.8	51.7	52.3	47.7	46.8	45.9	45	41.8	40.2	36.6	36.3	35.1
59.3	51.9	51.3	52.1	47.4	46.7	46.7	45.9	42.1	40.3	38.1	36.9	35.9
58.7	51.2	51.2	51.1	49.1	47.4	48.7	47.3	42.7	40.4	38.7	37.6	36.1
58.6	52.2	51.1	50.4	49.7	46.2	48.7	46.3	42.8	40.8	39.2	38.3	36.9
58.1	52.2	51.7	50.4	49.8	46.2	48.6	45.5	42.9	41.3	40.1	39.9	38.5
57.6	52.3	51.5	50.8	49.1	46.4	47.4	45.4	42	40.8	39.8	40	39
57.4	51.8	50.8	51.8	48	45.7	46.9	46.2	41.6	39.8	39.5	40	39.4
58.1	51	51.9	53	48.2	46.7	46.8	45.8	41	39.1	39	38.7	38.5
58.2	50.8	51.5	52.9	48	46.4	46.3	45.6	41	38.9	38.7	38	38
58.2	51.2	51	54	47.9	47.2	45.6	44.6	42.5	38.6	38	37.2	37.5
57.9	52.7	51.4	54.5	47.6	47.6	45.4	45.5	45.1	39.6	39.4	38.2	38.7
57.2	51.4	50.8	54	46.7	47.6	45.8	44.4	43.6	39.9	39.3	38.1	38.6
56.6	51.5	50.4	54.1	46.3	46.9	45.9	44.1	42.3	39	38.3	37.5	38.4
56.4	51.8	50.1	55.1	47.4	47.2	46.1	44.1	41.5	38.5	37.4	36.8	37.2
57.9	50.7	50.4	56.3	48.7	46.6	45.5	43.2	41.1	37.6	36.3	36	36.5
57.6	51.6	50.4	55.2	48	46.5	44.9	43.4	41.6	37.9	36.6	36.4	36.5
56.8	52.7	49.7	54.2	47.7	47	44.5	42.7	40.8	37.8	35.8	36	36.5
56.9	53.1	54	54.2	47.6	47.1	44.6	42.4	40.9	38.6	36.2	36.6	36.9
57.1	52.5	53.6	54.2	52.1	47.3	44.3	43.4	42.5	41.1	40.2	39	39.7
54.8	52.3	52.5	55.7	53.8	48.4	44.1	44	42.4	41.1	40	39.5	41.8
54.5	51.3	52.7	54.6	52.5	48.2	43.9	43.8	42.7	42.3	40.5	40	41.1
57.3	51.6	51.9	54.5	50.8	47.9	44.6	44	42	42.7	40.5	40.8	41.8
57.4	54.1	52.1	56.9	49.2	48.8	45.5	44.2	42	41.8	42.5	42.1	43.4
57.4	54.4	53.4	57.3	49.2	48.4	46	44	42.2	41.8	42.4	43.2	43.8
57.9	58	52.8	57	49.2	48.6	46.2	44.9	41.6	41.2	41.8	42.5	43.4
57.7	56	53.3	56.1	48.9	48.8	45	43.9	39.9	39.8	39.9	40.2	41.2
57.4	55.1	53.8	55.5	47.5	48	42.7	41.6	38.1	38	37.9	38.4	39.4
57.8	53.1	54.2	53.7	46.7	47.1	41.8	40.4	36.9	36.6	36.6	36.8	37.6
57.4	51.3	54	52.5	46.5	47.1	40.4	38.8	36.4	35.9	35.3	35.6	36.5
56.7	50.5	52.4	50.6	46.6	48.7	39.9	38.5	35.9	35.4	34.8	35.2	35.5
57	50.2	51.1	49.4	47.4	49	39.8	38.2	35.9	36	34.7	34.8	34.9
56.5	50	49.6	49.5	47	48.7	39.7	38.5	35.9	35.5	35	34.6	34.5
55.8	50.7	49.6	51.4	47.2	47.4	39.5	39.3	36.1	35.3	37.7	35.2	35
56	50.4	51.1	51.7	46.4	47.8	39.7	39.5	36.7	35.8	36.5	35.2	35.2
57.3	50.4	51.4	50.9	45.7	48.2	39.1	39.8	37.8	36.1	35.9	34.7	34.5
57.2	49.2	50.5	50.5	46.2	49.1	38.9	39.7	38.3	36.7	36	35.1	34.5
58.5	50.8	49.4	50.6	46.1	48.5	39.9	39.2	37.7	36.2	35.7	35.6	35.5
58.6	50.4	50.2	50	46.9	47.9	40.1	38.9	37.6	36	35.2	35.4	35.7
57.8	50.5	53.9	50.3	47.3	46.3	40.6	39.8	37.2	35.8	35.6	36.1	36
57.4	51.2	53.6	50.4	47.9	46.5	40.7	40.8	37.7	36.1	36.3	36.8	36.7
56.5	50.9	53.5	50	47.8	47	40.9	40.4	37.9	36.8	36.9	36.7	36.9
57	51.4	53.1	52.5	47.5	47.7	42.1	39.9	39.2	38	37.5	36.6	36.9
56.5	52.8	53.3	53.1	48.9	49.2	42.1	40.3	38.8	38.2	37.7	37.3	38.4
55.1	54	54.9	55.1	50.2	47.8	41.8	39.5	38	37.9	37.2	37.3	39
55.9	53	53.3	54.7	51.7	46.7	42	39.7	37.9	37.4	36.9	37.3	38.5
56.9	52.6	52.4	54.1	52.1	45.9	42.8	40.6	37.6	37.3	36.8	37.2	38
57.8	52.8	52	55	55.2	46.9	42.6	40.5	37.7	37.8	36.6	37	37.6
56.5	52.9	53.8	54.8	56.4	49.2	43.2	40.8	37.8	37.7	38	37.9	37.7
56.4	53.6	52.6	55.9	56.9	48.8	43.4	40.8	39.2	38.3	38.2	38.4	38.4

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
56.5	53	52.9	56.4	57.3	48.5	44.9	42.1	40	38.6	38.7	40.3	39.4
58.5	53	53.8	58.5	55.6	48.5	45	42.8	40.1	38.2	38.1	39.2	39.5
58.6	53.5	54.1	57.6	54.6	50.1	45	42.2	39.6	38.3	37.6	38.1	38.7
57.8	54.1	56.9	56	53	49.2	43	41.2	38.8	37.5	37.1	37.1	37.4
56.9	58	56.2	53.2	50.4	47.3	41.8	40.5	38.2	36.6	36.4	35.9	36.7
55.8	55.8	53.8	50.9	48.4	45.8	40	39.3	37.7	36.2	35.7	35.1	35.9
55.4	54.9	53.3	50.7	47.2	45.3	39.6	39.4	37.4	35.8	35.6	35.2	35.7
56.1	53.3	53.2	49.8	47	45.1	40.3	40.4	37.2	36.1	35.6	35.2	35.7
56.5	52.5	51.4	48.1	47.4	44.1	40.1	42	36.9	36.8	36.2	35.8	36.2
56.3	52.6	50.8	46.9	47.5	43.8	40.6	42.3	37.1	37.3	36.3	36.3	36.4
57.2	55.4	50.4	46.7	46.9	43.3	40.9	43.9	38.8	37.5	37.4	36.9	37.6
56.6	57.8	53.5	48.6	47.5	44.7	42.3	43.7	39	37.7	38.7	38	38.2
57	57.7	53.7	52.6	48.8	45	43.9	44.2	41.2	40	39.5	40.7	40.6

36.2	36.6	34.7	33	31.5	30.8	27.7	25.9	24.1	22.6	22.7	23
35.9	35.7	34	32.3	30.9	29.5	27	25.8	24.1	22.6	22.8	23
35.7	35.7	34	32.2	30.9	29.3	26.8	25.8	24.1	22.8	22.7	22.9
37	36.6	34.7	32.6	31.7	30.3	26.9	26	24.3	22.7	22.7	22.9
38.1	37.4	37	33.4	32.4	30.9	27.6	26.1	24.1	22.6	22.7	22.9
38.5	38.3	36.3	33.5	32.7	31.5	27.8	26.2	24.1	22.6	22.6	22.9
38.6	39.1	36.3	34	33.7	32.4	28.6	26.6	24.6	23	22.7	23
38.6	38.4	35.8	34.2	33.8	32.3	28.2	26.7	24.9	23	23.1	23.1
38	37.8	35.6	33.9	33.1	31.4	27.9	26.6	24.9	22.9	22.9	23.1
37.2	37.6	36	33.8	32.6	31.2	28.1	26.8	24.9	23	23	23.1
37.2	37.6	36	33.9	32.5	31.4	28.7	27.7	26.2	25	24.4	23.8
37.8	38.3	36.6	34.2	32.6	31.4	28.7	27.6	25.7	24.2	23.6	23.3
38.4	38.4	36.6	34.9	33.2	31.6	28.9	27.9	25.8	24.2	23.6	23.3
40	40	37.3	36.3	34.5	32.7	30.1	28.6	26.6	24.8	23.8	23.2
40	40	37.3	35.9	34	32.1	29.4	28.1	25.8	24	23.2	23.1
40.8	40.2	37.8	35.9	34	32	29.3	27.8	25.4	23.7	23.1	23
40.8	40.2	38.5	35.9	34.2	32.2	29.5	27.9	25.4	23.7	23.1	23
41.7	40.9	38.3	35.7	34.1	32	29.3	27.8	25.3	23.6	23	23
41.8	41.2	38.3	35.6	33.9	31.9	29.2	27.6	25.1	23.2	22.9	23
42	41.1	38.9	35.5	33.8	32.1	29.2	27.6	25.2	23.2	22.9	23
42.4	41.1	39	35.9	34.1	32.2	29.2	27.8	25.3	23.3	22.9	23.1
42.9	41.2	39.4	36.4	34.7	32.4	29.6	28.2	25.6	23.5	23	23.1
44.3	43	42.3	38.5	36.2	33.9	31.1	29.2	26.3	24.3	23.4	23.2
47.8	45.2	44.8	41.4	38.1	36.6	32.8	31	27.9	25.6	23.8	23.4
51.7	47.3	45.8	42.5	39.8	38.3	34.8	33	29	27.1	24.7	23.8
51.9	48.3	46.3	43	39.6	38.4	36	33.8	30.4	28	25.5	24.2
51.1	47.8	46.2	42.9	38.5	37.1	35.3	33.3	29.9	27.2	25.2	23.9
49.5	47.3	46.1	41.7	37	35.4	33.5	31.6	28.7	26	24.4	23.6
48.6	47.1	45.8	41.2	36.4	34.8	33	30.6	28	26.1	24.3	23.6
48.7	47.3	45.9	41.3	36.6	34.8	33.1	30.6	27.9	26.5	24.7	23.4
52.4	50	48.2	44.2	40.2	38	35.5	32.2	29.2	27.8	25.4	23.7
55.2	51.5	48.3	44.9	41.8	39.3	36.6	33.3	30.5	29	26.1	24.1
54.2	51.8	48	43.7	40.2	37.8	35.2	32.5	29.3	27.8	25.3	23.7
51.7	49.4	46.4	41.5	38.1	35.6	33.1	30.7	28.1	26.4	24.5	23.5
49	47	44.3	39.8	36.7	34.4	32.1	30.4	28	26.2	24.5	23.5
46	44.5	42.1	38.3	35.7	33.5	31.4	30.2	28	26.1	24.6	23.6
43.8	42.7	40.2	36.6	34.4	32.7	31	30.2	28	26	24.6	23.5
42.3	41.1	38.5	35.1	33.2	31.6	30	28.7	26.7	25.1	24	23.5
41.7	40	37.3	33.8	32.3	30.7	28.9	27.8	26	24.4	23.6	23.3
40.5	38.5	36	32.8	31.6	30	28	27.4	25.5	24	23.3	23.3
39	37.2	34.7	31.9	30.9	29.4	27.3	26.9	24.8	24.1	23.5	23.2
37.7	36.4	33.5	31	30.2	28.4	26.4	26.2	24.2	23.4	23.1	23
36.5	35.5	33.1	30.4	29.8	28.2	26.1	26	24.1	23.2	22.9	23
35.5	34.3	32.3	29.6	29.7	27.9	25.9	25.9	24.2	23.1	23.1	23.1
35.5	34.2	31.9	29.7	29.8	27.9	26.1	25.9	26.4	25.1	24.6	24.1
35.9	35.3	31.9	29.9	29.7	27.8	26.3	26.2	28.5	26.8	26.1	24.5
36.4	36.6	33.2	30.3	30.2	28.1	26.3	26.3	26.7	25.2	24.3	23.7
37.6	36.8	33.9	31	30.5	29	26.8	26.7	25.6	24.1	23.5	23.3
38.8	36.8	34.2	31.5	31	29.4	27.4	27.2	25	23.5	23	23.1
39.6	36.8	34.2	31.7	31	29.3	27.2	26.9	24.5	23.2	22.8	23
39.3	36.7	34.9	31.5	30.6	29	26.7	26.3	24.2	22.9	22.7	22.9
38.2	36	34.4	31.3	30.6	28.5	26.7	26.3	24	22.6	22.5	22.9
37.8	36.1	34	31.3	30.5	28.3	26.5	26.3	24	22.7	22.5	23
37.3	35.8	33.7	31.2	30.5	28.5	26.6	26.6	24.1	22.8	22.7	23
37.8	36.4	34.3	31.3	30.7	29.1	27.3	27.1	25.1	23.6	23.1	23.2
37.7	36.4	34.3	31.5	31.3	29.7	28.3	27.9	25.8	24	23.4	23.3
38.1	36.5	34.9	31.9	31.3	29.6	27.9	27.6	25.4	23.7	23.3	23.3
37.2	36.2	34.1	31.7	30.8	29.2	28.2	27.5	25.8	24.1	24.2	24.7
36.5	35.4	33.7	31.1	30.2	28.7	27.2	27	25	23.4	23.5	23.8
36.4	35.4	33.5	31.1	30.2	28.7	27.1	27	24.9	23.4	23.3	23.4
36.3	34.8	33.3	32	31.4	29	27.9	27.2	24.8	23.5	23.2	23.3
36.3	35.2	34	32.4	32.4	31.4	29.5	28.2	26	24.2	23.6	23.3
38.1	37.4	35.8	34.6	33.8	33.2	31	29.1	27	24.8	23.7	23.3
38.8	37.2	36	34.6	33.8	33.1	30.9	29.1	27.1	24.8	23.6	23.3
39.8	37.4	36.4	34.9	34.4	33.6	31.4	30.1	27.9	24.9	23.9	23.3
40.3	38.6	37.1	36.4	35.7	34.2	32.5	31.3	29	25.3	24	23.3
43.3	40.8	40.6	39.9	40	36.4	34.2	34	31.7	27.3	24.8	23.6
43.5	41.2	40.3	39.3	39.2	36	34	33.4	31.2	26.8	24.5	23.4
42.7	40.2	38.5	37.5	36.8	34.2	32.2	31.6	29.7	25.8	23.9	23.3
40.4	38.2	36.4	35	34.2	31.9	30	29.4	27.3	24.1	23.3	23.1
39.1	37.6	35.8	33.2	32.5	30.6	28.7	27.8	25.6	23.4	23	23
37.5	38.4	35.6	31.7	31.1	29.2	27.5	26.7	24.5	22.9	22.8	23
36.4	36.5	33.8	30.6	30	28.5	26.7	26.1	23.9	22.7	22.8	23
35.4	34.7	32.8	30.1	29.4	28.1	26.3	25.9	23.7	22.8	22.8	23
34.9	34	32.1	30.1	29.5	28	26.3	26	23.9	22.9	22.7	23
34.7	34.1	31.6	29.9	29.8	28.3	26.7	26.3	23.9	22.8	22.7	22.9
35.4	33.9	31.7	29.9	30.3	28.9	27.1	26.5	24.2	22.9	22.7	22.9
35.6	33.9	31.1	29.5	29.8	28.8	26.8	26.3	24	22.8	22.8	23
35.2	33.8	31.1	29.5	29.8	29	27	26.3	24	22.8	22.9	23
35.2	33.9	31.7	30	30.3	29.3	27.5	26.7	27.1	24.5	24.3	23.4
35.7	34.7	32.9	31.2	30.6	29.7	27.9	27	25.7	23.7	23.6	23.3
35.5	34.7	33.1	31.2	30.6	29.7	27.7	27.1	25.4	23.5	23.3	23.1
35.8	35.2	33.2	31.3	30.8	29.8	27.5	27.1	25	23.4	23.1	23
37.2	35.5	33.6	31.6	31	29.8	27.6	27	24.8	23.3	22.9	23
37.1	36	34	31.3	30.9	29.6	27.8	27.1	24.8	23.3	22.9	23
37.3	36	34.3	31.3	30.9	29.6	28	27.3	24.8	23.3	23	23.1
37.9	36.5	35.2	32.1	31	29.7	27.8	27.2	24.7	23.1	23	23
39	37.1	35.8	33.3	31.5	29.7	27.8	27.3	24.7	23.2	23	23.1
38.7	37	36.1	33.1	31.5	29.7	27.5	27.1	24.5	23.1	22.9	23
37.8	36.2	35.4	32.8	31.2	29.7	27.6	27.1	24.7	23	23	23
37.2	35.9	34.7	32.8	31.2	29.8	28.1	27.4	24.9	23.2	22.9	23
37.6	36	34.9	33.7	31.8	30.4	29	27.7	25.5	23.7	23.2	23
38	36.4	34.9	33.9	32.1	30.7	28.9	27.6	25.4	23.5	23.1	23

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
38.1	37.4	35.8	33.8	32.2	31.2	29.2	27.8	25.5	23.7	23.1	23.1
39	37.3	35.3	34.1	32.8	31	29.7	28.1	25.4	23.8	23.1	23.2
37.9	36.1	34.8	33.1	31.8	30.3	28.9	27.6	25.3	23.8	23.2	23.1
36.9	35.5	34.6	32.5	31.4	29.8	28.4	27.3	25	23.5	23.1	23.1
36.2	35	34.6	32.4	31.5	29.7	28.2	27.1	25	23.5	23	23.2
35.9	34.8	34.9	32.3	31.5	29.5	27.9	27.2	25.1	23.6	23.3	23.3
35.9	34.8	35.1	32.4	31.3	29.4	27.7	26.8	24.9	23.5	23.2	23.3
36.2	35.2	35.4	32.8	31.5	29.5	27.7	26.9	24.9	23.3	23.1	23.1
36.2	35.4	35.1	32.9	31.4	29.6	27.8	26.9	24.8	23.2	23	23
36.7	36	35.4	33.2	31.7	29.8	28.1	27.1	24.7	23.2	23	23
37.9	36.5	36.4	34.2	32.6	30.4	28.8	27.5	25.1	23.4	23.1	23
38.7	37.2	36.9	34.7	34	32	29.9	28.9	26.6	24.5	23.5	23.1
39.7	39.2	39	36.2	35.5	33.7	32.4	30.5	28.4	25.4	24	23.2

23.7	24.6	0.3	No	No
23.7	24.6	0.5	No	No
23.6	24.5	1.6	No	No
23.7	24.5	1.2	No	No
23.7	24.6	0.3	No	No
23.6	24.6	0.4	No	No
23.7	24.5	0.6	No	No
23.7	24.5	0.3	No	No
23.7	24.5	0.3	No	No
23.7	24.6	0.5	No	No
24	24.7	0.5	No	No
23.8	24.6	-0.2	No	No
23.7	24.5	0.5	No	No
23.7	24.5	0.3	No	No
23.7	24.5	0.9	No	No
23.7	24.5	-0.1	No	No
23.7	24.5	5.1	No	No
23.6	24.5	1.9	No	No
23.6	24.5	1.2	No	No
23.6	24.5	0	No	No
23.6	24.6	0.2	No	No
23.6	24.6	0.1	No	No
23.6	24.6	-0.1	No	No
23.7	24.6	0.2	No	No
24	24.6	0.6	No	No
24.1	24.6	1.4	No	No
23.9	24.5	0.2	No	No
23.8	24.5	0.3	No	No
23.8	24.6	-0.1	No	No
23.8	24.6	0.7	No	No
24	24.6	0.6	No	No
24.8	24.7	2.1	No	No
24.2	24.6	1.2	No	No
24.1	24.6	1.5	No	No
24	24.6	1.5	No	No
23.8	24.6	0.9	No	No
23.8	24.6	2	No	No
23.8	24.5	0.2	No	No
23.7	24.6	0.8	No	No
23.7	24.6	0.9	No	No
23.7	24.6	0.6	No	No
23.6	24.5	0.2	No	No
23.6	24.5	0.5	No	No
23.6	24.5	0.4	No	No
24.2	24.7	1.5	No	No
24.6	24.7	1.2	No	No
24	24.6	0.2	No	No
23.9	24.6	0	No	No
23.7	24.6	0.7	No	No
23.7	24.5	1.1	No	No
23.7	24.5	0.6	No	No
23.7	24.5	0.4	No	No
23.6	24.4	0.7	No	No
23.6	24.5	0.4	No	No
23.8	24.5	1.9	No	No
23.8	24.6	0.9	No	No
23.9	24.6	0.6	No	No
24.2	24.7	0.8	No	No
23.8	24.6	0.2	No	No
23.8	24.6	3.6	No	No
23.8	24.5	0.4	No	No
23.7	24.6	0.5	No	No
23.7	24.5	0.4	No	No
23.7	24.6	0.3	No	No
23.7	24.6	0.1	No	No
23.6	24.6	0.2	No	No
23.7	24.5	0.6	No	No
23.7	24.5	0.7	No	No
23.7	24.5	2	No	No
23.7	24.6	0.7	No	No
23.6	24.5	3.3	No	No
23.6	24.5	1.2	No	No
23.6	24.5	0.7	No	No
23.7	24.5	0.3	No	No
23.7	24.5	0.4	No	No
23.6	24.5	0.1	No	No
23.6	24.5	0.3	No	No
23.6	24.6	0.3	No	No
23.6	24.6	0.5	No	No
23.8	24.5	1.3	No	No
23.6	24.5	0.6	No	No
23.6	24.5	0.4	No	No
23.6	24.5	0.3	No	No
23.6	24.5	0.1	No	No
23.6	24.6	0.2	No	No
23.7	24.5	0.6	No	No
23.6	24.5	0.9	No	No
23.6	24.6	0.3	No	No
23.7	24.6	0.4	No	No
23.8	24.6	0.7	No	No
23.7	24.6	-0.2	No	No
23.7	24.5	0.2	No	No
23.7	24.5	0.8	No	No

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.7	24.5	0.5	No	No	
23.7	24.6	1.7	No	No	
23.8	24.6	3.7	No	No	
23.7	24.6	2.2	No	No	
23.7	24.6	1.3	No	No	
23.8	24.6	0.4	No	No	
23.7	24.6	0.3	No	No	
23.6	24.6	0.4	No	No	
23.6	24.6	0.2	No	No	
23.7	24.5	0.5	No	No	
23.7	24.5	-0.1	No	No	
23.7	24.5	-0.1	No	No	
23.7	24.5	0.5	No	No	

211		11/19/2021	1:26:01 PM	53.5	65.4	53.1	52.4	98.5	16.2	54.0	55.6	64.6	67.9	60.5	53.8	48.9	48.4	43.8
212		11/19/2021	1:26:02 PM	52.1	64.1	53.1	52.4	98.3	16.6	48.1	55.9	61.7	69.9	59.1	51.5	48.4	46.7	42.1
213		11/19/2021	1:26:03 PM	51.1	63.2	52.4	51.6	98.3	14.1	50.8	62.1	62.9	63	58.1	52.1	48.5	45.7	41.4
214		11/19/2021	1:26:04 PM	51.0	62.7	51.6	51.2	98.4	14.2	53.2	57.2	63.3	61	57.1	51.5	47.4	45.9	42.8
215		11/19/2021	1:26:05 PM	52.0	63.7	51.8	51.3	98.3	13.1	53.6	57.1	64.7	61.8	58.3	49.8	47.2	47	46.2
216		11/19/2021	1:26:06 PM	49.7	60.7	51.7	50.5	98.3	13.6	50.2	60.8	63.5	59.7	57.1	49.5	46.6	44.6	41.8
217		11/19/2021	1:26:07 PM	48.5	59.7	50.5	49.3	98.4	15.1	59.1	58.7	63	58.2	53	48.3	45.9	43.8	39.5
218		11/19/2021	1:26:08 PM	48.8	60.7	49.3	49.0	98.1	15.4	55.4	58.1	61.6	60.8	54.5	48.9	45.7	44.1	39.9
219		11/19/2021	1:26:09 PM	48.8	61.5	49.1	48.9	98.4	15.4	56.3	56	64.4	61.3	54	48.0	46.2	44.2	40.2
220		11/19/2021	1:26:10 PM	48.9	60.7	49.0	48.7	98.3	14.7	47.0	57.6	63.2	62	53.2	48.0	46.5	43.8	40.6
221		11/19/2021	1:26:11 PM	49.9	60.7	49.6	49.0	98.4	14.2	51.3	57.5	61.4	60.9	55.1	48.9	46.8	45.4	41.4
222		11/19/2021	1:26:12 PM	51.4	63.2	50.9	49.6	98.4	12.6	54.1	58	61.5	62.1	54.4	50.1	47.9	47.2	43.3
223		11/19/2021	1:26:13 PM	51.6	62.7	51.5	51.0	98.1	11	52.0	57.5	62	58.8	54.1	50.6	47.9	47.6	44.1
224		11/19/2021	1:26:14 PM	49.9	61.5	51.3	50.4	98.4	12.2	50.3	57.7	61.5	58.5	52.3	49.0	46.5	45.8	41.8
225		11/19/2021	1:26:15 PM	50.0	61.5	50.4	50.1	98.3	12.7	52.3	57.4	60.6	58.2	52.1	48.8	46.6	45.8	42.1
226		11/19/2021	1:26:16 PM	49.8	62.7	50.2	49.9	98.3	11.9	48.2	55.5	61.4	59.3	52.6	48.8	46.8	45.7	41.4
227		11/19/2021	1:26:17 PM	48.8	59.7	49.9	49.1	98.4	13.1	50.4	54	60.3	58.4	51.1	47.8	45.7	44.8	40.8
228		11/19/2021	1:26:18 PM	48.5	64.1	49.5	48.5	98.3	14.4	52.8	55.8	60.8	57.6	50	43.5	41.6	42.5	43.6
229		11/19/2021	1:26:19 PM	46.4	59.7	48.5	47.2	98.4	17.6	52.4	53.6	64.5	59.1	51.3	43.4	41.9	42.2	38.5
230		11/19/2021	1:26:20 PM	46.4	68.3	47.6	46.5	98.3	15.6	50.9	53.5	65.1	60.6	51.8	43.8	40.9	41.1	39.5
231		11/19/2021	1:26:21 PM	44.5	53.7	46.5	45.4	98.3	17.6	51.8	53.4	63.6	57.7	50.9	42.1	40.6	39.8	36
232		11/19/2021	1:26:22 PM	45.0	56.7	45.4	45.2	98.3	19.5	53.7	55.9	62.9	58.4	51.4	42.2	40.4	40.4	36.2
233		11/19/2021	1:26:23 PM	44.6	53.7	45.2	44.8	98.3	18.9	53.0	53.9	65.6	61.5	51	42.5	40.5	40	35.6
234		11/19/2021	1:26:24 PM	44.9	56.7	45.0	44.8	98.4	17.9	53.8	55.7	64.8	60.1	51.1	42.1	40.4	40	36.4
235		11/19/2021	1:26:25 PM	44.9	56.7	44.9	44.8	98.4	18.8	52.0	58.3	62.3	59.5	51.1	43.5	40.8	39.8	36.3
236		11/19/2021	1:26:26 PM	45.9	58.4	45.6	44.9	98.3	16.1	52.4	58.9	65.1	57.8	52.6	44.5	42.1	41.1	37
237		11/19/2021	1:26:27 PM	46.5	58.4	46.2	45.6	98.5	15.9	51.5	56.4	60.9	58	53.9	44.4	41.7	42.1	37.7
238		11/19/2021	1:26:28 PM	46.6	56.7	46.5	46.2	98.1	16	50.8	57.2	61.8	59.4	54.2	45.3	41.8	41.9	38
239		11/19/2021	1:26:29 PM	47.0	58.4	46.9	46.4	98.5	15.9	51.7	58.7	61.8	58.8	52.8	44.3	41.9	42.8	39
240		11/19/2021	1:26:30 PM	46.8	59.7	46.9	46.7	98.4	15.7	50.3	59.7	61.8	60.2	53.6	45.5	42.4	42.5	38.6
241		11/19/2021	1:26:31 PM	46.6	56.7	46.8	46.6	98.4	16.3	49.0	57.4	62.4	57.6	51	43.9	42.3	43	37.7
242		11/19/2021	1:26:32 PM	46.5	58.4	46.7	46.6	98.4	16	53.4	55.7	63.7	60.2	52.5	43.6	41.9	42.9	37.5
243		11/19/2021	1:26:33 PM	46.6	56.7	46.6	46.4	98.3	15.7	55.8	57.2	63.2	57.7	51.2	45.1	41.7	43	37.4
244		11/19/2021	1:26:34 PM	47.2	58.4	47.0	46.6	98.3	15.1	52.3	55.7	63	57.6	53.7	45.8	43.3	43.1	38.8
245		11/19/2021	1:26:35 PM	47.1	60.7	47.1	46.8	98.5	15.3	53.3	54.3	62.2	58.6	51.8	43.7	43.3	42.6	39.6
246		11/19/2021	1:26:36 PM	48.1	61.5	47.9	47.1	98.4	14.7	50.5	55.5	63.4	57.5	50.3	44.9	43	44.2	41.4
247		11/19/2021	1:26:37 PM	48.1	60.7	48.1	47.9	98.4	15.1	50.5	55.6	63.9	60.6	50.6	44.1	42.7	44.7	41
248		11/19/2021	1:26:38 PM	48.9	60.7	48.6	48.0	98.1	13.8	51.0	54	64.1	58.7	52.5	47.4	43.7	45.2	41.4
249		11/19/2021	1:26:39 PM	48.6	58.4	48.7	48.6	98.1	14.7	46.8	55.6	63.5	58.5	52.8	47.7	43.4	45.1	40.3
250		11/19/2021	1:26:40 PM	47.8	58.4	48.6	48.1	98.1	14.7	48.5	57.1	64.6	58.5	54.6	47.4	42.9	43.4	40.2
251		11/19/2021	1:26:41 PM	46.9	56.7	48.1	47.3	98.3	15.6	47.4	53.8	61.6	58.5	54.3	46.6	42.6	42.6	38.1
252		11/19/2021	1:26:42 PM	50.0	62.1	49.4	47.1	98.3	13.8	51.9	57.6	62.2	59.7	54.2	47.1	44.7	46.6	42
253		11/19/2021	1:26:43 PM	53.3	65.4	52.4	49.5	98.1	13.6	50.5	57.2	63.2	64	58.6	50.6	48	49.6	44
254		11/19/2021	1:26:44 PM	54.5	66.7	53.9	52.4	98.3	11.7	55.0	57.6	63.5	63.8	59.4	53.4	50.5	51.1	44.8
255		11/19/2021	1:26:45 PM	55.2	68.4	55.1	54.0	98.3	10.1	51.2	55.9	64	60.1	58.4	53.5	52.7	51.7	45.7
256		11/19/2021	1:26:46 PM	51.4	63.2	54.4	52.7	98.5	13.6	53.8	63.2	63.4	61.1	58.7	49.8	48	47	43.1
257		11/19/2021	1:26:47 PM	51.0	62.1	52.7	51.7	98.3	14	51.0	60.6	64.6	61.3	54.9	49.1	46.8	47.4	42.6
258		11/19/2021	1:26:48 PM	50.1	65.1	51.7	50.7	98.5	14.5	52.4	62.7	65.4	60.9	54.1	49.0	46.8	45.8	41.6
259		11/19/2021	1:26:49 PM	48.7	59.7	50.8	49.5	98.3	16.4	50.9	61.5	65.3	58.7	52.2	47.9	45.5	44.3	40.1
260		11/19/2021	1:26:50 PM	48.0	59.7	49.5	48.7	98.4	17.4	55.2	58.2	66.5	58.7	53.9	48.3	44.8	42.8	39.1
261		11/19/2021	1:26:51 PM	47.5	58.4	48.7	48.0	98.4	18.1	56.4	58.5	66.7	60.3	52.9	47.1	44.5	42	38.5
262		11/19/2021	1:26:52 PM	48.9	69.4	48.8	48.0	98.3	16.5	51.0	57.1	67.9	59.7	55.4	48.6	44.5	43.5	40.4
263		11/19/2021	1:26:53 PM	48.1	59.7	48.6	48.2	98.1	15.8	56.4	56.8	66.6	58.2	54.8	48.5	43.9	43.5	39.3
264		11/19/2021	1:26:54 PM	48.0	58.4	48.3	48.2	98.3	15.2	53.0	58.1	65	58.9	53.6	48.1	44.7	43.4	38.9
265		11/19/2021	1:26:55 PM	48.7	60.7	48.5	48.1	98.1	15.1	53.0	58.8	63.6	57.7	53.2	50.0	46.2	43.2	39.2
266		11/19/2021	1:26:56 PM	49.2	59.7	49.0	48.5	98.3	14.7	52.1	61.4	65.2	59.3	54.4	53.3	44.7	43.6	39.9
267		11/19/2021	1:26:57 PM	50.8	63.7	50.3	48.9	98.3	14.5	52.8	60.4	63.5	59.4	53.8	52.7	46.3	46.3	42.4
268		11/19/2021	1:26:58 PM	54.6	66.7	53.7	50.4	98.5	12	49.5	63.7	65	58.9	55.8	54.6	49.9	50.9	46.7
269		11/19/2021	1:26:59 PM	59.6	72.1	58.4	53.8	98.4	7.2	54.3	70.3	65.8	59.5	56.9	57.8	54.4	56.8	50.7
270		11/19/2021	1:27:00 PM	64.7	77.7	63.5	58.5	98.3	6	57.2	66.3	65.4	61.7	60.4	60.3	60.8	61.2	56.9
271		11/19/2021	1:27:01 PM	67.1	80.1	66.1	63.6	98.5	9.7	58.3	69.4	69.1	65.6	63.1	60.7	63	63.7	59.7
272		11/19/2021	1:27:02 PM	62.9	75.0	66.1	64.2	98.3	8.7	54.9	81.9	73.8	66	61.7	60.8	58.1	60	54.7
273		11/19/2021	1:27:03 PM	58.2	72.1	64.2	61.4	98.5	10.1	65.1	78.5	69.6	64.9	58.9	56.0	54.5	54.9	50.4
274		11/19/2021	1:27:04 PM	55.3	67.5	61.4	58.6	98.4	11	70.1	66.9	65	62.5	56.3	54.0	53.2	51.3	47
275		11/19/2021	1:27:05 PM	53.3	64.8	58.6	56.0	98.1	12.5	58.2	68.7	65.2	60.6	56.6	53.4	50.4	48.9	44.6
276		11/19/2021	1:27:06 PM	51.2	63.2	56.0	53.6	98.5	14.8	56.8	67.7	64.1	59.6	54.8	51.2	48.1	46.8	42.4
277		11/19/2021	1:27:07 PM	50.3	62.1	53.6	51.9	98.1	14	53.3	66.6	66.5	58.8	55.6	51.4	46.8	45.9	41.3
278		11/19/2021	1:27:08 PM	49.3	62.1	51.8	50.3	98.3	15.6	52.0	60.4	64.1	61.9	55.1	49.1	45.8	44.7	40.5
279		11/19/2021	1:27:09 PM	48.2	67.7	50.3	49.1	98.5	16.3	51.0	59.1	65.5	59	54.8	47.6	44.1	43.7	39.5
280		11/19/2021	1:27:10 PM	48.5	59.7	49.1	48.7	98.1	17.1	54.0	59.8	66.7	57.2	56.1	48.4	44.1	43.4	39.8
281		11/19/2021	1:27:11 PM	48.3	59.7	48.7	48.5	98.3	18.7	54.2	58.1	67.2	57.7	54	48.3	44	42.7	40.2
282		11/19/2021	1:27:12 PM	48.6	60.7	48.6	48.5	98.1	20.3	52.9	54.4	70.4	57.3	55	49.6	43.7	43.3	40.2
283		11/19/2021	1:27:13 PM	48.9	60.7	48.8	48.6	98.3	21.1	48.7	56.1	71.7	58.7	55.3	50.9	44.1	43.3	40.2
284		11/19/2021	1:27:14 PM	50.1	61.5	49.7	48.8	98.3	19.5	54.2	56.2	74.1	58.5	56.6	50.2	45.9	44.9	41.8
285		11/19/2021	1:27:15 PM	51.2	67.3	50.8	49.7	98.4	17.7	50.9	59.3	73.2	59.2	56	50.7	46.9	45.9	43
286		11/19/2021	1:27:16 PM	51.9	63.2	51.6	50.8	98.4	18.2	47.9	60.3	71	58.9	56.1	51.0	47.4	47	43.5
287		11/19/2021	1:27:17 PM	52.3	65.7	52.0	51.5	98.3	20.4	51.8	56.8	73.8	60.4	56	52.0	46.8	47.1	43.9
288		11/19/2021	1:27:18 PM	51.8	63.7	52.0	51.8	98.1	21.7	50.4	60.5	76.2	59.6	57.1	51.5	46.5	46.6	43
289		11/19/2021	1:27:19 PM	50.9	63.2	51.8	51.2	98.1	21.2	50.6	58.2	76.1	61.9	56.4	50.4	46.2	45.7	42.3
290		11/19/2021	1:27:20 PM	49.8	61.5	51.2	50.3	98.3	22.7	52.3	57.3	75.2	61.8	57.5	49.9	45.1	44.5	41.1
291		11/19/2021	1:27:21 PM	49.6	62.1	50.3	49.8	98.3	19.2	52.1	56	75.5	57.6	56.1	49.4	44.5	44.2	41.3
292		11/19/2021	1:27:22 PM	49.8	61.5	50.1	49.8	98.3	15.6	54.0	54.8	70	59.2	55.6	48.9	44.6	45.5	42
293		11/19/2021	1:27:23 PM	50.0	64.8	50.0	49.7	98.3	15.2	52.2	56.3	66.8	57.2	55.1	47.5	45.3	46	42
294		11/19/2021	1:27:24 PM	51.5	64.5	51.1	50.0	98.1	12.5	54.0	53.8	66	59.2	56.9	49.7	46.9	47.5	43.7
295		11/19/2021	1:27:25 PM	50.9	62.7	51.1	50.9	98.1	13	52.3	57.7	63.8	59.4	56.6	48.7	45.6	47.2	43

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
296		11/19/2021	1:27:26 PM	50.1	62.1	50.9	50.4	98.4	14.8	51.4	55.8	64.5	59.1	57.2	49.7	44.6	46.3	41.4
297		11/19/2021	1:27:27 PM	47.8	60.7	50.4	48.9	98.4	18.1	48.4	57.6	65.9	59.6	56.4	48.3	43	43	38.1
298		11/19/2021	1:27:28 PM	47.2	58.4	48.9	47.9	98.1	17.1	54.2	57.4	67.6	57.6	57.2	46.9	41.6	41.6	37.8
299		11/19/2021	1:27:29 PM	46.5	58.4	47.9	47.1	98.3	17.3	51.7	54.8	64.9	59.5	55.6	45.6	41.6	41.8	37.3
300		11/19/2021	1:27:30 PM	46.7	56.7	47.1	46.7	98.1	16.7	49.8	55.1	64.1	57.9	54.1	45.3	42.4	42.1	37.2
301		11/19/2021	1:27:31 PM	46.4	56.7	46.7	46.5	98.1	17.5	50.5	53.7	65.2	58.1	53.9	44.3	41.9	41.9	37.5
302		11/19/2021	1:27:32 PM	47.4	59.7	47.1	46.6	98.1	15.1	49.0	54.9	65.4	58.6	53.7	45.7	42.6	43	39
303		11/19/2021	1:27:33 PM	47.3	59.7	47.6	47.1	98.4	15.4	53.6	59.4	63.3	57	53.6	44.9	42.1	42.3	40.8
304		11/19/2021	1:27:34 PM	45.7	56.7	47.1	46.3	98.1	18.3	51.7	54.6	63.3	58	53	44.1	40.5	40.8	36.8
305		11/19/2021	1:27:35 PM	45.8	53.7	46.3	45.9	98.4	17.4	53.1	53.4	66.1	58.7	53.8	43.9	41	41.2	37.3
306		11/19/2021	1:27:36 PM	50.3	62.7	49.5	46.1	98.1	13.6	48.7	55.5	64	60	57	46.3	43.9	46.2	42.7
307		11/19/2021	1:27:37 PM	52.1	64.1	51.2	49.5	98.1	12.4	49.0	56.2	64.3	58.7	57.9	46.7	46.2	47.9	45.2
308		11/19/2021	1:27:38 PM	53.1	65.4	52.7	51.2	98.3	10.6	50.5	57.5	64.7	59	55.7	49.7	49.5	48.9	45.2
309		11/19/2021	1:27:39 PM	52.7	66.0	53.2	52.5	98.1	11	54.5	55.6	63.9	59.8	54.8	51.4	48	48.7	45.2
310		11/19/2021	1:27:40 PM	48.8	60.7	52.5	50.5	98.3	16.4	50.0	54.9	62.6	59	55.8	47.4	44.7	44.5	39.8
311		11/19/2021	1:27:41 PM	49.8	62.7	50.5	50.0	98.3	13.7	50.0	55.1	67.2	56.6	55.4	46.6	46.5	45.6	40.8
312		11/19/2021	1:27:42 PM	48.8	61.5	50.2	49.3	98.1	14.2	51.1	56.1	64.9	58.9	52.9	47.6	45.7	44.6	40.2
313		11/19/2021	1:27:43 PM	48.5	62.7	49.3	48.7	98.1	16.3	48.1	58.9	63.5	58.3	55.6	49.3	45	43.7	39
314		11/19/2021	1:27:44 PM	49.3	60.7	49.2	48.9	98.3	14.3	51.0	62.5	64.9	58.2	54.6	48.6	47.1	44.7	40.5
315		11/19/2021	1:27:45 PM	49.2	62.7	49.3	49.1	98.3	14.1	59.5	60.6	66.2	57.1	53.3	49.4	46.3	44.5	40.3
316		11/19/2021	1:27:46 PM	49.2	60.7	49.3	49.1	98.3	14.4	56.7	55.6	65.7	58.3	53	48.6	47.6	44.3	40

38.5	31.9	28.7	59.3	55.6	64.9	67.7	59.9	52.7	49	48	43.9	39.2
37.1	30.9	28.7	56.5	56.1	65.1	69.8	59.6	52.7	48.6	47.9	43.4	38.5
36.2	30.2	28.6	53.3	60.6	63.2	68.8	59.4	52.3	48.7	47.1	42.7	37.7
36.4	30.1	28.6	52.8	60.7	63.5	66.1	58.6	52.3	48.5	46.3	42.7	36.8
38	30.5	28.6	53.6	58.7	64.7	63.9	58.2	51.5	48	46.8	45.2	37.6
35.8	29.7	29	53.3	60.2	64.3	62.4	58.3	50.5	47.4	46.7	45.2	37.6
35.1	29	30	57.5	60.5	63.8	60.9	57.4	49.9	46.8	45.5	43.2	36.4
35.1	28.9	28.5	57.6	59.3	63.4	60.7	55.2	49.1	46.4	44.5	41.3	35.6
35.2	29.1	28.6	56.6	58.5	63.9	61.4	55	49	46.3	44.3	40.5	35.3
35.9	29.3	28.6	56.4	57.5	64	61.8	54.3	48.5	46.4	44.1	40.6	35.7
36.3	29.4	28.6	53	57.9	63.2	61.7	54.8	48.8	46.8	44.9	41.2	36.2
38.1	30.4	28.7	54.1	58.1	62.4	61.9	54.7	49.8	47.7	46.8	42.8	37.6
39.3	31.1	28.6	53.7	58.4	62.5	62	54.8	50.4	47.9	47.4	43.8	38.9
36.4	29.1	28.6	52.6	58	62.1	60	54.1	50.2	47.8	47.2	43.5	38.5
35.9	29.2	28.5	52.4	57.8	61.6	59.2	53.4	49.5	47	46.3	42.5	37.3
35.2	29	28.6	52	57.6	61.8	59.3	53	49.2	47	46.1	42.3	36.5
34.6	28.8	28.6	50.8	56.4	61.2	59	52.5	49	46.8	45.9	41.8	35.7
38	29.6	28.7	52.4	55.6	61.2	58.8	51.7	48.1	45.9	45	43.4	38
32.6	29.5	28.8	52.7	55.4	63.6	58.8	51.3	45.8	43.8	43.6	42.4	36.4
34.3	32.6	28.9	52.4	55	64.9	60.2	52	44.6	42.5	42.7	41.1	35.4
31.4	28.1	28.6	51.9	54.1	64.2	59.7	51.5	44	41.6	41.7	39.4	33.9
31.6	28	28.6	53.9	55.6	64	59	51.6	43.1	41	40.6	37.6	32.6
31.6	28	28.4	53.5	55.5	65.2	60.8	51.4	42.6	40.8	40.6	36.8	32
32	28.3	28.5	54.4	55.6	65.2	60.8	51.5	42.7	40.6	40.3	36.4	32
32	28.3	28.5	53.7	57.9	64.7	60.4	51.3	43.1	40.9	40.1	36.4	32
33	28.6	28.6	52.6	58.7	64.7	59.6	52.3	44.2	41.7	40.8	36.8	32.7
32.5	28.1	28.6	52.6	58.5	64.5	58.9	53.5	44.5	41.9	41.7	37.4	32.6
32.2	28.1	28.6	52	57.8	62.9	59.2	54.3	44.9	41.9	41.9	37.9	32.5
34.7	28.6	28.5	52.3	59	62.1	59.3	54.2	45	42.1	42.7	38.7	34.2
32.3	28.2	28.5	52.6	59.5	62.4	60.2	53.8	45.3	42.4	42.6	38.7	34.2
31.7	27.9	28.4	50.4	59.2	62.8	59.5	53.4	45.2	42.4	42.9	38.6	33.1
31.8	28	28.6	52.4	57.9	63.6	59.6	52.6	44.6	42.3	43	38	32.3
32.2	27.8	28.5	55	57.9	63.5	59.5	52.3	44.9	42.1	43.1	37.7	32.2
32.7	28.1	28.5	54.9	57	63.5	58.5	53.2	45.7	42.8	43.1	38.4	32.5
32.5	28.1	28.5	54.6	56	63.2	58.7	52.7	45.2	43.2	43	39.2	32.6
33.6	28.2	28.6	52.9	55.6	63.4	58.4	52.2	45	43.2	43.9	40.8	33.3
33	28.1	28.6	51.4	56.2	64	59.9	51.6	44.7	43.1	44.4	41	33.3
33	28.2	28.5	51.6	55.7	64	60	52	46.6	43.5	44.9	41.2	33.1
32.8	28.4	28.6	50.8	55.4	64.2	59.1	52.8	47.4	43.7	45.1	41.2	33
33.2	28.3	28.5	49.7	56.8	64.4	59.2	54	47.7	43.5	45	40.6	33.1
32.6	28.2	28.5	48.4	56.3	64.1	58.6	54.4	47.4	43.1	44	40.5	33.1
35.2	29.3	28.6	51	57.1	62.8	59.4	54.6	47.3	44.4	46	41.3	34.6
38.7	32.2	28.8	50.7	57.4	63.5	63.4	57.8	49.7	47.3	48.7	43.3	37.7
38.7	32.1	28.7	54.3	57.8	63.5	64.4	58.9	52.6	49.9	50.6	44.3	38.3
40	34	28.9	54.3	57.9	64.2	63.4	59.5	53.4	52.1	51.8	45.5	39.5
37.3	30.5	28.7	53.9	62.5	64	61.6	59.3	53.1	51.5	51	44.9	39.2
36.8	29.9	28.5	53	62.9	64.4	61.6	58.3	51.1	49.6	49	43.9	38.1
35.6	28.8	28.5	52.7	62.5	65.4	61.6	56.7	49.9	48	47.9	43.1	37.2
34.6	28.8	28.6	52.3	62.6	65.4	61.2	55.1	49.4	47.4	46.7	42.3	36.3
34.2	28.8	28.6	55.3	61.9	66.2	59.8	53.9	48.5	46.2	45.3	41	35.4
34.2	29	28.7	55.9	59.8	67	60.2	54.1	48.3	45.3	43.9	39.9	34.7
38.4	36.2	31.1	55.7	59.4	67.5	60.2	54.9	48.5	45	43.4	40.4	37.9
34.4	29.1	28.6	56	58.3	67.4	59.8	55.1	48.5	44.7	43.6	40	37.3
34.6	29	28.6	55.6	58.2	66.9	59.2	54.6	48.5	44.7	43.7	39.6	35.8
35.1	29.5	28.6	54.9	58.8	66.1	59	54.1	49.6	45.9	43.4	39.3	35.1
35.2	29.4	28.6	53.7	60.6	65.2	59.3	54.3	52.4	45.6	43.6	40	35.4
37.6	30.8	28.6	53.9	61.2	65	59.4	54.2	52.7	46	45.6	41.8	37
42.2	35.7	29.4	53	63.2	65.2	59.7	55.3	54	49.5	49.8	45.7	41.3
47	39.3	29.9	53.7	69.1	65.8	59.7	56.6	57	53.4	55.6	49.5	46
52.9	45.4	34.2	56.5	69.2	66.2	61.1	59.4	59.5	59.6	60.2	55.7	51.7
55.3	48.4	35.8	57.7	69.3	68.2	64.8	62.2	60.3	61.9	62.9	58.8	54.3
50.1	42.4	31.1	57.9	80.9	72.9	65.7	62.1	61	61.9	62.9	58.7	54.1
44	35.9	29	63.9	81.7	72.5	65.6	62.1	60.5	59.7	61.1	56.4	51.8
41.2	32.6	28.8	69.3	78.9	70.8	65.1	60.3	58.1	57.1	58.2	53.6	48.6
39.7	31.1	28.6	67.7	75.2	68.1	63.6	58.3	56	55	55.1	50.6	45.4
37.7	30.1	28.7	64.1	72.4	66.4	62.3	57.3	54.5	52.6	52.3	47.8	42.7
36	29.1	28.5	61	70	66.3	61	55.9	52.9	50.4	49.6	45.3	40.2
35	30.9	28.7	57.9	68.2	66.1	61.4	55.9	52	48.5	47.6	43.2	38.1
34.9	29.8	28.7	55.2	64.8	65.5	61.3	55.6	50.3	46.9	45.9	41.6	36.3
36	30.6	28.9	54	62	66.4	59.7	56.3	48.8	45.3	44.6	40.4	35.9
35.8	29.8	28.6	54.2	60.7	66.8	58.6	55.8	48.7	44.7	43.9	40.5	36
36.9	30.4	28.8	54.3	59.2	69.7	58.1	55.3	49.4	44.2	43.4	40.2	36.6
37.3	30.5	28.7	53.3	56.7	71.3	58.9	55.4	50.3	44.1	43.4	40.2	37.1
39.1	31.3	28.8	53.4	56.6	73.1	58.8	56.2	50.7	45.4	44.5	41.4	38.5
40.8	33.1	29.2	53	58.4	73.6	59.4	56.4	50.5	46.5	45.5	42.5	40.2
42.5	33.8	29.7	52.3	59.8	73	59.2	56.5	51.1	47.1	46.5	43.2	41.7
42.7	34.5	30	51.6	59.5	73.4	60.3	56.5	51.9	47.1	47	43.7	42.4
42.2	33.8	29.4	51.1	60.1	75.6	60.2	56.8	52.4	46.8	46.8	43.6	42.5
40.5	32.6	29.2	51.4	60.3	76.1	61.6	56.9	51.6	46.9	46.7	43.2	42.2
38	30.9	28.8	52	58.9	75.8	61.9	57.1	50.7	46.3	46	42.7	41.1
37.9	30.9	28.8	52.3	58.3	75.6	61.7	57.1	50.4	45.5	45.1	41.7	39.3
37.3	30.5	28.7	53.6	57	75.4	59.7	56.7	50	45	45.2	42	38.6
36.3	29.8	28.7	53.8	56.3	72.6	59.2	55.7	49	45.2	45.8	42.1	37.6
38	30.7	28.7	53.6	56.1	70	58.9	56.5	49.4	46.3	47	43.2	37.6
35.7	29.1	28.6	53.7	56.9	67.9	59.4	57	49.3	46.4	47.2	43.3	37.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
34.1	28.4	28.6	52.9	57	65.6	59.5	57.4	49.7	45.9	47.1	43	36.3
32.9	28.2	28.4	52.2	57.5	65.7	60.2	56.8	49.5	45.1	46.6	42	35.1
32.7	28	28.5	53.3	57.6	67.8	59.2	57.2	48.7	43.9	44.5	39.9	33.9
32	27.8	28.5	53.7	57.1	66.6	59.6	57.2	47.6	42.6	42.9	38.7	33.1
32.2	27.7	28.6	53.1	55.9	65.9	58.9	56.1	46.5	42.7	42.6	37.9	32.4
32	27.9	28.6	50.7	55.4	65.8	58.4	55	45.7	42.3	42.2	37.6	32.3
32.1	27.8	28.6	50.6	55	65.6	58.9	54.3	45.6	42.8	42.7	38.9	32.2
33.1	28.2	28.4	53	58.4	65.2	58.3	54.2	45.4	42.5	42.8	40.9	32.7
32.7	28.3	28.5	52.7	58.1	64	58.2	53.9	45.2	42.1	42.3	39.6	32.8
33.2	28.5	28.5	53.1	56.3	65.9	58.9	53.9	44.6	41.5	41.5	38.1	33.1
37.6	30.9	28.5	52.9	55.6	65	59.8	56.5	45.7	43.2	45.3	41.8	36.7
40.9	33.1	28.7	50.8	56.4	64.8	59.4	57.9	46.5	45.4	47.2	44.1	39.7
40.3	32.8	28.7	50.9	57.8	65.4	59.4	57.2	48.9	48.5	48.5	45.1	40.4
40.8	34.2	28.8	53.6	57.1	64.6	59.9	56.6	50.9	48.7	49.2	45.7	40.9
35.3	29.4	28.5	53.4	56.4	64.3	59.8	55.9	50.7	48	48.4	44.9	40.5
36.4	29.5	28.5	51.7	55.3	66.7	59.1	55.9	48.9	46.6	46.3	42.3	37.9
35	28.6	28.6	51.4	56.1	66.3	58.7	55.7	47.8	46.7	46	41.7	37.2
33.4	28	28.5	50.8	58.3	65.4	58.7	55.2	49.2	46	45	40.6	35.8
34.8	28.4	28.5	50.3	61.6	65.2	59.1	55.3	49	46.6	44.7	40.3	34.8
34.7	28.7	28.6	58.8	62.1	65.8	58	54.7	49.5	46.6	44.7	40.5	34.8
34.2	28.4	28.4	59.5	60.5	66.2	58.1	54	49.3	47.2	44.6	40.4	34.7

32.7	28.7	56.6	54.5	64.1	66.5	58.8	50.2	48.1	47	43.4	38.5	32
32	28.7	53.2	54.8	62.9	67.6	58.9	52	48.2	47.1	42.7	37.7	31.3
31.4	28.7	51.8	56	62.7	66.1	58.5	51.9	48.4	46.2	41.9	36.8	30.7
30.7	28.7	51.8	58.5	62.3	63.6	57.6	51.5	47.8	45.9	41.7	36.4	30.3
30.5	28.7	52.1	57.6	63.6	62.4	57.6	50.4	47.3	46.2	42.8	36.6	30.3
30.5	28.9	51.6	57.3	63.8	60.9	57.5	49.8	46.8	45.5	43.2	36.5	29.9
29.9	29.7	51.8	59.1	63.1	59.5	55.2	48.9	46.1	44.5	41.3	35.6	29.4
29.4	29.6	55.9	58.5	62.3	59.3	54.5	48.6	46	44.2	40.5	35.3	29.1
29.2	28.9	56	57	62.2	60.6	54.3	48.4	46	44.1	40.3	35.2	29
29.3	28.7	53	57	63.2	60.7	53.4	48.1	45.9	43.9	40.3	35.3	29.1
29.4	28.6	51.2	57	62.1	61	53.8	48	46.2	44	40.6	35.7	29.2
30.2	28.6	51.6	57.1	61.6	61.1	54.1	48.6	46.7	44.9	41.2	36.2	29.4
30.9	28.7	52.7	57.5	61.5	60	54.1	49.8	47.6	46.8	42.8	37.6	30.2
30.7	28.6	50.9	57	61.1	59.1	53.1	49.4	46.9	46.3	42.5	37.3	29.7
29.7	28.6	51.1	56.9	60.3	58.5	52.4	49.1	46.6	46	42.2	36.5	29.4
29.4	28.6	49.9	56.3	61.2	58.4	52.3	48.8	46.7	45.8	41.7	35.7	29.1
29.1	28.6	49.9	54.8	60.1	58.3	51.6	48.1	45.9	45.1	41.1	34.9	28.9
29.5	28.7	49.9	54.8	60.2	58	50.7	45.8	43.8	43.6	40.9	34.7	28.9
29.8	28.7	51	54.2	61.4	58.1	50.8	44.5	42.6	42.7	40.2	34.4	29.3
32.5	29	51.2	53.6	63.7	58.5	51.1	44	41.6	41.7	39.4	34	29.3
30.8	28.8	50.3	53.3	63.5	58.6	51	42.9	40.9	40.6	37.6	32.6	29.4
29.3	28.7	52	52.9	63	57.7	50.9	42.4	40.6	40.4	36.7	32	28.5
28.5	28.6	51.7	54.1	63.3	58.7	51	42.1	40.4	40.2	36	31.7	28.2
28.3	28.5	53.2	54.7	64.3	59.7	50.8	42.1	40.3	40.1	35.9	31.6	28.1
28.3	28.5	52.2	54.1	63.1	59.6	50.6	42.1	40.4	39.9	36.2	31.9	28.1
28.5	28.6	51.6	57.4	63	58.3	51.2	43.1	40.4	39.8	36.3	32	28.3
28.5	28.6	51.8	56.9	62.6	58.1	52.1	43.9	41.3	40.8	36.8	32.5	28.2
28.3	28.6	50.1	56.2	61.9	58.3	53.2	44.2	41.6	41.6	37.4	32.3	28.1
28.5	28.6	50.6	57.3	61.4	58.7	53	44.3	41.7	41.9	37.8	32.3	28.2
28.5	28.6	50.5	58.3	61.7	58.9	53.4	44.5	41.9	42.2	38.4	33.1	28.3
28.3	28.5	48.8	57.9	61.6	58.3	52.1	44.3	41.9	42.5	38.1	32.3	28
28.1	28.5	50	56.3	61.9	58.3	51.9	43.9	42	42.8	37.7	32	28
28.1	28.5	52.5	56.7	62.7	58.4	51.5	43.9	41.7	42.8	37.5	32	27.9
28.1	28.5	52.5	56	63	57.4	51.7	44.7	41.8	42.9	37.5	32	27.9
28.1	28.5	52.6	54.7	62.5	58.1	52.2	44.3	42.5	42.6	38.4	32.4	28
28.2	28.6	51.4	54.4	62.5	57.7	51	44.4	42.9	42.8	39.2	32.5	28
28.2	28.6	50.8	54.6	63.1	57.9	50.6	44.3	42.7	43.8	40.8	33.1	28.1
28.2	28.6	50.1	54.7	62.8	59	50.6	44.4	42.8	44.4	40.9	33	28
28.3	28.6	48.6	54.5	63.4	58.3	51.9	46.6	43.3	44.9	40.6	32.9	28.2
28.3	28.6	48.4	55.5	63.6	58.5	52.4	47.2	43.1	44	40.1	32.8	28.2
28.4	28.6	47.3	55	62.7	58	53.5	46.9	42.7	43.1	39.1	32.7	28.2
29.1	28.6	48.2	55	62	58.5	53.8	46.4	42.6	43	38.7	32.7	28.2
31.4	28.8	50.1	56.6	62.6	59.2	54.2	47.2	44.5	46	41.3	34.6	29.1
31.9	28.8	50.3	56.5	62.5	63.1	57.7	49.8	47.4	48.7	43.3	37.7	31.4
33.3	28.9	51.8	56.6	63.4	61.5	58.2	52.5	49.9	50.6	44.4	38.4	32
33.1	28.9	52.9	56.2	63.3	60.8	58	51.1	49.6	48.9	43.9	38.1	31.6
31.6	28.7	51.6	61.2	62.8	61.1	56.5	49.9	48	48	43.1	37.3	30.5
30.5	28.6	52.1	60.4	64.2	60.6	55.1	49.1	47.1	46.7	42	36.2	29.5
29.5	28.6	50.6	61.7	64.2	59.9	53.5	48.4	46.2	45.3	41	35.3	29.1
29.1	28.6	51.6	59.7	65.4	59.1	53.2	48.2	45.3	43.9	39.9	34.7	28.9
29	28.7	53.9	58.5	65.3	59	53.1	47.5	44.8	42.8	39	34.4	28.8
35.5	30.8	53.4	58	66.5	59.7	53.4	47.7	44.5	42.5	38.8	34.4	29
34.7	30.4	52.6	57.3	66.9	58.8	54.6	48	44.2	43	39.4	35.7	32.1
32.1	29.3	53.2	56.9	65.6	58.6	53.9	48	44	43.4	39.2	35	30.4
30.4	28.9	53.8	57.6	64.5	57.7	53.5	48.2	44.7	43.1	39	34.8	29.9
30	28.7	50.9	58.2	64.5	58.4	53.5	49.7	45	43.3	39.2	35	29.5
30.6	28.6	52.6	60.1	64.1	58.5	53.7	51.8	45	43.6	39.4	35.1	29.5
34.8	29.3	51	60	63.7	58.9	53.9	52.7	46	45.6	41.9	37.1	30.6
38.3	29.7	51.4	63.7	64.5	58.8	54.9	53.9	49.6	49.8	45.9	41.3	34.8
44.3	33.3	53.7	66.4	65	59.1	56.5	56.9	53.4	55.6	49.5	46	38.3
47.3	35.1	56	66	65.3	61	59.5	59.3	59.7	60.2	55.7	51.7	44.3
47.1	34.8	55.7	69.5	67.8	64.7	61.3	60.3	59.7	61.1	56.5	51.9	44.6
44.6	32.7	56	79	70.9	65.1	60.2	58.2	57.1	58.2	53.6	48.6	41.2
41.2	30.8	64	75.2	68.1	63.6	58	56	55	55.1	50.6	45.4	37.8
37.8	29.6	64.1	72.4	66.5	61.8	57.2	54.6	52.7	52.3	47.9	42.7	34.9
34.8	29	61	70	64.9	60.8	55.8	52.7	50.4	49.7	45.3	40.3	32.5
32.5	28.8	58	68.2	65	59.6	55.1	51.9	48.5	47.7	43.2	38.1	30.7
31.8	28.7	55.2	64.8	64.7	59.4	55.2	50.3	46.9	45.9	41.6	36.4	30.5
30.5	28.7	53.2	62.1	64.3	59.8	54.9	48.8	45.3	44.7	40.4	35.5	30
30.7	28.9	53.1	60.6	65.7	58.4	54.6	48.4	44.6	43.9	40	35.4	30.2
30.5	28.8	53.2	59.1	66	57.9	54.8	48.3	44.2	43.2	40	35.8	30.1
30.3	28.8	53	56.6	66.8	57.5	54.8	48.6	43.8	43.2	40	35.8	30.1
30.5	28.8	50.8	55.7	69.8	57.2	54.7	49.2	43.9	43	40	36.6	30.3
31.1	28.8	50.3	55.9	71	57.5	55.1	50.1	44.1	43.4	40.3	37	30.4
32.5	29.1	51	56.3	72.9	58.4	55.6	50	45.2	44.5	41.3	38.5	31.1
33.3	29.5	49.8	58.5	71.9	58.5	55.9	50.2	46.4	45.4	42.5	40.2	32.5
34.2	29.8	50	57.9	71.8	59.2	55.7	50.5	46.8	46.5	43.2	41.7	33.3
34.1	29.8	50	57.6	73.4	59.3	55.7	51.4	46.5	46.7	43.2	42.2	33.9
33.9	29.6	50.3	58.9	75.6	59.4	56.3	50.6	46.2	46	42.7	41.1	33
33	29.3	49.7	57.3	75.4	61.1	56.5	50.1	45.5	45.1	41.7	39.4	31.8
31.8	29	51	57	75.3	59.4	56.4	49.6	44.8	44.5	41.2	38.5	31.2
31.4	28.9	51.9	55.8	72.7	59	55.7	49	44.7	44.6	41.6	37.6	30.8
30.8	28.8	52.5	55.8	70	58.1	55.3	47.9	44.6	45.2	41.6	36.7	30.2
30.6	28.7	52.7	54.8	67.9	58.1	55.5	48.2	45.1	45.8	42.1	37	30.2
30.6	28.7	52	55	65.6	58.7	56.1	48.8	45.9	46.9	43	36.4	29.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
29.6	28.6	51.9	56.1	64.5	58.5	56.4	48.7	45.1	46.6	42	35.1	28.9
28.9	28.6	50	56.1	65	59.2	56.2	48.7	43.9	44.6	39.9	33.9	28.5
28.5	28.5	49.7	56.8	65.7	57.9	56	47.6	42.6	42.9	38.7	33.1	28.1
28.1	28.6	51.9	55.8	65.4	58.4	56.1	46.5	41.9	42.3	37.9	32.4	27.9
28	28.5	50.3	55.3	64.8	58	54.9	45.7	41.8	42.1	37.5	32.1	27.8
28	28.6	49.8	54.1	64.4	58	54.3	44.8	41.8	41.8	37.2	32.1	27.8
28	28.6	49.5	53.8	64.7	58.2	53.7	44.9	42.2	42	37.5	32	27.8
28.2	28.6	49.7	54.9	64	57.4	53.6	45	42.1	42.2	38.9	32.2	27.9
28.3	28.5	51.4	56.3	63.4	57.6	53	44.4	41.2	41.4	38.1	32.7	28.1
28.4	28.5	50.8	54.4	63.4	57.4	53.4	44	41	41.2	37.5	32.7	28.2
30.4	28.5	50.8	54.6	64.3	58.1	53.4	44.1	41	41.3	37.7	33.2	28.4
32.3	28.6	49.2	54.7	63.4	58.9	56.4	45.7	43.2	45.4	41.9	36.8	30.4
32.9	28.7	49.4	56.2	64.5	58.1	56.2	46.4	45.4	47.1	43.7	39.1	31.8
33.8	28.8	50.1	55.8	63.5	59.2	55.6	48.8	48	48.4	44.9	40.4	32.9
33.6	28.7	51.7	55	63.2	59.2	55.1	48.9	46.2	46.3	42.3	37.9	31.4
31.4	28.6	50.7	54.5	63	57.7	55.4	47.6	45.9	45.8	41.4	37	30.4
30.4	28.6	50.8	54.9	65.1	57.8	54.1	47.2	46	45	40.6	35.8	29.3
29.3	28.6	49.2	55.9	64.2	58.2	54.1	47.3	45.2	44.1	39.7	34.5	28.6
28.5	28.6	49.1	57.3	64.5	58	54.7	48.5	45.6	44.4	39.7	34.4	28.4
28.7	28.6	50.4	60.6	64.3	57.4	53.9	48.8	46.3	44.5	40.3	34.7	28.5
28.7	28.5	57	58.1	64.7	57.3	53.2	48.7	46.3	44.4	40.1	34.4	28.5

28.7	52.2	51.5	47.5	52.3	46.4	47.9	63.9	58	52.5	60.2	63.5	63.6	56.6	58.6
28.7	56.9	51.5	49.3	47.8	50.1	51.8	62.4	57.1	57.8	57.4	63.1	69.1	56.9	53.6
28.6	58.5	51.2	46.8	45.5	48.9	60.3	56.8	57	61.6	55.3	57.6	59.8	55.2	53.2
28.6	47.7	41.6	45.1	49.6	49.7	59.6	55.9	53.3	57.5	55.9	56.6	57.5	54.9	51.3
28.6	44.4	44.8	45.7	42.2	47.9	51.3	63.2	54.4	55.1	59.4	55.7	56.3	56.6	52.6
28.6	39.8	50.7	48.1	53.8	50.3	56.5	62.1	58.6	58.4	57.2	54.8	50.7	55.1	53.7
28.9	44	50.8	51.3	50	48.4	60.4	59.7	55.7	55.3	56.9	52.9	49.3	50.6	48.7
28.9	46	48.7	53.3	47.1	51.6	55.8	60	56.9	60.4	56.5	54.9	49.6	51.1	48.6
28.7	43	52.6	49.4	48.6	50.7	56.2	58.9	55.5	58	61.3	53.7	49	53	46.4
28.6	53.6	53	47.4	50	45.3	54.5	62.4	57.3	57.8	60	50.9	52.9	50	48.2
28.6	52	53.1	44.3	44.1	49.5	54.9	59.9	52.9	54.7	60.8	54.2	53	51.9	50
28.6	49	49.4	45.8	48.5	47.9	55.3	59.5	56.5	53.4	60.8	53.1	54.6	52.5	47.6
28.6	45	44.7	50.7	48.7	50.2	56	61.5	56.4	52.7	58.8	49.2	52.6	52.9	46.1
28.6	45.4	49	44.3	49.9	50.5	54.3	61.1	53.3	54.8	56.4	53.2	54.2	47.2	47.8
28.5	46.8	48.8	45.9	46.4	49.7	55.5	58.6	53	53.7	56.3	51.8	51.3	49	48
28.5	48.2	46.5	46.4	48.7	50.4	54.3	61.5	54.3	55.2	56.7	53.8	52.2	49.5	47
28.5	44.3	49.6	35.7	44.5	50.3	47	60.1	50.8	52.6	55.9	52.3	49.8	47.2	47.6
28.6	42.6	47.1	33.6	50	48.3	48.8	60.6	52	54.7	55.9	51.8	49.7	47.4	45.1
28.7	43.3	47.3	41.5	45	52.7	48.7	61	57.1	56.7	58.2	48.8	48.8	47.1	46.6
28.7	48.2	48.2	48	49.4	48.2	50.6	65.4	54.5	55.6	59.2	48.7	51.2	48.5	48.5
28.6	49.6	51.2	42.6	45.9	50.7	50	62.9	54.4	49.5	55.9	52.3	50.6	46.7	45.8
28.6	42.7	45.3	49.3	43.9	47.4	48.7	64.1	52.3	52.7	56.3	50.4	49.1	49	46.6
28.5	47.5	44.5	45.7	48.8	52.9	48	64.9	47.8	56	61.5	52.1	50.4	47.5	46.9
28.5	47.8	51.4	50.2	49.9	50	51.5	64	51.6	52.1	58.6	55.8	50.1	46.5	47.9
28.5	45.7	44.1	43.2	47	51.4	44.8	64.2	50.3	47.3	59	51.7	48	47.1	46.4
28.5	48.7	48.2	49.6	52.7	55	49.7	64.7	53.8	54.1	56.8	49	50.9	48.7	46.9
28.5	50	50.8	48	52.7	56.2	48.5	63.7	51.1	47.7	57.7	49.7	51.8	51.3	49.1
28.5	44	43.9	44.8	50	54.2	51.3	62.9	52.9	52.3	58.4	52.7	50.5	52	48.6
28.5	45.1	48.9	48.3	45.6	53.9	53.2	61.6	53.9	50.6	57.6	52.2	50.4	49.1	49.3
28.5	45	47.5	46.5	48.1	56	53.9	62	54.1	50.3	59	51.8	51.5	52.5	47.1
28.5	41.8	45.5	45.7	53.4	54.5	54.8	62.5	54.9	49.4	54.7	53.3	51.2	49.1	46.3
28.4	49.3	43.5	45.8	49.6	54.1	52	63	51.9	54.3	57.3	54.1	47.8	48.2	48.7
28.5	46	42.7	46.8	45.2	47.3	51.7	63.7	52.8	52.2	56.2	53.8	51.2	46.6	45.5
28.5	44.4	49.6	47.8	50.4	53.9	49.9	63.9	51.7	51.4	56.2	50.6	51.5	51.1	48.1
28.5	44.5	54.6	48.4	52.6	48.2	50.5	63.2	53.1	50.1	56.3	53.7	52.5	47.7	46.7
28.5	48.9	48.7	47.8	44.9	48.7	48.6	63.1	53.5	46.8	54	54.1	52.6	43.9	45.6
28.5	48	50.2	43.5	48.6	49.7	52.3	64.6	52.5	50.2	57.4	53	53.4	47.5	46.9
28.5	44.2	44.1	48.5	47.3	49.6	51.3	63.5	52.2	53.3	57.7	53.4	49.8	49.6	45.7
28.5	47.2	46.1	45.9	45.3	44.9	51.8	63.6	54.3	55.1	55.6	52.7	50	50.1	48
28.5	41.2	46.4	46.4	48.4	49.6	55	62.9	57.5	53	57.9	53	50.7	49.6	50.9
28.5	44.2	42.7	41.6	40.6	50.5	51.5	62.9	53.3	53.4	56.1	52.4	51	48.4	51
28.5	29.3	45.4	48.2	46.9	46	51.5	61.3	50	52.9	58.9	49.6	51.5	51.9	49.3
28.6	42.9	41.5	48	47.5	50.1	55.4	62.8	55.8	57.3	57.1	59.1	54	49.7	52.5
28.7	36.5	46.5	48.6	50.8	45.4	52.5	62.1	54.6	54.4	58.4	55.1	63.9	53.4	47.9
28.7	34.8	46.5	52.8	49.8	52.9	52.5	63.8	57.2	52.1	57.4	52.6	56.2	57.3	49
28.7	45.4	43.9	48.1	48.3	52.9	56.3	63.6	52.8	53.4	57.3	53.2	57.7	56	49.8
28.6	50.6	42.3	48.4	51.7	54.4	58.2	64	56.1	55.5	56.6	53.8	57.6	51.6	48.9
28.6	45.2	51.6	47.5	56	60.1	56.1	64.4	55.2	55.9	59	53.5	50	51.5	49.5
28.6	43.7	46.4	46.6	54.2	58.4	58.5	64.1	56.3	59.6	57.8	53.1	49.3	48.7	47.3
28.6	43.1	48.9	44.8	53.5	59	56.2	64.2	60.8	60.6	57.2	52.3	50.1	47.9	50.6
28.6	46	45.8	48.3	51.7	51.2	52.2	63	64.5	54	58.7	52.8	49.8	48.7	48.8
28.6	48.1	50.7	49	51.2	53.7	52.2	63.7	64.3	54.2	58.4	53.3	50.9	49.5	51.7
29.3	51.5	44.3	45.7	52.8	53.2	51.2	64.4	64.1	58.1	57.9	52.3	46.3	49.6	52.2
28.9	53.7	51.5	47	48	53.4	53.4	64.7	56.3	55	58.2	52.9	48.2	48.4	50.8
28.7	45.6	49.2	48.6	51.5	52	55.4	63.5	55.2	53.7	55.5	51	48.8	47.9	49.9
28.6	54.8	46	45.9	51.7	51	52.1	62.3	56.7	56.2	57.1	54.3	52	47.8	51.3
28.6	48.6	49.7	49.3	54.2	59.5	53	62.8	58.6	55.7	57.1	52.2	50.4	50.4	49.5
28.6	48.5	46.2	51	56.1	56.7	57.4	62.2	59.3	53.9	58.4	54.4	52.2	51.5	51.9
29.3	41	49.5	46.3	53.2	58.4	62	64.9	51.8	57.4	55.4	54	52.3	51.9	50.8
29.7	43.3	41.6	52.1	57.1	69.1	58.9	64.2	56.6	58.9	58.3	57.2	53	54.7	55.5
33.3	44.1	47.3	52.1	60	65.2	58.6	66	61	62.7	60.9	57.9	58.7	59.2	57.3
32.7	46.8	54.1	54	59.1	63	67.1	69.1	68	65	64.1	59.6	59	58.8	58
30.8	51.3	54.4	53.4	74.5	76.4	72.3	71	66.3	59.1	59.2	61.1	60.5	55.5	56.9
29.6	49.9	49.2	68.5	76.8	79.4	65	65.4	60.8	56.4	57.7	60.2	58.3	51.8	51
29	49.4	52.7	59.7	66.5	63.4	55.7	64.3	57.5	55.6	54.5	51.4	54.9	52.7	52.3
28.8	57.6	63.9	54.9	60.1	67	60.2	63.1	58.6	53.8	59.3	54.3	53.3	52.3	50.3
28.6	60.6	58.5	49.4	63.4	66.5	61.8	62.3	64.1	53.6	57.1	54.7	52.9	50.8	51.9
28.6	44.7	51.8	49.9	59	63.4	55.7	63.7	58.7	54.2	57.4	56.8	54.9	51.6	50.5
28.6	52	50.9	48	56	61.4	54.7	62.9	55.6	53.7	58.1	53.7	52.4	51.7	50.8
28.7	44.7	48.6	47.8	52.7	54.9	49.9	64.6	56	61	55	50	50.9	53.9	51.4
28.7	45.9	47.7	50.5	52.6	57.1	54.1	65.2	61.2	58	57.4	51.8	51.6	49.9	49.8
28.7	45.6	47.5	50.6	48	54.6	51.4	67	63.4	55.7	54.9	50.2	51.4	50.4	52
28.7	42.8	51.4	47.9	49.3	46.1	47.2	70.7	65.6	50.4	57.9	51.6	49.4	51.7	51.4
28.7	45	50.9	47.8	46.6	51	49.9	72.7	55.9	53.3	56	50.3	51.1	53.1	52.6
28.8	39.8	46.2	47.6	50.7	49.5	53.7	73.9	60.2	52	58.5	51	51.4	51.6	52.2
29.1	44.8	47.1	50.7	53.3	54.1	54.6	69.1	69.2	57.6	54.9	55.3	52.2	51.7	52.1
29.5	46.2	47.3	48.4	55.5	56.1	52.6	64.5	72	54.8	57.1	56.6	54.3	50.3	53.2
29.6	42.1	44	46.1	51.5	54.4	53	69.2	72.6	57.5	57.9	51.9	55.8	51.6	54.3
29.3	39.7	46.4	50.8	47	56	58.4	76.4	69.8	59.9	61.2	51.2	54.3	51.4	52.4
29	36.4	44.3	47.5	53	49.9	53.2	71.3	73.8	59.3	59.2	55.4	51.9	53.8	53.5
28.9	39	44.9	46.3	48.8	47.8	56.3	64.4	74.9	58.4	58.4	51.5	53.4	52.5	52.3
28.8	37.7	48.2	45	49.2	46.2	50.9	59.8	72.1	59.8	56.4	50.2	49.4	51.7	51.5
28.7	48.9	46.4	51.9	48.7	49	51	64.8	62.8	59.6	56.1	50.7	53.8	50.3	51.2
28.7	43.9	51.7	47	49.8	51.5	49.6	63.9	59.2	60.6	54.9	53.5	51.5	53.2	53.1
28.6	43.9	47.8	52.5	48.4	49.4	49.8	64.1	54.7	52.4	58.3	49.5	49.1	53.6	51.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.6	46.8	49.1	48.6	52.6	52.9	51.2	63.2	54.1	59.2	57.9	48.6	51.1	54.4	52.8
28.5	45.1	44.1	48.2	50.3	50.5	50	63.2	55.8	60.8	59.5	50.8	50.6	53.5	52.3
28.5	45.1	49.8	45	52.9	52.3	50.5	65.8	58.2	62.6	54.9	49.4	50.7	53.5	52.8
28.5	36	44.4	51.2	51.4	52.1	52.3	63.6	58.6	51.2	59.4	50.2	52	52.1	51.5
28.5	35.4	47.3	48.8	50.3	43.2	51.1	63.7	59.1	55.4	56.2	51.3	50.1	49.3	50.8
28.5	46.2	50.4	44.4	46.9	48.8	51.5	64.1	58.5	55.2	56.9	50.3	49.7	49	49.4
28.6	47.1	44.9	46.6	46.3	44.4	46.4	63.4	55.8	57	57.3	53	48.2	48.6	50.3
28.5	43.3	42.1	48.5	45.9	50.2	50.3	63.8	55.4	54.2	56.7	49	47.4	47.1	51.4
28.5	45.1	42.4	42	52.4	53.2	49.9	63.4	56.6	52.6	56.4	48.4	52.1	47.9	49.3
28.5	44	50.6	43.5	55.4	49.2	49.4	65.7	55.3	51	58.1	49.3	46.4	51.4	48.7
28.5	48.2	48.7	51.2	42.7	44.5	51.6	65.1	51.5	52.6	56.4	54	55.6	52.6	52
28.5	46.6	47	40.1	42.3	49.9	49.7	62.9	51.4	52.7	58	51	50.9	57.8	48.4
28.6	44.4	45.6	46.8	46.7	50.4	53	65.8	48.4	51.2	56.4	52.4	50.8	50.6	53.4
28.7	42.6	44.7	48.3	53.9	51	51.1	63.9	53.2	47.8	56.4	56	56.2	49.6	51.4
28.6	42.5	45	47.8	49.3	51.1	49.3	63.3	54.2	51.4	54.4	52	56.5	51.4	51.7
28.5	48.2	47.3	47.7	49.9	49.3	49.8	65.4	53.1	51.2	53.2	52.1	48.2	54	50.7
28.5	49.7	44.8	43	48.1	49.2	51.7	66.8	53.7	50.2	58	52.3	49.7	50.3	49.1
28.5	47.8	45.7	44.5	48	49.8	53.9	63.8	52.1	49.4	56.3	50.2	51.2	52.9	48.7
28.5	43	44.7	46.7	48.9	53.1	57.9	62.7	53.3	62.2	55	49	55.4	53	46.4
28.5	49.5	45.3	51.2	52.3	51.1	61.5	61.1	53.2	58.1	54.4	52.6	51.1	49.6	47.7
28.4	43.8	38.8	50.4	55.9	54.5	50.1	64.9	53.6	49.4	55.9	50.3	47.8	49	47.5

48.8	50.5	49.4	48	46.1	42.9	44	45.2	43.6	42	41.2	38	36.7	35.2	33.6	31.9
48.3	49.2	47.2	44.7	43.5	43.6	44.4	42.7	42	40.9	39	37.3	35.5	33.7	32.1	30.3
48.1	50.9	46.4	42.9	46.8	42.5	41.3	41.6	41.7	39.7	37.9	36.7	34.9	33.2	31.2	29.4
48.2	49.7	46.5	42.1	46.2	40	40.2	40.5	41.6	41	40.2	37.3	35.4	33.7	30.9	29.4
45.8	47.8	42.9	41.1	45.5	40.6	40.5	40.8	42.9	42.7	44.4	39.3	37.2	35.5	32.4	31
45.2	47.9	43.7	40.4	45.3	39.8	39.3	38.6	40.3	39.7	39.5	36.5	34.3	32.6	30.8	28.8
44.3	47.5	42.1	38.4	44.9	37.8	38.3	37.5	40.4	38.7	36.2	34.4	33.5	32	29.9	27.6
45.1	47.6	43.2	38.1	45.4	37.9	38.2	38.2	40.1	39.1	36.3	35	33	32.5	29.8	27.7
43.7	47.9	39.2	37.9	45	37.8	39.6	38.4	40.7	39.2	36.9	34.8	34	32.6	29.7	28
43.9	47.4	42.1	38.8	45.4	39.1	38.1	37.1	40.5	38.2	37.1	35.9	34.2	33.2	30.4	28.5
45.5	48.2	40.6	38.9	45.5	40	39.8	38.6	41.7	40.5	37.9	36.4	35.4	33.8	30.5	28.7
47.1	48.5	43.8	41.7	45.3	41.2	42.6	42.2	42.7	41.6	40.2	37.9	37.1	35.7	32.3	29.8
48	49.3	43.2	41	45	42.3	41.3	42.7	43.1	42.6	41.1	38.3	38.2	37.2	33.3	30.6
45.8	47.8	42.2	41	44.8	39.7	39.7	39.6	42.2	40.8	38.6	36.5	35.2	34.3	30.5	28.4
46.4	48.5	41.7	39.1	44.8	39.4	39.7	39.7	41.7	40.8	39.2	36.8	34.5	33.5	30	28.3
45.7	48.5	40.2	39.1	45.5	39.4	39.6	39.4	42.5	40.8	38.6	36.1	33.7	32.7	29.5	28
45.4	46.6	39.9	39.1	44	38.9	39.8	38.6	41	39.8	38.3	35.6	33	31.8	28.7	27.4
43.8	40.5	38.7	37.2	36.4	37	37.1	36	38.3	38.1	40.3	40.1	34.4	35.4	33.4	29.4
43.8	39.6	39.4	37.2	35.9	35.6	38.3	36.3	37.6	38.1	35.7	33.4	30.6	29.1	27.2	26.7
42.4	40.3	40	37	35.8	34.6	36.9	35.1	36.4	37.6	36	33.9	33.9	31.4	29.1	28.8
43.4	37.8	37	37.3	36.8	35.4	35.5	34.3	35.3	35	33.4	30.3	29.7	27.8	25.8	25.5
43.1	38.4	36.7	37.4	36.2	34.3	36.8	34.3	36.1	36.1	33.6	30.4	29.1	28	25.9	25.7
43.9	39.3	34.7	34.9	35.3	34.5	36.8	35.1	35.9	35.4	32.8	30.2	29.2	27.9	26.1	26
43.3	39.2	36.3	36.1	35.6	34.4	36.2	33.8	36.4	35.1	33.7	30.5	30.4	28.5	26.7	26.1
45.5	41	36.9	35	35.5	34.8	36.7	34.4	35.1	35.2	33.7	30.5	30.5	28.7	26.5	25.7
45.5	42.1	38.2	36.3	37.1	37.4	37.6	35.8	36.5	36.8	33.4	32	30.8	29.8	27.5	26.6
43.8	42.4	39.2	37.2	36.9	36.5	38.8	36	36.8	38.4	35.1	31.9	30.9	29.2	26.9	26.4
43.1	40.2	41.8	37.4	37.3	36.6	38.2	36.3	37.3	38	35.2	32.4	30.9	29	26.5	26.4
42.7	41.4	40.1	37.6	37.5	36.3	37.7	37.5	38.2	37.8	36.6	33	31.6	32	29	28
43.4	43.6	38.7	36.5	37.8	36.3	38.4	38.3	37.9	37.4	36	32.9	30.8	28.7	26.5	26.4
44.2	40.4	39.6	36.3	36.8	37.4	39.1	38.9	38.1	37.6	35.6	32.2	30.3	28	26.3	25.7
45.8	38.7	39.9	37.9	37.2	36.3	38.3	38.1	38.1	37.7	35	31.7	29.8	28.4	26.1	25.9
45.2	41.7	41.1	36.5	37.2	36.5	37.4	38.8	37.8	37.8	34.9	32	30.2	28.7	26.5	26.4
43.4	39.6	43	38.2	38.1	38.5	38.3	38.6	38.8	38.3	36.2	33.4	31	29.3	27.1	26.5
45.8	40.6	38.1	36.7	37.7	37.3	39.5	38.1	37.6	37.8	37	33.9	31.4	29.3	26.9	26.2
45.1	40.7	40.1	37	37.9	38.8	38.4	39.3	39.5	39.6	38.9	35.7	32.9	31.2	27.5	26.7
44.8	41.2	38.8	37.9	38.1	37.8	38	39.6	40.1	39.4	38.4	35.8	32.5	29.9	27.3	26.6
45.6	43.9	42.9	38.7	39.3	38.8	38.8	40.3	40.9	39.9	39.3	35.7	32.2	29.8	27.4	26.5
46.2	45.1	42.2	39.3	38.7	38.3	39	40.6	40.8	39.9	38.2	34.9	31.3	29.6	27.4	26.6
46.4	45.6	41.3	38.2	38.3	37.4	37.8	39	39.1	38.4	38.1	34.6	31.6	29.7	27.6	27.4
47	45.2	38.9	37.1	39.5	36.7	37.5	38.4	37.9	37.3	35.2	32.8	30.6	29.1	27	26.8
46.9	44.3	42.4	38.6	40.9	37.6	39.9	41.8	41.1	42.3	39.8	35.3	33.5	32.5	29.5	28.2
56	47.5	44.9	43.1	44.7	41.9	42.9	45.2	44.3	44.3	41.2	38.6	36.6	36	33.2	31.6
55.5	47.8	48.9	47.5	45.8	45.3	44.3	48.2	46	44	41.8	39.7	37.3	35.9	33.3	31.1
50.3	48	46.9	49.8	49.6	46.7	46.4	49.2	46.6	45.7	42.6	40.9	38	37	34.6	33
50.7	44.9	45.9	43.1	43.3	42.8	43.2	43.6	42	40.4	40.3	38	35.4	34.1	32.7	30.4
49.3	45.3	44.5	42.2	42.3	42.1	42.6	43.2	42.1	41.5	39.4	37.9	35.3	33.9	31.6	29.7
48.7	43.5	43.9	44.1	43.4	40.2	42.5	41.3	41.4	40.3	38.6	36.7	34.7	32.8	30.2	28.5
48	43.6	44.8	41.8	42.7	39.1	40.4	39.5	39.5	39.4	37.1	35.2	33.4	31.4	29.1	28.1
48.6	42	45.1	41.8	41.5	37.9	38.9	38.5	37.1	38.8	36.1	34.1	32.1	30.9	28.9	27.8
47.2	41.7	44.2	39.1	41.9	38.2	38	37.9	37.8	36.6	35.4	33.2	31.9	30.8	29	28.1
48.6	44.6	46.1	39.5	41.7	38.5	38.4	38.5	38.6	38.2	37.2	35.1	34.6	34.4	33	34.2
46.8	46.2	44	39.4	40.7	38	39.2	40.4	38	37.1	36.1	34.1	32.5	30.8	29.5	28.2
45	46.5	43	39.5	40.3	38.8	40.2	39.6	38.6	37.3	35.2	34.3	32.3	31.3	29.8	27.8
46.6	47.7	43.3	40.3	43.6	39.5	40.3	38.7	38.1	38.6	35.7	34.1	33.5	31.4	30.2	29
48.5	52.7	45.1	40.8	40.2	38.6	40.5	40	38.6	38.4	36	35.5	32.5	31.5	30.1	29
47.3	51.8	44	42.2	41.2	40.5	42.4	43	40	40	39.7	36.4	36.1	34	32.8	30.8
48.1	53.5	46.3	44.3	46.1	44.3	43.8	48.2	44.3	42.8	42.6	43.2	38.4	38.3	37.7	35.9
52.6	56.6	50	47.5	50.1	48.5	49.7	50.6	54.3	49	46.6	47.2	43	43.1	42.6	40.4
53.6	57.3	54.2	53.3	53.5	55.5	57.1	57.5	55.6	55	53.5	51.8	50.5	49.1	48.3	46.7
57.9	54.3	56.5	55.4	57.5	58.1	59.1	61.8	57.5	56	55.6	56.3	51.6	51.1	51.3	48.9
55.4	53.6	58.4	55.6	53.2	53.1	54.3	57.5	54.9	52.7	52.1	49.5	47.5	45.9	45.8	44
50.7	49.8	53.7	50	51.6	48.3	50	51.7	49.2	49.1	47.3	45.5	42.8	40.5	39.2	37.2
49.8	50	49.8	47.7	49.1	47.3	47.4	47.7	46.5	46	43.6	42.4	40	37.9	36.6	33.9
49.6	49.3	50	46.8	46.8	45.3	45	45.5	43.4	42.7	41.1	40.1	37.7	36.8	34.5	32.2
49	46.2	47.9	44.1	43.3	43.1	42.9	43.2	41.5	41.6	38.9	37.5	35.8	34.7	32.7	30.7
48.9	47.1	48	43.5	41.7	42.3	41.7	41.1	41.1	40.8	38.1	35.8	34.8	33	30.9	28.9
47.1	45.9	44.5	42.7	40.3	41.2	40.7	40	39.9	39.2	37.6	35	34.1	32.1	29.5	28.1
47	44.8	43.8	40.1	38.6	40	39	39.1	39	37.7	36.4	34	33.5	31.8	29.3	28.5
47.9	45.1	43.1	40.4	38.5	39.6	39	37.5	38.1	40.1	36.9	34.4	33.3	32.6	30.8	29.6
48.1	45.3	43.1	40.7	38.9	39.6	39.2	37	38.1	37.9	36.9	35.1	33.6	32.8	30.5	29.3
49.2	46.6	45.3	40.5	39.6	39.9	37.9	37.5	39.2	38.5	36.4	35.1	34.2	33.5	31.8	30.6
48.1	48.7	45.5	39.3	38.2	39.8	39.2	37.8	38.8	38.4	36.4	35.3	34.9	34.3	31.8	30.5
47.6	47.9	44.6	41.8	40.4	41.6	41.2	40.3	40.3	40	37.1	37.7	36	36.1	34	32.2
48.6	47.3	44	44.7	41.4	43.3	40.3	40.8	40.7	41.5	38.7	38.3	37.2	38	35.4	32.6
50.2	46.9	45	46.3	43.1	42.9	42	43.3	41.8	41.4	39.6	38.4	38.4	40.1	36.9	33.6
49.9	48.4	46.3	47.7	41.7	41.5	42	43.3	42.3	41.5	39.5	38.9	38.9	40.2	37.3	34.8
49.8	49.3	45.1	45.5	41.5	42.7	42.1	41.7	42.4	41.3	38.9	37.2	38.2	39.9	36.1	34.1
50.3	46.5	45.7	44.1	42.4	41	40.1	40.2	41.5	41	38.3	38	36.2	38.3	34.5	32.1
50.5	46.8	44	43.5	41.6	39.2	40	38.4	40.7	39	37	35.8	35.4	35.8	32	30.3
48.6	47.2	43.8	41.5	40.2	38	40.9	39.5	40.3	39.2	37.6	36.1	36	35.6	31.7	30.1
50	45.9	43.3	40.7	40.9	39.9	40	39.7	41.6	40.2	38.1	37	36.3	34.9	31.3	29.9
46.8	44.5	42.1	39.9	40.8	41.8	39.1	39.9	42	41.2	38.8	36.7	34.7	33.8	30.3	29.1
47.3	44.4	46.7	41.5	42.7	43	40.2	41.1	44.1	43	41.3	38.2	36.8	35.8	32	30.1
48.8	44.7	44.6	42	40.8	42.2	40.3	41.6	43.6	42.7	40.9	37.6	34.1	33.3	29.8	28.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
49.7	45.5	46.3	42.7	38.9	40.8	39	41.4	42.3	41.4	39.8	34.9	32.5	31.5	28.1	27
48.4	44.1	44.9	41.1	38.1	39.5	37.6	38.2	39.4	37.7	35.5	32.5	30.7	29.8	27.5	26.5
49.9	44	42.1	38.7	37	37.9	35.9	35.8	38.2	36.7	35	32	30.6	29.5	26.9	26.4
49.6	41.8	40.6	37.5	36	37.1	36.8	36.4	37.3	37	34.6	31.8	30.3	28.6	26.1	26.2
47.3	42	40.4	36.6	37.5	37.2	38.9	36	37.4	37.6	34.8	31.8	30.1	28.6	26.7	26.7
48.3	40.5	40.8	37.6	37.7	36	37.6	36.9	37.1	37.1	34.4	31.8	30.4	28.4	26.5	26.2
47	42.6	40.7	37.5	36.5	37.6	39.5	38.7	39.1	37.3	35	34.3	33	28.6	26.5	26.3
48.3	42.2	40.8	36.6	37.2	37	37.7	38.3	37.4	37	34.6	35.6	37.2	29.4	27.6	27.6
48.9	41.4	39.3	36.8	36.7	35.8	36.1	36	36	36	33.4	31.5	31.1	29.5	27.1	26.8
45.2	40.9	39	35.9	36.5	35.1	37.3	37	35.6	36.2	34.1	31.5	31.3	29.6	27.4	27.6
46	42.6	41.3	39.4	38.4	38.2	40.6	43	41.1	40.4	39.1	38.3	36.1	34.3	32.1	30.9
48.4	41.8	42.3	40.7	40.5	41	43.1	45.9	42.3	42	40.9	40.6	39.3	37.7	35.8	33.7
49.2	45.6	45.4	42.3	39.9	42.8	47.5	45.8	43.1	41.9	41.3	40.9	38.4	36.7	35.2	34.3
47.5	49.3	45.3	42	41.2	41.9	45.5	45.5	44.1	42	40.5	41	40	37.5	35.5	35
47.4	45.2	43	39.3	38.9	39.4	41.3	40.5	39.7	39	36.5	34.5	33.9	31.6	30	29.6
46.8	43.1	42.7	37.5	40	42.3	42.5	41.4	41.5	39.5	37.2	35.9	34.5	33	31.9	29.3
45.2	43	43.5	40.1	39.4	41.5	41.7	39.5	40.6	39	36.9	35.1	34.1	31.7	30	28
47.9	46.7	42.5	42.3	39.3	40.3	40.6	38.6	39.4	37.9	35.8	33.8	32.4	30.4	27.7	26.2
47.2	46.7	40.2	42	44.7	41.3	41.7	39.5	40.2	39.6	37.2	35.4	34.3	32.1	29.1	27.4
47.2	49	40.3	39.4	43.5	40.3	41.2	39.7	40.2	39.6	37	35.4	34.2	32	29	27.5
46.9	48.2	39.5	38.6	44.7	41	43	39.2	40.4	39	37	34.8	33.5	31.5	28.6	27.2

29.2	26.1	24.3	23.4	23.7	24.6	53.6	50.6	51.6	51.5	49.8	49.5	63.4
28.3	25.1	23.6	23.3	23.8	24.6	55.8	51.5	50	51.6	49.9	51.8	63.4
27.3	24.7	23.8	23.2	23.8	24.7	57.8	52	49.3	49.4	50.3	59	63
27.2	24.7	23.5	23.3	23.8	24.6	57.7	51	48.1	49.6	50	60.2	59.8
27.8	25	23.5	23.1	23.9	24.6	54	47.4	46.8	49.6	49.3	58.9	61.9
26.4	24.3	23.4	23.1	24.8	24.7	50.5	49.6	47.8	52.7	50.1	56.8	63.3
25.6	23.7	23.1	23.1	27	24.7	46.8	50.5	50.9	52.3	50.2	59.6	61.5
25.4	23.6	23.1	23.1	23.7	24.5	46.6	50.3	53	50.8	51.4	58.9	61.3
25.5	23.8	23.2	23.2	23.7	24.7	45.4	52.2	51.8	49.3	50.9	57.1	60.2
25.9	23.9	23.3	23.1	23.7	24.6	51.8	53.5	50.5	50.8	50.4	56.5	61.6
26.1	24.1	23.2	23.2	23.7	24.5	52.5	53.3	48.6	49.1	49.2	55.4	61.7
27.3	25.2	23.5	23.3	23.8	24.7	52.7	53.5	46.7	48.3	49.1	55.6	60.9
27.9	26	24	23.6	23.7	24.4	50.3	50.7	50.2	48.8	50.4	56	61.1
25.5	23.7	23.1	23.2	23.6	24.6	47.9	48.9	49	50	51	55.6	61.7
25.9	23.7	23.1	23.1	23.7	24.5	47	49.1	46.9	49.3	50.4	55.6	60.9
25.5	23.7	23.1	23.3	23.8	24.5	48.1	48.7	47.5	49.3	50.7	55.3	61.1
25.3	23.2	23.1	23.1	23.6	24.6	48	49.4	46	48.4	51.7	54.6	60.9
26.5	24.1	23.5	23.2	23.8	24.6	45.8	49.2	42.4	49.1	50	51.5	60.9
25.9	24.5	23.8	23.6	24	24.6	44.4	48	41	49	51.7	50.6	60.9
30.3	26	25.5	24	24	24.5	47.1	48.4	47	48.9	51.7	50.5	64.1
24.2	23.1	22.9	23	23.7	24.7	49.4	50.8	46.5	48.9	51.8	50.9	64.3
24	22.8	22.8	23	23.7	24.6	48.2	50.6	48.4	47.2	50	50.1	64
23.9	22.7	22.9	23	23.5	24.4	47.3	48.2	48.4	47.8	52.1	49.6	65
24.4	22.9	22.9	22.9	23.7	24.6	47.6	50.5	49.7	49.2	52.3	50.8	64.8
24.4	22.9	23	23.1	23.6	24.6	47.8	50.4	49.2	49	52	50.6	65.2
24.8	23.4	23.1	23.2	23.7	24.6	48.6	48.3	48.7	52	54.6	49.6	64.7
24.1	23.1	22.9	23.1	23.7	24.6	50.5	50.2	49	53.4	56.2	50.2	64.9
24.1	22.9	22.8	23	23.6	24.6	48.7	49.6	48.3	52.1	55.9	50.8	63.9
25.1	22.9	23.1	23	23.7	24.5	46.3	48.2	48.4	50.6	54.9	52.7	63.1
24.5	23.1	22.8	23.2	23.6	24.5	46.6	48.5	47.3	48.5	56.1	53.6	62.4
24.1	22.7	22.7	23	23.6	24.5	44.9	47.7	47.2	52.4	55.6	54.9	62.5
24.1	22.7	23	23.1	23.6	24.6	48.2	46.7	46.5	52.2	55.6	54.3	63
23.9	22.6	22.6	23.1	23.6	24.5	48.8	44.7	46.8	50.7	54.1	53	63.6
24.1	22.8	22.9	22.9	23.7	24.7	46.3	48.5	47.9	49.9	53.5	51.7	63.7
24.2	22.9	22.8	23	23.7	24.6	46.1	53.4	48.5	52	53.1	51.9	63.7
24.2	23	23.1	23.1	23.7	24.7	47.7	52.9	48.9	51.9	50.9	50.1	63.4
24	22.8	22.9	23	23.8	24.6	48.1	51.3	47.7	49.5	50.3	51.6	64.1
24.5	23	23	23.1	23.6	24.6	48.2	50	48.6	48.6	50.2	52.8	64.2
24.6	23.2	22.8	23.1	23.9	24.6	47.2	47.7	47.4	48	49.7	51.9	63.9
24.5	23.1	23	23	23.7	24.7	46.5	47	46.5	47.9	48.8	54.6	63.6
24.4	23	22.6	22.9	23.7	24.5	45.6	47.1	46.5	47.9	50	54.1	63.5
25.7	24.3	23.2	23.2	23.7	24.7	43.5	45.7	47.8	46.7	49.9	52.6	63
29	27.4	25.1	23.9	23.9	24.7	42	44.8	49.1	47	50.1	54.3	62.6
29.3	26.9	24.7	23.7	23.6	24.5	42	45.9	48.6	50.2	49.1	54.5	62.7
31.5	28.4	25.8	24.1	24	24.5	39.2	46.6	51.9	50.5	52.1	53.8	63.4
27.8	25.1	23.5	23.4	23.7	24.7	44	46	51.6	49.9	53.2	55.9	63.6
26.8	24.4	23.2	23.2	23.7	24.6	49.3	45	49.9	51.9	54.3	57.8	64
25.3	23.5	22.9	23	23.7	24.6	49	50	49	55.3	59.3	57.4	64.7
25.3	23.6	23	23.1	23.8	24.6	47.4	50.1	48.3	54.8	59	58.6	64.7
25.2	23.4	23.3	23	23.8	24.6	45.1	49	47.1	54	60.4	58.6	64.5
25.3	23.8	23.4	23.3	23.8	24.6	46.3	48.8	47.8	54	57.9	57	64.1
32.6	31.1	30.7	27.9	25.7	25	47.6	49.9	48.8	52.8	55.3	54.7	63.7
25.7	24	23.2	23.2	23.7	24.6	50.7	49.7	48	53.1	54.2	53.1	64.2
25.6	23.7	23.2	23.1	23.8	24.6	53.2	50.4	48.3	52.3	54.5	53.5	64.6
26.1	24.1	23.2	23.3	23.7	24.6	52	50	48.2	51.4	53.1	55.2	64.6
26.1	24.2	23.4	23.1	23.7	24.7	53.8	49.8	48.2	52.3	52.8	55.1	63.8
28.1	25.4	23.7	23.2	23.9	24.6	53.4	49.6	49.2	53.5	57.9	53.9	63.4
33.1	30.6	26.6	24.7	24.6	24.7	51.3	48.7	51	56	58	56.7	62.7
36.7	34.5	29.5	26.1	24.4	24.7	49.7	49.7	49.8	56.3	58.6	61.6	64.3
43.1	39.8	35.8	31.9	28.3	25.2	46.5	48.1	51.3	57.3	67.8	61	64.5
46.6	42.9	37.7	33.7	29.9	26.1	44.8	46.9	52.1	59.4	67.6	59.7	65.7
40.6	36.8	31.5	27.7	25.7	24.9	46.6	52.9	53.7	59.8	65.1	66.2	68.7
33.5	30.6	26.7	24.2	23.9	24.6	50.5	54	53.6	73.3	75.3	71.5	71
30.2	26.8	24.7	23.6	23.6	24.7	50.4	54	67.2	76.4	79.3	70.7	69.6
28.3	25.6	23.9	23.3	23.8	24.5	50.4	52.7	67.3	75.6	77.2	67.7	67.5
27.1	24.6	23.7	23.5	23.8	24.5	56.3	62.3	63.7	72	73.3	63.9	65.8
25.5	23.7	23.2	23.1	23.6	24.6	59.8	62.3	60.3	68.1	70.4	62.3	64.2
26.1	27.2	24.7	23.6	23.7	24.6	59	59.9	56.5	65.8	68.3	62.3	63.8
26.3	24.7	23.9	23.5	23.8	24.6	55	56.7	53.8	62.9	65.9	58.9	63.6
27	25.5	24.7	24	23.9	24.7	53.3	54	50.8	59.7	63.2	56.9	64.6
26.1	24.7	24	23.4	23.8	24.5	49.8	51.3	50.8	56.6	60	54.4	65
26.9	25.3	24.2	23.6	23.8	24.7	48.1	49.7	51.1	54.8	58.4	53.9	66.6
27	25.3	24.3	23.5	23.7	24.6	46.8	50.8	49.9	51.7	56.6	52.4	69.8
27.9	26.3	24.8	23.8	23.8	24.7	45.1	50.8	48.9	50.5	52.8	50.8	72.3
29.6	28	26.4	24.5	24.2	24.7	45.1	50.6	49.6	50.5	51.7	52.9	73.3
30.1	28.9	27.5	25.4	24.6	24.8	44.2	48.3	50.4	52.8	53.3	54.4	73.1
30.9	29.9	27.9	25.9	24.7	24.9	46.4	48.8	49.7	55.2	55.7	53.7	70.8
30.3	28.9	27.1	25.1	24.3	24.7	44.9	46.7	49.8	54.9	56.2	53.5	69.3
29.1	27.7	26.1	24.5	24.2	24.7	43.3	46.6	49.9	52.7	56.2	57.2	74.8
27.2	25.9	24.8	23.8	23.9	24.6	41	46.9	50.5	52.9	55.8	56.8	75
27.4	25.7	24.9	23.8	23.8	24.6	39.2	45.3	48.2	51.5	53	56.3	72.6
27.2	25.2	24.4	23.6	23.8	24.6	39	47.7	46.8	49.9	50.4	55.7	69.3
26.1	24.6	23.9	23.4	23.8	24.6	47.4	47.8	50.8	49.8	49	53.6	65.8
27.4	25.4	24.1	23.4	23.8	24.5	47.3	51	50.2	50	50.8	51.7	65.4
25.5	24.2	23.2	23.2	23.7	24.5	45.5	49.8	51.8	50.2	51.5	50.6	65

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
24.7	23.3	22.8	23.1	23.7	24.6	46.7	50.1	51.2	51.9	52.1	51.1	64.4
24.3	23.1	22.7	22.9	23.7	24.5	46.4	48.4	49.6	52.7	52.4	51.2	63.8
23.8	22.9	22.8	22.9	23.8	24.6	45.5	49.4	49.2	52.6	52.5	51.1	65.4
23.6	22.7	22.7	23.1	23.6	24.6	45.1	49.5	50.8	52.7	52.5	52.3	65.5
23.6	22.6	22.6	23.1	23.8	24.6	41.6	47.2	49.6	52.4	51.8	51.5	64.5
23.7	23.1	22.7	22.9	23.8	24.7	44.8	50	49	50.5	48.9	52.4	64.3
23.8	22.6	22.7	23	23.8	24.6	46.8	48.8	47.3	48.4	48.8	51.2	64.5
24.5	22.9	22.8	23	23.6	24.5	46.9	46.7	48	47.2	49.2	49.9	64.7
24.7	22.9	22.8	22.9	23.8	24.6	45.2	44.4	47.6	51.2	52.3	50.4	63.8
25	23	22.7	23	23.7	24.5	45.5	49.6	45.1	55.2	51.6	50.7	65.6
28	25.4	23.6	23	23.7	24.6	47.5	49.4	50.2	53.5	50.1	51.1	66
30.8	27.1	24.6	23.4	23.8	24.5	48.4	48.6	49.2	49.7	49.9	50.7	65.5
30.5	26.6	24.5	23.3	23.7	24.6	46.3	47.4	46.6	47.2	50.6	52.2	65.5
32.1	28	25.6	23.7	23.8	24.6	45.2	46.8	48.3	52.8	51.1	51.9	65.5
26.2	23.8	23.2	23	23.6	24.4	43.8	45.5	49.2	53	51.8	51.7	64.2
26	24.4	23.2	23.1	23.6	24.6	47.1	47.2	48.1	51	50.9	50.5	65.4
24.9	23.6	22.9	23.1	23.7	24.7	49.3	47.8	47.5	50.6	50	51.4	66.9
24.4	22.6	22.6	23	23.7	24.5	49.2	46.2	45.7	50	50.4	53.4	66
24.7	23.1	22.8	23	23.6	24.6	48.2	46.6	47.1	49	52.4	57.4	65.1
25.3	23.3	22.9	23.1	23.7	24.6	48.7	45.6	50.3	51.3	52.2	60.3	63.4
24.8	23.1	22.9	22.8	23.5	24.6	48.1	45.4	51.1	55.6	54.2	60.2	64.6

57.7	55.6	59.9	65.8	62.2	56.7	57.5	48.8	49.3	48.4	47	45.3	43.2
58.2	57.1	60	64.5	67.9	57	56.9	48.9	49.5	48.6	46.8	45	43.5
57.4	60.4	58.1	63.9	67.2	56.9	55.1	48.6	50.5	47.5	45.7	46.2	43.5
57	60.4	56.9	61.2	64.1	56.3	54.1	48.7	50.7	47.1	44.1	46.5	42.7
55.2	58.6	59	58.9	61.2	56.2	53	48.1	49.8	46.6	43	46.4	41.1
57.9	58	58.7	57.5	58.4	56.5	54	46.7	48.8	44.6	41.8	45.8	41.2
58.4	57.9	58.2	55.6	55.2	55.5	53.1	45.9	48.3	44.4	40.8	45.4	40.1
57	59.3	57.3	54.8	52.5	53	50.9	45.3	47.8	43.3	39.4	45.4	39.3
56.9	59.8	60.1	54.8	50.8	52.9	49.5	45.2	48	43.3	38.8	45.5	38.3
57.6	58.2	60.2	54.1	52.2	52.5	48.3	44.3	47.9	42	38.8	45.4	39
56.5	58	61.2	53.8	52.9	51.9	49.6	45.1	48.2	42.1	39	45.6	39.6
56.4	56.2	61.2	53.7	54	52.4	49.1	46.9	48.5	43.2	41	45.7	40.8
56.5	54.6	61	53.3	54.2	53	48.5	47.7	49.4	43.3	41.1	45.5	42.2
56	54.7	59	52.8	54.3	52.9	48	47.2	48.9	43.4	41.5	45.2	41.5
54.9	54.5	57.5	53.1	54.2	50.4	48.5	46.6	48.6	42.9	40.7	45.3	40.4
54.3	55.3	57	53.7	52.7	50	47.8	46.4	48.6	42.3	40	45.4	40.1
54.4	54.9	56.9	53.3	52.6	49.4	47.8	46.2	48.6	41	39.4	45.3	39.6
52.9	54.6	57.1	52.7	50.8	48.3	47.4	45.7	47.2	40.5	39.3	44.3	39.1
56.1	56.9	57.5	52.2	50	48.1	46.8	45	44.4	39.6	38.1	41.1	37.8
55.5	55.9	59.1	50.6	50.9	48.2	48.5	43.9	42	40.1	37.7	38.5	36.5
55.1	55.8	58.7	52	51.1	48	47.6	43.4	40.9	39.7	37.5	37.1	35.8
55.6	53.1	57.4	52.1	50.7	48.5	47.1	43.4	39.3	38.3	37.5	36.9	35.2
53.1	55.5	60.4	52	50.6	48.7	46.9	44.2	39.3	37.4	37.4	36.6	34.8
51.9	55	60.3	55.1	50.5	48.3	47.7	43.8	39.8	36.3	36.3	35.9	34.6
51.3	52.9	59.4	55.1	50	47.3	47.6	44.8	40.4	36.9	36.3	35.9	34.9
53.4	53.1	59.3	53.2	50.4	48.5	47.2	45.4	41.7	38	36.2	36.8	36.8
53.4	53.1	58.1	51.1	51.6	50.7	48.8	45.1	42.5	38.7	36.9	37.2	36.8
52.7	52.3	58.5	52.1	51.6	52	49.4	44.3	42.2	41.2	37.4	37.2	36.7
53.4	51.4	58.7	52.4	51	52	49.2	43.7	41.4	41.5	37.8	37.6	36.8
54	51.3	58.9	52.4	51.4	51.9	49	43.5	43.2	40.6	37.5	37.9	36.5
54.8	50.6	58.7	53	51.7	51.7	48	44	43	39.8	36.8	37.9	37.2
54.6	53.5	57.4	54.2	51	50.2	48.6	45.5	41.5	40.4	37.7	37.5	37.3
53.5	54.2	57.3	54.6	51	49	48.2	45.7	41.4	40.8	37.6	37.3	36.6
53.1	52.4	56.8	53.4	51.6	50.7	48.1	45.2	41.6	42.5	38	38	38
53.3	52.4	57	53.4	52.4	49.7	48.3	45.3	40.7	42.3	38	38	37.7
53.6	50.7	56.2	54.6	52.9	48.7	47	45.7	41.2	40.6	37.3	37.9	38.6
53.6	49.8	56.9	53.9	53.6	47.8	47	45.3	41.3	40.1	37.9	38.1	38.5
53.3	52.8	57.6	54.4	53	49.1	46.5	45.5	43.2	42.4	38.4	39	38.9
54	54.7	57.2	53	51.4	50	47.7	46	44.6	42.8	39.1	39.3	38.6
56.4	54.4	57.4	53.4	51.3	50	50.1	46.9	45.3	42.2	38.9	38.8	38.4
56.2	53.9	57.1	53	51.1	49.8	50.8	47.1	45.6	41.5	38.7	39.3	37.8
54.3	53.8	58.4	52.6	51.6	51.1	50.9	47	45	42.1	38.5	40.8	37.8
54.9	56.6	58	58.5	53.7	51.1	52.1	54.9	47	44.4	42.1	43.9	41.2
55	55.8	58.4	58.6	62.2	53.2	51.8	56	47.7	47.8	46.6	45.2	44.4
56.7	55.2	58.4	56.1	61.7	56.6	49.8	54.8	48.1	47.8	49.3	48.5	46.3
56.8	53.7	58.1	54.7	59	56.8	49.8	52.5	48	47.9	48.3	47.9	45.7
56.5	55	57.2	54	59	56	49.6	51.5	46.3	46.3	45.8	45.6	44
55.7	56.3	58.7	53.8	57.9	54.2	50.1	50.3	45.6	45.4	44.2	43.8	42.8
56.6	59.2	58.9	53.7	54.7	52.1	49.2	49.4	44.5	45	44.3	43.7	41.6
60.3	60.7	58.4	53.6	52	50.3	50	48.8	43.9	45.2	42.7	43.1	40
64	59.7	58.6	53.2	50.9	49.6	50.2	48.7	42.9	45	42.1	42.3	38.9
64.6	57.1	58.8	53.8	51.2	49.6	51.2	48.7	44.2	45.8	40.5	42.3	38.8
64.6	57.7	58.6	53.1	50.5	49.8	52.1	48.4	45.6	45.3	39.9	41.8	38.7
64	57.2	58.3	53	48.7	49.6	51.9	46.8	46.6	44.6	40	41	38.7
60.8	56.1	58.3	53.1	48.7	49.3	51.5	46.7	47.3	43.8	40.2	43	39.4
58.6	55.7	57.5	53.8	51.1	48.5	51.3	48.2	51.5	44.7	40.9	42.8	39.1
58.4	55.9	57	53.8	50.8	50	51.4	47.7	51.7	44.4	41.8	41.5	40.1
59.1	55.9	58.2	54.5	52	51.1	51.5	48.1	52.9	45.7	43.7	45.4	43.4
59.1	57	57.8	54.2	52.8	52	51.6	51.7	55.8	49.2	46.7	48.9	47.4
56.7	58.7	58	56.5	53	54.2	54.5	53.3	57	53.3	52.1	52.7	54
59.9	61.9	60.5	57.9	57.4	58.1	56.5	56.9	56.8	55.7	54.8	56.1	57
66.9	64.3	63.6	59.2	58.5	58.7	57.7	56.5	55.3	57.8	55.6	56.1	56.9
67.2	64.1	62.7	60.6	60.2	58.3	58.1	56	54.4	57.7	54.9	54.3	54.8
66.6	61.7	61	61.2	59.7	56.5	57	53.4	52.1	55.4	52.3	52.7	51.8
63.7	59.2	59.1	60	59.2	54.2	54.8	51.5	50.9	52.8	50	50.7	49.6
61	57.2	59	56.6	56.9	53.9	52.8	50.3	50	51.1	48.2	48.6	47.4
63.3	55.2	58.7	55.3	55.4	52.3	52.1	49.6	48	49.5	46.1	46.1	45.4
63.4	54.7	57.5	56.8	54.9	52	52	49.4	47.7	48.8	44.6	43.9	43.6
60.8	54.5	58.6	57	54.3	52	51.6	48.4	46.5	46.3	43.3	41.9	42.1
58.4	59.5	57.4	54.5	53.3	53.7	51.6	47.9	45.5	45	41.7	40.2	40.8
60.4	59.4	57.3	53	52.4	53.6	51.4	48	45.4	43.9	41.4	39.5	40.3
63.1	58.8	57.4	51.9	51.9	51.7	52	49.1	46.4	45.1	41	39.5	40
64.9	56.6	57.9	51.7	51.7	51.7	51.8	49	47.9	45.4	40.7	39.6	40.2
64.5	54.1	57.8	51.5	51.3	52.7	52.3	48.2	48.3	45.5	41.4	40	41.2
61.4	53.7	58.5	51.4	51.4	52.5	52.9	49	47.9	44.9	44	41	42.7
67.6	56.7	57.7	54	52.4	52.3	52.6	50	47.8	45.1	45.7	42.5	42.9
71.1	56.4	57	55.8	53.8	51.8	53.1	49.9	48.1	46	47.2	42.5	42.7
72.2	56.9	57.9	55.7	55.4	51.6	54	50.2	49.3	46.2	47.2	42.1	42.5
71.8	59.3	60.6	53.6	55.8	51.7	54.3	50.6	48.5	45.8	46.1	42.3	42.6
73	59.6	60.8	54.6	54.4	53.2	53.7	50.6	47.5	45.6	44.8	42.4	41.5
74.3	59.4	59.9	54.6	53.8	53.5	53.2	50.2	47.6	44.7	44	41.8	40.1
74.7	59.8	58.8	52.7	53	52.9	53	50.1	47.1	44.3	42.7	41.1	39.6
72.5	59.9	57.8	51.2	53.1	51.7	52.1	49.6	46.1	43.6	41.5	40.9	41.3
68.9	61.3	56.7	53.1	53.6	53.1	53	48.3	45.5	45.8	41.6	42.1	42.5
65.3	59.7	57.5	53.1	51.7	53.7	52.7	48.5	45	45.7	42.1	42.2	42.5

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
61.6	58.9	58.1	51.3	50.9	54.7	53.1	49.6	45.5	46.3	42.5	41.3	42.3
58.6	60.4	59.1	51	51.1	54.3	52.6	49.2	45.5	46.1	42.6	40.1	41.6
58.5	62.7	58.7	50.8	51.4	53.8	52.9	49.6	44.8	45.3	41.5	38.8	40.1
58.6	61.7	59.4	50.4	51.7	54.2	52.9	49.7	44.2	43.5	39.9	37.8	38.9
59.4	58.1	58.6	51	51.6	52.5	51.9	49.6	42.7	41.9	38.5	37.4	38.2
59	56.5	57.1	51.3	51	50.7	51.2	48.5	42.3	41.4	37.7	37.8	37.5
58.6	56.7	57.5	52.4	50.4	49.8	50.4	48.2	42.3	41.2	37.7	37.8	37.5
56.8	56.8	57.4	51.9	49.2	49.1	51	48.3	42.5	41.1	37.6	37.5	37.3
57	55.1	57	50.5	51.4	48.9	51.1	49.3	42.4	40.9	37.2	37	37.1
57.8	53.7	58	49.8	50.8	50.6	50	48.4	41.8	39.7	37	37	36.5
55.3	53.6	58	53.1	54.6	52.7	51.4	46.7	42.4	41	38.7	38.1	37.7
53.5	53.1	57.8	52.8	54.9	56.9	51.3	47.8	42.5	41.9	40.2	40	40.3
51.9	52.6	57.8	52.6	52.5	56.4	53	48.9	44.7	44.7	41.7	40	42.1
52.4	51.8	57.5	55.3	55.3	53.3	53.3	48.9	48.4	45.2	42	40.8	42.5
54.3	51.2	56.5	55.1	56.6	51.8	52	48.4	48.4	45.2	41.8	40.8	42.1
53.5	51.9	55.6	53.4	55.6	53.3	52.1	47.8	46.6	43.6	40.4	40.1	42
53.7	50.9	57	53.1	52.5	53.3	51.4	47.3	44.9	43.6	39.7	40.1	42.3
53.6	50.6	57.3	52.8	51.7	52.9	49.7	47.7	46.6	44.2	41.8	39.6	41.4
53.7	60.7	56.8	51.3	55.1	53	49.1	48	46.8	42.7	42.3	43.6	41.4
53.4	60.7	55.2	52.2	53.9	52.8	48.1	47.6	48.5	41.4	41.6	43.7	41.1
54.4	58.7	55.9	51.7	52.6	51.3	47.9	47.8	48.5	40.7	40.4	44.7	41

45.4	44.5	43.2	41.7	41	38.2	37.4	35.8	34.5	32.8	30.2	27
44.9	44.4	43.1	41.7	40.6	37.7	36.6	35.1	33.7	31.8	29.4	26.3
44.2	43.4	42.4	41.2	39.6	37.6	36	34.3	32.8	31	28.9	25.6
42.7	42.4	41.9	40.9	40	37.3	35.5	33.8	31.8	30.1	27.9	25.1
41.2	41.2	42.5	42	43.3	38.8	36.8	35	32.1	30.7	27.8	25
40.8	41.1	42.4	42.1	43.3	38.8	36.7	35	32.2	30.7	27.8	24.9
39.8	39.8	41.3	40.6	41	37.3	35.2	33.6	31.2	29.4	26.8	24.5
39.1	38.4	40.7	39.7	38.7	35.7	34.3	32.7	30.4	28.4	26.1	24
39.4	38.7	40.7	39.3	37.5	35.3	33.9	32.7	30.1	28.1	25.8	23.8
39.2	38.3	40.6	39.2	37.2	35.7	34.1	33.1	30.3	28.4	25.8	23.9
39.4	38.2	41.4	39.9	37.7	36.2	35.1	33.6	30.5	28.6	26.1	24
41.8	41.5	42.5	41.1	39.6	37.4	36.6	35.3	31.8	29.6	27	24.9
41.8	42.6	42.9	42.2	40.9	38.2	37.7	36.7	33	30.5	27.7	25.8
41.5	42	42.8	42.1	40.5	37.8	37.5	36.3	32.6	30.1	27.4	25.5
40.3	40.6	42.4	41.2	39.5	37	36.2	35.1	31.3	29.1	26.4	24.5
40	40	42.6	41.1	39.5	36.9	35.2	34.2	30.6	28.6	26.1	24
40.1	39.6	42.4	40.8	39	36.5	34.4	33.3	29.9	28.2	25.7	23.8
39.7	39	41.3	40	40.3	39.6	34.6	35.5	33.2	29.2	26.2	23.9
38.8	37.4	39.7	38.9	39.3	38.4	33.8	33.8	31.4	28.5	26.5	24.4
38.2	36.8	38.4	38.5	37.7	36.4	34.3	32.6	30.1	28.9	30.1	26
37.4	35.6	37.3	37.8	36.4	34.3	32.5	30.9	28.7	27.8	28.1	24.8
36.8	35	36.2	36.5	34.8	32.3	31	29.3	27.2	26.5	26.1	23.8
36.9	34.9	36.1	36.4	34.1	31.1	30	28.5	26.5	26.3	24.9	23.2
37	35	36.5	35.7	33.7	30.6	30.1	28.5	26.7	26.2	24.4	23
37.1	34.4	36.3	35.4	33.8	30.7	30.4	28.6	26.7	26.2	24.4	22.9
37.4	35.4	36.3	36.4	33.6	31.6	30.7	29.5	27.2	26.4	24.8	23.3
38.4	35.8	36.7	37.9	34.6	31.9	30.9	29.4	27.1	26.4	24.7	23.2
38.5	36.3	37.2	38	35	32.3	30.9	29.3	27	26.4	24.4	23.2
38.3	37.1	38	38.1	36.2	32.8	31.4	31.5	28.5	27.7	24.9	23.1
38.4	38.2	38	38	36.3	33	31.4	31.5	28.4	27.7	24.9	23.1
39	38.7	38.2	37.8	36.1	32.8	31	29.9	27.4	26.9	24.6	23.1
38.9	38.6	38.2	37.8	35.8	32.4	30.5	28.9	26.8	26.2	24.3	22.9
38.6	38.6	38.3	37.9	35.2	32.2	30.3	28.8	26.5	26.3	24.2	22.8
38.2	39.1	38.6	38.2	35.8	33	30.7	29.2	27	26.5	24.2	22.8
39.2	38.6	38.4	38.1	36.6	33.7	31.2	29.4	27	26.5	24.3	23
39.2	39	39	39.3	38.4	35.2	32.5	30.7	27.3	26.6	24.3	23
38.6	39.5	39.8	39.5	38.7	35.7	32.6	30.6	27.4	26.7	24.3	22.9
38.8	40	40.5	39.7	39	35.9	32.5	30.2	27.4	26.7	24.4	23
39	40.7	40.8	39.9	39	35.6	32.3	30	27.6	26.7	24.6	23.1
38.8	40.3	40.7	39.9	38.5	35	31.8	29.9	27.6	27.2	24.6	23.2
38.2	39.5	39.7	39.1	38.4	34.9	31.7	29.7	27.5	27.2	24.6	23.2
39.5	41.4	40.5	41.4	39.1	34.9	33	31.8	29	28	25.4	24
42.2	44.3	43.2	43.5	40.6	37.8	35.7	35.1	32.2	30.6	28.1	26.6
44.1	47.5	45.1	43.9	41.4	39.1	36.7	35.6	32.9	30.9	29	26.9
45.8	49.2	46.4	45.7	42.6	40.4	37.8	36.6	34.2	32.3	30.8	28
45.5	48.3	45.8	44.6	41.8	40	37.3	36.3	33.9	32.1	30.5	27.7
44.3	46	43.8	42.4	40.9	38.9	36.3	35.1	33.1	31.1	28.9	26.2
43.2	44.4	42.8	41.9	40.1	38.2	35.6	34.3	32.1	30.2	27.6	25.1
42.8	42.7	42	41	39.2	37.5	35.2	33.5	31	29.2	26.3	24.2
41.3	41	40.6	40	38	36.1	34.1	32.3	30	28.6	25.7	23.9
40.2	39.6	38.8	39.3	37	35	32.9	31.5	29.3	28.2	25.4	23.7
38.8	38.9	38.6	38.3	37.2	35.3	34.3	33.9	32.4	33.6	31.9	30.4
39.2	40.1	38.6	38.2	36.9	34.8	33.9	33.4	31.9	32.8	31.1	29.6
39.9	40.2	38.8	37.7	36.5	34.6	33.2	32	30.6	30.5	28.5	27
40.4	39.7	38.4	38.4	35.8	34.4	33.3	31.5	30.3	29.1	26.9	25.2
40.5	39.8	38.6	38.7	36.4	35.6	33.2	31.6	30.5	29.6	26.7	24.7
41.9	42.2	39.5	39.6	39.1	36.1	35.2	33.5	32.2	30.3	27.7	25.1
43.6	46.9	43.5	42.1	41.6	42.1	37.6	37.4	36.8	35	32.1	29.7
48.7	49.7	52.8	47.8	45.7	45.7	42	42.1	41.5	39.3	35.7	33.4
55.8	56.2	54.9	53.9	52.2	50.7	49.2	47.9	47.1	45.5	42	38.7
58	60.7	56.7	55.3	54.7	55.4	50.8	50.1	50.1	47.9	45.4	41.8
58	60.9	56.8	55.3	54.7	55.2	50.8	50	49.9	47.7	45.2	41.6
55.8	58.7	55.3	53.6	52.9	52.4	48.8	47.7	47.6	45.5	42.7	39.1
53.1	55.5	52.5	51.3	50.2	49.4	46	44.6	44.2	42.1	39.2	35.7
50.4	52.3	49.7	48.7	47.2	46.3	43.2	41.6	41	38.8	35.7	32.2
47.7	49.3	46.7	46	44.4	43.4	40.6	39.3	38.1	35.8	32.6	29.3
45.3	46.5	44.3	43.6	41.8	40.7	38.2	37	35.5	33.3	30	27
43.4	43.9	42.5	42.1	39.9	38.3	36.4	34.9	33.2	31.1	27.8	27.7
41.8	41.8	40.9	40.3	38.4	36.5	34.9	33.3	31.2	29.4	26.6	26
40.3	40.4	39.9	39.9	37.4	35.1	34.1	32.6	30.8	29.7	27.1	25.7
39.6	38.8	38.9	39.7	37.4	35.3	33.7	32.8	30.9	29.6	26.9	25.4
39.4	37.9	39	38.9	36.9	35.1	34	33.4	31.4	30.2	26.8	25.2
39.1	37.9	38.9	38.6	36.5	35.3	34.6	34.1	31.8	30.4	26.9	25.4
40.7	39.5	39.9	39.6	37	37.1	35.6	35.5	33.4	31.7	27.7	26.1
40.5	40.6	40.6	40.9	38.2	38	36.9	37.4	34.9	32.3	29	27.4
41.6	42.4	41.3	41.3	39.1	38.3	38	39.3	36.3	33.2	29.8	28.5
41.9	43.1	42	41.5	39.5	38.9	38.6	40	37	34.3	30.6	29.5
42.2	43	42.3	41.6	39.4	38.5	38.6	40.1	36.9	34.5	30.5	29.3
42.1	42.2	42.3	41.3	39	38	38.3	39.9	36.4	34.1	30.4	29.1
40.9	41	41.8	41	38.7	37.9	37.1	38.8	35.2	32.9	29.5	28.1
40.9	39.6	41.1	39.9	37.7	36.6	36.2	37.1	33.4	31.3	28.1	26.8
41	39.8	41.5	40	38.1	36.9	36.5	36.4	32.5	30.8	27.9	26.2
40.3	40	41.8	40.8	38.7	36.8	36.1	35.3	31.7	30.1	27.3	25.6
40	40.7	43.4	42.4	40.7	37.7	36.3	35.4	31.7	30	27.2	25.3
40.2	41.4	43.6	42.7	41	37.9	36.3	35.3	31.6	29.9	27.2	25.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
40.1	41.5	43.5	42.5	40.8	37.5	34.8	34	30.4	28.8	26	24.6
39.6	41.4	42.8	41.8	40	36	33.5	32.6	29.2	27.8	25.2	23.9
38.3	39.4	40.8	39.6	37.7	34.1	32	31.1	28.3	27	24.7	23.4
37.2	37.5	39.3	38	36.2	32.9	31.1	30.2	27.5	26.6	24.1	23.1
38.5	37	38.3	37.9	35.4	32.4	30.6	29.2	26.8	26.6	23.9	22.9
38.2	36.9	37.7	37.4	35	32	30.4	28.9	26.8	26.6	23.9	23
39.2	38.1	38.6	37.6	35.2	34	32.8	28.7	26.7	26.4	23.8	23
38.8	38.8	38.4	37.4	35.2	35.8	37.1	29.2	27.3	27.2	24.4	22.9
38.1	37.9	37.8	37.1	34.7	34.6	35	29.4	27.2	27.1	24.6	23
37.5	37.1	36.8	36.8	34.1	32.9	32.9	29.6	27.4	27.4	24.9	22.9
39.8	42	40.2	39.6	38.3	37.2	35.2	33.3	31.3	30.1	27.3	24.9
42.3	44.8	41.7	41.4	40.2	39.7	38.1	36.5	34.6	32.7	29.8	26.4
46.3	45.6	43	42	41.2	40.8	38.6	36.9	35.3	34.2	30.6	26.8
46.6	46.3	44.1	42.3	41.7	41.5	39.5	37.6	35.7	35	31.6	27.6
45.6	45.1	43.3	41.8	40.5	40.6	39.3	37.1	35.3	34.5	31.4	27.4
43.4	42.8	41.7	40.3	38.3	37.7	36.7	34.4	32.7	32	28.8	25.5
43.2	42.1	41.7	40	37.9	36.8	35.6	33.8	32.5	30.6	27.3	25
42.2	40.5	40.9	39.2	37.1	35.7	34.5	32.4	30.9	29	25.9	24.1
41.7	39.7	40.4	39.4	37	35.2	34	31.9	29.2	27.6	25	23.3
41.9	39.8	40.4	39.5	37.2	35.4	34.3	32	29.3	27.7	25.2	23.3
42.6	39.7	40.4	39.6	37.1	35.3	34.1	31.9	29.2	27.6	25.1	23.3

24.8	23.7	23.8	24.6	52.7	47.6	49.4	46.9	47.6	48.6	62.6	55.6	54
24.4	23.4	23.8	24.6	52.8	49.6	49.2	49.5	46.6	48.4	62.6	57	54
24	23.4	23.8	24.7	55.7	50.9	47.3	47.4	49	50.3	59.8	56.6	57.2
23.8	23.3	23.8	24.7	54	47.5	46.2	46	48.9	58.9	57.8	55	58.6
23.7	23.3	23.9	24.6	50.5	46	45.6	46.3	47.6	55.8	58.3	54.3	56.6
23.7	23.2	24.6	24.7	46.8	46.1	46.4	46.3	48.7	54.9	61.5	54.8	56.6
23.5	23.2	26.3	24.7	45	49.7	47.2	50.9	48.9	56.9	59.8	56.2	56.4
23.2	23.2	26.1	24.7	45.4	49.4	51.1	48.9	48.8	57.1	60.2	55.7	56.4
23.3	23.2	24.8	24.7	43.4	49.1	50.6	47.3	50.2	56.5	59.4	55.1	58.1
23.3	23.2	24.1	24.7	44.7	52.2	48.7	49.1	48	55.3	59.1	56.5	57.7
23.3	23.2	23.9	24.7	50.4	51.4	46.5	46.5	47.9	54.7	60.5	54.5	56.2
23.5	23.3	23.9	24.6	50.3	50.7	45.6	46.5	47.7	54.9	59.7	54.6	54.7
23.9	23.5	23.8	24.6	47.9	48	46.2	47.2	48.1	55.2	59.7	55	53.5
23.8	23.5	23.7	24.6	46.2	48.4	46.6	48.8	49.3	54.4	60.9	54.1	53.4
23.3	23.3	23.7	24.6	46.4	48.4	45.5	47.4	49.1	54.8	59.5	53.9	53.7
23.2	23.3	23.8	24.6	46.1	47.3	46	48	48.4	54.5	59.5	53.6	54.2
23.2	23.2	23.8	24.6	45.8	47.3	42.5	46.1	49.8	51.5	60.4	52.1	53.3
23.4	23.3	23.8	24.6	44.1	48	39.2	46.4	48.7	50.1	60	51.6	52.7
23.9	23.5	23.9	24.6	41.9	47.3	39.2	46.9	48.6	49.1	60.4	51.8	54.7
25.5	24.1	24	24.6	44.5	47.1	40.3	46.4	49.1	48.6	60.8	54.5	54.6
24.4	23.6	23.9	24.7	47.2	47.9	44.4	47.2	50	49.5	63.3	54.1	52.8
23.5	23.3	23.8	24.7	45.6	48.2	44.3	45	48.4	49.2	63	53.2	51.9
23.2	23.2	23.7	24.6	45.7	46.1	46.4	45.7	47.9	48.4	63.3	50.5	53.2
23	23	23.7	24.6	46.1	46.7	47.3	47.8	50.7	48.5	64.2	50.5	53
23	23.1	23.7	24.6	46.2	47.5	46.3	47.6	50.7	48	63.9	50.3	50.4
23.2	23.2	23.7	24.6	46	47.1	46.8	48	49.7	47.7	63.6	50.4	50.4
23.1	23.1	23.7	24.6	48.7	48.3	47.9	52	54	48.4	63.7	51.8	50.4
23.1	23.1	23.7	24.6	46.4	46.9	46	50.6	54.6	48.2	63.1	51.5	50.4
23.1	23.1	23.7	24.6	45.1	47.1	45.3	48	53	49.9	62.2	52.8	49.8
23.1	23.1	23.7	24.6	44.9	47.5	46.2	47	54	52.6	62	53.2	50.6
22.8	23.1	23.7	24.5	43.2	46.1	46	48.3	54.8	53.3	61.7	53.3	49.2
22.9	23.1	23.6	24.6	43.5	44.7	45.5	50.6	54.2	52.6	62.1	53	50.4
22.9	23.1	23.7	24.6	46.4	43.3	45.7	48.2	51.2	51.8	62.9	51.8	52.2
22.9	23.1	23.7	24.6	44.8	43.5	46.5	47.8	51.4	50.7	63.2	52	51.5
22.9	23	23.7	24.6	44.7	48.6	46	50	50.9	50.1	63.3	52.1	50.7
23	23.1	23.7	24.7	44.5	50.7	47.7	48.8	49.1	48.7	62.8	51.8	48.6
23.1	23.1	23.8	24.7	46.9	50.1	45.4	48.1	49.3	49.5	63.3	52.1	48.4
23	23.1	23.7	24.6	45.9	47.2	46.1	47.7	49.6	50.8	63.7	52.5	49.9
23	23.1	23.8	24.6	45.7	46.1	46.1	46.4	47.2	50.9	63.6	52.5	53.1
23	23.1	23.8	24.7	43.8	44.3	45.8	46.1	47.2	51.4	62.9	54	53.1
22.9	23.1	23.8	24.7	43.6	44.5	44.1	44.7	48.9	52.3	63	54.3	52.5
23.2	23.2	23.7	24.7	39.7	44.5	43.7	44.4	47.4	51.6	61.9	52.1	52.7
24.6	23.7	23.8	24.7	39.5	42.8	47.3	45.8	48.2	51.2	62.2	51.7	52.6
24.7	23.8	23.8	24.6	39.2	43.3	46.7	46.5	46.8	52.8	62.1	53.8	54.6
25.4	24	23.9	24.6	37	44.8	48.6	49.9	47.4	52.1	61.9	54.7	53.4
25.2	23.9	23.9	24.7	37.1	44.4	49.9	49	52.2	52	63.3	54.7	53
24.2	23.5	23.8	24.6	43.3	43.3	49	47.6	51.8	55.9	63.1	54.4	53.4
23.6	23.3	23.7	24.7	47.2	43.8	47.6	52	54.7	55.4	64	54.9	54.7
23.2	23.2	23.8	24.7	45.2	48.1	47.1	54	56.9	55.7	63.7	55.1	54.3
23.2	23.2	23.8	24.7	43.4	48	45.6	52.8	57.9	57	63.9	55.1	59.2
23.4	23.3	23.8	24.7	44.2	46.5	45.7	52.8	54.9	54.7	63.2	60.3	57.1
30.1	27.4	25.4	25	43.7	47.1	47.5	51.8	53.8	53.1	63	63.9	55.5
29.2	26.7	25.1	24.9	47.4	47	46.5	51.2	52.9	52	63.7	64	55.2
26.4	24.8	24.3	24.8	50.3	47.6	46.2	49.8	53.1	52.2	63.9	60.9	55.6
24.7	23.8	24	24.7	49.2	48.6	45.7	49	51.4	52.1	63.8	58.1	54.2
23.9	23.5	23.8	24.7	49.1	47.8	46.9	51.1	51.5	53.5	62.9	56.9	54.3
23.7	23.3	23.9	24.7	51.4	47.9	46.2	51.3	51.8	52.9	62.6	56.6	54.9
26	24.4	24.4	24.7	49.8	46.8	48.6	52	57	52.7	61.9	58.3	54.4
28.7	25.6	24.5	24.7	46.5	47.3	47.7	54.4	57	56.1	62.7	55.9	54.6
34.7	30.9	27.5	25.1	44.4	45.3	48.3	54.1	57.7	59.8	64	55.4	56.8
36.8	32.9	29.2	25.7	42.9	45.3	50	55.4	65.1	58.8	64.1	55.9	58.2
36.6	32.6	28.9	25.7	43.8	46	51.6	57.6	63.8	59.3	64.6	59.7	61.9
34	30	27	25.2	46	52	52.5	60	64.2	66.4	68.8	65.9	61.8
30.8	27.3	25.4	24.8	49.6	51.3	53.7	73.3	75.5	67.7	67.5	63.8	59.3
28	25.3	24.4	24.7	48.4	50.2	63.8	72	73.4	63.9	65.9	61	57.2
25.9	24.2	24	24.6	50.5	52.8	60.3	68.1	70.4	62.1	64.2	59.6	55.2
24.6	23.7	23.9	24.6	56.3	59.9	56.6	65.8	68.3	61.4	63	59.2	54.2
24.9	23.5	23.8	24.6	55	56.7	53.8	62.9	65.9	59	62.4	60.8	54
24.1	23.5	23.8	24.6	53.4	54	50.8	59.7	63.3	56.9	62.7	58.5	52.5
24.7	23.9	23.9	24.7	49.8	51.3	49	56.6	60	53.9	63.4	57	54.7
24.4	23.8	23.8	24.6	48	49.7	49.6	54.8	58.4	53.8	63.7	56.8	58.6
24.2	23.6	23.9	24.7	46.8	48.3	49.7	51.8	56.4	52.5	64.8	60.2	56.6
24.3	23.6	23.8	24.7	44.5	48.4	48.9	50.5	52.9	50	66.6	62.9	53.8
24.6	23.7	23.8	24.7	43.6	50	47	48.3	51.8	49.4	69.8	61	53.3
25.9	24.2	24.1	24.7	42.6	48.3	47.6	48.3	50.3	49.7	71.9	58.6	52.4
26.9	25.1	24.4	24.8	42.9	47.5	47.3	49.9	50.3	52.6	70.8	61.5	52.6
27.6	25.6	24.6	24.9	44.2	46.8	47.5	52	53.2	52.7	68	67.7	55.2
27.5	25.6	24.6	24.8	43.3	45.2	47.5	52.7	54.4	52.5	67.3	71.1	54.9
27.3	25.4	24.4	24.8	41	44.1	47.5	49.7	53.1	53.2	69.4	70.5	57
26.5	24.8	24.2	24.7	38.7	45	48.2	49.6	53	54.9	72.6	71	58.5
25.5	24.1	24	24.6	39	44.9	46.9	49.7	50.4	54.7	69.3	73.1	57.8
25.2	24	23.9	24.6	38.1	44	45	49.4	48.2	53.3	65.8	72.6	58.3
24.6	23.7	23.8	24.6	38	46.8	46.5	48.7	47.9	51.8	65	68.9	58.5
24.2	23.5	23.8	24.6	45.6	47	48.1	48.1	48.1	50.6	64.1	65.3	59.8
24.1	23.4	23.8	24.6	43.8	48.7	48.7	48.3	49.7	49.3	64.1	61.6	56.7

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.6	23.3	23.8	24.6	45.2	48.4	49.7	48.3	49.7	49.7	63.6	58.6	56.1
23.1	23.2	23.8	24.6	45	46.2	48.1	50.6	50.8	50.4	62.8	56.4	59
22.9	23	23.8	24.6	44.3	46.1	46.8	50.1	51.2	49.4	62.8	57.6	58.9
22.8	23.1	23.7	24.6	41.7	46.7	47.2	51.9	51.2	50.5	64.3	57.1	58.2
22.7	23.1	23.7	24.6	38.8	46.5	48.9	50.5	48.5	50.8	63.6	58.6	56.5
22.7	23.1	23.8	24.7	39.1	47.2	46.6	48.5	48.4	51	63.2	57.9	55.1
22.8	23.1	23.8	24.7	43.5	46.7	46.5	47.2	46.2	49.1	63.4	56.8	56.1
22.8	23.1	23.8	24.6	44.6	44.4	46.6	46	46.4	49	63.5	55.9	55.1
22.9	23.1	23.8	24.6	44	43.1	44.9	46.8	49.1	49.6	62.7	54.7	53.7
22.8	23	23.8	24.6	44.1	43.1	43.9	51.3	50.1	49.2	62.7	55.3	51.9
23.4	23	23.7	24.6	44.4	48.4	44	49.8	47.7	49.3	65.2	53.3	52.1
24.2	23.3	23.8	24.6	46.3	47.4	45.6	46.7	46.5	49.6	63.7	52	51.2
24.5	23.3	23.8	24.6	45.3	46.4	45.2	45.7	48.7	50.3	63.7	50.1	51.7
25.3	23.6	23.8	24.6	43.8	45.1	45.5	46.7	49.9	51	64.2	49.7	49.6
25.1	23.6	23.8	24.6	43	44.8	47.4	50.8	50.8	50.2	63.5	52.4	49.3
24	23.2	23.7	24.6	43.2	43.9	47.1	49.1	49.9	49.2	63	52.5	50.9
23.5	23.2	23.7	24.7	46.8	45.3	45.3	49.2	49	50.1	65.4	53	50.2
23.2	23.2	23.7	24.7	48.3	43.8	44.6	48.1	49.1	51.5	64.6	52.6	49.5
22.9	23.1	23.7	24.6	45.7	45.1	42.7	47.8	49.7	52.9	63.4	52.8	50.4
23	23.2	23.7	24.7	46	44.2	47.2	48.5	51.2	57.6	61.5	52.6	58.7
22.9	23.2	23.7	24.6	46.1	42.5	49.2	50.8	51.4	56.5	62.6	53	55.2

58.3	64.3	56.4	55.2	53.7	47.8	46.2	45.9	43.2	41.5	42.5	44.4	43
58.1	62.7	62	55.9	55.1	48.1	49	47.5	45.6	43.7	42.5	44.3	43.3
56.5	61.2	64.1	55.9	53.9	47.1	49.2	46.8	44.1	44.4	42.8	42.6	42.3
55.7	58.9	61.1	55.1	52.7	48	49.9	46.6	42.9	46.1	41.1	41.2	41.2
55.9	57.2	58.4	55	51.9	46.7	48.7	44.6	41.7	45.7	40.4	40.5	40.6
57.5	55.6	55.3	55.1	52.9	45.6	48.1	43.8	40.8	45.3	40.1	39.8	39.7
57.2	54	52.5	53	50.8	44.7	47.7	42.8	39.4	45.1	38.7	38.9	38.4
56.1	54.1	50.7	51.9	49.5	44.6	47.2	42.5	38.5	45	38.3	38.3	38.2
57.1	53.7	49.6	52.1	47.9	43.9	47.6	41	38.2	45	37.8	38.7	38.2
59.6	52.1	49.4	50.9	47.5	43.6	47.4	40.8	38	44.9	37.9	38.5	37.5
60.1	52.7	51.1	51.3	48.1	44	47.6	41	38.4	45	39.1	38.5	37.5
60.4	52.6	52.9	51.6	48.2	44.8	47.9	40.9	38.9	45.3	39.4	39.3	38.2
59	51.3	53	51.4	46.9	46.3	48.3	42.7	40.6	45.1	40.9	41.4	41.5
57.4	51.3	52.4	50.4	46.1	46.3	48.3	41.8	40.7	44.8	40.4	40.3	40.6
56.7	52.1	52.3	49.5	47.8	46.1	48.2	42.2	39.7	44.5	39.9	39.8	40
56	51.8	51.6	48.9	47.1	45.9	48.3	41	39.3	44.8	39.3	39.6	39.5
55.7	52.5	50.6	48.1	47.3	45.5	47.3	40.3	38.8	44.3	39.1	39.7	38.9
55.7	51.8	50	47.5	45.9	44.5	44.4	39.4	38.1	41.1	37.8	38.1	37.4
55.7	50.3	49.1	47.2	45.7	43.9	42	39.1	37.5	38.5	36.4	38.2	36.6
57.2	49.5	49.1	47.2	46.5	42.9	41	39.3	37.2	37	35.4	37.3	35.6
56.9	49	50.5	47.2	46.5	42.8	39.3	38.2	37.1	36.5	35.2	36.3	34.8
55.8	50.7	49.8	47.2	46.3	42.7	38.6	37.3	37.1	36.2	34.6	36.2	34.4
57.1	50.8	49.8	47.8	46.2	43.3	38.6	35.7	35.9	35.7	34.5	36.5	34.4
59.1	51.5	49.6	46.7	46.6	43.2	38.8	35.4	35.8	35.5	34.3	36.3	34.2
58.6	53.3	48.6	46.1	46.8	43.2	38.7	36	35.3	35.4	34.3	36.4	34.1
57.9	51.2	49	46.6	46	44.7	40.3	36.8	35.2	35.3	34.6	36.2	34.3
57.3	50.1	50.4	48.3	46.9	44.3	41.4	37.7	35.9	36.4	36.4	37.1	35.1
57.2	50.5	50.4	49.9	48.2	43.6	40.8	38.7	36.4	36.7	36.3	38	35.7
57.7	51.5	50.2	50.3	48.4	42.9	40.6	40.2	36.9	37.1	36.1	37.9	36.2
57.6	51.7	50.1	50.3	47.9	42.5	41.1	39.3	36.8	37.3	36.2	37.7	36.9
56.5	51.3	50.5	50.2	46.9	43.3	41.6	39	36	36.8	36.3	38	38
55.8	53	49	49	46.5	43.7	40.1	39.6	36.7	36.7	36.5	38.5	38.2
56.5	53.2	49.5	47.6	46.5	45.1	40	39.6	36.7	36.9	36.3	37.8	38.3
55.5	51.9	49.2	47.7	45.7	44.1	40.1	40.6	36.6	37.2	36.6	37.6	38.5
56.1	52	51.2	48.5	46.9	44.1	39.5	40.1	36.9	37.6	37.1	38.1	38.2
54.8	53	51.9	46.3	46	45	40.5	40	36.7	37.5	37.4	38.7	38.2
54.8	53	52.1	46.4	46.1	44.7	40.5	39.3	37	37.5	38	38.1	39
57	52.7	51.4	46.5	45.8	44.4	40.8	39.2	37.5	38	38.1	38.2	39.2
56.2	52.2	50.6	48.8	46.2	45	43.1	42.1	38.1	38.7	38	38.5	40
56.2	52.8	50.5	49.1	47.1	45.9	44.6	41.4	38.1	38.3	37.7	38.2	39.4
56.3	52.5	49.5	48.6	50.1	45.9	45.1	40.1	37.6	38.4	36.9	37.8	38.7
56.6	51	50.4	48.9	49.4	46.1	44.4	39.9	37.6	38.8	36.8	37.6	38.1
57.3	51.1	51.4	50	50	46.4	44.8	42.2	38.5	40.7	37.7	39.5	41.4
57.4	55.9	54.4	49.6	49.9	54.8	46.2	44.3	42.1	43.9	41.4	42.1	44.3
57.7	53.9	59.1	53.2	49.2	52.5	47.4	46.7	46.6	45.2	44.6	44.1	47.6
57.2	53.1	57.6	54.7	49.1	51.3	46.2	46.3	45.8	45.6	44	44.2	46
56.2	53.1	57.7	53.7	49	50	45.5	45.2	43.8	43.9	42.9	43.2	44.4
57.3	53.1	54.7	52.2	49.2	49.1	44.3	44.4	43.7	43.3	41.4	42.5	42.6
57.9	52.2	52.1	50	47.9	48.4	43.7	44.2	42.6	43.1	40	41.3	41
57.1	52.7	50.9	49	47.9	48.1	42.9	44.5	42	41.9	38.7	40	39.5
57.3	52.4	50.3	48.6	49.1	47.5	41.8	44.3	40.5	41.6	38.4	38.8	38.5
58.3	52.8	50.2	48	49.1	47.7	42.2	44.4	39.8	41.6	38.3	38.5	38.3
58	51.6	48.1	49	51	46.8	43.7	44.5	39.4	41	38.1	38.3	38.4
57.5	52.1	48	48.9	50.9	45.7	45.1	43.4	39.4	40.1	38	39.2	39.7
56.6	51.6	47.9	48	50.5	45.4	46.3	43.3	39.3	41	38.7	39.8	38.9
56.6	51.5	48.6	47.4	50.3	46.4	47.3	43.3	40.1	41.3	38.7	40.1	39.1
56.6	52.5	50.1	47.9	49.8	47.1	51	43.7	40.2	40.9	38.8	40.3	39.7
56.9	52.4	50.5	49.5	49.9	47.3	51.7	44.3	41.6	41.4	39.9	41.7	42.3
56.4	53.4	51.7	50.4	50.8	47.9	52.7	45.6	43.9	45.4	43.4	43.7	46.9
55.9	53.9	51.2	51.9	51.2	51.1	55.8	48.8	46.7	48.8	47.3	48.8	49.7
57.7	55.3	53.1	53.8	54.5	52.8	55.3	53.4	51.9	52.8	53.9	55.9	56.2
60.4	57.7	57.2	57.8	56.3	55.1	54.2	55.5	54.9	54.4	54.8	55.9	58.7
60.8	59.2	58.4	56.4	57.1	53.4	52.1	55.4	52.4	52.7	51.8	53.1	55.5
59	60	58.2	54.1	54.2	51.4	50.9	52.7	50	50.7	49.6	50.4	52.3
56.7	56.6	56.9	53.1	52.8	50.3	50	51.2	48.2	48.6	47.4	47.7	49.3
56.8	55.2	55	52.3	51.3	49.4	48	49.4	46.1	46.1	45.3	45.4	46.5
57.1	54.5	53.5	51.3	50.5	48.7	47	48.6	44.6	43.9	43.6	43.4	44
56.7	54.4	53.3	51.4	50.5	47.9	46.5	46.3	43.3	42	42.1	41.8	41.9
57.4	54.5	52.9	51.2	50.8	47.1	45.5	44.9	41.6	40.2	40.8	40.3	40.4
56.1	52.1	51.8	51	50.4	47.2	45.2	43.7	40.9	39.2	40.1	39.4	38.8
55.8	51.9	51.5	51.7	50.5	47.3	45	43.1	40.7	38.9	39.7	39.2	37.8
55.9	50.8	50.9	50.8	50.5	48.1	45.2	43.7	40.4	38.8	39.6	38.5	37.4
55	50.5	50.1	50.9	50.9	48.1	46.3	44.4	39.8	38.5	39.9	38.4	37.3
56.5	50.6	49.3	51.4	51.1	47	47.6	44.6	39.7	38.6	39.8	39.1	37.8
56.9	50	50.8	51.7	51.9	47.6	47.5	44.3	41.1	39.8	41.1	40.1	39.4
55.9	51.1	51.5	51.7	51.8	48.5	47	43.5	43.9	40.8	42.3	40.5	40.6
55.6	53.6	51.5	50.9	51.7	49.3	47.1	45	45	41.8	42	41.4	42.4
56.2	53.6	53.3	50.3	52.7	49.2	48	45.1	46.1	41.4	41.8	41.6	42.2
57.7	52.3	54.3	51.2	53	49.8	47.3	45	44.9	41.5	41.5	40.8	41
59.5	52.5	52.9	51.2	52.8	49.9	46.9	44.5	43.8	41.8	40.1	40.1	39.5
58.9	52.6	52.9	52.5	52.6	49.2	46.8	43.7	42.5	40.7	38.6	40.1	39.3
57.3	51.2	51	51.8	51.6	49.1	46.1	43.7	41.6	40.7	38.9	40.2	39.5
56.7	50.5	51	50.4	51.2	48.2	45.1	42.6	40.3	40.5	39.5	39.4	39.4
55.6	50.6	51.7	51	51.1	47.2	44.3	42.9	40.3	40.8	41.2	39.4	39.9
55.6	51	50.3	52.7	51.7	47.4	44.4	44.8	41.4	41.2	42.1	39.9	40.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
57.3	49.4	50	53.1	51.7	48.3	44.5	44.7	41.7	40	41.4	39.5	41.1
57.1	49.6	50.3	53.3	52	48.5	44.5	45.2	41.6	38.9	40.1	38.4	39.4
56.6	49.6	50.2	52.8	51.6	48.8	44	43.5	40	37.8	38.8	37	37.5
56.4	49.6	50.7	52.5	51.9	49.3	42.7	41.9	38.5	36.7	37.7	36.8	36.8
57	49.7	50.5	50.8	51.2	48.3	42	41	37.4	36.4	37.5	36.9	36.3
56.4	50.1	49.5	49.7	50.2	48.1	41.2	40.7	37.2	37.1	36.5	37.7	36.1
56.3	50.7	49.1	49.1	49.8	47.4	41.3	40.6	37.2	36.8	36.8	38.1	36.9
56.4	50.3	48	47.8	50.5	47.5	41.7	40.6	36.9	36.6	37	38.1	37.9
56.4	49.1	48.1	47.6	49.7	48	41.6	39.7	36.6	36.7	36.3	37	36.8
56	48.7	48.6	47.8	49.1	46.6	41.1	39.1	36	36.4	35.6	37	36.6
56.9	48.8	48	49.2	48.9	45.2	41.2	39.4	36.1	36.6	35.6	37.1	37.1
56.7	51.6	52.5	53.1	49.7	46.6	41.8	40.7	38.5	38	37.8	39.8	42.4
56.7	50.8	50.9	53.4	49.6	47.5	42.1	41.7	39.8	39.4	40.2	42.2	44.8
56.4	52.7	52	51.6	51.8	47.8	44.5	44.6	41.6	39.9	41.8	45.6	45.1
55.2	53.4	55.2	50.6	51.2	47.6	46.6	43.6	40.4	39.4	40.5	43.4	42.8
53.7	52.1	52.5	51.9	50.9	46.6	44.8	43	38.8	39.2	40.2	42.5	41.9
53.5	52.1	51	51.6	49.5	46.3	43.8	42.7	38.8	39.6	41.5	41.9	40.5
56.4	51.3	49.8	51.3	48.7	45.9	43.7	42.7	39.7	39.2	40.5	41.3	39.5
55.3	49.9	51.7	52.4	47.5	47.1	45.5	41.2	41.6	39.5	40.9	41.1	39.4
54.3	50.1	52.2	51.2	47.2	46.6	46.9	40.7	40.4	43.1	40.6	41.3	39.3
54.3	50.1	50.1	49.7	47.2	46.9	48	39.8	39.2	43.7	40.5	41.3	39.3

42.3	41.1	40.3	37.7	36.7	35.1	33.7	31.8	29.4	26.3	24.4	23.4
42.3	41.1	39.6	37.4	36	34.3	32.8	31	28.8	25.6	23.9	23.3
41.8	40.2	38.7	37	35.3	33.6	31.8	30	27.9	25.1	23.8	23.2
41.5	40.2	38.4	36.9	35	33.5	31.2	29.6	27.4	24.7	23.6	23.2
42	40.8	40	37.2	35.5	33.7	31.3	29.7	27.4	24.8	23.6	23.2
41.2	40.6	41.1	37.3	35.2	33.6	31.2	29.4	26.9	24.5	23.4	23.1
40.7	39.5	38.7	35.7	34.2	32.6	30.4	28.4	26.1	24	23.2	23.1
40.3	39.1	37.4	35.3	33.5	32.5	30	28	25.7	23.8	23.1	23.1
40.4	39.1	37.1	34.9	33.4	32.5	29.8	27.8	25.5	23.7	23.1	23.1
40.1	38.6	36.8	34.9	33.9	32.5	29.9	28	25.6	23.7	23.2	23.1
40.6	38.6	37.1	35.7	34.1	33.1	30.3	28.3	25.8	23.9	23.2	23.1
41.3	40	37.7	36.1	35.1	33.6	30.4	28.6	26	24.1	23.2	23.1
42.5	41	39.7	37.4	36.6	35.3	31.8	29.6	27	24.9	23.5	23.3
42.3	41.3	39.5	37	36.2	35.1	31.3	29.1	26.3	24.4	23.3	23.3
41.8	40.9	39.2	36.8	35.2	34.2	30.6	28.7	26.1	24	23.2	23.2
42	40.8	38.8	36.4	34.3	33.3	29.9	28.2	25.7	23.8	23.1	23.2
41.3	40	38.5	35.8	33.5	32.3	29.1	27.7	25.4	23.4	23	23.1
39.7	38.9	38.3	35.5	33.2	32	28.9	27.6	25.4	23.4	23.1	23.1
38.4	38.4	37.4	35.8	32	31.5	29.3	27.4	25.8	23.8	23.4	23.2
37.3	37.9	36.3	34.3	31.9	30.9	28.8	27.4	25.7	24	23.5	23.4
36.1	36.3	34.8	32.3	31	29.3	27.2	26.5	26.1	23.8	23.5	23.3
35.9	36	34	31.1	29.9	28.5	26.5	26	24.9	23.2	23.1	23
35.8	35.7	33.2	30.5	29.5	28.1	26.2	26	24.3	22.8	22.9	23
36	35.2	33.2	30.4	29.5	28.1	26	25.8	24.2	22.8	22.9	22.9
35.5	35.1	33.3	30.5	30	28.4	26.4	25.7	24.2	22.8	22.8	22.9
35.5	35.2	33.3	30.5	30.3	28.6	26.5	25.9	24.4	22.9	22.9	23
36.3	36.5	33.5	31.4	30.6	29.2	27	26.3	24.3	23	22.9	23
36.5	37.7	34.5	31.8	30.7	29	26.6	26.2	24.1	23	22.9	23
37.1	37.6	35	32.2	30.8	29	26.7	26.4	24.2	22.9	22.9	22.9
37.6	37.4	35.9	32.7	31	30	27.4	26.9	24.6	22.9	22.9	23
37.7	37.6	35.6	32.4	30.6	28.9	26.7	26.2	24.2	22.8	22.7	23
37.9	37.5	35.2	32	30.1	28.6	26.3	25.9	24.1	22.7	22.7	23
37.8	37.4	34.9	31.9	30.1	28.6	26.3	26	23.9	22.6	22.7	23
38	37.7	35	32	30.1	28.6	26.4	26.1	23.9	22.6	22.7	22.9
37.8	37.7	35.8	33	30.7	29.1	26.7	26.2	24	22.7	22.8	22.9
38	37.9	36.5	33.6	31.1	29.3	26.8	26.3	24.1	22.9	22.8	23
39.1	39.3	38.2	35.1	32.4	30.2	27.2	26.6	24.1	22.8	22.9	23
39.7	39.3	38.3	35.5	32.2	29.9	27.2	26.4	24	22.8	22.8	23
40.3	39.7	38.5	35	31.7	29.7	27.4	26.5	24.3	23	22.8	23
39.7	38.9	37.7	34.5	31.6	29.7	27.3	26.6	24.4	23	22.8	23
38.6	37.8	36.7	33.6	30.9	29.3	27.2	26.9	24.3	23	22.7	22.9
38.6	37.6	36.3	33.1	30.7	29.2	27.1	26.9	24.4	23	22.7	22.9
40.6	41.4	39.1	34.9	33	31.7	29	28	25.4	24.1	23.1	23.2
43.2	43.4	40.6	37.8	35.6	35.1	32.2	30.7	28.1	26.5	24.5	23.6
45.1	43.9	41.4	39.1	36.6	35.6	32.9	31	29	26.9	24.7	23.7
43.8	42.4	40.9	38.8	36.3	35	33	31.1	28.9	26.2	24.2	23.5
42.7	41.8	40	38.2	35.6	34.3	32.1	30.2	27.6	25.1	23.6	23.3
41.8	40.8	39	37	34.7	33.2	30.9	29.2	26.3	24.1	23.1	23.1
40.6	40	38	36.1	34.1	32.3	29.9	28.5	25.7	23.8	23	23.1
38.7	39.2	36.9	35	32.9	31.5	29.3	28.1	25.4	23.5	23.1	23
38.1	37.7	35.9	34	32.3	31	29.1	28	25.3	23.4	23.1	23
37.7	37.4	35.8	33.6	32.2	31	29.1	28.2	25.4	23.7	23.3	23.3
38.1	37.4	36.3	34.2	33.1	32	30.6	30.5	28.5	27	26.5	24.9
38.2	37.3	35.7	34.3	32.6	31.5	30	29	26.9	25.2	24.7	23.8
37.9	37.3	35.4	34	32.5	31.3	29.8	28.8	26.4	24.6	23.9	23.5
38.3	38.2	35.7	34.2	32.7	31.4	30.1	28.8	26.1	24.3	23.5	23.3
38.5	38.2	35.7	34.6	32.7	31.5	30.1	28.8	26.1	24.3	23.5	23.2
39.4	39.6	39.2	36.2	35.2	33.5	32.3	30.3	27.9	25.1	23.7	23.2
43.6	42.1	41.6	42.4	37.6	37.5	36.8	35	32.2	29.7	26	24.5
52.7	47.9	45.8	45.7	42	42.2	41.6	39.4	35.7	33.4	28.7	25.7
55	53.9	52.2	50.7	49.2	47.9	47.1	45.5	42	38.7	34.8	30.9
55.4	53.6	53	52.5	48.9	47.7	47.7	45.5	42.8	39.1	34	30.1
52.5	51.3	50.2	49.4	46	44.6	44.3	42.2	39.2	35.7	30.9	27.3
49.7	48.7	47.3	46.3	43.2	41.6	41	38.8	35.7	32.3	28	25.4
46.8	45.9	44.4	43.5	40.6	39.3	38.1	35.9	32.6	29.4	25.9	24.2
44.2	43.7	41.8	40.7	38.2	37	35.5	33.3	30	27	24.6	23.7
42.5	42.1	39.9	38.3	36.4	34.9	33.2	31.1	27.7	25.2	23.8	23.3
40.9	40.4	38.5	36.5	34.9	33.3	31.2	29.4	26.7	25.2	23.8	23.3
39.8	38.9	37.3	35.1	34	32.4	30.2	28.8	26.2	25.2	23.8	23.3
38.9	38.7	37	34.6	33.6	32.2	30	28.8	26.4	25.3	24.1	23.5
38.3	38.7	36.8	34.7	33.3	32.6	30.5	29.3	26.4	25	24.1	23.5
38.3	38.5	36.4	34.8	33.6	32.7	30.5	29.3	26.4	24.9	24.1	23.5
38.5	38.3	36.3	34.7	34	33.3	31.3	30.1	26.7	25.2	24.1	23.5
38.9	38.5	36.4	35.2	34.7	33.9	31.8	30.3	26.9	25.1	24.2	23.5
39.7	39.6	36.9	37.1	35.6	35.5	33.4	31.7	27.6	26.1	24.6	23.7
40.6	40.8	38	37.8	36.9	37.4	34.9	32.3	29	27.4	25.9	24.2
41.3	41.1	39.1	38.3	38	39.3	36.3	33.1	29.7	28.5	27	25.1
41.8	41.2	39	37.7	38.3	39.8	36.4	34	30.2	29	27.2	25.3
41.7	41	38.6	37.7	37	38.8	35.3	32.9	29.6	28.1	26.5	24.8
41	39.9	37.6	36.6	36	37.1	33.4	31.4	28.2	26.8	25.5	24.1
40.3	39.5	37.4	36	35.4	36.2	32.5	30.5	27.6	26.2	25	23.9
40.7	39.5	37.6	36.5	36.1	35.3	31.7	30.1	27.3	25.6	24.6	23.7
41.2	40	37.9	36.4	35.2	34.3	30.8	29.4	26.5	24.9	24.1	23.5
41.7	40.7	38.7	36.8	35.4	34.6	30.9	29.6	26.6	25	24.1	23.4
43.1	42.3	40.6	37.5	34.9	34	30.4	28.8	26	24.6	23.5	23.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
42.7	41.8	40	36	33.5	32.6	29.2	27.8	25.2	23.8	23.1	23.2
40.9	39.6	37.7	34.1	32	31.1	28.2	27	24.7	23.3	22.9	23
39.3	38	36.2	32.9	31.1	30.2	27.5	26.6	24.1	23	22.8	23
38.2	37.4	35.3	32.2	30.6	29.2	26.6	26.3	23.7	22.8	22.7	23
37.7	37.3	34.9	31.9	30.3	28.8	26.4	26.3	23.6	22.7	22.6	23
37.1	36.9	34.6	31.6	30.1	28.6	26.6	26.3	23.6	22.6	22.6	23
37.4	37.2	34.5	31.9	30.4	28.4	26.5	26.2	23.7	22.7	22.7	22.9
37.7	37	34.6	34	32.8	28.7	26.5	26.5	23.8	22.8	22.7	23
36.7	36.4	33.9	32.9	33	29.1	27.1	26.8	24.3	22.8	22.7	22.9
35.9	36.2	33.8	32	31.9	29.3	27.2	27	24.5	22.8	22.7	22.9
36	36.3	34.1	32.1	32.1	29.7	27.4	27.4	24.9	23	22.7	22.9
40.3	39.6	38.4	37.3	35.3	33.4	31.4	30.2	27.4	24.9	23.4	23
41.3	41	39.7	39.2	37.5	35.8	33.9	32.4	29.4	25.9	23.8	23.2
43.1	41.8	40.5	40.6	38.6	37	35.2	34.3	30.7	26.8	24.5	23.3
41.4	40.2	38.3	37.7	36.7	34.4	32.7	32	28.8	25.5	24	23.2
41	39.7	37.6	36.7	35.4	33.6	31.9	30.6	27.3	24.8	23.5	23.1
40.9	39.2	37.1	35.7	34.5	32.4	30.9	29.1	25.9	24.1	23.1	23.1
40	38.4	36.3	34.6	33.4	31.3	29.2	27.6	25	23.3	22.8	23
40.1	38.6	36.3	34.7	33.4	31.3	29.1	27.3	24.8	23.2	22.7	22.9
40.1	39.2	36.9	35.2	34	31.9	29	27.4	24.9	23.2	22.8	23
40	39.1	36.7	35	33.7	31.5	28.7	27.3	24.8	23.1	22.8	22.9

23.7	24.5	1	No	No
23.7	24.6	0.4	No	No
23.7	24.6	0.1	No	No
23.7	24.6	0	No	No
23.8	24.5	0.8	No	No
23.8	24.6	0.8	No	No
24.6	24.6	0.6	No	No
24.8	24.5	0.1	No	No
24.1	24.5	0.3	No	No
23.9	24.6	0.2	No	No
23.8	24.5	0.3	No	No
23.8	24.5	0.1	No	No
23.7	24.5	0.9	No	No
23.6	24.5	0.4	No	No
23.6	24.5	0.7	No	No
23.6	24.5	0.9	No	No
23.6	24.5	2.3	No	No
23.6	24.6	3.6	No	No
23.8	24.6	2.1	No	No
23.9	24.6	3.8	No	No
23.7	24.6	0.8	No	No
23.7	24.6	0.5	No	No
23.6	24.5	0.4	No	No
23.5	24.5	0.2	No	No
23.6	24.5	0.4	No	No
23.6	24.6	0.4	No	No
23.6	24.5	0.3	No	No
23.6	24.6	0.7	No	No
23.6	24.5	1.2	No	No
23.6	24.5	0.9	No	No
23.6	24.5	1	No	No
23.6	24.5	0.6	No	No
23.6	24.5	0.1	No	No
23.6	24.6	0.5	No	No
23.6	24.6	0.2	No	No
23.6	24.6	0.6	No	No
23.7	24.6	1.1	No	No
23.6	24.6	0.4	No	No
23.6	24.5	1.1	No	No
23.7	24.6	1	No	No
23.7	24.6	0.7	No	No
23.7	24.5	0.3	No	No
23.7	24.6	0.1	No	No
23.7	24.6	0.1	No	No
23.7	24.5	3.4	No	No
23.8	24.5	1.5	No	No
23.7	24.6	0.6	No	No
23.7	24.6	2.4	No	No
23.7	24.6	1.6	No	No
23.8	24.6	0.8	No	No
23.7	24.6	0.2	No	No
23.8	24.6	4	No	No
24.3	24.7	0.7	No	No
24	24.6	0.3	No	No
23.8	24.6	0.4	No	No
23.7	24.6	0.1	No	No
23.7	24.6	0.2	No	No
23.8	24.6	-0.4	No	No
24.3	24.6	0	No	No
24.4	24.6	0.5	No	No
27.5	25.1	2.4	No	No
27	25.2	5.6	No	No
25.4	24.8	6.2	No	No
24.4	24.7	6.5	No	No
24	24.6	4.5	No	No
23.9	24.6	3.5	No	No
23.7	24.5	1.8	No	No
23.7	24.5	1	No	No
23.7	24.6	3	No	No
23.8	24.6	1.2	No	No
23.8	24.6	0.4	No	No
23.7	24.6	0	No	No
23.7	24.6	0.8	No	No
23.7	24.6	0.3	No	No
23.8	24.6	0.4	No	No
24.1	24.7	0.8	No	No
24.4	24.8	0.5	No	No
24.4	24.7	1	No	No
24.2	24.7	0.2	No	No
24	24.6	0.7	No	No
23.9	24.6	0.2	No	No
23.8	24.5	0.6	No	No
23.8	24.6	0.6	No	No
23.7	24.5	0.9	No	No
23.8	24.5	0.9	No	No

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.7	24.5	0.4	No	No	
23.7	24.5	1	No	No	
23.7	24.5	1.6	No	No	
23.7	24.6	0.3	No	No	
23.6	24.6	0.9	No	No	
23.7	24.6	0.2	No	No	
23.8	24.6	0	No	No	
23.7	24.5	1.8	No	No	
23.6	24.5	0.2	No	No	
23.7	24.5	0.5	No	No	
23.6	24.5	0.2	No	No	
23.7	24.5	0.9	No	No	
23.7	24.5	0.4	No	No	
23.7	24.5	1.9	No	No	
23.6	24.5	0.6	No	No	
23.6	24.5	1	No	No	
23.6	24.5	1.4	No	No	
23.6	24.5	1.1	No	No	
23.6	24.6	1.1	No	No	
23.6	24.6	0	No	No	
23.6	24.6	0.2	No	No	

317		11/19/2021	1:27:47 PM	49.2	60.7	49.3	49.2	98.4	13	62.4	58	60.2	58.7	52.2	48.9	47.6	44.3	40.2
318		11/19/2021	1:27:48 PM	49.0	60.7	49.2	49.0	98.1	12.9	57.6	58.4	63	59.4	51.2	48.4	47.1	43.8	40.3
319		11/19/2021	1:27:49 PM	49.2	60.7	49.2	49.1	98.1	12.5	61.1	57	61.6	58.2	51.1	47.8	47.2	44.2	41.8
320		11/19/2021	1:27:50 PM	48.8	59.7	49.1	48.9	98.1	13.6	54.5	58.2	60.8	57.7	51.4	48.2	46.5	44.5	39.7
321		11/19/2021	1:27:51 PM	48.8	60.7	49.0	48.8	98.4	12.5	53.2	57.1	61.5	58.1	50.5	48.6	46.7	44.1	40.1
322		11/19/2021	1:27:52 PM	49.5	60.7	49.3	48.9	98.1	13.3	50.6	55.3	61.5	57.4	51.6	49.4	47.6	44.5	40.8
323		11/19/2021	1:27:53 PM	50.2	60.7	49.9	49.3	98.3	12.4	53.0	57.1	63.5	58.4	52.3	50.1	48.6	44.9	41
324		11/19/2021	1:27:54 PM	49.8	62.1	50.0	49.8	98.3	12.2	52.3	59.7	61.8	58.1	53.7	49.2	48	45	41
325		11/19/2021	1:27:55 PM	50.4	62.1	50.3	49.8	98.1	11.6	52.0	57.6	62.2	57.5	53.6	49.4	48	46.6	40.9
326		11/19/2021	1:27:56 PM	50.5	63.2	50.5	50.2	98.1	11.9	47.9	58.2	62.8	58.4	51.8	51.2	47.9	46.9	40.9
327		11/19/2021	1:27:57 PM	51.4	64.5	51.2	50.3	98.3	11.1	51.1	58.4	60.9	57.7	53.8	51.2	49	47.4	40.6
328		11/19/2021	1:27:58 PM	52.5	64.5	52.0	51.2	98.1	10.2	50.2	58.3	60.6	57	54.9	53.4	49.7	48.9	40.8
329		11/19/2021	1:27:59 PM	50.5	63.2	52.0	51.0	98.1	11.9	54.6	57.3	61.9	57.9	57	50.7	47.9	47.3	38.1
330		11/19/2021	1:28:00 PM	50.2	63.2	51.0	50.4	98.4	13.5	54.8	54	61.4	58.4	55.1	50.9	47.7	46.9	36.8
331		11/19/2021	1:28:01 PM	48.9	59.7	50.4	49.5	98.1	13.6	56.6	53.3	64.9	58.2	54.8	49.9	46.6	44.8	36
332		11/19/2021	1:28:02 PM	51.9	72.0	51.5	49.6	98.1	12.3	48.9	56.2	63.8	58.6	55.5	51.8	47.7	48.5	40.8
333		11/19/2021	1:28:03 PM	54.8	66.9	54.2	51.5	98.4	10.2	51.6	55	63.2	59.3	59.8	58.5	51.6	49.5	38.7
334		11/19/2021	1:28:04 PM	56.9	68.6	56.2	54.2	98.3	8.4	48.7	52.9	62.8	56.7	59.8	58.7	52.8	54.9	41.9
335		11/19/2021	1:28:05 PM	54.4	66.2	56.1	55.0	98.3	10.2	49.7	53.6	62.4	58.5	58.6	55.4	52.3	51.8	39.2
336		11/19/2021	1:28:06 PM	53.0	67.3	54.9	53.8	98.1	11.6	48.4	52.2	62.5	57.4	59.3	54.5	49.1	48.7	41
337		11/19/2021	1:28:07 PM	57.5	71.1	56.9	54.1	98.3	8.2	49.6	52.3	63	55.9	60.3	57.1	55.7	54.1	41.1
338		11/19/2021	1:28:08 PM	56.9	69.7	57.1	56.5	98.5	9.4	52.5	55.6	65	56.5	62.1	59.3	54.7	51.5	39.9
339		11/19/2021	1:28:09 PM	57.2	72.1	57.6	56.9	98.1	9.2	51.2	54.2	63.4	58.5	61.3	59.9	54.5	52.9	40.3
340		11/19/2021	1:28:10 PM	59.9	73.0	59.3	56.9	98.1	8.1	51.6	55.4	61.5	57.3	62.3	62.4	58.2	53.4	43.9
341		11/19/2021	1:28:11 PM	59.4	71.8	59.9	59.0	98.1	8.3	51.0	57.4	63.8	59	63.4	62.5	59.6	53.3	42.4
342		11/19/2021	1:28:12 PM	58.1	69.5	59.0	58.5	98.1	8.7	52.6	54.1	62.8	57.7	62.2	59.3	57.3	53.3	42.2
343		11/19/2021	1:28:13 PM	60.0	74.9	60.0	58.2	98.1	8.1	50.0	50.6	64.5	56.7	63.1	60.5	58.3	55.8	46.2
344		11/19/2021	1:28:14 PM	60.4	73.8	60.4	60.0	98.1	8.7	54.5	54.7	63.5	58.6	65.8	60.6	59.4	56.4	47.5
345		11/19/2021	1:28:15 PM	60.2	73.0	60.2	60.0	98.1	8.9	54.1	53.1	64.7	62.6	64.9	62.8	58.6	55.2	46.8
346		11/19/2021	1:28:16 PM	60.4	73.2	60.5	59.9	98.3	9.5	50.0	54.1	64.3	65.5	65.5	61.6	58.9	55.5	48.1
347		11/19/2021	1:28:17 PM	59.5	72.2	60.6	59.8	98.1	11.2	49.7	56.2	62.1	66.6	65.9	62.0	58	54.2	47
348		11/19/2021	1:28:18 PM	60.5	72.6	60.5	59.6	98.1	10.4	50.7	57.5	62.9	66.9	65.3	63.0	58.9	54.6	48.8
349		11/19/2021	1:28:19 PM	62.8	74.9	62.3	60.5	98.1	8.5	50.4	56	62.6	65.9	66.7	66.4	60.6	57	52.5
350		11/19/2021	1:28:20 PM	63.0	76.6	62.8	62.3	98.1	8.5	52.6	56.7	62.3	63.4	67.3	65.0	61.8	57.8	51.6
351		11/19/2021	1:28:21 PM	63.7	76.3	63.7	62.8	98.1	7.6	50.2	56.8	63.1	65.5	67	66.2	62.8	59.2	50.9
352		11/19/2021	1:28:22 PM	62.1	76.3	63.4	62.5	98.1	8.8	46.5	55.7	63	62.6	66.9	65.1	58.9	56.9	52.7
353		11/19/2021	1:28:23 PM	59.9	72.3	62.8	61.1	98.4	9.4	48.4	56.3	61.5	61.7	66.9	63.1	55.8	56	48.9
354		11/19/2021	1:28:24 PM	61.3	73.6	61.3	60.8	98.1	8.3	52.5	56.6	63.3	60.6	65.9	63.0	56.8	58	51.1
355		11/19/2021	1:28:25 PM	61.1	74.6	61.5	60.2	98.1	8.4	52.8	55.2	63.8	60.8	66.3	61.3	57.7	58	48
356		11/19/2021	1:28:26 PM	59.7	74.5	61.7	60.3	98.1	9.7	48.6	53.7	62.9	64	66.8	59.3	58.1	55.6	49.6
357		11/19/2021	1:28:27 PM	58.7	71.5	60.2	59.2	98.3	9.3	52.5	54	63.3	61.2	64.3	58.8	55.5	54.8	49.3
358		11/19/2021	1:28:28 PM	58.7	71.9	59.7	58.8	98.3	8.6	55.8	57.5	61.9	60.1	64.2	57.9	57.5	54	49.1
359		11/19/2021	1:28:29 PM	58.2	72.2	58.8	58.4	98.1	8.8	55.7	55.9	63.5	61.7	61.5	57.7	57.4	53.7	46.4
360		11/19/2021	1:28:30 PM	58.1	74.0	58.8	56.9	98.1	9.3	56.2	56.2	62.7	60.3	63.4	58.7	56.6	53.3	42.9
361		11/19/2021	1:28:31 PM	59.6	71.7	59.3	58.8	98.1	10.1	53.9	55.8	63.5	63.3	64.8	62.7	58.8	53.4	43.6
362		11/19/2021	1:28:32 PM	60.2	75.9	60.8	59.3	98.1	8.7	53.1	54.6	63.2	62.2	65.1	63.6	59.2	55.4	44.5
363		11/19/2021	1:28:33 PM	56.5	70.0	59.3	57.8	98.1	9.8	58.6	54.9	63.8	60.3	61.9	58.5	55.8	50.9	42.5
364		11/19/2021	1:28:34 PM	53.9	65.7	57.7	55.8	98.1	11.9	51.0	55.9	62.4	59.4	61.6	55.5	51.6	48.9	41.7
365		11/19/2021	1:28:35 PM	55.3	67.7	55.8	55.3	98.1	11	54.5	54.9	64.6	61.7	61	57.5	55.1	48.6	40.6
366		11/19/2021	1:28:36 PM	56.5	70.2	56.6	55.0	98.1	9.2	56.0	52.3	62.9	60.1	59.2	56.3	57.6	50.3	41.5
367		11/19/2021	1:28:37 PM	53.6	69.2	56.4	54.9	98.1	11	50.2	57.4	63.1	61	58.6	53.3	55.5	45.3	38.3
368		11/19/2021	1:28:38 PM	57.3	70.7	57.0	54.8	98.1	7.9	56.5	54.3	63.5	60	57.8	55.0	57.7	53	40.6
369		11/19/2021	1:28:39 PM	49.8	62.1	56.5	53.6	98.1	13.7	50.0	54.6	62.7	60	56.8	51.5	47.1	45	39.2
370		11/19/2021	1:28:40 PM	49.7	61.5	53.6	51.6	98.4	13.2	51.2	56.3	62.5	58.8	56.2	50.6	46.4	45.6	37.1
371		11/19/2021	1:28:41 PM	50.4	63.2	51.7	50.8	98.1	13.1	58.8	55.7	62	59.9	55.5	49.9	45.8	45.9	43.4
372		11/19/2021	1:28:42 PM	53.3	74.3	53.1	50.7	98.1	10.3	54.2	56.5	62.8	59.3	55.8	52.5	49.1	46.3	44.5
373		11/19/2021	1:28:43 PM	51.9	77.4	53.0	52.3	98.1	12	56.6	55.5	64	59.2	56.5	51.5	48.4	45.3	40.8
374		11/19/2021	1:28:44 PM	48.8	63.2	52.4	50.4	98.1	14.7	53.5	55.2	62.7	60	56.5	50.8	46.5	43.6	35.4
375		11/19/2021	1:28:45 PM	47.6	62.1	50.3	48.9	98.1	16	54.5	54.7	63.6	59.8	57.4	49.4	45.1	41.5	34.2
376		11/19/2021	1:28:46 PM	47.5	58.4	48.9	48.1	98.0	16	45.8	56.4	63.6	59.1	56.5	49.5	43.9	41.4	33.9
377		11/19/2021	1:28:47 PM	47.2	59.7	48.1	47.5	98.1	15.7	53.7	56.5	63.6	58.3	56.7	49.0	44.4	41.3	33.5
378		11/19/2021	1:28:48 PM	48.8	61.5	48.6	47.6	98.0	14.8	52.0	54.6	62.4	59.5	56.8	51.4	47.9	42.8	33.9
379		11/19/2021	1:28:49 PM	49.6	63.2	49.4	48.6	98.1	13.7	51.1	59.1	62.5	58.6	55.7	50.9	48.5	44.5	33.8
380		11/19/2021	1:28:50 PM	52.3	64.5	51.4	49.4	98.1	12.4	59.9	58.4	61	59.8	57.2	50.2	53.2	46.4	34.1
381		11/19/2021	1:28:51 PM	50.3	61.5	51.3	50.7	98.1	13.6	64.1	55.9	62.2	61.5	57.7	48.7	49.9	44.5	34.4
382		11/19/2021	1:28:52 PM	49.7	61.5	50.8	50.0	98.1	13.8	62.0	58.8	61.9	59.3	55.6	48.6	49.7	43.1	34
383		11/19/2021	1:28:53 PM	47.5	60.7	50.0	48.5	98.1	16.2	62.1	58.1	63.2	60.1	56.4	48.0	45.4	42.5	34.2
384		11/19/2021	1:28:54 PM	47.8	59.7	48.5	48.0	98.1	15.4	61.5	57.3	63	57.8	58	47.4	43.1	40.4	35.5
385		11/19/2021	1:28:55 PM	47.8	58.4	48.1	47.9	98.1	16.2	60.6	56.5	62.8	59.1	57	51.1	44.9	41.5	34.6
386		11/19/2021	1:28:56 PM	47.4	59.7	48.1	47.5	98.1	15.6	62.2	57.4	63.7	58.6	55.9	46.5	46	41	35.6
387		11/19/2021	1:28:57 PM	46.9	62.1	47.5	47.1	98.1	17	65.6	57.9	63.4	60.4	55.6	45.3	44.4	41.2	35.5
388		11/19/2021	1:28:58 PM	48.1	62.1	47.9	47.2	98.3	14.7	65.1	59.4	63.7	57.8	56.4	46.5	47.9	41	35.1
389		11/19/2021	1:28:59 PM	50.1	62.7	49.7	47.9	98.0	13.1	66.4	61.4	61.1	57.9	56.4	48.8	50.2	43.7	36
390		11/19/2021	1:29:00 PM	47.6	59.7	49.7	48.4	98.1	16.1	66.4	60.9	61.6	58.9	57.2	47.1	46	42.2	35.7
391		11/19/2021	1:29:01 PM	48.7	66.2	49.1	48.2	98.1	14.5	63.2	62.4	63.6	58.4	56.4	46.1	45.7	43.1	40.8
392		11/19/2021	1:29:02 PM	46.5	59.7	48.4	47.4	98.1	16.8	63.8	59.3	62.1	58.2	55	46.0	43.4	41.1	37
393		11/19/2021	1:29:03 PM	49.0	62.1	48.6	47.3	98.1	14.4	64.2	62.4	62.7	59.2	54.7	47.8	47	44.4	39.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
394		11/19/2021	1:29:04 PM	47.2	58.4	48.6	47.7	98.1	15.4	67.5	60.5	63.2	59	54.9	46.0	46	42	37.2
395		11/19/2021	1:29:05 PM	45.2	56.7	47.7	46.3	98.0	17.2	63.5	59.9	62.3	56.7	53.5	43.7	41.2	40.3	35.4
396		11/19/2021	1:29:06 PM	45.4	53.7	46.3	45.7	98.0	18.4	63.5	61.3	64	58.7	54.7	44.0	41.6	40.3	35
397		11/19/2021	1:29:07 PM	45.8	58.4	46.0	45.7	98.1	17.5	68.1	59.9	63.1	59.3	53.3	45.2	42.6	40.7	35.3
398		11/19/2021	1:29:08 PM	46.6	60.7	46.4	45.8	98.1	17.5	62.5	61.7	64.1	58.9	54.9	48.3	41.7	41.2	36.2
399		11/19/2021	1:29:09 PM	45.7	58.4	46.2	45.8	98.1	19.3	65.9	62.2	63.1	58.6	52.9	46.2	41.2	40.8	36
400		11/19/2021	1:29:10 PM	46.5	56.7	46.3	45.9	98.1	17.8	71.1	66.6	63.2	60.4	54.5	47.1	41.3	41.2	36
401		11/19/2021	1:29:11 PM	47.4	58.4	47.0	46.3	98.0	16.1	72.7	65.8	63	58.1	53.3	47.3	43	43.5	37.4
402		11/19/2021	1:29:12 PM	46.9	59.7	47.2	46.9	98.1	16.8	73.7	65.6	62.2	61	54.1	46.4	42.8	42.5	37.2
403		11/19/2021	1:29:13 PM	46.1	56.7	46.9	46.4	98.1	18.1	67.6	62	63.8	59.1	53.5	45.3	41.6	41.6	37
404		11/19/2021	1:29:14 PM	46.3	58.4	46.4	46.3	98.1	17.4	70.7	63.5	63.4	60.1	52.9	44.9	41.1	42.4	37
405		11/19/2021	1:29:15 PM	46.9	56.7	46.7	46.4	98.1	16.1	68.8	61.4	63.4	58.7	53.6	44.0	42.6	43.1	37.6
406		11/19/2021	1:29:16 PM	46.3	56.7	46.7	46.4	98.1	17.6	68.3	58.8	61.9	59.8	52.8	44.9	42.1	42.4	37.3
407		11/19/2021	1:29:17 PM	46.5	56.7	46.6	46.4	98.1	18.5	65.6	56.7	65.6	60.1	52.8	44.3	42.3	42.3	37.5
408		11/19/2021	1:29:18 PM	46.6	58.4	46.7	46.3	98.1	18.9	62.3	56.3	65.8	60.7	52.7	44.8	41.8	42.2	37.2
409		11/19/2021	1:29:19 PM	48.7	60.7	48.2	46.7	98.1	16.5	56.8	61.8	65.5	58.8	52.9	45.9	45.9	44	41
410		11/19/2021	1:29:20 PM	49.0	60.7	48.8	48.2	98.1	14.9	58.6	62.4	66.9	58	54.1	48.3	45.4	44.5	41
411		11/19/2021	1:29:21 PM	49.6	61.5	49.4	48.8	97.9	13.6	56.6	53.4	64.4	58.4	52.2	49.3	46.7	44.7	41.9
412		11/19/2021	1:29:22 PM	50.5	62.7	50.1	49.4	98.1	13.6	56.1	56.9	64.4	61.1	53.1	50.1	47.2	45.6	42.9
413		11/19/2021	1:29:23 PM	51.1	66.0	50.8	50.1	98.1	15.3	59.8	58.1	62.3	63.1	53.9	50.3	47.3	46.2	42.4
414		11/19/2021	1:29:24 PM	56.9	81.8	55.6	50.8	98.1	10.8	56.0	56.1	63.1	68	53.6	50.1	48.1	49	52.5
415		11/19/2021	1:29:25 PM	50.5	68.1	55.1	52.7	98.1	15.2	58.7	54.5	61.8	64.1	53.1	50.4	46.8	46	41.4
416		11/19/2021	1:29:26 PM	48.6	59.7	52.7	50.6	98.1	16.7	56.5	57.6	63.9	65.4	52.3	49.1	46	43.6	39.8
417		11/19/2021	1:29:27 PM	48.4	58.4	50.6	49.3	98.1	15	53.5	55.2	62.8	62.4	52.2	48.4	46.2	43.6	39.8
418		11/19/2021	1:29:28 PM	48.4	59.7	49.3	48.8	98.1	15	54.5	54	61.8	59.6	52.7	48.5	45.8	43.7	39.7
419		11/19/2021	1:29:29 PM	49.0	58.4	49.0	48.8	98.0	13.7	56.1	56.8	64.4	58	57.1	48.3	46.7	43.6	39.9
420		11/19/2021	1:29:30 PM	48.8	59.7	49.0	48.8	98.1	13.5	52.3	55.5	62.1	58.6	53.8	48.0	47.1	44	39.8
421		11/19/2021	1:29:31 PM	49.0	60.7	49.0	48.9	97.9	14.9	54.3	55.8	62.1	60.5	53.4	48.5	46.5	44.4	40.5
422		11/19/2021	1:29:32 PM	48.5	61.5	48.9	48.7	98.0	14.6	51.1	55.9	62.5	60.6	52.9	48.8	46.2	43.9	39.7

34.2	28.4	28.4	61.4	58.8	66.2	59.1	53.3	49.2	47.5	44.5	40.2	34.4
34.5	28.5	28.6	61.4	58.3	63.8	59.2	52.6	48.7	47.5	44.4	40.4	34.5
34.4	28.6	28.5	61.7	58.3	63	59.2	52	48.7	47.3	44.3	41.5	34.5
34	28.3	28.4	59.9	58.2	62.3	58.7	51.8	48.5	47.2	44.5	41	34.3
34.3	28.5	28.5	57.5	58.1	62.1	58.7	51.2	48.6	46.9	44.5	40.3	34.2
34.3	28.6	28.5	55.6	57.3	61.7	57.9	51.4	49.3	47.4	44.5	40.8	34.3
34.9	28.8	28.5	53.4	57.1	63.6	58.3	52.1	50	48.2	44.8	40.9	34.7
34.2	28.4	28.6	53	59.1	62.3	58.3	53.7	49.8	48.4	45	41	34.7
34.3	28.6	28.5	53	59.1	62.7	58.1	53.6	49.5	48.2	46.2	41	34.4
34.1	28.6	28.5	52.7	59.2	63	58.7	53.1	50.7	48.3	46.7	41	34.3
34.2	28.7	28.5	51.4	58.9	63	58.4	53.6	51.2	48.9	47.3	40.8	34.3
34.3	28.7	28.5	51.7	58.5	62.1	58.1	54.5	52.5	49.5	48.3	40.8	34.3
32.7	28.7	28.6	53.7	58.6	62	57.9	56.3	52.6	49.4	48.5	40.8	34.3
32.9	29.5	28.6	54.9	57.9	62.1	58.5	56.3	52	48.3	47.9	39.2	33.5
32.6	29.2	28.7	57.1	55.7	63.8	58.8	55.8	50.7	48.1	46.9	37.8	33.1
40.2	34	30.1	55.2	56.2	64.2	58.5	55.6	51.4	47.8	48	40.7	40
35	29.2	28.6	52.7	55.7	64.2	59.2	58.7	57.4	50.9	49.5	40.4	39.6
35.8	29.7	28.6	51.9	55.1	63.5	59	59.8	58.6	52.4	53.8	41.4	37.4
34.4	28.9	28.5	50.9	53.9	63.1	58.3	59.4	58	52.7	53.7	41.2	36.5
34.3	29.3	28.6	49.8	54	62.9	58.2	59.6	56.5	52	52.5	41.1	35.3
34.9	29.8	28.7	50.3	53.1	63	57.8	60.1	56.8	54.9	53.5	41	35
34.2	31	29.4	51.7	55.2	64.3	56.8	61.6	58.7	55.4	53.6	41	34.8
33.9	29.5	28.8	52.2	55	64.4	58	62	59.8	55.5	53.4	40.4	34.6
37.3	29.9	28.6	52.6	55.4	63.8	58.3	62.1	61.8	57.3	53.2	43.2	37.2
32.5	28.7	28.5	51.8	57.1	63.5	59	63.1	62.9	59.1	53.7	43.1	36.8
32.2	28.6	28.6	52.7	56.5	63.8	59.4	63	61.8	58.5	53.6	42.5	34.7
32.3	28.8	28.6	52.5	55.2	64.1	57.9	63.2	60.9	58.3	55.6	45.8	33.2
32.1	28.5	28.5	53.9	54.6	64.1	58.6	64.7	60.9	59.2	56.5	47.1	32.8
32.4	28.3	28.6	54.6	53.8	64.5	61.8	65.1	62.2	58.9	55.9	47.2	32.4
33	28.3	28.5	53.3	54.1	64.7	64.7	65.3	62.2	59	55.7	47.9	32.9
33.5	28.3	28.5	51.4	55.7	64.5	66.5	66	62	59.1	56	48.3	33.5
32.5	27.9	28.5	51.5	57.1	63.3	67.3	65.8	63	58.9	54.8	48.6	33.5
32.6	27.9	28.5	51	57.4	63	67.5	66.6	65.7	60.4	56.5	51.8	32.8
33	27.9	28.5	52.9	56.9	63.1	65.6	67.3	65.9	61.4	57.4	52.2	33.2
32.6	28.1	28.5	51.9	56.8	63.2	65.5	67.4	66.4	62.6	58.9	51.6	32.8
33	27.7	28.6	50.6	56.9	63.2	64.9	67.2	65.6	62.2	58.6	52.7	33
32	27.9	28.4	48.7	56.4	63.1	64.1	67.3	65.2	60.5	58.1	52.7	32.8
35.2	29.9	28.7	51.7	57.2	63.3	62.4	66.8	64.1	58	57.7	51	34.8
32	28	28.5	53.6	56.4	64.1	61.5	66.5	63.5	58.1	58.3	51.1	34.7
32.6	28	28.5	51.4	55.8	63.4	63.5	66.8	62.5	58.9	58.7	49.8	33.4
31.3	28	28.6	52	55.3	63.5	63	66.5	60.6	57.6	56.5	49.8	32.8
32.7	28	28.6	55.1	57.1	63.5	62.2	65.6	59.7	57.6	55.7	50.1	32.6
31.6	28.2	28.6	55.9	56.7	63.7	61.7	64.3	58.4	57.5	54.5	49	32.2
32.4	28.1	28.5	56.1	56.8	63.1	61.5	63.7	59	57.5	54.1	47.4	32.4
31.6	28	28.5	56	56.3	63.7	62.9	64.3	61.5	58.7	54.4	45.5	32.1
33.6	29	28.5	54.9	56.2	63.6	63.6	65	63.2	59.8	55.9	45	33.2
31.3	28.4	28.5	57.6	55.7	63.8	62.1	64.7	62.6	58.1	54.1	44	33.2
36.9	32.9	29.2	57.3	55.9	63.7	61	63	60.4	56.9	52.4	43.2	36.3
35.6	36.3	29.8	54.9	55.6	64.3	61.3	62.2	58	55	50.5	42.4	36.8
39.5	39	33	56.2	55.4	64.3	61.3	61.6	58.2	57.2	50.6	42	39.3
34.5	30.4	28.8	55.2	56.6	63.8	61.1	59.9	56.7	57.2	50.4	41.8	39.1
32.3	28.9	28.6	56	56	63.7	60.7	59.2	55.2	57.7	52.3	40.8	36.9
34.8	28.6	28.6	56	55.6	63.5	60.5	58.5	55.1	57.1	51.8	40.5	34.9
32.5	28.4	28.5	53.3	56.3	63.6	60.4	57.4	53.2	53.5	48.8	39.6	34.9
34.9	30.5	29	58.1	56.4	62.5	59.8	56.7	51.7	50.5	47.5	42.2	34.7
43.9	43.8	39.3	58.2	56.8	63	59.9	56.1	52	48.9	46.8	44.7	43
43.8	42.3	35.9	56.7	56.3	63.9	60	56.4	52.3	48.9	47	44.7	44.8
36.1	35	31.3	56.1	56.1	63.4	60	56.6	51.9	48.8	46	42.4	43.5
31.9	28.5	28.6	55.4	55.8	63.7	59.9	57.2	51	47.2	44.4	39.3	40.1
32.9	31	28.8	54.5	56.3	63.7	60	57.2	50.1	46.1	42.8	36.9	37
32.3	28.4	28.5	53.3	56.6	64	59.5	57.3	50.1	44.8	42.2	35.2	34.6
31.2	28.6	28.7	53.1	56.4	63.6	59.3	56.8	50.8	47.3	42.3	34.2	33.5
34.8	29.6	28.6	52.7	58.5	63.1	59.5	56.6	51.2	48.2	44.3	34	34.5
33.3	30.1	28.7	58.4	58.8	62.8	59.7	56.9	50.7	52	45.7	34.1	34.3
34.2	31.5	28.6	62.9	58.4	62.4	61.1	57.5	50.3	51.9	45.6	34.3	34.6
36	33	29.2	63.1	58.4	62.1	60.6	57.4	49.4	50.8	45.3	34.3	36.3
33.7	32.7	30.4	62.7	58.5	63.1	60.3	56.8	48.9	49.9	43.9	34.3	35
35.2	37.2	33.9	62.3	58.2	63	60.3	57.8	48.4	47.5	42.7	35.2	35.4
31.6	29.2	28.7	62.3	58.2	63.2	59.2	57.7	50.4	45.5	41.8	35	34.7
33.1	31.9	29.2	62.5	57.7	63.6	59.6	57.3	50.3	46.2	41.5	35.4	33.4
32.9	31.6	29.2	65.5	58	63.6	60	56.3	48.3	45.4	41.2	35.6	33.4
31.7	28.4	28.5	66.6	59.1	64.4	59.8	56.5	47	47.4	41.2	35.7	33
31.9	28.2	28.6	66.4	60.5	63.7	58.6	56.7	48.2	49.7	43.1	35.9	32.3
32.1	28.6	28.7	67	61.4	62.2	58.9	57.2	48.5	49.8	43.2	35.9	32.2
34.6	29.1	28.9	66	62.4	63.2	59	56.9	47.4	47.6	43.1	39.7	34.3
32.4	29.4	28.7	64.8	61.8	63.4	58.5	56.6	46.7	46.2	42.9	39.4	33.5
32.8	28.3	28.5	64.9	62.2	63	59.4	55.6	47.5	46.4	43.8	39.1	32.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
33	28.5	28.5	66.6	61.3	63.2	59	55.7	47.6	46.8	43.8	39.1	33
31.8	28.1	28.6	66.4	61.4	63.1	59	54.8	46.2	45.9	42.6	37.9	33
32	28.4	28.6	65.6	61.8	63.8	58.5	54.7	44.9	43.7	41.2	36.5	32.2
31.8	28.3	28.5	67.8	60.7	63.8	59.2	54.5	45.1	42.8	41	35.6	32.1
32.4	28.4	28.5	67.1	61.9	64.3	59.4	54.6	47.5	43	41.5	36.1	32.4
32.2	28.3	28.5	66	62.7	63.6	59.2	54.5	47.5	41.9	40.9	36	32.3
32.6	28.6	28.5	70.7	65.7	63.7	60.4	54.6	47	41.8	41.1	36.1	32.6
32.1	28.3	28.5	73	66.2	63.7	59.9	54.1	47.4	42.6	42.8	37.1	32.4
32.8	28.3	28.6	74.3	67.2	63.1	60.4	54.1	47.3	43.1	43	37.3	32.7
32.4	27.9	28.5	73.1	64.9	63.6	60.2	54.3	46.7	42.6	42.5	37.2	32.6
32.1	28.1	28.6	71.8	63.9	64	60.1	53.6	45.7	42	42.3	37.1	32.5
32.4	28.1	28.5	70.9	64.3	64.1	60.1	53.5	45.1	42.2	42.9	37.4	32.4
31.9	27.9	28.5	70.1	62	63.3	60.1	53.4	44.9	42.3	42.9	37.4	32.3
31.9	27.8	28.5	68.4	60.2	65.2	59.9	53.1	44.8	42.4	42.7	37.5	32
32.2	27.8	28.5	67.1	58.4	66	61.5	53.1	44.8	42.5	42.4	37.4	32.2
34.2	28.1	28.4	64.9	61.1	65.8	60.1	53.4	45.7	45.1	43.6	40.3	33.7
35.1	29.1	28.6	61.9	62.3	66.6	59.4	53.7	47.4	45.5	44.2	40.8	34.6
35.9	29.5	28.6	60	61.7	66.5	58.5	53.7	48.7	46.3	44.6	41.6	35.6
37.7	31.5	28.7	58.5	58.4	65.8	60.7	53.4	49.8	47	45.4	42.4	37.1
38.3	37.6	33.7	59.3	58.4	64.4	62.6	53.9	50.2	47.1	45.9	42.5	38
49.9	44.3	36.1	59.5	58.1	63.8	66.8	53.8	50.4	48	48.1	51.3	47.9
38.7	35.7	30.1	59.2	56.8	63	66.8	53.7	50.4	47.6	47.8	49.9	47.8
35.1	29.2	28.5	59.4	57.4	63.7	66	53.2	50.5	47.1	46.6	46.5	44.2
34.8	28.7	28.5	57.2	57.1	63.5	65.1	53	49.5	46.5	44.9	43.6	40.8
34.9	28.9	28.5	55.7	56.1	62.8	63.5	53.1	48.9	46.3	44.3	41.6	38.1
34.8	28.9	28.5	55.8	56.2	64.2	61.5	56.4	48.8	46.6	44	40.5	36.4
34.7	28.8	28.6	55.5	56.9	63.9	59.6	56.2	48.6	47	44.1	40.1	35.4
34.8	29	28.5	54.7	55.9	62.9	60.4	54.8	48.5	46.9	44.3	40.3	35
34.4	28.7	28.5	54.7	56.1	63	60.6	54	48.8	46.6	44.4	40.3	34.9

28.5	28.5	56.9	57.8	63.3	57.9	52.7	48.7	47.1	44.2	40.1	34.2	28.4
28.5	28.5	59.4	57.7	62.9	58.1	51.6	48.2	47.1	44	40.1	34.3	28.4
28.5	28.5	59	57.3	62.1	58.3	51.3	48	46.9	43.8	40.4	34.3	28.4
28.5	28.5	57.5	57.5	61.4	58	51.2	48.1	46.8	44.1	40.3	34.1	28.4
28.5	28.5	55.4	57.3	61.3	57.8	50.7	48.1	46.6	44.1	40.1	34.1	28.4
28.6	28.5	53.1	56.1	61.1	57.1	50.6	48.4	46.8	44.1	40.1	34.2	28.4
28.8	28.5	52.7	56	61.6	57.5	51.3	49.2	47.2	44.3	40.7	34.2	28.5
28.8	28.5	51.6	57.1	61.6	57.7	52.2	49.3	47.9	44.8	40.8	34.4	28.5
28.6	28.6	52.1	57.5	61	57.2	52.7	49	47.7	44.9	40.8	34.3	28.5
28.6	28.6	50.4	58	61.3	57.6	52.2	49.4	47.8	46.2	40.8	34.2	28.5
28.7	28.6	49.3	57.9	61.7	57.9	52	50.6	47.7	46.4	40.7	34.2	28.5
28.7	28.6	50.4	57.7	61	57	53.4	51.1	49	47.3	40.7	34.1	28.6
28.7	28.6	50.4	57.5	60.8	57.3	54.5	51.3	48.3	47.5	39.2	33.3	28.5
29.2	28.7	53	55.8	61.1	57.3	55.5	50.8	47.5	46.9	37.8	33	28.8
29.4	28.7	55	54.2	61.5	58	54.9	50.1	47	45.7	36.8	32.8	29
33.8	30	52.5	54.7	63.2	57.8	54.5	50.4	46.8	45.8	36.6	32.5	28.9
33.6	29.9	51.8	54.8	63.4	58.2	55.5	51.3	47.7	47.3	39.2	37.5	31.4
31.4	29.1	50.3	53.8	63	57.6	58.4	57.5	51	49.6	39.5	36.5	30.4
30.4	28.8	49.6	52.9	62.5	57.5	58.6	56.5	52	52.5	40	35.3	29.6
29.6	28.7	49	52.8	62.1	57.6	58.8	55.3	50.1	50.5	39.6	34.7	29.3
29.7	28.7	48.9	52.3	62.1	56.7	59.2	55.2	50.9	50.8	40.7	34.7	29.4
30.7	29.3	48.6	52.4	63	56.4	59.7	56.8	54.3	52.1	40.2	34.3	29.5
30.8	29.4	49.9	54	63.7	56.6	61.2	58.8	54.3	52.3	40.1	34	29.9
30.3	28.9	51.5	54.3	62.6	57.3	61.1	58.8	54.3	52.2	40.2	33.4	29.3
30.1	28.8	50.9	55.5	62.6	57	62.2	61.8	57.4	53	42.5	34.6	29.4
29.4	28.6	50.6	55.2	62.6	57.9	62.1	60.5	57.8	52.5	41.8	33.2	28.9
28.9	28.6	50.9	53	62.8	56.9	62.2	59.6	57.6	53.2	42.3	32.6	28.7
28.9	28.6	51.5	53.3	63.5	57	62.8	60.5	58.3	55.7	45.8	32.3	28.6
28.7	28.6	53.2	52.7	63.5	58.9	64.3	60.7	58.6	55.3	46.5	32.2	28.4
28.5	28.5	51.4	53.3	63.9	60.8	64.8	61.8	58.3	55.1	46.7	32.4	28.3
28.4	28.5	50.4	54.1	63	63.9	65.3	61.7	58.2	54.6	47.2	32.4	28.2
28.4	28.5	50	54.9	62.6	66.5	64.4	61.6	58	54.1	47	32.8	28
28	28.5	48.9	56.2	62.2	65.6	65.5	63.1	58.6	54.8	48.5	32.5	27.9
28	28.5	51	56.2	62.4	64.2	66.4	65	60.4	56.4	51.2	32.8	27.8
28.1	28.6	50	55.7	61.9	64.3	66.5	65.4	61.3	57.3	51.1	32.5	27.9
28.1	28.6	48.6	55.6	62.6	63.7	66.5	64.9	60.5	57.5	50.4	32.6	27.8
27.9	28.5	47.9	55.8	62.2	62.4	66.6	63.8	58.1	56.6	50.6	32.3	27.7
29.6	28.7	48.7	55.9	61.7	61.3	66.1	63.4	57	56.6	50.5	32.4	27.8
29.5	28.6	50.8	55.6	62.9	60.3	66	62	56.6	56.4	49.3	33.2	28.6
28.6	28.6	49.9	54.6	62.5	61.5	65.9	60.5	57.6	56.5	48.9	32.8	28.3
28.3	28.6	49.9	53.9	62.8	61.9	65.2	59.1	56.3	55.3	48.3	31.9	28.1
28.1	28.6	51.8	54	62.5	61	64.4	58.4	56.6	54.5	49.1	31.9	28
28.2	28.6	54.7	55.4	62.4	60.7	62.7	57.8	56.9	53.9	47.4	31.9	28
28.2	28.6	55.2	55.7	62.5	60.5	62.7	57.1	55.5	52.4	45.1	31.9	28
28.1	28.6	54.8	55.5	62.7	60.2	63.2	59	57.6	53.4	44.2	31.8	28
28.8	28.5	53.8	54.9	63	62.1	64.1	61.5	58.1	53.7	44	31.8	28.1
28.8	28.5	53.7	54.7	63.1	61	63	60.4	56.9	52.4	43.2	32.1	28.5
32.3	29.1	54.4	54.4	62.8	59.8	62.1	58	54.3	50.5	42.1	32	28.4
36.6	30	53.8	54.5	62.6	60.2	61.4	57.2	54.2	49.2	41.4	35.7	32.1
38.9	32.7	55	53.8	63.4	60.3	59.9	56.7	54.3	48.8	40.6	34.9	33.5
38.6	32.5	52.8	53.9	63	60.7	59.1	54.9	56.2	47.9	40	36.9	35.4
35.3	30.6	52.1	54.8	62.7	60.1	58.3	54.6	55.9	47.9	39.7	34.6	32.5
32.4	29.4	53.2	54.5	62.9	59.8	57.4	53.2	53.5	48.9	39.7	34.2	30.4
30.4	28.9	51.7	54.1	62.3	59.2	56.4	51.8	50.5	47.1	38	33.4	29.3
30.3	29	52.2	55.6	61.3	59.2	55.9	50.5	48.2	46.3	38.7	33.5	29.3
42.4	38.2	55.7	55.9	62.1	59.4	55.7	50.9	48	45.4	40.5	34.3	30.4
43	38.2	55.5	55.4	62.5	59	55.8	51.5	48.3	45.8	42.5	42.5	41.5
42.6	37	54.9	55.3	62.9	59.1	56.1	50.9	47.2	44.4	39.4	40.1	39
38.9	34	54.4	54.7	63.1	59	56.4	49.8	46	42.8	36.9	36.8	35.4
35.7	31.5	51.1	54.7	62.9	59.1	56.6	49.7	44.8	42.1	35.2	34.7	32.9
32.8	29.9	51	55.7	63.4	58.6	56.5	49.1	44.5	41.5	34.2	33.1	30.6
30.6	29.1	51.5	55	62.8	58.4	56.4	49.2	44.7	41.6	34	32.2	29.5
30	28.8	51.6	55	62.2	58.7	56	50.7	47.2	42.2	33.8	32.1	29
30.2	28.7	52	58	61.6	58.7	55.9	50.3	48.3	44.3	33.9	33.3	29.1
31.7	28.7	58.4	57.1	61.9	59.4	56.7	49.4	50.6	44.7	34	32.7	29.7
33	29.3	61.7	57.1	61.6	59.8	56.2	48.8	49.9	43.8	34	33.5	30.5
33.7	30.5	61.1	57.8	62	59.4	56.1	48.3	47.6	42.8	34	34.1	32.3
36.5	33	60.6	57.3	62.5	58.7	56.2	47.7	45.4	41.5	34.1	34	32.2
35.4	32.2	61.2	56.7	62.7	58	57.1	47.7	44.7	41.4	34.7	33.1	32.6
32.7	30.3	61.3	56.2	62.5	58.6	56.3	48.3	45.2	41.1	34.6	32.4	31.4
32.9	29.8	60.3	57.1	62.8	58.7	55.9	46.7	44.5	41.1	35.2	33	31.7
31.7	29.4	64.5	57.4	63.1	58.4	55.5	46.3	45.1	40.9	35.2	32.2	30
30	28.9	63.6	58.9	62	58	55.7	46.6	47.3	41.1	35.2	32	28.9
29	28.7	65.7	59.9	60.9	58.3	56.7	47.3	47.5	42.4	35.7	32.1	28.7
29	28.8	64.2	60.2	61.9	58.2	56.6	46.7	46.2	42.2	35.7	32	28.7
29.6	28.8	63.6	60.4	62.3	57.9	55.6	46	44.7	41.8	37.9	32.9	28.9
29.1	28.7	63.3	60.6	62	58.1	54.9	46.1	44.6	41.9	37.6	32.7	28.6

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
28.7	28.6	65.1	60.7	62.1	58.3	54.8	46.3	45.9	42.6	37.9	32.7	28.4
28.5	28.6	64.7	59.9	62.4	57.6	54	44.8	43.7	41.3	36.5	32.2	28.3
28.4	28.6	63.8	60.5	61.7	57.6	53.8	44.2	42.5	40.7	35.6	32.1	28.2
28.4	28.6	63.3	59.8	63.2	58	53.7	44.4	42.3	40.5	35.4	31.9	28.3
28.5	28.5	64.9	60.2	63.4	58.3	53.6	44.8	41.9	40.5	35.4	31.9	28.2
28.4	28.6	64.5	60	63	58.6	53.4	46.5	41.2	40.5	35.7	32	28.3
28.7	28.6	64	61.4	63.3	58.8	53.5	46.2	41.3	40.8	35.9	32.2	28.3
28.4	28.5	69.1	65.3	62.9	58.5	53.5	46.8	41.4	41.1	36	32.2	28.3
28.4	28.6	72.7	65	62.4	58.6	53.4	46.5	42.4	42.5	37	32.2	28.2
28.3	28.6	70.5	63.2	62.1	59.4	53.5	45.7	41.9	41.9	36.8	32.4	28
28.2	28.6	69.9	62.4	63	59.3	53.1	45.1	41.4	41.9	36.9	32.2	28
28.2	28.6	69.3	62	63.2	59.2	52.9	44.4	41.5	42.2	37	32.2	28
28.1	28.5	68.4	60.2	62.3	59.2	52.9	44.3	41.8	42.5	37.3	32	27.9
27.9	28.5	66.9	58.2	61.9	59.3	52.6	44.3	42	42.3	37.2	31.9	27.8
27.9	28.5	64.9	57	64.7	59.9	52.4	44.2	41.9	42	37.1	31.8	27.8
28	28.5	61.9	57	63.5	59.1	52.7	44.7	42.1	42.4	37.3	32.2	27.8
28.8	28.6	60	61.1	65.4	58.3	52.6	45.7	44.9	43.6	40.3	33.7	28.1
29.4	28.6	58.2	58.5	65.1	57.7	52.5	47.5	45.2	44.1	40.7	34.6	28.8
30.9	28.7	56.9	57.4	64.4	58.2	52.7	48.7	46.2	44.5	41.6	35.6	29.4
37	33.3	56.2	56.7	63.1	60.7	53.3	49.5	46.8	45.4	42.3	37.1	30.9
42.6	35.3	57.4	56.9	62.8	62.5	53.3	50	47.1	45.9	42.5	38.1	37.2
42.9	35.4	55.9	55.5	62.3	65.2	53.2	50.1	47	46.6	46.5	44.3	39.3
39.3	32.6	57.2	55.3	62	65.1	52.6	49.5	46.4	44.9	43.6	40.8	35.7
35.7	30.5	55.2	56	62.9	63.5	52.2	48.9	46.2	44.2	41.6	38.1	32.7
32.7	29.4	54.6	54.6	62.1	61.4	51.2	48.5	45.8	43.9	40.5	36.4	30.7
30.7	28.8	54.5	54.7	62.3	59.6	52.9	48.2	46.1	43.6	40.1	35.4	29.6
29.6	28.7	53.6	55.4	62.7	58.8	54.7	48.1	46.5	43.7	39.9	35	29.1
29.2	28.6	52.3	55.2	62.3	58.7	53.9	48.2	46.6	44	40	34.9	29
29.1	28.5	52.4	55.3	61.9	59.8	53.3	48.4	46.3	43.9	39.9	34.6	28.8

28.4	39.9	48.5	47.8	52.8	50.3	49.1	65.4	51.3	52.5	57.6	54.8	47.4	46.2	48.1
28.4	56.6	49.2	54.8	52.2	53.4	56.6	61.4	52.9	49.6	57	49.5	51.9	48.1	46.3
28.5	56.1	55.9	47.2	47.7	50.1	52.9	60.7	50	52.6	57.4	52	49.2	46.4	47
28.4	58.1	58.4	49.4	50.4	50.8	55.6	61.3	50.2	53.1	56.4	52.7	51	48.3	46.1
28.4	53.8	58.5	51	51.1	50	55.8	59.9	52	53.8	55.9	53.2	49.6	47	45.3
28.5	57.5	49.2	49.7	45.7	50.4	52.5	61.9	51.7	51.9	55	51.7	49.4	47.8	45.9
28.4	48.5	48.7	46	46.9	48.1	50.8	64	51.2	52.8	56.1	53.6	53	49.4	44
28.5	48.5	48.1	47.6	50.2	47.7	54.1	60.1	50.3	51.5	56.4	52.1	48.8	53	45.8
28.5	42.4	49.4	46	54.3	52.1	55.1	60.3	50.5	53.4	55.3	52.6	48.9	51.9	46.2
28.5	47.3	47.4	37.6	51	52.1	55.9	61.4	52.8	52.4	57.3	52.6	49.7	48.5	46.2
28.5	48.1	49.7	43.6	52	52.2	55.3	62.3	48.1	51.4	55.9	50.1	49.4	52.2	44.8
28.5	42.1	49	48.9	49.8	50.8	55.6	61.7	51.7	51.6	55.3	50.6	51.7	53	47
28.5	42	41.7	45.8	49.9	49.2	55.4	59.6	49.7	52.3	55.5	53	48.2	56.5	44.8
28.6	44	47.8	45.3	48.8	50.3	54.2	61.4	49.5	52.5	55.3	50.4	49.8	55.3	47.3
28.6	43.1	52.5	48.8	43.3	47.1	49.6	63.5	49.5	50.4	57.3	51.9	51.3	53.4	47.9
28.6	40.1	52.8	46.3	47.3	48.2	50.5	63	46.1	49.4	57.5	49.9	49.9	52.9	46.7
29.2	41.3	56.9	48.9	51.2	52.7	52.4	64.5	51.3	52.3	56.8	53.4	51.4	56.1	48.4
28.8	37.8	45	49.7	44.1	49.9	51.3	62.7	51.5	51.5	54.5	49.5	51.3	56.9	48.7
28.6	39.9	40.8	47.1	46.7	43.6	49.5	63.5	50.6	49.9	56.3	51.2	47.7	56	49.2
28.6	42.9	43.5	43.7	47.1	46.3	49.5	62.7	50	53.9	56.1	52	51.9	56.4	48.1
28.6	41.9	45.7	46.6	46.6	46.2	45.9	62.9	50.9	53.1	54.3	49.6	50.7	56.7	49.2
28.6	43.6	43.4	46.7	45.9	47.2	48	64.6	55.1	50.9	52.3	52.1	50.6	55.1	50
28.9	44.5	42	48.9	45.3	50	51.3	63.2	56.9	48.5	56.2	53	51.3	52.5	50.9
28.8	43.9	45.7	47.3	44.3	50.3	49.9	62.1	53.5	52.5	57.1	50.2	49.2	56.9	53.6
28.6	43.1	46.7	41.5	44.6	50	53.2	63.2	48.5	50.1	54.6	51.6	50.8	55.6	58.1
28.6	48.8	48.3	44.6	49.5	51.3	48.5	63.8	52.7	52.5	56	53.7	54.1	58	58.3
28.6	46.7	48.2	48.7	49.9	48.3	50.9	63.9	45.1	51.1	51.7	49.6	49.9	58.4	59.6
28.5	47.3	42.8	41.6	45.5	43.3	49.2	64	48.5	50.3	53.7	49.9	56.3	59.7	64.4
28.5	48.2	46.5	48.2	48.5	47.9	46.7	64	51.8	52.1	55.6	51.2	60.3	60.1	62.3
28.5	48.1	50.3	50.2	48.5	44.9	48.3	64.1	50.8	49	56.7	50.4	63.8	61.1	61.4
28.5	50.8	50.9	47	42.9	50.4	51.3	63.8	51.8	50.5	58.6	51.7	65.4	57	64.5
28.5	41.5	44.3	43.5	44.9	52.7	48.8	63.2	51	51.1	57.6	50.7	67.1	56.9	63.2
28.5	40.6	47.5	45.1	50.7	51	51	62.9	50.8	50.9	57.5	50.3	65.1	54.2	66.4
28.5	42.2	46.1	50.3	53.2	53.1	52.5	63.5	51	52.8	58	50.1	60.8	60.6	65.8
28.5	45.8	44.6	44.1	44.8	52.5	51.1	62.1	53.1	51.5	57.3	53	65.1	62.5	62
28.5	41.8	49.8	45.1	48.9	50.7	50.8	63.8	49.9	51.8	56.4	53.1	60.4	63.2	60.1
28.5	41.9	45.5	43.7	46.2	52.1	50.9	62.6	48.1	49.5	56.8	55.6	59.3	63.8	62.5
28.5	45.4	43.6	44.7	48.8	51.8	52.1	62.1	48.4	50.8	54	57.7	55.8	62.2	62.8
28.5	39.4	41.9	50.3	48.2	49.8	50.6	64.8	48.4	48.8	53.9	57	52.8	62.3	63.1
28.5	40.4	51.4	44	49.6	50.8	49.2	62.9	50.1	50.3	57.9	63	52.8	62.6	63.5
28.5	43.8	47.2	46.1	50	47.5	50.5	62.8	52.1	49.7	56.8	59.7	52.4	58.9	61.8
28.5	44.2	40.1	46.4	44.2	47.8	49.4	62.6	54.5	49.6	56.2	57.3	53.8	56.3	62.8
28.6	43.7	49.1	47.2	51.7	51.4	50.1	63.3	54	53.8	56.5	56.8	53.1	52.5	58.2
28.5	44.1	52.8	51.1	51.4	49	52.5	62.3	54.1	49.6	57	56.1	56.5	55.4	62
28.5	48.6	53.9	53.8	52	48.7	53	63.3	51.6	49.7	55.8	58.1	58	54	63.8
28.5	48.6	53.4	53.2	47.6	50.2	49.8	62.3	54	52.3	58	60	57.7	53.2	63.8
28.5	45.7	42.3	48.7	50.5	48.1	47.9	63.4	50.7	48.6	56.3	56.5	53.1	52.8	60.7
28.5	47.4	44.8	51.3	50.3	50.3	49.3	63.6	54.5	50	57.1	53.7	51.5	53.6	59.9
29	49.9	50.6	45.4	49.4	50.6	49.4	63.2	50.6	48.9	56.9	58.6	52.5	53.7	59.9
29.2	56	50.3	50.7	49.8	48.1	48.9	63.4	52	51.9	56.9	56.4	52.3	54.7	57.6
30.6	40.3	51.4	48.6	49.5	47.8	52.8	63.4	52.6	50.1	55.8	59.2	52.2	54.7	55.5
29.5	49.5	52.3	47.4	49.3	52.9	47.4	62.3	50.5	50.6	55.4	57.2	51.1	53	55.4
28.9	51.7	43.8	46.6	49.2	45.8	52.9	62.9	50.6	48.5	55.6	57.4	52.8	54.3	53.8
28.7	45	49.7	41.8	47.1	48.2	47.6	63.1	50.4	51.3	55.1	53.7	54.6	53.3	52.6
28.7	54.5	50	48.4	46.9	50.6	52.1	60.2	53.4	49.4	56.4	54.1	53.4	52.8	50.5
29	49.2	44.8	51.3	49.2	52.8	50.2	63.6	51.6	50.1	57.2	53.6	51.2	52.5	52
36.7	48	45.4	48.9	50.8	51.6	50.5	62.7	52.5	48.4	54.5	55	54.4	51.7	52.7
34	55.8	53.5	45.4	47.8	51.6	51.3	64	49.4	49	54.9	56.9	54	53.1	53.2
31.4	49.7	51	49.1	46.6	51.9	49.8	63.5	53.7	50.5	55.4	54.8	52.7	53.6	54.5
29.9	53.1	49.7	42.5	48.4	47.7	49.8	63.9	52	50.2	57.7	51.8	50.4	53.4	52.8
29.1	47.4	53.6	45.9	48.3	52	51.2	63.3	50.4	50.6	57.1	50.6	51.7	53.7	53.2
28.8	47.2	43.5	46.9	51.8	50.1	51.1	63.5	48.3	52.7	53.2	55.7	53.3	52.2	52.9
28.7	42.4	49	48.9	48.2	52	49.4	62.3	48.7	52.8	57.2	55.1	52.8	53.1	51.2
28.6	49.4	47	47.2	49	53.4	50.3	63.1	50.4	54.3	54.3	55.9	52.1	53.3	53.7
28.6	48	42.4	57.3	55.1	55.3	52.3	62.7	51.7	52.3	59	56.8	50.6	52.4	55.4
28.5	49.9	51.3	53.3	51	48.9	52.1	62.7	52.3	53.2	57.7	55.3	53.6	51.1	52.4
29.5	58.1	57.6	53	54.3	52.8	49.1	63	50.5	50.4	56	54.6	51.2	53.2	52.6
29.6	60.8	56.8	55.1	56.1	51.5	51.3	63.4	49.5	48.1	57.9	55	51.1	54.2	54.1
30.4	59.9	53.6	59.7	54	51	45.5	63.8	47.9	47.5	54.9	53.9	51.7	51.5	54.9
29.7	60.8	53.6	58.2	56.7	48.5	49.3	62.9	53.1	53	58.1	53.3	48.3	52.1	52.1
29.4	53.5	56.9	53.6	50.8	51.3	52.7	63	50.1	51.7	58.5	53.3	51.5	50.3	53.4
28.9	55.7	59.3	53.2	53.3	52.8	50.1	63.8	52.6	49.5	56	51.5	50.6	52.6	53.2
28.7	54.1	54.7	53.8	57.1	53.6	52.5	62.7	52.4	51.4	57	51.2	50.6	52.5	53.4
28.7	64.4	62.7	60.7	56.4	54.4	54.5	60.5	50.9	51.4	55.5	53.6	48.8	52.8	54.4
28.7	61	60.2	60.4	58.2	57.2	55.6	63.5	53	50.7	57.4	52	52.1	51.5	54.2
28.7	63.9	64.2	59.6	53.6	59.4	54.1	63.6	52	52.2	55.7	51.3	48.7	50.6	52.3
28.5	52.2	57.6	61.2	55.1	51.3	53.1	61.3	54.6	52.6	58.2	51.7	50.4	50.9	50.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.5	59.1	57.3	59.7	61.1	52.5	51.7	62.8	55.4	51.5	56.8	52	51.2	53	50.5
28.5	58.8	57.1	61.3	58.7	52.6	55.6	62.7	54	51.1	56	50.3	49.1	49.4	49.9
28.5	61.5	59.7	59.6	55	55.5	56.8	62.9	52.8	54.7	56.6	50.4	50.7	49.6	51.8
28.5	64.8	59.1	54.3	58	54	50.5	63.3	52.2	55.1	55.9	52.3	52.2	47.8	50.7
28.5	57.2	59.7	54.2	58.3	49.7	52.5	64.5	54.1	50.6	57.2	54.7	51.8	47.8	49.4
28.5	58.9	60.1	59.3	59.6	55.6	53.1	62.5	54.9	52.8	56.2	53.5	53.1	47.3	48.7
28.5	66.1	63.9	59.9	56.9	58.3	54.4	63.6	56.2	52.2	58.5	55.2	51.5	49.7	49.5
28.5	52.1	58.1	67.7	60.7	56	55.1	62.6	53.2	51.9	58.3	52.3	48.9	49.6	47.5
28.5	60.9	61.2	62.8	65.6	61.1	55.9	63.4	54.6	50.9	59.5	52.2	53.4	50.2	49
28.5	61.1	69.4	59.8	65.6	59.9	51.5	61.7	52.2	53	56.6	54.9	50.8	51	48.2
28.5	68.3	69.1	62.7	56.3	55.8	52.5	63.6	53.9	52.3	57.9	53.9	52.3	48.9	48.6
28.5	72.9	62	61.2	61.7	55.2	58.6	63.9	56.2	53.6	59.1	51.5	50.8	49.1	49.7
28.5	66.6	67.3	59.9	57.3	60.1	51.9	62.7	54	54.6	59	50.6	50.5	48.4	50.3
28.5	66.8	64	61.4	55.8	48.9	53.3	63	53.6	59.1	56.4	53.2	52	48.2	49.4
28.5	66.4	65.7	52.1	54.3	48.4	52.1	64.5	55.2	62	57.4	54.3	53.8	48	48.5
28.5	59.1	59.4	55.3	47.4	49.6	52.3	61.8	50.8	65.2	52.4	52.6	54.5	50.1	48.8
28.4	64.3	54.9	51.2	52.2	50.1	63.1	54.8	63	61.6	54.4	53.1	49.9	50.1	49.6
28.5	59.8	56.2	51.7	51.4	50.8	57.2	62.3	61.7	58.3	55	51.8	51.3	48.4	49
28.6	55	53.2	49.9	50.5	45.4	46.5	62	56.7	56.2	57.6	56.4	50.7	47.2	49.2
28.6	53.9	51.7	42.6	54.5	50.6	52.1	60.7	53.1	52.3	58.3	58.1	57.7	50.8	50.3
33.4	53.9	54.8	45.9	51.2	52.6	53	62.4	53.4	55.6	58.3	66.9	50.7	48.8	49.8
32.7	51.4	52.7	49.6	51	47.7	51.2	62	53.2	55.3	57	64.5	50.8	49.8	50
30.5	57.3	53.2	54	46.9	46.6	51.8	61.1	55.7	55.2	64.5	60.5	51.3	47.4	48.3
29.4	49.8	51.4	48.9	46.5	51.6	51.7	62.2	55.5	54.9	61.9	52.7	51.5	49.9	47.5
28.8	57	52.7	51.1	50.7	47.7	50.9	61.9	52.2	54.8	57.7	51.1	52.5	50.4	46.3
28.6	51.1	49.9	48.8	47.9	43.6	52.6	60.5	57.6	56.8	56.2	51.9	49.4	50.9	55.9
28.6	44	51.1	49	45.3	47.1	55.1	62	57.1	55.5	53.6	50.5	51.6	49.7	51
28.5	49.9	51.3	44.1	44.8	46.7	49.8	60.5	52.6	54.1	58.4	50.5	54.4	50.8	48
28.5	52.5	50.2	49.4	46.6	48	52.7	59.6	53	61.4	55.4	51	54.8	51	47.1

47.9	48.5	39.5	38	45.4	40.9	41.7	39.6	39.8	39.6	37.3	34.9	33.4	31.3	28.5	27.1
45.2	47.7	39.4	38.3	45.7	40	40.8	38.9	40.1	38.6	37.3	35.3	33.7	31.7	28.9	27.3
44.8	47.6	38.7	38.2	45.3	40.1	40.8	39.3	40.6	38.5	37	37.8	35.9	31.4	28.9	27.4
44.7	48.4	38.4	38.8	45.4	40.1	40.1	39.6	40.6	38.9	36.3	35.1	33.2	31.2	28.8	26.6
43.1	48.4	39.1	38.5	45.1	40.9	41.1	38.6	40	37.8	36.7	35.2	33.5	31.4	28.7	27
44.1	48.4	40.6	40.5	45.6	42.3	41.5	39.7	40.8	38.6	38.1	35.5	33	31.2	28.6	27.3
45.9	48.4	44.3	42.4	45.2	44.3	42.8	40.4	40.6	38.8	37.7	36.4	34	32.2	29.3	27.3
45	47.9	42.3	40.5	45.1	43.3	42.5	40.8	41	38.9	37.8	36.1	33.9	31.2	28.6	27
44.8	48.2	42.7	40.9	45.6	42.7	42.6	44.2	41.2	39.3	37.6	36	33.7	31.5	28.9	27.1
45.7	49.7	42.8	43.2	45.5	42.3	41.3	40.4	44	40.9	37.9	35.9	33.5	31.5	28.5	27.2
43.5	49.4	44.9	44.5	45.4	44.6	43.4	43.9	42.7	40.4	37.2	36.2	33.8	31.4	28.9	27.1
45.6	49.2	45.6	50	46	46.2	44.9	45.9	44	40.7	37.7	36	33.5	31.4	28.6	27.4
46.6	45.3	42.6	48.5	43.4	42.7	43.6	43.6	43.1	38.9	35.6	32.2	31.3	29	27.5	26.7
45.6	48.3	43.1	44.8	41.1	45	42.1	44.5	41.6	39.5	33.6	31	30.6	28.8	27.4	27.7
48.9	47	42	45.1	42.5	42.8	40.2	41.1	40.2	37.3	33	30.5	29.6	28.7	27.6	27.2
50.3	50.4	41.4	44.3	42.8	42.9	43.9	45.2	44.1	38.6	35.8	36.7	35.1	36.8	35	33.3
56.5	54.5	49.3	54.8	46.7	46.3	46.4	47.4	44	39.5	36	32.7	32.6	31.3	30.1	28.5
56.7	54.3	48.7	55.9	51.1	45	47.2	53.8	47	41.9	40	35.6	34.1	32.8	30.5	29
55	53.7	47.5	47.6	48.6	45.6	48.3	49.8	46	40.9	36.3	33.3	32.2	31.4	29.2	27.7
55.4	51.7	46.4	50.3	44.3	42.5	45.9	45.9	42.8	39.6	38.9	34.4	33.1	31	28.6	27.9
57.6	50.8	47.2	54.9	47.7	52.6	51.1	52.6	47.9	43	38.3	35.2	33.1	31.9	29.2	28.2
60.6	52.7	48.7	57.4	46.2	51.5	50.3	49	46.6	42.4	37.6	34	30.8	30.3	28.6	28.8
60.2	49.4	50.2	58.9	48.7	49.8	50	51.5	47.3	41.7	37.8	34.1	33	31.6	28.3	27.9
59.4	52.6	55	60.6	50.2	53.7	54.5	50.1	48.3	45.6	42.4	37	34.6	34.7	31	29
61	53.9	57.1	60.2	55	55.4	54	50.3	48.1	45.8	40.7	35.4	31.4	29.2	26.7	26.8
57.4	52.9	55.9	53.9	53.4	53.7	49.7	52.2	45.5	43.4	40.9	35.5	30.8	28.3	26.2	27
55	56.3	57.5	52.7	54	54.8	51.2	53	50.5	47.2	44.3	40.6	33.8	28.7	26.4	26.8
55	57.9	55.3	53.6	55.6	54.7	54.6	54.4	51.5	48	45.5	42.9	33.6	28.6	26.2	26.4
54.2	59.4	58.3	56.1	53.8	52.7	54.5	52.3	50.6	47.5	43.7	43.3	34.3	28.9	26.4	26.9
54.1	58.1	58.2	53.3	53.6	54.1	53.8	51.7	51.6	47.5	44.6	44.8	34.4	28.9	26.6	28.6
55.9	58.7	58.1	54.6	54.3	53.2	53.3	50.4	49.6	47.6	43.9	43.4	33.4	29	26.5	30
52.7	55.4	60.8	54	54.6	54.9	52.7	50.8	50.6	46.8	46.5	44.4	35.2	29.3	26	26.7
55.9	56.5	65.2	56	55.8	56.9	53.1	53.2	53.2	50.3	51.3	46.4	37.1	29.9	26	26
58.3	59	62.6	56.3	57.1	58.5	54	54.9	53.4	50.3	50.2	45.8	38.2	29.7	26.9	27.2
60.7	63.7	61.6	56.3	59.1	58.9	56.4	57.6	53.3	52.2	49.7	44.1	35.5	29.4	26.1	26.5
61.2	63.9	55.2	53.7	54.9	53.4	55	53.2	52.6	51.5	51.9	44.3	36	29.6	26.6	27.6
61	62.4	51.3	50	50	50.8	53.3	51.9	52.8	48.1	48.1	40.8	33.9	28.6	26	26.1
58.5	62.7	51	51.1	47.5	49.3	55.2	55.1	53.3	48.5	50.2	44	35.4	30.8	28.9	31.5
57.7	59	54.7	53.7	51.3	53	53.1	54.8	53.3	51	47.2	40.6	34.4	28.5	26.1	26.5
58.9	56.2	55.4	52	52.8	54.9	53.6	52	50.8	49.9	49.7	38.7	33.7	28.3	26.8	27.9
56.1	54.9	54.3	50.6	50.8	50.1	51.1	50.4	49.4	49	48.8	38.2	32.2	27.9	25.7	25.7
56.5	55.3	53	52	52.8	52.8	53.1	50.7	49.4	47.7	49	37.8	32.5	27.9	27	28.1
56.2	55.5	50.9	50.1	51	53.1	53.5	50.1	48	47.3	46	36.8	32	27.9	26.1	26.1
53.9	57.2	49.2	49.2	51.1	52	51.1	49.5	48.8	46.4	41.8	34.3	30.3	27.9	27.1	27.8
57.1	60.1	50.4	57.8	56.3	53.1	53.4	50.6	49.5	46.2	42.3	35.1	30.5	28	26.1	26.1
58.4	62.2	50.3	59	53.8	54.4	54.9	51.6	50.6	47.7	43.7	35.4	30.6	28.1	28	30.1
53.2	57.9	46.7	53.5	52.3	50.3	49.9	46.7	46	45.4	40.8	34.1	30.2	27.5	25.5	26
53.7	55	45.6	49.1	49.5	45.8	45.9	45	44.4	43.6	39.1	33.8	33.8	32.8	32.4	31
49.7	55.4	46.7	52.7	52.4	48	49.6	43.7	44.5	43.1	38.4	33.3	33.6	30.5	30	31.8
50.1	56	45.4	47.4	56.1	47.8	51	48.2	43.8	42.9	38.8	34.1	35.3	34.6	34.4	35.9
48.4	51.3	46.4	48.4	54.7	46.8	45.5	42.3	39.9	38.8	35.1	30.9	33	30.6	28.9	28.7
48.4	51.2	49.2	50.4	52.8	51.4	53.9	51.4	45.1	43.3	38.8	32.4	30	28.4	27.4	26.5
47.2	49.3	45.8	45.3	44	42.9	41.8	40.5	40.2	39.7	37	32.5	31	30.5	30	29.5
48.3	48.5	45	42.6	42.1	42.1	41	42.7	40.1	39.1	34.1	31.1	30.7	28.2	27.8	27.2
48.2	46.8	45.1	41.9	40.8	42.5	39.8	41.1	38.7	42.9	39.5	40.2	34.1	29.9	30.1	29.8
48	49.4	47.9	45.4	44.4	44.8	43.1	42.7	42.1	41.6	38.4	40.3	39.1	40	39	38.6
47.8	48.9	46.4	44.7	44.9	42.8	43.5	42.2	39.8	39	37	35.7	36.5	35.8	41.5	40.1
46.3	47.8	46.9	43.4	41.7	40.1	43	40.1	38.6	36.5	31.6	29.4	29.9	30.4	30.6	32.5
48.2	46.7	44.6	38.9	39	40.6	40	37.4	37.3	35	30	28.8	29.3	27.4	26.1	27.5
48	47.6	45.2	38.2	38.4	41.2	39.6	37.7	37.1	34.6	30.3	28.1	28.6	27.7	28.2	28.4
49.1	46.9	43.4	38	39.9	38.7	40.6	37.8	36.8	33.9	29.9	27.8	28.3	27.1	27	28.2
45.9	49.7	44.3	41.9	44.2	43.5	39.8	39.1	38.1	35.5	30.5	28.1	28.3	26.7	25.8	26.5
45.4	47.1	45.5	44.5	45.5	42.3	44.2	41.9	38.4	35.5	30.3	27.8	28.4	27	28.2	32.7
47.7	47.8	44.3	44.3	50.8	47.4	46.2	43.2	41.8	38.1	31.6	28.4	28	26.9	26.9	30.8
48.2	46.8	43.5	41.8	45.6	46.3	43.9	40.9	39.5	37.2	30.6	28.7	28.3	27.2	26.6	32
46.6	47.4	42	39	42.6	47.4	44.4	40.2	38	35.8	30.6	27.9	28.4	27.1	28.2	34.7
48.3	46.5	42.4	37.6	41.7	41.7	38.7	38.6	38.3	35.6	30.4	28.8	28.9	27.5	26.9	31
52.1	44.9	41	39.4	38.7	38.7	37.1	36.6	35.9	34.6	31.3	30.4	30.4	30.9	30	30.5
51.5	50.6	41.6	37.3	40.2	40.9	40	38.2	36.5	33.8	31.1	28.9	29.2	27.8	26.2	26.3
49.5	45.8	40.1	38.5	41.8	42.4	39.1	37.5	36.1	35.1	32.1	30.3	29.7	28.8	27.9	28
48.6	42.4	40	38.2	40.2	40.5	37.8	38.1	36.4	35.2	31.9	30.3	29.7	28.9	27.8	28.2
46.7	42.3	41.4	40.4	44.2	44.3	39.8	37.2	36.3	34.5	31.6	30	29.2	27.8	26.2	26.3
46.9	44.2	45.2	41.7	47.9	45	42.7	39.9	39.7	36.1	33.2	30.6	29.4	28	26.6	26.6
49.7	44.4	41.6	41	42.2	43	39.9	38.5	38.3	35.9	32.7	30.5	29	28.1	26.9	27.1
47.2	40.8	43	39.1	42.2	40.4	39.6	39.5	38.6	37	37.7	36.2	32.2	30.6	30.2	27.7
47.4	40.8	43	36.7	40.9	37.2	36.2	36.3	37.3	35.2	34.5	31	29.8	28.3	27.2	27.1
46.9	42.6	44.3	40.1	44.2	41.4	40.5	39.7	39.8	39.1	35.1	35.5	31.9	29.8	26.9	26.4

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq ·	1/3 LZeq
45.3	43.1	40.2	40	43.9	40.6	39.6	38.7	37.1	35.4	33.4	32.4	31.9	29.8	27.2	26.8
47	38.9	38.8	36.2	38.7	34.5	35.8	35.3	35.8	35.4	32.3	29.1	29.1	27.5	26.7	26.8
46.7	40.7	40.5	36.4	38.6	35.5	35.8	36.2	36.1	34	31.8	29.5	29.3	27.9	26.7	26.8
48	41.2	41.3	37.6	40.3	36.8	35.8	36.8	36.3	34.5	31.9	30	29.1	27.8	26.5	26.6
52.8	44.4	40.4	38.3	37.3	36.3	37.3	37.6	35.7	34.5	32.4	31.2	30.3	28.7	27	26.2
46.7	43.5	38.6	37.7	37	36.2	36.2	37	36.4	34.3	32.3	30.6	29.9	28.5	26.9	26.3
51	42.6	41.8	37.6	37.1	36.2	36	37	37.3	34.9	32.3	31.1	30.3	29	27.3	26.9
48.9	43.8	42.4	38.8	37.9	37.7	38.8	40	39.1	36.6	34.7	32	29.8	28.7	26.8	26.1
46.8	43.6	41.8	39.9	39.5	36.5	38.3	38.7	38.3	36.5	33.8	31.9	30.9	28.9	27.5	27.1
46.3	42.8	40	37	37.7	36.1	36.2	37.2	37.9	35.8	34.8	31.1	30	28.9	27.1	26.6
47.3	40.6	40.5	36.9	37	36	36.8	39	37.7	36.1	34.4	31.7	29.6	28.5	26.5	26.7
46.5	40.6	39.9	36.9	38.2	35.9	38.7	39.5	38.9	37.2	35	32	30	28.6	27.1	26.6
45.4	42	39.4	37.2	38.1	36.5	37.4	38.1	37.9	36.4	34.7	31.4	29.8	28.4	26.5	25.9
43.4	40.5	40.3	36.8	38.8	36.3	37.2	37.5	38.1	36.4	34.6	32	30.1	28.6	26.1	25.8
45.3	38.4	41.3	39.1	37.4	36.7	37.6	37.7	38.8	35.8	34.2	31.4	30.3	29.1	26.4	25.6
44.4	42.9	39.8	39.9	43.4	39.3	40.4	39.6	39.6	38.3	39	35	33.6	31.6	28.2	26.9
45.7	47.9	38.5	38	43.6	39.1	40.7	39.7	40	39.2	37.9	36.3	34.3	32.5	29.5	27.9
45	49.4	38.7	38.7	43.9	39	42.1	40.1	40.9	39.1	39.1	36.8	35	33.4	30.1	28.2
46.6	50	41.4	38.6	43.6	41.4	41.6	40.4	41.4	40.3	39.5	38	36.4	34.6	32.6	30.7
44.2	49.6	42.2	41	44.1	42	41.3	41	42.5	40.6	39	37.6	35.6	34.4	33.1	32.8
45.6	49.6	44	41.8	45	41.7	42.1	42.8	45.6	44.5	46.7	47.1	47	46.6	45.5	44
44.4	49.9	42.9	40.9	44	41.3	40.9	41.7	41.9	40.1	37.5	36.9	35.1	35.5	33.9	34
44.9	48.6	41.4	38.5	43.5	39.4	39.5	38.6	39.6	38.1	36.2	35.5	32.8	32.5	29.2	27.7
43.7	48.3	39.6	38	43.9	39.8	39.8	37.5	40.3	37.9	36.4	35.1	33	32.3	29.2	27.2
43	48.6	38.2	36.9	44.6	38.4	39.1	38.2	40.2	38.5	36	35	33	32.2	29.4	27.6
42.7	48.3	39.6	36.9	45.7	38.1	39.2	38.5	40.3	37.7	36.4	35.5	33.1	31.8	29.6	27.6
42.8	47.9	38.1	37.9	45.5	38.8	40.8	38.8	40.7	37.7	36.3	35	33.5	31.9	29	27.9
43.4	48.5	37.5	37.4	44.8	40.1	40.2	38.4	40.8	38.9	37.5	35.8	33.6	32.2	29	27.9
42.2	48.8	38.7	37.7	45.3	38.3	39.5	38	40.4	38.1	36.4	34.5	33.2	31.9	28.9	27.6

24.7	23.2	22.9	22.9	23.6	24.5	46.1	47.5	50.3	53.9	53	56.5	65.8
25	23.3	23	23.1	23.6	24.6	55.8	49.4	53.4	53.6	54	55.9	64.4
24.9	23.2	22.9	23	23.6	24.5	57.2	55.5	53.3	52.8	52.4	55.7	63.4
24.7	22.9	22.7	22.9	23.5	24.5	58	58.1	50.4	50.5	52.2	55.2	62
24.9	23.1	22.8	23	23.6	24.6	56.7	58.5	50.8	51.2	50.6	55.9	61.4
25.2	23.2	22.9	22.9	23.7	24.6	57.7	58	51	50.5	51.2	55.8	62.1
25.5	23.3	22.9	23.1	23.6	24.5	56.1	54.7	49.5	48.9	50.4	53.8	63.5
24.8	23.2	22.9	23.2	23.8	24.6	53	51.8	48.8	49.7	49.4	54	63.3
25.1	23.2	22.7	23	23.7	24.5	50.9	50.4	47.4	53.2	51	55.5	61.8
25.2	23.1	22.8	23.1	23.7	24.6	47.6	49.3	46.5	53.7	52.5	56.2	61.7
25.1	23.2	22.9	23.2	23.7	24.6	48.2	49.7	44.1	52.7	52.5	55.5	61.9
25.2	23.3	22.8	23	23.6	24.6	48.3	50.6	47.6	51.6	52.3	55.9	62.1
25	23.6	23.2	23.3	23.7	24.6	45.2	48.7	47.4	50.9	51.5	56	61.8
26.2	23.9	23.4	23.3	23.7	24.6	44.3	47.4	46.4	50.7	51.4	56	61.2
25.3	24.2	23.5	23.4	23.7	24.6	44	51.9	48.4	49	49.9	54.4	63.3
30.9	28.6	27	25.8	25.2	25.2	44	52.6	48.5	47.4	48.7	51.8	63.6
25.7	24.1	23.3	23.2	23.6	24.7	42.4	56	48.5	50.7	51.8	52.2	63.9
26.1	25	23.6	23.3	23.7	24.6	41	55.2	50.5	50.4	51.1	52.2	64
25.5	23.7	22.9	23.1	23.7	24.5	40.4	51.5	48.4	48.4	50.6	51.7	63.4
25.5	24	23.4	23.2	23.7	24.7	42.1	47.7	47.7	47.8	47.4	50.8	63.4
26.5	24.6	23.5	23.3	23.8	24.5	42.3	46	46.5	48	47	49.5	63.1
27.2	25.6	25.5	24.7	24.4	24.8	43.6	46	46.8	46.6	47.2	48.1	64.2
25.5	24.5	24	23.6	23.9	24.6	44.5	44.4	49.1	47.1	49.9	51.4	64.2
26.6	24.8	23.7	23.4	23.7	24.6	45.5	45.3	47.9	45.7	50.5	50.1	63.8
25	23.7	23.2	23.1	23.7	24.5	43.8	46.9	47.7	45.1	50.6	52.6	63.2
24.8	23.7	22.9	23.2	23.7	24.7	48.2	47.5	45.4	48.3	51	52.4	63.7
24.8	23.7	23.2	23.2	23.8	24.5	48.5	48.3	48.5	49.5	51	52.1	64
24.5	23.5	22.9	23.1	23.6	24.6	47.6	48.1	47.6	49.1	49.4	49.9	64.2
24.3	23.3	23	23.1	23.6	24.6	48.2	46.6	47.5	48.1	47.8	50.3	64.3
24.3	23.1	22.9	22.9	23.7	24.6	48.7	49.6	50.3	49.3	47.6	48.5	64.5
24	23.1	22.8	23	23.7	24.5	50.5	50.7	49.1	47.9	49.3	50.4	64.5
23.7	23	22.6	23	23.7	24.7	49.7	50.2	47.2	45.7	52.1	50.5	63.8
23.9	22.8	22.6	23	23.7	24.7	46.2	47.9	46.6	50.1	51.4	50.7	63.6
23.7	22.8	22.9	23.1	23.5	24.5	43.7	47.9	49.6	52.7	53.2	52.1	63.4
24.1	22.8	22.6	23.1	23.6	24.6	45.3	47	49.6	51.6	52.6	52.1	63.4
23.3	22.4	22.9	23.1	23.6	24.6	44.4	48.9	47.5	49.5	52.6	52.2	63.4
23.7	22.8	22.8	22.9	23.6	24.6	43	48.8	45.3	49.5	52.5	51.4	63.3
26.4	24.7	24.1	23.5	23.8	24.6	44.8	47.3	45.4	49	52.1	52.3	63.1
23.9	22.9	22.8	23.1	23.6	24.6	44.4	45.3	49.7	48.9	51.8	51.8	64.2
23.9	23	22.8	23	23.6	24.6	42	50	49.8	49.6	51	51.1	64.4
23.9	22.9	22.8	23.1	23.8	24.6	43.1	50	47.8	50.8	51	51.4	63.4
24	22.8	22.8	23.2	23.7	24.6	44.4	48.4	46.8	48.9	49.4	50.2	63.3
24.2	22.8	23	23.1	23.7	24.6	43.9	48.6	47.1	51	51.1	51.1	63.2
23.9	22.9	23	23.1	23.7	24.5	44.6	52.2	50.4	52.8	50.9	52.3	63.6
24	22.9	22.8	22.9	23.6	24.5	47.9	53.8	53	52.2	49.7	52.5	63.2
25.5	23.3	23.1	23.1	23.8	24.6	48.7	53.5	53.3	51.1	50.2	52.7	63.3
24.5	23.1	23	23.3	23.7	24.7	47.5	53.1	52.8	50.5	50.4	50.8	63.2
29.6	28.3	26	24.6	24.2	24.5	48.1	49.4	51.7	50.5	50.3	49.6	63.5
31.4	32.3	30.8	26	24.3	24.7	49	50.1	51	50.4	50.5	49.5	63.6
36.5	33.2	31	30.4	27.2	25.6	54.6	50.9	50.5	51	50.2	49.6	64
26.6	25.3	24.4	23.8	23.8	24.6	54.1	50.9	50.8	50.7	49.7	52.5	63.7
24.9	23.9	23.4	23.3	23.6	24.5	50.3	52.6	49	49.6	52	52.1	63.3
24.5	23.5	23.3	23.2	23.8	24.6	51.3	51.3	48	49.7	51.3	52.1	63.1
24.7	23.2	23.1	23.2	23.7	24.5	51.2	49.9	47.1	50	49.3	51.8	63.1
26.8	25.2	25.2	24.1	23.9	24.7	53.5	51.2	47.9	48.1	50.6	51.4	63
38.8	38.8	39.4	38.2	31.6	27.9	53.5	49.3	50.3	49.1	52.1	51.3	63
38	37.8	37	34.3	29.1	25.8	51.2	46.9	50.4	50.7	52.5	51	63.1
30.2	30.9	29.8	28.2	25.6	25.2	54.8	52.3	49.8	51.1	52.1	51.6	63.6
24.4	23.6	23.2	23.2	23.7	24.5	54.7	51.6	48.8	49.2	52.2	51.5	63.7
27.1	26.1	25.4	23.9	23.8	24.6	53.2	51.7	48.6	48.9	51.4	50.7	64
24.3	23.3	23.1	23.1	23.6	24.6	52.6	52.9	46.2	48.6	51.8	51.1	63.9
24.6	23.6	23.2	23.3	23.7	24.7	49.9	52.8	47	51.2	51	51.8	63.7
26.9	22.8	22.8	23.3	23.6	24.6	48.5	49.6	48.5	51.1	51.9	50.6	63.6
26.4	24.7	24	23.3	23.6	24.6	48.6	49.5	48.3	49.7	53.6	50.5	63.2
30.2	23.2	23.1	23	23.7	24.6	48.7	48.3	55.5	54.1	55.3	52.2	63.1
29.4	27.3	26.2	24.8	24	24.7	50.1	50.5	55.6	53.6	54.3	52.2	63.3
28.6	27.3	27.8	26.6	25	24.9	56.9	56.5	54.1	53.9	53.5	52.4	63
31.3	32.7	33.3	31.6	27.8	25.9	59.8	57.1	55.2	55.4	52.5	51.5	63.4
25	24	24	23.5	23.8	24.6	60.7	56.5	58.5	55.8	53	51.5	63.7
27.5	27.1	26.8	24.5	23.9	24.7	60.6	55.2	58.6	56.4	50.9	49.7	63.5
27.9	26.1	26.3	24.8	24	24.6	60.1	56.5	58.5	55.8	51.3	51.9	63.5
24.7	23	23	23.2	23.7	24.5	57.3	58.2	56	54.2	52.6	51.9	63.6
24.1	23.1	23.1	23.1	23.7	24.6	56.9	58.2	55.1	56.5	53.6	52.4	64.3
24.7	23.6	23.3	23.4	23.7	24.6	63.5	61.8	59.5	57	55	53.8	62.8
25.1	24.2	23.7	23.8	24.1	24.6	63.9	60.8	60.8	57.7	56.7	55.1	62.9
25.8	24.7	23.3	23.5	23.8	24.6	63.7	63.5	60.2	57.5	59.3	55.6	63.5
24.5	23	22.8	23	23.5	24.6	63	63.5	61.3	56.5	58.8	54.5	63.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
24.6	23.3	23	23.1	23.7	24.5	59.6	60.5	60.6	60	55.7	53.6	63.1
24.3	23.1	22.8	23	23.8	24.6	60.2	58.6	61.4	60.2	54	55.6	62.7
24.5	23.4	22.9	23.2	23.7	24.5	61.4	60	60.6	59.3	55.2	56.4	63.1
24.3	23.3	23.1	23.1	23.7	24.5	63.9	59.4	60.4	58	55	56.2	63.7
24.4	23.3	23.3	23	23.6	24.5	63.3	60.4	57.4	58.5	54.3	53.9	64.2
24.3	23.1	23.1	23	23.6	24.7	60.6	60.5	58.6	59.5	55.3	53.2	64.1
24.8	23.5	23.3	23.1	23.6	24.6	64.9	63.2	60.4	59.3	57.9	54.6	63.7
24.4	23	22.8	23.1	23.6	24.5	64.4	62.5	66.4	60.7	58.1	55.4	63.6
24.5	23	22.6	23	23.7	24.6	61.4	61.6	65.5	64.6	59.9	55.9	63.6
24.1	22.8	22.6	23	23.6	24.7	61.1	67.6	64.2	65.6	60.7	55.8	63
24.3	22.8	22.8	23.1	23.7	24.7	67.7	69.3	62.8	64.9	59.2	54.1	63.2
24.3	22.9	22.8	23	23.8	24.5	71.9	67.9	62.3	61.8	57.4	58	63.8
23.9	22.7	22.6	22.9	23.7	24.6	70.8	67.1	61.8	61.5	60	56.6	63.7
23.6	22.8	22.7	22.9	23.6	24.5	68.6	66.8	62.3	59.4	58.1	55.4	63.2
23.7	22.7	22.7	23	23.7	24.6	67.9	66.2	60.7	57.8	54.7	53.1	64.1
24.6	22.7	22.3	23	23.6	24.5	66.3	65.8	57.4	56.2	51.8	52.8	64
25.6	23.7	23.1	23.2	23.8	24.6	64.1	62.9	55.8	53	51.3	61.1	62.3
26.3	24.3	23.3	23.2	23.8	24.5	64.1	59.7	54	52.4	50.9	61.4	61.8
28.8	26.3	23.7	23.4	23.9	24.6	61.8	57.5	52.1	51.9	51.1	58.6	62.2
31.9	33	33.5	31.9	26.4	25.1	59.1	55.6	50.7	54	50.5	54.7	62.3
41.9	38.6	36	34.1	30.1	27	56.4	54.8	47.5	54	52.6	54.3	62.1
32.4	30.4	28.2	26	24.6	24.8	55.3	53.9	48.9	52.2	52.7	52.7	62.7
26.1	23.6	23.1	23.2	23.6	24.5	56.4	54.2	52.9	51.8	49.8	52.1	61.6
25.1	23.4	22.8	23.1	23.5	24.5	56.4	53.4	52.5	49.1	50.9	52.6	62.2
25.6	23.6	22.9	23.1	23.7	24.6	56.6	52.6	51.4	50.6	51.1	51.6	62.5
25.5	23.4	23	23.2	23.5	24.5	56.7	52.8	50.8	49.6	49	52.6	61.9
25.3	23.2	22.9	23	23.8	24.5	53.7	51.7	50.1	47.9	47.2	54.6	62.6
25.5	23.5	23.1	23	23.6	24.5	50.9	51.4	49.3	47.1	47.2	54.2	61.2
25.3	23.3	22.9	23.1	23.8	24.6	51.8	51	48.9	46.3	48.3	53.3	61.3

53.3	55.2	57.4	54.5	50.1	49.8	48.5	47.9	48.7	40.3	39.4	45	40.9
52.8	54	57.4	53.1	50.9	48.2	47.9	47.5	48.3	39.8	38.9	45.5	41
53	52.8	57.5	51.8	50.7	48.2	47.5	46.3	48.3	39.5	38.5	45.5	40.8
52	53.1	57.3	52.7	51	48.1	47	46	48.2	39	38.7	45.6	40.3
51.8	53.7	57.1	53.4	50.6	47.7	46.5	44.7	48.3	39.1	38.7	45.3	40.8
51.8	53.2	56.2	53.3	50.3	48.2	46.5	44.5	48.6	40.2	40.2	45.5	41.8
52.2	53.1	56.5	53.3	52.5	49.1	45.6	45.7	48.6	43.3	41.9	45.5	43.7
51.2	52.8	56.5	53	52.3	52.2	45.8	45.9	48.6	43.4	41.6	45.5	43.8
51.4	53.4	56.1	52.8	50.6	51.9	46.4	45.3	48.3	42.8	41.2	45.6	43.5
52.6	53.2	56.8	53	50.2	51.6	46.2	45.5	49.3	43	42.7	45.8	43.2
51.9	52.9	56.8	53	49.6	52	46.4	45.3	49.6	44.6	44.3	45.5	44.4
51.8	52.2	56.7	51.9	51.4	52.8	46.7	45.6	49.6	45.2	48.4	45.9	45.5
50.9	52.9	56	52.4	50.9	55.6	46.5	46.8	49.2	45	49.4	46	45.4
50.8	52.9	55.5	52.7	50	55.9	46.9	46.7	48.5	44.1	48.1	44.3	44.8
50	52.5	57.1	52.2	51.1	55.3	48	48.3	47.8	43.3	46.5	43	45
49.5	51	57.4	51.2	50.7	54	47.6	49.7	49.8	42.5	45.3	42.9	43.8
50.3	52	57.5	53.2	51.5	55.6	48.3	55.5	53.9	48.3	53.6	46.3	45.4
51.3	52.3	57	52.3	52.1	56.6	48.7	56.7	54.5	49.3	55.4	50	45.9
51.2	52	56.4	51.3	50.8	56.5	49.4	56.5	54.2	48.2	55	50	45.9
50.7	53.5	56.6	52.2	51.5	56.6	49	56.4	53.9	47.7	51.7	48.8	45.3
51.9	53.8	56.3	52.2	51.6	57.6	49.3	57.1	52.5	47.4	54.1	47.7	51.8
54.3	53	55.2	51.7	51.6	56.4	49.9	60.1	52.5	48.4	56.7	47.2	52.4
56.1	51.9	55.7	53.1	51.1	55.3	50.7	60.8	52.4	49.5	58.4	48.4	52.1
56.1	52.3	56.8	52.3	50.9	56.2	52.8	60.2	52.3	54.2	60.2	50	52.6
54.1	51.8	56.5	52.2	50.7	56.4	56.8	61	53.5	56.6	61	53.9	54.6
52.9	52.3	56.5	54.1	53.7	57.3	58.2	60.3	53.5	56.3	59.7	53.9	54.3
52.3	51.8	55.4	52.4	52.4	58.4	59.9	58.7	56	57.5	57	53.9	54.6
49.2	51.5	54	50.8	55.7	59.7	63.1	56.9	57.2	57.4	55.1	55.3	55.3
51.5	51.8	55.4	51.2	59.5	60.6	63.1	55.5	59.1	57.8	55.7	54.8	54.4
51.8	52	56.4	51.6	63.2	60.6	62.7	55.2	58.8	58.3	55.7	54.2	54
52	50.5	58.3	51.4	64.9	60.6	64	55.5	58.8	58.2	54.8	54.9	54
51.9	51.3	58.1	52.2	66.8	58.7	63.4	55.5	58.4	60.6	54.8	54.6	54.8
51.3	51.1	58.4	51	66.5	57.7	65.7	55.4	56.9	64.1	55.7	55.7	56.6
51.9	53	58	51.1	65.1	59.3	66.3	57.5	58.4	64.6	56.1	56.7	58
52.9	52.3	58.2	52.5	64.6	61.6	65.3	60.2	62.6	63.5	56.5	58.6	59.1
52.7	52.3	57.5	53.1	64.5	63.4	63.5	60.9	63.6	61.7	56.1	58.2	58.3
51.1	51.9	57.1	55.3	62.8	63.9	62.4	61.5	63.5	58.7	54.7	56.4	56
49.8	50.9	57	57	60.5	63.3	62.9	60.7	63	55.6	52.4	53.3	53.4
49	50.7	55.1	57.1	58.1	62.9	63.1	59.5	62.8	54.4	53.3	51.4	53
50	50.4	57.2	61.7	55.4	62.8	63.6	59.1	60.8	55.6	54.1	52.9	55
51.7	50.1	58	61.7	53.9	62.7	63.4	58.8	58.2	55.2	52.1	51.8	53.6
53.7	51.1	56.6	61	53.5	60.7	63.4	57.6	56.8	54.5	52.2	53	52.9
54.3	52.7	56.9	58.6	54.2	58.4	62.4	56.6	55.9	53.5	51.6	51.8	53.1
54.2	52.7	57.1	58	56	55.8	62	56.4	57.2	52.1	50.5	52	53.1
54.3	51	56.7	58.2	57.6	55.6	63	56.7	59.5	51.4	56.3	55.2	53.8
54.3	51.9	57.8	60.3	58.4	54.8	63.8	57.9	61.2	50.9	58.8	55.2	54.6
53.7	52	57.5	58.6	57.3	53.9	63.5	57.7	61	49.8	57.7	53.6	53.3
53.7	50.8	57.2	57.7	55	53.8	61.8	55.5	59.2	48.4	55.6	53.1	51.8
53.4	50.1	57.2	57.9	53.5	53.8	60.8	54.2	57	47.2	53.1	52	49
52.2	51.6	57.2	58.3	52.9	54.3	60	52	57	47.2	52.8	55.5	48.6
53.2	51.3	57.5	58.7	53.4	55.1	58.3	51	55.8	46.7	50.2	55.6	48.2
52.9	50.6	56.1	58.6	52.1	54.7	56.9	49.4	53.4	48.8	50.4	55	50.8
51.5	51	56.3	57.8	52.6	54.3	56.3	48.8	52.4	48.5	50.4	53.6	50.3
51.3	50.7	56.3	57.4	54.3	54.4	54.6	49	50.3	47.2	47.9	50.1	47.2
52.8	50.7	56.2	55.6	54.2	54.1	53.4	48.6	49.4	46	45.3	46.9	45.1
52.8	50.8	57	54.6	53.3	52.9	52.4	48.4	49.3	47.2	45.2	44.7	44.5
53	50	56.9	54.8	54	52.8	52.8	48.7	49.7	47.4	45.3	44.9	44.3
52.2	49.8	55.6	56.5	54.1	52.8	53.1	47.9	48.7	47.6	45.3	44.9	43.4
53.1	50.3	55.5	56.1	54	53.7	54	48.1	48.1	46.4	43.5	42.9	41.5
53.1	50.7	57.1	55.1	53.4	53.7	54	48.2	48.1	45.6	41.2	41.1	41.9
52.6	50.7	57.2	53.6	52	53.7	53.7	49	48	45.2	39.5	40.1	41
51.5	52.3	57.1	54.6	53	53.5	53.3	48.6	48.9	44.4	41.3	43.5	42.7
49.8	53	56.9	55.9	53	53.6	53	47.1	48.8	45.6	43.6	44.8	43
50.2	54.6	56.6	55.8	53.2	53.7	53.4	47.4	48.2	44.9	44	49.7	46.2
51.5	53.4	58.3	56.7	52.2	53.1	55	48.3	47.8	44.7	43.9	49.4	47
52.4	54.3	58.2	56.5	53.4	52.9	54.8	48.1	47.5	44	42.8	47.4	47.1
52.4	52.8	58.3	55.4	52.5	52.7	53.8	48	47.6	42.9	40.8	44.8	47
51.4	51.8	58.2	56	51.7	54.2	53.8	51.3	46.7	42.9	39.7	43.1	44.1
50.4	49.6	57.2	54.6	51.9	53.7	54.6	51.9	49.9	42.1	39.3	41	41.7
52	52.1	57.8	55	51.9	52.7	54.6	51.4	50.1	41.6	38.6	41.8	42.8
52	53	58.2	53.8	51.6	52.2	53.6	50.1	47.8	40.9	38.7	41.1	41.6
52.3	51.8	58.5	53.6	51.8	52	53.8	49.2	45.2	41	40.1	43.5	43.7
52.9	52	57	52.1	50.9	52.4	53.9	47.9	44.4	44.2	41.2	47.1	45
53	51.5	57.1	53.4	50.6	53.1	54.4	49	44.7	44.6	42.1	47.2	45.6
52.9	51.2	57.1	53.2	51.3	52.8	54.3	48.9	44.1	43.1	40.7	44.5	43.3
53.3	52.3	56.9	52.3	51.1	52	54.2	48.2	42.4	43.2	39.9	43.1	41.4
54.2	52.8	57.7	52.5	50.4	51.4	53	48.1	42.4	44.2	39.8	43.8	40.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
55.3	52.6	57.9	52.1	51.4	53.1	51.7	47.1	43.4	44.1	40.6	44.3	41.3
55.8	52	57.5	51.9	51.2	52	51.1	46.9	42.5	41.8	39.6	43.6	40.3
54.4	54.5	56.8	51.3	50.9	50.5	51.9	47.1	41.1	40.8	37.8	41.5	37.7
53.9	55.7	56.6	52	52.1	50	51.6	47.9	41.2	41.3	37.6	40.2	37.1
54.1	54.4	57.6	54.2	51.9	48.9	51	51.9	43.8	41.2	38.2	40.1	37.2
54.8	52.9	57.3	54.5	52.8	48.2	49.9	51.9	43.9	40.4	38.2	38.5	36.5
55.9	53	58	54.9	52.8	49.4	49.6	50.7	43.4	41.5	38	37.7	36.8
56.2	52.8	58.2	55	52	49.6	49.5	50.8	43.7	42.1	38.7	37.9	37.2
54.9	52.7	59.4	53.4	52.8	50.5	49.1	49.3	44	42.7	39.6	39.1	37.3
55.8	53	59.4	54.3	52.5	51	49.4	48	44.1	41.7	39.3	38.9	36.8
53.8	53.5	58.1	54.4	52.7	50.2	48.8	47.4	42.6	40.8	38.2	38.1	36.5
55.5	53.5	58.9	53.7	52	49.6	49.6	47.3	41.6	40.9	37.3	38.3	36.4
55.9	54.6	59.1	52.4	51.4	49.5	50	46.6	41.8	40.3	37.4	38.3	36.4
55	58.2	58.6	53.1	52.1	49.3	49.8	45.8	41.6	40.2	37.4	38.8	36.6
55.2	61.1	58.1	54.2	53.7	48.9	49.9	45.5	41.1	40.9	38.8	38.8	36.7
55	64.7	57	53.9	54.5	50.1	49.8	45.2	42.4	41.1	39.8	42.6	38.5
62	64.8	55	53.5	53.8	50.4	49.6	45.5	46.6	40.1	39.4	43.4	39.1
62.2	62.8	55.1	52.9	51.9	49.8	49.9	45.5	48.6	39.3	38.7	43.7	39.2
61.8	60.4	57	55.8	51.7	49.6	49.5	46.3	49.5	40.7	38.8	44.1	40.7
59.4	58.1	58	57.9	55.9	50.2	50.2	46.3	49.6	41.8	40.6	44.1	41.6
56.5	55.8	58.5	65.5	56	50.2	50	45.8	49.8	43.5	41.8	44.8	42.1
55.2	55.7	58.3	66.1	53.2	49.8	50.4	45.3	50.1	43.3	41.1	44.6	41.6
55.4	55.7	63.5	64.5	51.9	49.8	49.7	45.6	49.7	43.6	41.1	44.1	41.4
55.6	55.8	63.4	62	52.7	49.5	49.1	44.8	49	41.8	39.7	44	40.2
55.4	55.4	62.8	58.6	52.5	50.8	48.1	44.3	48.7	40.6	38.6	44.4	39.9
57.1	56.7	60.1	55.5	52.1	51.6	54.9	43.5	48.8	39.8	37.7	45.3	39.2
57.4	56	58.1	53.9	51.7	50.8	54.9	43.5	48.5	40	38	45.5	38.8
56.7	55.9	57.8	52	54	50.7	52.7	43.6	48.5	38.6	38.1	45.5	39.8
54.7	60.3	57.7	51.6	54.7	51.1	50	43.7	48.7	38.6	37.9	45.3	39.6

42.7	39.7	40.4	39.6	37.3	35.1	33.7	31.8	28.8	27.3	24.9	23.2
41.8	39.5	40.3	39.4	37.4	35.3	33.8	31.8	28.9	27.3	25	23.3
41.3	39.5	40.6	38.9	37.3	37.2	35.7	31.6	28.9	27.6	24.9	23.3
41	39.6	40.8	38.9	37.1	36.7	34.8	31.5	28.9	27.2	24.9	23.3
41.1	39.6	40.7	39	36.8	35.9	33.9	31.5	28.9	27	24.9	23.1
41.6	39.5	40.8	38.7	37.8	35.6	33.7	31.5	28.8	27.2	25.1	23.2
42.3	40.2	40.7	38.8	37.9	36.2	33.9	32	29.1	27.4	25.4	23.3
42.6	40.8	41.1	38.9	38	36.3	34	31.9	29.1	27.4	25.4	23.3
42.7	43.5	41.1	39.2	37.9	36.2	33.9	31.6	29	27.1	25.1	23.3
42.7	43.4	43.1	40.5	38	36.1	33.9	31.6	28.8	27.2	25.2	23.2
43.1	43.5	43.1	40.4	37.7	36.1	33.8	31.5	28.9	27.3	25.2	23.3
44.8	45.1	43.6	40.7	37.7	36.3	33.7	31.5	28.8	27.3	25.3	23.4
44.3	45.2	44	40.6	37.7	36	33.6	31.4	28.8	27.3	25.3	23.5
43.5	45.3	43.2	39.7	36.3	34	32.4	30.1	28.1	27.5	25.9	23.8
42.7	43.9	42.2	39.6	34.8	32.4	31.3	29.3	27.7	27.5	25.9	24.2
43.4	44.7	43.4	38.8	35.7	36.5	34.9	36.6	34.7	33.1	30.7	28.4
45.8	47.2	44.1	39.5	36.2	36.3	34.7	36.3	34.4	32.8	30.5	28.2
47	52.5	46.3	41.3	39.2	35.5	34.2	34	32.4	30.8	28.2	26.1
48.1	52.4	46.9	41.5	39	35.3	33.9	33.3	31.3	29.7	26.9	25.4
47.6	51	45.8	40.9	38.9	34.6	33.4	32.2	30.1	28.6	26.1	24.5
50.4	51.7	47.4	42.6	38.6	35.1	33.2	32	29.3	28.4	26.3	24.5
51.1	51.7	48.1	43.4	38.7	34.9	33	31.7	29.2	28.6	26.9	25.4
51.1	51.7	47.7	42.5	38	34.6	33.2	32.1	28.9	28.7	27	25.5
53.6	50.8	48	44.6	41.5	36.5	34.5	34.7	30.9	29.3	26.9	25.2
54.5	51.1	48.2	45.8	41.4	36.4	34.3	34.2	30.6	29	26.7	25
53.4	52	47.9	45.1	41.2	35.8	32.8	31.7	28.6	27.9	25.8	24.3
51.6	53	49.9	46.7	44	40.2	33.7	29.9	27.2	27.2	25.2	23.9
53.8	54.8	50.9	47.5	45.2	42.2	33.9	29.4	26.9	27.1	25.1	23.9
54.2	53.5	51	47.6	45.3	43.1	34.2	28.9	26.5	26.9	24.7	23.6
54.1	52.6	51.5	47.8	44.8	44.4	34.4	29	26.8	28.3	24.5	23.4
54.4	52.4	51.7	48.7	45.2	44.8	34.5	29	26.6	29.9	24.4	23.3
53.3	51.2	50.7	47.3	46.3	44.3	35	29.2	26.6	30	24.2	23.2
53.3	52.9	52.6	49.8	50.5	46.2	36.7	29.8	26.3	28.1	23.9	23
53.8	54.4	53.1	50.4	50.8	46.3	37.7	29.9	26.8	27.7	24	22.9
56.1	57.1	53.6	51.7	50.3	45.8	37.9	29.8	26.5	26.9	24.2	22.9
56	56.8	53.3	51.9	51.8	45	36.4	29.7	26.7	27.8	24.1	22.8
55.4	55.1	54.1	52.1	51.8	44.7	36.4	29.6	26.5	27.2	23.7	22.7
55.1	54.7	53.1	49.7	50.3	44.1	35.4	30.4	28.6	31.1	26.2	24.5
55.1	55.2	53.5	50.9	50.2	44.2	35.4	30.4	28.5	30.9	25.9	24.3
54.6	55.5	53.9	51.7	49.4	42.2	35.5	29.4	27.4	29	24.8	23.5
53.4	53	51.8	49.9	49.4	40.3	34.1	28.8	26.9	28	24.3	23.2
53.4	51.9	50.6	49.9	49.9	39.6	33.5	28.3	27.1	27.8	24.1	23
53.4	50.8	49.6	48.3	48.8	38.4	32.9	28	26.4	27.4	24.2	22.9
53.1	50.4	49.4	47.7	47	37.4	32.2	28.1	27.1	27.5	24.2	23
53.4	51	50.1	47.9	44.7	36.1	31.2	28	26.6	27.2	24	22.9
55.5	52.3	51.6	47.9	44.2	36.2	31	28.1	27.7	29.7	25.3	23.2
53.5	50.6	49.4	46.8	43.1	35	30.6	28	27.6	29.6	25.4	23.2
51.6	48.6	47.8	46	42	34.7	33.3	32.1	31.7	30.6	29.1	27.7
49.6	46.6	45.9	44.6	40.4	34.3	34.7	32.3	31.7	32	32.1	32.6
50.9	47.9	45.3	43.9	39.5	34.6	35.4	34.4	34.3	35.7	36.3	33.3
50.9	47.7	44.4	43.6	39.3	34.4	35.1	34.2	34.1	35.4	35.9	33.1
53.2	50.5	44.6	43.1	38.6	32.8	34.2	32.5	31.8	32.5	32.5	29.9
52.8	50.1	44.1	42.8	38.3	32.8	32.2	30.7	30.1	30.1	29.3	27.1
49.1	46.5	42.2	41.1	37.5	32.3	31.4	30.4	30	30	27	25.3
45.8	44.8	41.2	42.2	38.3	38.6	33.1	29.7	30	29.8	26.5	25
43.4	43	42	42.4	39.1	40.6	38.8	39.3	38.2	37.5	37.5	37.3
43.6	43.2	42.1	42.5	39.4	40.7	38.8	39.3	41.8	40.5	38.5	38.3
44	42.8	40.9	40.6	37.6	37.9	37.4	37.4	40.4	39.3	38	38
43	41	39.1	38.3	34.8	34.5	34.2	34.2	36.6	36	34.4	34.4
41.4	39	38	36.6	32.5	31.8	31.8	31.2	33.2	33	31.3	31.1
40.7	38.6	37.7	35.5	31.2	29.8	30	29.3	30.4	30.3	28.5	28.1
40.7	38.9	37.8	35.3	30.7	28.7	29.1	28	28.8	29.4	26.4	25.7
43.5	41.5	38.3	35.4	30.5	28.4	28.6	27.2	28.2	32.1	27	24.5
45.5	42.8	40.8	37.3	31.2	28.3	28.5	27.1	27.8	32.2	26.7	24.9
45.4	42.5	40.8	37.3	31	28.9	28.4	27.3	27.3	32.5	30.1	25.1
44.9	42.2	40.2	37.5	30.9	28.5	28.4	27.3	28.1	35	29.7	27.3
44.2	40.6	39.4	36.6	30.9	28.6	28.7	27.4	27.7	33.2	29.9	28.5
41.5	39.3	38.1	35.7	31.1	30.2	30.1	30.3	29.6	31.8	31	31.9
39.9	38.3	37.3	35.1	31.3	29.7	29.9	29.8	29	30.9	30	30.7
40.1	38	36.6	35	31.9	30.3	29.8	29	28	28.6	28	28
39.2	38	36.5	35.3	31.9	30.4	29.9	29.2	28.1	28.8	28.9	27.8
39.5	37.9	36.5	35.3	31.9	30.6	29.9	28.9	27.8	28.2	27.6	26.6
41.8	39.2	39	35.9	32.9	30.5	29.6	28.2	27	27.1	26	24.7
41.9	39.6	39.2	36.3	33	30.7	29.6	28.3	26.9	27.1	25.1	23.9
40.9	40	38.7	36.8	36.5	35.7	31.6	30.2	29.8	27.9	25	24.1
39.8	39	38.6	36.8	36.8	34.3	31	29.5	28.8	27.4	26	24.9
40.1	39.4	39.3	38.3	35.5	35	31.6	29.6	27.8	27.2	25.4	24.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
40.1	39.6	39.3	38.3	35.6	35	32	29.9	27.4	26.8	24.9	23.6
39.7	38.8	37.9	36.7	34.1	33.2	31.9	29.7	27.3	27	24.7	23.4
37.6	36.9	36.8	35.8	33	31.2	30.4	28.5	26.9	26.8	24.5	23.4
36.6	37.2	36.6	35	32.4	30.2	29.7	28.2	26.8	26.8	24.5	23.3
37.1	37.5	36.6	34.9	32.6	31	30	28.5	27	26.8	24.5	23.4
36.7	37.2	36.3	34.5	32.4	30.7	30	28.5	27	26.5	24.4	23.4
36.7	37.3	37	34.8	32.4	31	30.3	28.9	27.4	26.9	24.8	23.6
38.1	39.3	38.5	36.1	34.1	31.7	30.1	28.9	27.1	26.6	24.6	23.2
38.9	39.5	38.7	36.8	34.3	31.9	30.7	29	27.3	26.9	24.6	23.2
37.9	38.8	38.4	36.2	34.7	31.8	30.5	28.9	27.3	26.8	24.6	23.1
37	38.8	37.9	36.2	34.5	31.6	30.2	28.8	27.2	26.9	24.5	23
38.1	39.4	38.5	36.9	34.9	31.9	30.1	28.7	27.1	26.8	24.3	23
38.2	39.3	38.5	37	34.9	31.9	30	28.6	27	26.7	24.3	22.9
37.6	38.6	38.3	36.7	34.9	31.9	30.1	28.6	26.6	26.1	23.9	22.9
37.7	38	38.6	36.4	34.7	31.8	30.3	29.1	26.5	26	23.8	22.8
39.7	39.1	39.3	37.8	38.2	34.2	32.7	30.9	27.8	26.6	24.4	22.8
40.4	39.6	39.9	38.8	38.3	35.6	33.8	32	29	27.4	25.3	23.4
41.7	40	40.5	39.1	38.7	36.5	34.8	33.1	29.8	28	26	24.1
41.9	40.4	41.2	39.9	39.4	37.4	35.8	34.1	31.9	29.9	28.1	25.7
41.7	40.9	42.1	40.4	39.3	37.6	35.8	34.3	32.9	32.2	31.4	32.4
41.9	42.2	44.7	43.4	45.6	45.8	45.6	44.9	43.5	41.9	39.9	37.2
41.9	42.4	44.2	43.1	44.4	44.8	44.6	44.5	43.5	42	40.1	37.5
41.2	41.7	42.7	41.3	41.4	41.5	41	40.9	39.8	38.4	36.5	33.9
40.1	40	41.1	39.5	38.9	38.7	37.7	37.5	36.1	34.7	32.8	30.3
40	38.7	40.6	38.8	37.5	36.8	35.4	35.1	33.1	31.6	29.7	27.3
39.4	38.5	40.5	38.6	36.7	35.8	34	33.5	31.2	29.6	27.6	25.4
40.4	38.7	40.7	38	36.5	35.6	33.5	32.5	30.2	28.5	26.4	24.2
40.5	38.8	40.9	38.7	37.2	35.7	33.7	32.2	29.5	28.2	25.8	23.7
40.3	38.6	40.8	38.7	37.2	35.5	33.5	32.3	29.2	28	25.7	23.6

22.9	23	23.6	24.6	43.4	42.2	48.5	52.6	51.6	53.3	63.6	51.8	53.6
23	23	23.6	24.6	42.8	47.2	49.4	52.8	51	53.3	62.4	51.4	51.8
23	23.1	23.7	24.6	55.3	46.6	50.3	49.9	51.3	54	61.5	50.7	51.7
22.9	23	23.6	24.6	55.5	55.7	49.5	49.6	50.6	54	60.9	50.3	52
22.9	23	23.6	24.6	55.1	56.5	49.8	50.5	49.4	55.3	60.5	49.7	52.4
22.9	23	23.6	24.6	55.1	54.7	49.6	48.1	49.5	53.5	60.6	50.6	52.3
23	23.1	23.7	24.6	53.1	51.8	47.7	46.9	49.1	51.9	61.1	51.1	51.5
22.9	23.1	23.8	24.6	51	49.8	47.5	46.8	48.1	51.3	61.5	49.5	51.9
22.9	23.2	23.8	24.6	47.5	49.3	46.5	49.3	48.6	53.6	60.2	49.7	52
22.8	23.1	23.8	24.6	46.9	47.7	43	51.4	51.1	54.1	60.6	51.3	52
22.9	23.2	23.8	24.6	46.9	47.7	41.9	50.5	50.5	54.5	61	50.1	51.9
22.9	23.2	23.7	24.6	45.2	48.7	43.5	50.4	51.2	54.9	61.4	49.7	50.9
23.1	23.3	23.8	24.6	43.5	45.7	46.5	49.9	50.3	55.1	60.4	50.1	51.5
23.4	23.4	23.8	24.7	42.6	45.7	45.7	49	49.9	54.3	60.7	49.6	51.8
23.5	23.4	23.8	24.7	42.5	46.7	45.4	46.4	48.2	51.7	60.6	49.1	51
26.8	25.6	25	25.1	41.6	51.4	46.9	46.4	47.6	50.9	62.7	47.6	50.1
26.6	25.5	25	25.1	41	52.7	47	46.4	48.3	50.8	63	47.8	49.7
24.9	24.2	24.2	24.8	39.3	51.5	48.4	47.7	49.9	51.5	63.1	50.3	51.3
24.1	23.7	23.9	24.7	39.3	47.8	47.6	46.7	47.4	50.2	62.8	50.5	50.2
23.5	23.3	23.8	24.7	39	45.5	45.8	46.6	46.2	49.5	63	49.9	50.2
23.6	23.3	23.8	24.7	41.4	44.4	45.3	45.9	46.1	47.3	62.7	50.2	53
25.2	24.5	24.3	24.7	42.1	44.5	46.1	44.2	45.9	46.3	62.9	50.1	51.7
25.4	24.6	24.4	24.8	42.1	43	46.8	45.5	46	47.9	63.4	53.9	50.1
24.4	23.9	24	24.7	43.4	42.5	46.2	44.9	48.7	49.4	62.6	54.2	50.3
24.1	23.6	23.9	24.6	41.9	45	45	44.3	49.7	49.6	62.5	51.6	50.5
23.5	23.4	23.8	24.7	43.1	45.8	42.9	44.9	50.4	50.1	62.9	51	50.2
23.2	23.3	23.8	24.7	47.2	46.6	45	48.2	49.5	49.9	62.9	49.2	51.1
23.2	23.2	23.8	24.6	46.6	45.6	44.7	46.9	46.9	48.9	63.7	48.3	50.5
23.1	23.2	23.7	24.6	47.2	44.8	44.7	46.6	46.4	47.7	63.8	48.2	50.9
23.1	23.1	23.7	24.6	46.6	46.5	47.6	47.9	45.6	47.7	63.7	50.7	50
22.9	23	23.8	24.6	48.8	48.9	47.3	45.6	46.7	48	63.7	50.6	49.6
22.9	23	23.7	24.6	46.2	47.3	44.9	43.8	49.1	49.1	63.3	50.7	50
22.7	23	23.7	24.7	43.6	46.1	44.9	45.7	50.4	49.2	62.9	50.1	50.3
22.9	23.1	23.7	24.7	42.5	46.7	44.5	50.3	51.5	50.2	62.8	50.5	50.7
22.9	23.1	23.7	24.6	42.5	45.2	46.9	48.6	51.8	50.8	62.4	50.6	51.4
22.8	23.1	23.6	24.7	42.9	46.2	45.3	46.3	51.4	50.9	62.6	51.2	51.6
22.9	23.1	23.7	24.7	42.2	47	43.9	47.6	51.6	49.8	62.8	49.5	50.2
23.9	23.5	23.7	24.6	42.2	45.3	44.6	47.2	51.1	50.6	62.2	48.7	50.1
23.8	23.4	23.7	24.6	42	43.4	43.3	48.1	50.6	50.6	62.5	48.3	49.5
23.2	23.2	23.7	24.7	40.6	43.8	46.9	47.9	49.6	49.8	63.2	48.8	49.2
23	23.1	23.8	24.6	41.3	48.4	45.9	48.9	49.1	50	62.8	49	49.6
22.9	23.2	23.8	24.6	43.1	45.1	45.4	46.4	48.2	49.2	62.5	51.5	49.3
23	23.2	23.8	24.7	42.6	44.7	45.4	45.3	48	49.6	62.4	53.4	49.3
23	23.2	23.8	24.6	42.7	47.7	47	50.3	49.7	49.5	62.4	53.3	50.9
23	23.1	23.7	24.6	44.7	52.2	49.6	50.5	48.1	51.1	62.3	52.6	49.9
23	23.1	23.8	24.6	46.9	53	52.6	48.9	49.1	50.8	62.6	52.4	50.5
23	23.2	23.8	24.6	46	49.5	50.6	48.3	48.6	49.1	62.4	51.5	50
25.6	24.4	24.1	24.6	46.7	47.2	50.8	49.3	48.7	48.5	63.1	51.4	49.9
30.8	26.2	24.5	24.6	46.8	47.2	48.3	48.4	49.7	49	62.8	51.9	49.2
31.3	30.1	26.9	25.5	49	49.1	48	49.6	49.2	48.5	63.2	51.1	49.2
31	29.8	26.7	25.4	50.1	49.1	49	49.1	48	49.2	63	51.9	50.1
28.1	27.1	25.1	24.9	48.5	50.9	48	48.1	47.7	49.4	62.7	50.8	49.8
25.8	25.1	24.2	24.7	50.4	48.4	47.1	48.9	48.6	49.3	62.5	50.5	48.9
24.4	24	24	24.6	48.3	47.1	44.4	47.8	48.2	49.6	62.8	49.6	48.7
25.1	24.1	23.9	24.7	48	49.3	43.7	47.2	47	49.3	61.3	49.9	49.6
38	36.9	30.7	27.3	51.2	46.9	47.3	46	50.7	50.6	61.4	51.7	49
38.2	36.9	30.8	27.3	49.3	45	48.9	47.7	51.6	50.2	62.5	52.2	49.1
37.5	35.5	29.9	26.7	49.9	46.8	47.3	48.6	51.2	49.4	62.9	50.5	48.6
33.8	32	27.4	25.6	52.3	49.9	47.2	47.2	51.4	50.3	63.5	50	48.9
30.5	28.7	25.5	24.9	52.1	50.5	45.3	47.6	49.7	49.7	63.4	51.9	49.8
27.6	26.2	24.5	24.7	49.9	50.4	44	46.9	49.7	50.1	63.3	51	49.5
25.3	24.5	23.9	24.7	48.5	49.2	45.6	48.2	50.4	50.6	63.1	49.9	50.5
24.1	23.8	23.8	24.7	45.7	47.9	46.3	49.6	50	49.6	62.7	48.8	50.3
24.2	23.5	23.7	24.6	45.5	48.3	47	48.2	50.7	49.1	62.6	49.1	53
24.3	23.5	23.7	24.6	47.6	45.3	48.5	49.9	53.8	50.4	62.5	49.6	51
26.3	24.8	24	24.7	47.7	45	54.1	52.2	51.8	50.5	62.5	50.9	52.9
28.4	26.9	25	24.9	50.2	50.4	53.4	52.2	51.4	50.2	62.5	51.3	51.3
32.4	30.4	27.3	25.8	57	55.6	53.5	53.3	51	49.2	63	50.3	49.6
31.2	29.4	26.2	25.3	59.3	54.8	54.3	54.4	50.9	48.7	63.2	48.7	48.3
28.2	26.7	24.9	24.9	59.2	53.4	57.8	54.4	49.6	47.9	62.8	49.3	48.7
28	25.9	24.4	24.8	57.3	54.2	56.1	53.3	49.5	49.9	62.9	50.8	51.5
26.7	25	24.1	24.7	55.6	55.4	54.4	53.1	50.5	50.7	62.7	50.6	50
24.8	24	23.9	24.6	55.1	55.9	54	52.9	52.2	50.6	62.7	51.6	50.5
23.8	23.5	23.8	24.7	54.5	56.6	53.9	55.5	53.2	52	61.3	51.2	50.3
23.7	23.7	24	24.6	61.6	59.1	59.5	56.5	53.5	53.8	61.4	50.4	50.4
23.7	23.8	24	24.6	61.5	60.3	59.4	55.6	56	54	62.9	52.1	50.7
23.4	23.6	23.9	24.6	59.3	60.5	58.5	55	55.7	53.5	62.1	51.8	51

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.1	23.3	23.7	24.6	58.4	58.6	60.1	55.1	54.1	52.5	62.2	53.5	51.8
23	23.2	23.8	24.6	58.7	56.7	60.2	58.8	53	51.9	62	54.4	51
22.9	23.2	23.8	24.6	57.9	58.5	59.3	56.9	53.5	54	62.1	52.9	50.8
23	23.2	23.8	24.6	61.5	58.1	57.5	56	53.3	53.4	62.7	52.6	54.5
23.4	23.1	23.7	24.5	60.6	59.1	55.6	56.8	52.1	52.7	63.2	52	52.3
23.3	23.1	23.7	24.7	59.7	58.2	55.5	57.7	52	52	63	53.7	52.2
23.4	23.1	23.7	24.6	59.6	60.6	58.7	56.7	53.6	53.2	62.9	54.9	51.5
23.2	23.1	23.7	24.6	60.6	60.2	58.8	57.5	56.5	51.8	62.7	54	50.9
23	23.1	23.8	24.6	60.5	58.9	64.1	60.8	56.6	55	62.8	53.1	51.2
22.8	23.1	23.7	24.6	59.9	61.7	61.7	63.7	59.3	53.6	62.2	53	51
22.8	23.1	23.7	24.7	61.2	67.6	61.8	61.4	57.2	52.7	62.1	53	52.2
22.8	23.1	23.8	24.6	67.9	65.2	61.1	61.2	55.8	52.7	63.1	53.5	51.8
22.8	23	23.8	24.6	68.5	64.6	59.4	59.4	55.9	54.2	63	53.9	53.2
22.7	23	23.7	24.6	67.4	65.5	60.7	57.6	54.7	53.1	62.7	53.6	54.3
22.8	23	23.7	24.6	66.4	64.6	57.3	55.9	51.8	52.5	63.2	53.8	58.1
22.7	23	23.8	24.6	63.2	63	55.8	52.8	50.3	51.3	62.4	52.8	60.6
22.9	23.2	23.8	24.6	62.8	59.7	53.8	52.3	49.7	53	59.4	52.4	62.9
23.2	23.2	23.8	24.6	61.9	57.5	52.1	51.3	49.6	58.6	58.8	61.2	60.4
23.5	23.3	23.8	24.6	59.1	55.2	50.8	50.8	48.1	54.8	60.4	59.4	58.1
32.8	31.4	26.1	25.1	56.5	53.2	47.5	50.8	48	53.3	61.2	56.5	55.3
35.1	33.4	29	26.4	55	53.2	46.1	52.3	47.9	52.7	61.2	54.7	54.5
35.3	33.4	29.1	26.5	53.2	52.3	46.9	51	49.8	51.7	61.7	53.8	54.9
31.9	30.1	26.7	25.4	53.1	52.9	48.9	49.1	48.1	50.9	60.5	53.8	55.2
28.5	27.1	25	24.8	53.2	51.6	50.8	47.7	47.7	51.6	61.3	54.7	54.6
25.8	25.1	24.2	24.7	51.9	51.9	50.9	47.7	49	51	61.8	53.7	53.9
24.2	23.9	23.9	24.6	53.7	50.7	49.8	48	46.4	50.3	60.9	53.7	55.2
23.5	23.5	23.8	24.6	50.2	50.6	49.3	46.2	45.5	52.5	61.1	56.7	55.4
23.2	23.2	23.7	24.6	49.7	50.4	46.8	45.6	46.2	52.2	60.4	54.6	54.4
23.2	23.1	23.7	24.6	49.5	50.1	47	45.6	47.3	52.1	59.9	53.5	54.8

55.4	51.6	48.6	47.9	47.7	46.8	48.2	39.4	38.6	44.1	40.6	41.8	39.2
56.6	50.9	48.5	47.6	46.6	46.1	47.9	39.2	38.3	45	40.3	41.2	39
56.8	51.1	49.5	47	46.7	45.3	47.5	38.8	38	45.2	40	40.8	38.7
56.4	51.4	50	47	46.2	44.6	47.7	38.6	38.2	45.3	39.8	40.4	39.3
56.2	52	49.7	47.1	45.7	43.5	48	38.6	38.2	45	40	40.2	39
55.4	52	49.2	47.1	45.4	43.1	48	38.9	38.1	45.2	40.6	41.1	39
55.3	51.9	49.5	47.6	44.4	43.9	48.3	39.9	40.2	45.3	41.4	41.1	39.3
55.5	52.4	50.5	48.6	44.8	44.7	48	42.4	40.7	45.1	43.3	42.1	40
55.4	52.2	49.5	51	45.5	44.5	47.8	42.2	40.7	44.9	42.7	42.1	40.6
55.5	51.4	49.4	49.7	45.1	44.2	48.3	42.3	41	45.3	42.5	41.7	41.7
56.2	51.4	48.8	49.3	45.3	44.1	49	42.9	41.8	45.1	42.1	41.4	41.4
55.4	50.3	49.7	51.7	45.2	43.8	48.8	44	44.4	45.2	44.6	43	43.4
55.2	50.7	49.3	52.6	45.4	45.5	47.2	43.7	47.9	44.3	43.8	43.5	44
54.7	51	48.6	55.2	45	45.4	47.2	43.2	45.9	42.6	43.7	42.4	43.9
55.6	51.2	50	54.1	46.5	45.7	46.8	42.5	45.1	42.3	43.4	41.3	42.3
56.4	50	49.8	52.9	46.9	47.2	47.4	41.5	44.3	41.9	42.6	41.4	42.6
56.9	50.6	50.1	53.8	47	49.3	48.6	42.3	44.9	42.6	43.3	43.3	44.2
55.6	50.8	50.9	55.2	47.1	54.4	53.9	48.2	53.6	46.6	44.9	45.2	47.3
54.9	50.3	49.1	55.3	47.9	55.3	53.7	47.7	51.7	48.9	44.5	47	51
56.1	51.3	49.1	56.3	47.8	55	52.5	46.9	50.9	46.6	43.5	46	48.6
55.1	50	50.6	56.2	48.5	55.4	51.5	46.2	50.8	46.6	44.3	47.1	48.8
53.7	49.9	50.2	55.3	49	56.7	51.4	47.3	54.1	46.1	51.1	49.8	50
53.6	51.5	50.2	53.6	49.5	59.7	50.6	48.3	56.7	46.9	50.1	49.5	50.4
55.6	50.9	49.9	53.6	50.2	59.1	50.4	49.3	57.2	47.3	50.2	49.6	50.4
55.4	50.3	49.7	55.4	52.8	59.8	52.3	54.2	59.7	50	52.8	53.4	50.1
55	51.6	50.4	55.5	55.9	58.7	52.9	54.9	57	53.2	53.8	51.5	49.6
53.6	50.7	51	57.2	57.4	56.6	52.6	55.3	54.9	53.2	53.9	50.6	51.2
53.5	49.9	51.1	57.3	58.9	55.5	56.1	56.2	54	53.9	54.4	51.6	53.2
53.3	50	55.8	59.5	62	54.3	57.1	56.2	53.9	54.2	53.3	53.4	52.6
55	50.3	58.2	59.8	61.3	54.2	58.2	57.6	54.4	53.2	53.2	53.3	51.5
56	50.5	63.3	58.7	61.6	54	58	57.7	54.1	53.8	53.3	53.3	51.1
56.9	50.5	64.9	57.7	62.4	53.9	56.9	58	54	53.6	53.1	52.9	50.7
57.4	50.3	65.1	55.7	63.4	53.7	56.3	60.7	53.8	54.3	54.4	52.4	50.9
56.8	49.5	62.9	56.3	65.2	55.2	56.8	62.8	55.4	55.6	56.6	53.3	52.6
57.4	50	62.5	59.4	63.3	57.5	58.4	61.7	56	56.7	58	53.4	54.4
56.3	51.5	62.7	61.4	61.5	59.4	62.1	58.7	54.7	56.4	56	55.1	55
56.4	53.1	60.5	62.3	61.3	60.6	62.5	55.6	52.4	53.4	53.4	54.1	53.2
55.1	54.3	58.1	62.2	61.9	59.5	62.6	53.5	51.4	50.7	51.3	53.7	52.9
54.4	56.6	55.4	62.1	62.3	58.5	60.7	53.4	51.8	50	50.9	53.8	53.4
54.4	57.1	53.9	61	62.8	58	58.2	54.4	52.1	51.4	53.1	53.4	53
56.5	60.2	52.8	60.7	62.3	57.3	56.3	53.8	51.1	50.5	51.8	52	51.6
56	58.7	52.9	58.4	62.1	56.6	55.5	53.5	51.2	51.7	51.9	52	50.9
55.5	57.2	52.8	55.6	60.2	56.1	54.5	52	50.4	50.8	52.3	52.5	50.3
56.6	56.6	52.9	54.9	60.3	54.9	55.1	50.2	48.8	49.7	50.8	51.2	49
55.8	55.6	55.1	54.1	61	55	57.3	50.1	50.5	52.2	52.7	52.4	50.1
56.5	58.3	57.3	54	62.7	56.6	58.9	49.9	56.4	53.6	52.7	52.9	50.5
56.6	57.4	55	53.2	61.6	55.6	59.2	48.2	55.6	52.7	51.7	51.6	48.6
56.2	55.4	53.1	53.1	60.4	54.3	57	46.6	52.8	50.9	49	49	46.6
56.5	55.3	52.4	52.9	59.9	52	55.6	45.3	52.4	50.7	48.3	48.5	45.1
56.4	56.8	52.1	53.6	58.3	50.9	55.8	46	50.2	51.6	47.6	48.4	44.5
56	56.5	52.1	53.9	56.8	49.4	53.4	45.8	49	55	47.2	48.4	45.1
54.8	57.4	51.5	53.5	55.9	48.7	52.1	46.6	48.6	53.7	47.3	48.3	45
55.5	57	51.2	53.1	54.6	47.7	50.4	46.9	48	50.1	47.3	49.1	46.6
54.9	55.3	52.3	53.4	53.4	47.4	49.2	45.9	45.3	46.9	44.8	45.8	44.7
54.5	54.5	53.4	52.7	51.8	47.5	47.8	45	43.3	44.1	43.4	43.1	42.7
56.2	53.7	51.9	52.3	51.4	47.6	47.8	45.7	43.6	43.9	43.3	42.4	41.9
55.3	53.4	51.9	52.1	51.7	47.8	48.6	46.5	44.1	44	43.1	43.1	42.2
54.9	54.6	52.9	52.1	52.4	46.9	47.9	46.4	43.5	42.9	41.4	42.9	41
54.6	54.8	53.1	52.8	53	46.9	46.9	45.4	41.2	41	40.5	41.4	39
55.1	53.2	51.6	53.1	53.1	47.7	47	45.2	39.5	39.4	41	40.2	38.2
56.4	51.5	50.9	53.2	53.1	48	46.9	44.1	38.5	39.2	39.8	40.2	37.8
55.1	51.2	51.7	52.8	52.7	47	46.9	43.7	38.3	39.5	39.9	39.9	38
54.9	54.5	52.5	52.8	52	45.9	47.7	44.2	41.5	43.8	42.3	40.1	38.8
54.8	54.2	52.1	52.5	51.6	45.9	47.5	44.2	43.1	44.6	42.4	43.5	41.5
55.3	55.5	51	52.3	53.3	46.9	47	43.9	42.8	47.4	46	44.2	41.3
57.3	55.4	51.2	51.6	53.4	47.2	47.2	42.8	40.8	44.8	46	44.2	40.6
56.6	54.9	51.4	51.6	52.8	47.1	46.7	42.2	39.1	43.1	44.2	41.5	39.3
57.2	54.5	50.7	52.1	52.7	47.9	45.6	41.7	38.8	40.9	41.6	39.4	37.8
55.8	53.7	50.7	52.4	53.6	51.2	45.1	41.5	38	40.5	40.7	39.1	37.8
55.9	53.3	50.1	52.1	52.9	50	47.8	40.8	37.9	40.6	41.3	39.2	37.6
57	52.9	49.9	51	52.7	49.1	45.2	40	38.1	40	40.5	38.2	37.6
56.8	51.8	50.4	51.2	51.6	47.7	43.7	40.4	38.2	40.7	41.3	38.4	37.2
56.5	51.3	50.2	51.9	52.8	47	43.5	40.9	40.2	43.5	43.4	39.6	37.6
55.8	51.3	49.1	51.6	53.9	47.2	43.9	42.5	40.8	44.6	43.3	40.5	38.7
55.8	52.1	49.7	52	53.8	47.6	42.3	42.5	39.7	43.1	41.5	39.7	38.3
56.1	51.5	49.8	51.1	53.1	47.3	41.3	42.1	38.3	41.8	39.2	38	37.5
55.8	51.5	49.4	50.4	51.8	47.1	41.2	43	37.9	41.8	39	37.8	37.4

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
57	51.3	49.6	51.3	50.8	45.8	42.2	41.8	39.6	43.6	40.4	39.7	38.8
56.1	50.8	49.9	50.5	50.3	46.3	40.6	40.3	37.9	41.3	37.7	37.6	37
55.8	50.2	49.4	49.8	50.1	46.2	40.2	40	36.8	39.7	36.4	36.6	36.4
56	50.2	50.7	48.7	50.9	46.4	40.4	40.5	36.9	39.5	36.2	36.1	36.5
56	51.8	51.2	48.2	49.9	47.7	40.8	40.4	37.2	38.5	36.1	36	36.6
55.9	53.6	51.6	47.4	49.1	49.5	43.3	39.4	37.1	37.4	35.7	36	36.7
55.8	53.3	51.8	47.6	48.7	49.1	42.9	39.1	37.6	37.2	36.1	36.1	36.9
57.6	53	50.4	48.5	48.3	49.3	42.6	41.4	37.5	37.3	36	36	37.2
57.6	52.1	50.2	49.7	47.9	47.9	43.3	41.6	38.6	37.8	36.6	37.9	38.7
57.6	52.7	51.4	49.7	48.1	46.8	42.6	40.5	38	38.1	36.3	36.9	37.8
57.4	53.7	50.8	49.3	47.8	46.8	41.4	40.3	37.1	37.1	35.9	36.5	37.6
57.8	52.4	51.2	48.9	48.5	46.4	40.8	40	36.8	37.5	35.9	37	38.7
58.5	51.1	50.7	48.3	49.4	45.7	40.9	39.5	36.6	37.5	35.9	37.6	38.5
57.3	51.1	50.4	48.3	49.4	44.3	40.9	39.5	36.6	38	36.1	37.3	37.8
57	52.5	51.5	47.8	48.6	44.2	39.5	39.8	36.8	37.8	36.1	37.2	37.6
54.6	52.9	53.2	48.4	48.6	44.5	39.3	40.1	38.6	38	36.6	37.6	37.8
54	52.6	51.8	48.9	48.5	44.3	42.5	39.2	38.5	42.4	38.4	39.7	38.7
53.9	51.9	51.4	48.6	48.6	44.8	46.6	38.8	38.4	43.2	38.6	40.2	39.5
55.1	51.7	50.2	47.5	48.5	45.1	48.6	38.9	38.2	43.4	39	41.5	39.7
56.8	55.8	51.4	48.1	49.1	45	49.2	40.6	38.8	43.5	40.6	41.3	40.2
57.6	56.9	53.3	49.3	49.5	44.7	49.4	41.6	40.1	43.9	41.5	41.2	40.6
57.6	64.4	51.8	49.2	49.7	44.6	49.5	42.6	40.6	44.1	41.3	41.2	41.7
57.3	62	51.4	48.3	48.5	44.7	48.9	41.8	39.6	43.7	40	40.1	40
62.1	58.7	51.1	48	48.1	44.1	48.4	40.6	38.5	43.7	39.9	39.8	38.6
60.1	55.5	50.8	48.1	47	43.3	48.4	39.3	37.6	43.8	39	39.3	38.2
58	53.5	50.5	50.4	46.7	42.8	48.3	39	37	44.4	38.3	39	38
55.9	51.9	50.3	49.8	52.6	42.6	48	38.6	37.1	45.3	38.3	39.2	38.4
55.9	50.4	51.8	49.7	50.1	42.2	47.9	37.8	37.4	45	38.6	40	38.5
56.5	50.9	53.6	50.3	48.5	42.6	48.5	37.8	37.3	45	38.7	39.7	38.1

39.9	39.1	37.1	34.8	33.5	31.4	28.6	27.1	24.8	23.1	22.8	22.8
40	38.8	37.1	34.9	33.3	31.5	28.6	27.2	24.8	23.2	22.8	22.9
39.9	38.6	37	35.2	33.8	31.3	28.7	27.2	24.8	23.1	22.8	23
40.3	38.6	36.5	35.8	33.9	31.2	28.6	26.8	24.7	23	22.7	22.9
40.1	38.2	36.5	35.5	33.6	31.1	28.7	26.8	24.8	22.9	22.7	22.9
40.2	38.1	36.7	35.3	33.3	31.2	28.6	26.9	24.8	23	22.8	22.9
40.4	38.3	37.6	35.5	33.2	31.3	28.6	26.9	24.9	23	22.8	22.9
40.7	38.4	37.5	36.1	33.8	31.5	28.8	27.1	25	23.2	22.8	23
40.8	38.8	37.6	36	33.7	31.4	28.8	26.9	25	23.1	22.8	23
41	39.2	37.7	35.9	33.5	31.3	28.6	27	25	23.1	22.7	23
42.7	40.1	37.3	35.9	33.5	31.4	28.7	27.1	25	23.1	22.7	23.1
43	40.3	37.4	36	33.5	31.3	28.7	27.1	25.1	23.2	22.8	23
43.1	39.5	36.3	33.9	32.3	30	27.9	26.9	25	23.1	22.8	23
42.2	39.2	34.8	32.4	31.3	29.3	27.5	26.9	25.1	23.5	23.1	23.2
41	38.3	33.8	31.2	30.3	28.9	27.5	27.2	25.4	23.6	23.2	23.2
41	37.8	33.8	30.7	30	28.7	27.2	26.8	25	23.7	23.3	23.2
42.6	38.4	35	34.5	33.4	34	32.3	30.8	28.2	26.2	24.9	24.2
44	39.4	36	34.3	33.4	33.3	31.4	29.7	27	25.4	24.1	23.7
45.9	40.9	37.4	34.2	32.9	32.2	30.1	28.6	26.1	24.5	23.4	23.3
44.2	40.1	37.1	33.6	32.6	31.5	29.2	28.1	25.6	24.1	23.3	23.2
44.4	40	38.1	34.4	33	31.5	29.1	28.2	25.8	24.2	23.4	23.2
46.5	42.2	37.8	34.1	31.7	30.8	28.7	28.2	26	24.4	23.4	23.2
46.6	41.7	37.6	34.1	31.6	30.5	28.4	28.1	26	24.7	24.4	23.9
46.5	41.8	37.9	34	31.9	30.4	27.9	27.5	25.4	24.1	23.8	23.6
47.7	44.1	40.8	35.8	32.8	31.8	28.6	27.8	25.8	24.3	23.5	23.3
46.7	44.2	40.1	35.1	31.7	29.9	27.2	27.2	25.2	23.9	23.2	23.2
46.6	44.2	40.5	35.7	31.3	29.1	26.7	27	24.8	23.7	23.1	23.2
49.9	46.7	44	40.2	33.1	28.8	26.4	26.6	24.6	23.6	23	23.1
50.3	47	44.1	42.2	33.7	28.8	26.3	26.4	24.4	23.4	23	23.1
50.7	46.8	43.8	42.8	33.9	28.7	26.4	26.9	24.3	23.2	22.9	22.9
50.2	47.3	44	43.6	33.7	28.8	26.2	27.1	24.1	23.1	22.8	22.9
49.9	46.7	43.8	43.5	33.6	28.9	26.2	28.1	23.8	23	22.6	23
50.7	47.4	46.3	44.1	34.6	29	26	26.9	23.8	22.9	22.6	22.9
52.4	49.7	49.7	45.4	36.7	29.6	26	26.9	23.7	22.8	22.6	22.9
52.4	49.9	49.7	44.6	36.4	29.4	25.9	26.4	23.7	22.7	22.6	23.1
52.1	50.6	49.1	44.1	35.6	29.2	26.2	26.6	23.6	22.6	22.7	23.1
52.5	49.7	49.6	42.6	34.8	28.9	26	26.5	23.5	22.5	22.7	22.9
52.6	48.8	49.6	42	34.6	29	26.2	26.6	23.6	22.6	22.8	22.9
52.1	48	48.3	42.2	34.3	29.4	27.2	28.7	24.8	23.5	23.2	23.2
51.7	49.9	48.4	40.2	34.1	28.7	26.8	28.1	24.3	23.1	22.9	23.1
50.3	48.6	48.1	38.7	32.8	28.2	26.1	26.7	24	23	22.8	23
49.5	48.4	48.8	38.3	32.7	28	26.1	26.7	23.9	22.8	22.7	23.1
48.5	47.7	47.1	37.3	32.2	27.8	26.1	26.6	24	22.7	22.9	23.1
46.8	46.2	44.6	35.5	31.1	27.9	26.2	26.6	23.9	22.8	22.9	23
49.1	46.3	43.2	35.1	30.8	27.8	26.3	26.5	23.9	22.8	22.8	23
49.4	46.4	43.1	35	30.5	27.8	26.3	26.4	23.9	22.9	22.8	23
47.8	45.9	41.9	34.4	30.3	27.7	26.4	27.7	24.7	23	22.9	23
45.9	44.5	40.4	33.7	30.1	27.7	26.4	27.3	24.6	23.1	23	23.2
44.9	43.3	39.3	33.7	32.9	30.9	30.6	30.3	28.8	27.4	25.4	24.2
44.2	42.8	38.4	32.4	32.5	30.2	29.8	30.3	29	29.3	27.7	24.7
42.2	41.3	37.1	32.5	33.1	32	31.6	32.6	32.5	29.9	28.1	27.1
42.1	41.1	37	32.2	32.2	30.4	29.4	29.8	29.3	27.2	25.8	25.1
42.2	41.1	37.5	32.4	31.4	30.3	28.9	28.7	27	25.3	24.4	24
40.8	39.7	35.5	31	30.6	29.2	28.5	28.2	25.7	24.1	23.6	23.5
39.7	40.3	35.8	32.1	31.3	29.3	28.6	28	25.7	24	23.5	23.4
39.3	39.8	36.5	36.5	32.7	29.5	29.3	29.2	26.5	25.1	25.2	24.1
40.6	40.6	37.6	37.9	37.4	37.3	37.8	37	36.7	36.3	36.9	35.2
39.2	38.3	34.8	34.6	34.2	34.2	36.7	36	34.4	34.4	33.9	32.1
38	36.5	32.5	31.8	31.8	31.2	33	32.5	30.9	30.7	30.2	28.7
37.5	35.5	31.2	29.8	30	29.3	30.5	30.4	28.6	28.1	27.6	26.2
37	34.5	30.4	28.7	29.1	28	28.5	28.6	26.4	25.7	25.3	24.5
37.1	34.3	30.4	28.2	28.6	27.2	27.2	27.8	25.3	24.5	24.1	23.8
37.4	35.1	30.2	28	28.5	27	27	27.5	24.9	23.5	23.3	23.5
38.3	35.4	30.4	27.9	28.2	26.7	27	30.6	25.8	22.9	23	23.2
39.9	36.7	30.7	28.3	28.1	27	26.7	29.5	25.8	23.8	23.5	23.2
38.7	36.3	30.6	28.1	28.1	26.9	26.6	30.8	28.3	23.3	23	23
38.1	35.7	30.4	28.1	28.5	27.2	27.2	31.9	28.7	26.7	26.5	25.1
37	35.1	30.3	28.6	28.7	27.3	27.1	30.9	28.5	26.6	26.4	25.2
36.5	34.2	30.9	29.1	29.4	28.7	27.5	28.6	27.6	27.8	28.2	26.7
36.2	34.2	31	28.9	29.1	28.2	26.8	27.8	26.6	26.4	26.7	25.5
36	34.4	31.6	29.7	29.3	28.7	27.8	28.1	27.5	26.6	26.7	25
36.3	34.8	31.6	30	29.4	28.1	26.8	27.1	26	24.7	24.8	24
36.2	34.8	31.7	29.9	29.1	28	26.5	26.7	24.9	23.8	23.8	23.5
38.5	35.7	32.7	30.3	29	28	26.7	26.7	24.7	23.7	23.5	23.4
38.2	35.5	32.7	30.2	28.9	27.8	26.8	26.9	24.7	23.6	23.4	23.3
37.7	35.8	35.1	32.6	30.2	28.8	27.9	27.2	24.9	24	23.4	23.5
37.9	35.9	34.4	32.6	30.2	28.8	27.3	26.7	24.8	23.5	23	23.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
37.9	36.6	34.1	33.3	30.9	29.2	27.1	26.5	24.6	23.4	23	23.1
36.7	35.8	33	31.2	30.5	28.5	26.9	26.7	24.4	23.2	22.8	23.1
36.3	34.7	32.2	30.2	29.7	28.1	26.7	26.7	24.4	23.1	22.8	23
36.2	34.5	31.9	29.8	29.4	27.9	26.5	26.5	24.3	23.2	22.9	23
35.8	34.4	31.9	30.1	29.4	27.9	26.6	26.4	24.1	23.1	22.9	23
35.8	34.1	32.1	30.3	29.5	28.2	26.5	26.2	24.3	23.1	23	23
36.2	34.4	32.1	30.7	29.9	28.5	27	26.4	24.3	23.1	23.1	23
36.9	34.7	32.3	31	29.9	28.6	26.9	26.2	24.3	23.1	23	23
38.2	36	33.8	31.7	29.9	28.7	26.8	26.3	24.4	23	22.7	23
37.9	35.8	33.5	31.4	30.2	28.6	27	26.5	24.2	22.9	22.6	23
37.7	35.9	34.3	31.4	29.8	28.6	26.7	26.6	24.1	22.8	22.6	23
37.8	36	34.5	31.5	29.7	28.4	26.7	26.4	24.2	22.8	22.7	23
38.1	36.5	34.5	31.5	29.7	28.4	26.6	26.1	23.9	22.7	22.6	22.9
38	36.4	34.6	31.5	29.8	28.4	26.2	25.9	23.7	22.7	22.6	22.9
38	35.8	34.3	31.4	29.7	28.5	26.2	25.7	23.6	22.7	22.7	22.9
38.7	36.1	34.4	31.7	30.3	29.1	26.5	25.7	23.7	22.6	22.4	22.9
39.2	37.9	37.9	34.2	32.7	31	27.8	26.7	24.3	22.8	22.5	22.9
39.7	38.7	37.9	35.6	33.8	32	29	27.4	25.3	23.4	22.9	23.1
40.5	39	38.8	36.5	34.8	33.1	29.8	28	26	24.1	23.1	23.1
41.2	39.9	38.9	37.3	35.6	34.1	31.9	29.9	28.1	25.7	23.6	23.3
41.9	40.4	39	37.5	35.7	34.4	33	32.3	31.5	32.5	33.1	31.5
42.7	41.3	41.4	41.5	41	40.9	39.8	38.4	36.5	33.9	31.9	30.1
41	39.5	38.9	38.7	37.7	37.6	36.2	34.8	32.9	30.3	28.5	27.2
40.6	38.6	37.5	36.8	35.4	35.1	33.2	31.6	29.7	27.3	25.9	25.1
40.2	38.5	36.6	35.8	34	33.5	31.2	29.6	27.6	25.4	24.2	23.9
40	38	36.4	35.6	33.4	32.5	30.2	28.5	26.4	24.2	23.5	23.5
40.4	37.6	36.2	35.2	33.3	32.2	29.5	28.1	25.8	23.7	23.1	23.2
40.6	38	36.5	35.3	33.4	32	29.1	28	25.6	23.5	23.2	23.1
40.4	38.2	36.7	34.8	33.3	31.9	28.9	27.7	25.3	23.3	22.9	23

23.6	24.5	0.2	No	No
23.6	24.5	0.1	No	No
23.6	24.5	0.6	No	No
23.5	24.5	0.3	No	No
23.5	24.5	0.2	No	No
23.5	24.5	0.2	No	No
23.6	24.5	0.2	No	No
23.6	24.5	0	No	No
23.7	24.5	0.8	No	No
23.7	24.5	0.5	No	No
23.6	24.5	0	No	No
23.7	24.5	0.2	No	No
23.6	24.5	0.2	No	No
23.7	24.6	1.1	No	No
23.7	24.6	0.1	No	No
23.7	24.6	6	No	No
24.2	24.8	0.2	No	No
23.9	24.7	2.6	No	No
23.7	24.5	4.1	No	No
23.7	24.6	-0.4	No	No
23.7	24.6	0.9	No	No
23.8	24.5	0.2	No	No
24	24.7	0.9	No	No
23.8	24.6	-0.2	No	No
23.7	24.6	5.8	No	No
23.7	24.5	0.9	No	No
23.7	24.5	-0.2	No	No
23.7	24.5	1.5	No	No
23.6	24.6	1.7	No	No
23.6	24.5	0.8	No	No
23.7	24.5	0.9	No	No
23.6	24.5	1.1	No	No
23.6	24.6	1.1	No	No
23.5	24.6	0	No	No
23.6	24.5	3.1	No	No
23.5	24.6	1.5	No	No
23.6	24.6	1.5	No	No
23.6	24.5	0.1	No	No
23.6	24.5	0.1	No	No
23.6	24.6	2.6	No	No
23.6	24.6	0.2	No	No
23.7	24.6	2.6	No	No
23.7	24.6	1	No	No
23.7	24.5	0.1	No	No
23.6	24.5	-0.1	No	No
23.7	24.5	7.6	No	No
23.7	24.6	3.6	No	No
23.7	24.5	2	No	No
24	24.5	1.6	No	No
24	24.6	4.2	No	No
25.1	24.9	3.6	No	No
24.2	24.7	9.2	No	No
24	24.6	8.2	No	No
23.8	24.5	2.3	No	No
23.7	24.5	1.7	No	No
23.9	24.6	0.7	No	No
29.5	26.4	4.6	No	No
27.4	25.6	6.9	No	No
25.5	24.9	3.8	No	No
24.5	24.7	0.8	No	No
23.9	24.6	-0.2	No	No
23.7	24.6	0.5	No	No
23.7	24.6	0.9	No	No
23.6	24.6	2.1	No	No
23.6	24.6	0.2	No	No
23.6	24.5	0.2	No	No
24.1	24.7	0.8	No	No
24.3	24.7	0.2	No	No
24.9	24.9	1.6	No	No
24.3	24.7	0.8	No	No
24.1	24.7	0.9	No	No
23.8	24.6	1.2	No	No
23.7	24.5	0.7	No	No
23.7	24.6	2.3	No	No
23.7	24.6	4	No	No
23.8	24.6	2.6	No	No
23.6	24.6	0.4	No	No

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.6	24.5	2	No	No	
23.7	24.5	0.4	No	No	
23.6	24.5	0.3	No	No	
23.7	24.5	1.4	No	No	
23.6	24.5	2.2	No	No	
23.6	24.5	0	No	No	
23.6	24.6	-0.2	No	No	
23.6	24.5	0.2	No	No	
23.6	24.5	1.1	No	No	
23.6	24.6	0.2	No	No	
23.6	24.6	0.7	No	No	
23.6	24.5	0.7	No	No	
23.7	24.6	0.7	No	No	
23.6	24.5	0.9	No	No	
23.6	24.5	0.2	No	No	
23.6	24.5	0.6	No	No	
23.6	24.5	0.7	No	No	
23.7	24.5	0.3	No	No	
23.7	24.5	0.2	No	No	
23.8	24.5	0	No	No	
26.2	25.1	8.3	No	No	
26.7	25.4	11.3	No	No	
25	24.8	8.8	No	No	
24.2	24.6	6	No	No	
23.9	24.6	2.6	No	No	
23.7	24.6	1.4	No	No	
23.6	24.5	0.6	No	No	
23.6	24.5	0.4	No	No	
23.6	24.5	0.7	No	No	

423		11/19/2021	1:29:33 PM	49.2	60.7	49.0	48.6	98.0	13.5	49.1	55.6	63.8	58.3	53.4	48.4	46.9	44.3	39.9	
424		11/19/2021	1:29:34 PM	47.2	59.7	49.0	47.8	98.1	16.7	48.9	55.9	63.2	58.4	55.7	46.3	43.9	42	38.7	
425		11/19/2021	1:29:35 PM	44.9	56.7	47.8	46.2	98.0	19.9	53.6	52	65.7	59.8	55.1	43.1	39.8	39.3	35.4	
426		11/19/2021	1:29:36 PM	45.8	62.1	46.3	45.9	98.1	18.4	49.9	53.8	65.6	59.9	56.9	42.3	40.5	39.8	36.5	
427		11/19/2021	1:29:37 PM	46.5	62.1	46.5	45.9	98.0	17.9	51.1	53.3	66.1	56.5	57	42.2	41.7	40.9	36.9	
428		11/19/2021	1:29:38 PM	47.8	59.7	47.4	46.5	98.1	14.4	50.3	60.2	66	57.3	55.7	44.5	44.1	43.2	39.8	
429		11/19/2021	1:29:39 PM	50.5	61.5	49.8	47.5	98.1	13	49.9	51.3	63.3	59.3	53.9	45.8	46.3	45.8	43.1	
430		11/19/2021	1:29:40 PM	51.6	64.5	50.9	49.8	97.9	12.4	48.6	54.5	63.6	58.8	59.2	47.3	47.1	46.7	44.2	
431		11/19/2021	1:29:41 PM	53.4	65.4	52.8	50.9	97.9	11.4	52.5	53	63.4	60.9	55.5	51.7	49.9	48.5	45.9	
432		11/19/2021	1:29:42 PM	59.1	72.2	58.1	52.8	98.1	6.9	49.6	55.8	63.6	60	56.7	55.3	55.1	55.1	51.5	
433		11/19/2021	1:29:43 PM	62.9	77.6	61.8	58.1	97.9	8.3	50.2	54.7	63.8	66.6	60.6	56.9	59.9	59.3	54.3	
434		11/19/2021	1:29:44 PM	63.1	74.9	62.8	61.8	98.0	11.5	52.8	56.3	66.6	72.4	65.8	58.2	60.7	60.2	53.5	
435		11/19/2021	1:29:45 PM	60.6	73.5	62.5	61.3	98.0	10.4	52.6	61	67.9	71.2	60.2	58.5	57.8	57.5	51.1	
436		11/19/2021	1:29:46 PM	58.2	71.4	61.3	59.6	98.1	10.6	56.5	60.4	67.4	67.5	64.9	57.4	54.2	54.5	49.6	
437		11/19/2021	1:29:47 PM	57.4	69.0	59.6	58.3	98.0	11.3	54.9	59	62.6	62.6	62.9	56.7	53.2	53.1	48.2	
438		11/19/2021	1:29:48 PM	55.3	66.7	58.2	56.7	98.0	13	54.1	57.9	63.4	63.3	66.5	53.8	52.2	50.2	44.9	
439		11/19/2021	1:29:49 PM	55.0	67.7	56.7	55.6	98.0	13.4	48.9	55.7	65.8	59.7	66.3	53.2	51.9	49.7	44.9	
440		11/19/2021	1:29:50 PM	51.0	62.1	55.5	53.2	98.1	16.5	54.6	53.4	65.8	59.2	62.2	50.6	48.1	46.1	39.7	
441		11/19/2021	1:29:51 PM	48.0	62.1	53.2	50.7	98.0	16.1	54.9	51.9	68.3	59	59.6	46.6	44.2	43.1	37.5	
442		11/19/2021	1:29:52 PM	45.0	56.7	50.7	48.0	98.0	17.5	51.8	53.6	63.2	58	56.3	42.4	40.6	39.9	35.6	
443		11/19/2021	1:29:53 PM	44.5	53.7	48.0	46.1	98.1	17.8	48.2	54.2	62.8	58.2	53.7	42.6	40.6	39.4	35	
444		11/19/2021	1:29:54 PM	47.9	61.5	48.0	45.5	98.0	16.7	51.8	54.9	63.1	57.4	55.3	42.8	39.2	39.5	36.5	
445		11/19/2021	1:29:55 PM	48.7	64.1	48.5	48.1	98.1	14.9	54.6	53.4	62.7	58.4	63.5	49.1	43.7	41.8	37.8	
446		11/19/2021	1:29:56 PM	45.9	58.4	48.3	46.9	98.1	16.6	57.6	55.7	62.8	59.1	55.2	47.0	41.1	39.4	36.5	
447		11/19/2021	1:29:57 PM	46.2	56.7	46.9	46.4	98.0	15.7	53.3	55.4	61.6	56.8	54.8	44.8	43.1	40.7	36.7	
448		11/19/2021	1:29:58 PM	52.5	64.8	51.8	46.6	97.9	16	60.2	53	61.7	58.7	63.7	46.0	42.7	41.1	37.9	
449		11/19/2021	1:29:59 PM	51.7	63.7	52.7	51.4	98.0	15.8	58.0	55.4	62.7	58.8	68.9	46.4	43.7	41.1	38.9	
450		11/19/2021	1:30:00 PM	51.7	62.1	51.9	50.7	98.0	15.7	49.8	54.8	64	57.3	64.1	46.8	42.6	41.3	38.6	
451		11/19/2021	1:30:01 PM	53.8	64.1	53.7	52.0	98.0	16.7	49.9	55.6	62.7	60.8	70.3	47.2	43.4	41.2	37.8	
452		11/19/2021	1:30:02 PM	48.1	59.7	52.7	50.5	98.0	17.6	56.2	53.9	64.8	60.3	60.5	46.5	42.9	41.6	38.9	
453		11/19/2021	1:30:03 PM	47.3	59.7	50.5	48.7	97.9	17.1	55.4	56.7	62.9	58.5	57.2	47.3	43.6	41.4	38.6	
454		11/19/2021	1:30:04 PM	46.8	58.4	48.8	47.5	98.1	16.5	64.7	58.6	65	59.4	58.4	45.2	41.5	40.4	37	
455		11/19/2021	1:30:05 PM	46.0	58.4	47.6	46.6	97.8	19.2	62.7	57	63	60.3	56.3	42.1	40.4	39.9	38.1	
456		11/19/2021	1:30:06 PM	49.0	63.2	48.7	46.4	97.9	17.3	61.5	55.5	62.7	64.6	56.2	45.3	43.5	43.9	40.3	
457		11/19/2021	1:30:07 PM	57.2	70.0	55.7	48.8	98.0	13.6	57.1	55.5	63.5	63.9	68.5	52.9	50.2	53.1	46.1	
458		11/19/2021	1:30:08 PM	58.1	70.7	57.3	55.7	97.8	12	56.2	55.2	65.8	65.1	67	58.0	54.5	54.5	47.3	
459		11/19/2021	1:30:09 PM	59.3	71.3	59.0	57.1	98.1	13.2	58.7	56.1	63.5	63.5	69	60.4	52.8	52.4	47.1	
460		11/19/2021	1:30:10 PM	55.7	71.0	59.0	57.0	97.8	12.9	61.6	55.2	63.4	58.7	70.9	59.8	51.8	46.8	41.7	
461		11/19/2021	1:30:11 PM	50.6	62.7	56.9	54.0	97.8	14.9	56.4	54.9	62.8	60	59.2	55.4	47.1	42.7	39.1	
462		11/19/2021	1:30:12 PM	47.8	59.7	54.0	51.2	98.0	15.9	53.0	55.5	62.7	62.7	56	49.9	43.7	41.6	38.7	
463		11/19/2021	1:30:13 PM	48.9	72.7	51.2	49.5	98.1	14.7	55.9	57.2	64.2	57.7	53	50.5	42.3	43.3	39.6	
464		11/19/2021	1:30:14 PM	48.2	59.7	50.2	49.0	97.9	16.1	57.6	54.3	65.4	59.9	53.6	51.0	43.9	42.6	38.9	
465		11/19/2021	1:30:15 PM	47.6	58.4	49.0	48.1	97.9	16.9	60.6	55.7	65.1	60.2	57.5	48.4	41.8	42.1	38.2	
466		11/19/2021	1:30:16 PM	50.1	64.5	49.5	48.1	98.0	23.6	53.4	57.1	64.2	71.2	51.4	49.8	42.1	41.8	38.3	
467		11/19/2021	1:30:17 PM	48.1	59.7	49.6	48.6	98.0	19.1	60.6	58	65	72.7	52.4	48.6	42.3	42.4	39.7	
468		11/19/2021	1:30:18 PM	47.7	58.4	48.6	48.1	98.0	21.1	62.0	58.8	63.7	67.1	52	46.1	40.7	40.4	39.7	
469		11/19/2021	1:30:19 PM	46.7	58.4	48.1	47.2	97.9	19.6	61.5	61.1	63.8	68.4	52.5	45.2	40.1	40.5	38.4	
470		11/19/2021	1:30:20 PM	47.3	59.7	47.3	47.0	97.8	17.6	58.6	60.7	63.1	61.2	57.2	43.8	41	41.2	39.5	
471		11/19/2021	1:30:21 PM	50.5	62.7	49.8	47.3	98.1	18.4	67.5	57	63.9	65.7	59	46.2	44.3	44.4	42.1	
472		11/19/2021	1:30:22 PM	52.0	63.2	51.3	49.9	98.0	18.8	59.4	56.5	64.1	70.4	63.3	48.9	45.2	45.5	43.4	
473		11/19/2021	1:30:23 PM	50.8	63.2	51.3	50.7	97.8	19	59.5	54.9	62.9	68.6	61.9	49.6	44.5	44.9	42.1	
474		11/19/2021	1:30:24 PM	50.6	68.7	51.1	50.8	98.0	17.2	58.3	55.2	62.8	67.6	61.5	51.3	45.4	45.5	41.7	
475		11/19/2021	1:30:25 PM	50.6	66.7	50.9	50.6	97.8	16.1	50.0	57	67.9	63.6	59	48.9	45.5	45.6	42	
476		11/19/2021	1:30:26 PM	47.9	59.7	50.6	49.1	98.0	17.2	54.7	53.4	63.1	62	58.5	46.1	43.1	43.3	38.6	
477		11/19/2021	1:30:27 PM	47.9	59.7	49.1	48.4	97.9	15.4	52.5	57.6	64.5	59.4	54.7	47.0	43	43.6	39.3	
478		11/19/2021	1:30:28 PM	47.5	60.7	48.4	47.8	97.7	16.4	54.0	55.3	63.1	59.7	52	44.7	42.5	43.3	39.5	
479		11/19/2021	1:30:29 PM	47.5	60.7	47.8	47.6	97.8	17.1	51.1	55.7	65	59.4	51.8	44.8	42.4	42.9	39.4	
480		11/19/2021	1:30:30 PM	47.6	60.7	47.8	47.2	97.8	16.7	57.3	55.1	64.3	62.5	52.5	44.0	41.8	42.6	39.1	
481		11/19/2021	1:30:31 PM	48.3	60.7	48.2	47.6	97.8	15.5	59.8	55.9	63	61.7	54.9	46.1	42.6	42.9	40.4	
482		11/19/2021	1:30:32 PM	50.4	62.7	49.7	48.3	97.7	14.1	59.8	55.9	64	59.6	57.5	48.1	45.1	44.6	43.1	
483		11/19/2021	1:30:33 PM	47.1	59.7	49.7	48.1	97.9	16.8	59.2	56.1	64.7	60.4	51.9	45.1	42.2	42	39.5	
484		11/19/2021	1:30:34 PM	45.4	56.7	48.0	46.6	97.7	20.4	59.1	54.8	66.3	59.4	53.2	43.9	40.1	40.4	36.8	
485		11/19/2021	1:30:35 PM	45.0	62.1	46.6	45.7	97.8	17.8	52.4	55.3	67.9	58.8	51.4	43.0	40.3	40.4	36.4	
486		11/19/2021	1:30:36 PM	44.6	56.7	45.6	45.0	97.9	18.4	54.6	55.5	63.4	60.5	50	42.1	39.6	40.5	35.9	
487		11/19/2021	1:30:37 PM	45.1	58.4	45.1	44.7	97.7	18.3	52.4	56.1	63.1	57.5	50.4	42.8	39.6	40.4	36.9	
488		11/19/2021	1:30:38 PM	45.1	53.7	45.2	45.0	97.8	17.7	51.5	56.8	64.9	59.4	50.9	41.6	39.7	41.1	36.3	
489		11/19/2021	1:30:39 PM	48.9	74.4	48.5	45.0	97.9	16.6	54.0	53.5	63.9	59.4	51.9	44.8	42.4	43.9	43.2	
490		11/19/2021	1:30:40 PM	44.3	56.7	48.0	46.1	97.9	18.8	52.2	63.4	66	62.2	50	42.2	39.2	39.8	35.8	
491		11/19/2021	1:30:41 PM	45.6	56.7	46.1	45.7	97.7	18.7	54.9	56.8	64.2	61.9	52.1	43.5	40.8	40.4	36.5	

NM2 KWAQN 1020 El Centro Street. South Pasadena. — **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
492		11/19/2021	1:30:42 PM	48.2	60.7	47.7	45.9	97.8	15.7	57.3	54.4	64.5	62	52.1	44.8	42.2	44.2	40.8	
493		11/19/2021	1:30:43 PM	51.7	64.8	50.8	47.7	97.7	11.8	52.4	54.1	64.2	59.7	55.2	47.0	46.3	47.7	45.1	
494		11/19/2021	1:30:44 PM	54.7	67.1	53.8	50.8	97.8	9.2	53.1	54.2	63.5	60.4	55.4	49.0	49.5	51.4	48	
495		11/19/2021	1:30:45 PM	57.5	69.7	56.6	53.8	97.8	6.6	54.5	54.2	62.7	58.7	55.8	53.0	52	54.4	50.6	
496		11/19/2021	1:30:46 PM	57.9	71.0	57.5	56.6	97.7	8.4	51.8	54.1	61.9	59.6	58.9	54.3	52.6	55.1	49.6	
497		11/19/2021	1:30:47 PM	56.5	69.8	57.4	56.8	97.9	9.8	53.1	55.8	64	62.6	56.3	54.2	51.8	53	49.3	
498		11/19/2021	1:30:48 PM	55.0	67.8	56.8	55.7	97.7	10.4	51.0	55.8	66.4	62.2	55.1	53.3	49.8	51.6	48.1	
499		11/19/2021	1:30:49 PM	54.4	73.5	55.7	54.8	97.9	9.9	49.3	55.4	66.3	59.5	54.5	52.2	47.9	51.1	47.9	
500		11/19/2021	1:30:50 PM	52.7	66.9	55.0	53.6	97.7	10.8	51.7	55.3	64.9	59.6	52.6	52.1	46.9	48.7	46.4	
501		11/19/2021	1:30:51 PM	52.6	66.2	53.6	52.9	98.0	15.1	53.1	54.6	62.5	59.4	58.7	52.3	47.3	47.6	45.5	
502		11/19/2021	1:30:52 PM	50.3	63.2	53.0	51.4	97.7	14.4	53.1	62.6	66.7	65.1	53.2	48.6	45.8	45.7	43.3	
503		11/19/2021	1:30:53 PM	49.2	60.7	51.6	50.2	97.7	15.6	56.9	55.3	66.7	61.1	55.9	48.6	44.7	45	41.6	
504		11/19/2021	1:30:54 PM	48.3	62.7	50.2	49.0	97.7	15.3	57.3	58.4	65.4	57.9	53.6	47.6	44.5	44.1	39.5	
505		11/19/2021	1:30:55 PM	47.1	56.7	49.0	47.9	97.8	16.2	56.5	55.9	64.3	58.2	53.1	45.6	42.5	42.9	38.5	
506		11/19/2021	1:30:56 PM	45.9	56.7	47.9	46.7	97.7	18.8	49.8	56.2	64.1	59	52.5	44.1	41.5	41.2	37.1	
507		11/19/2021	1:30:57 PM	45.6	56.7	46.7	46.1	97.7	18.1	47.4	53.4	67.3	58.4	51.1	43.5	40.4	40.9	37.3	
508		11/19/2021	1:30:58 PM	46.8	60.7	46.6	46.1	97.7	18	51.7	54.4	64.7	59.1	52.4	43.5	41.8	42.8	38.2	
509		11/19/2021	1:30:59 PM	48.1	60.7	47.8	46.6	97.7	17.4	50.7	54.8	67.1	58.9	52.7	43.7	43.7	43.6	40	
510		11/19/2021	1:31:00 PM	50.8	64.8	50.0	47.9	97.8	13.3	53.5	61.1	67.4	58.3	55.1	48.5	46.7	46.1	43.6	
511		11/19/2021	1:31:01 PM	51.3	65.1	50.9	50.0	97.7	13.3	57.8	59.4	62.6	58.1	54.2	49.9	47.6	47.3	43.7	
512		11/19/2021	1:31:02 PM	51.7	63.7	51.5	50.9	97.7	14.2	53.7	53.9	66.6	60	56.5	50.6	47.9	47.2	44.1	
513		11/19/2021	1:31:03 PM	51.9	64.8	51.8	51.4	97.7	14.1	50.7	57.4	65	62.8	55.8	51.0	47.8	47.4	44.1	
514		11/19/2021	1:31:04 PM	52.2	69.9	52.1	51.8	97.7	12.4	50.0	60.2	63	63.5	55	51.9	48.4	47.7	44.3	
515		11/19/2021	1:31:05 PM	52.4	64.1	52.3	52.1	97.8	12.8	51.6	58.1	62.9	62.1	54.3	51.6	49.1	48.2	44.1	
516		11/19/2021	1:31:06 PM	52.3	64.1	52.4	52.2	97.8	12.2	53.5	59.4	63.8	60.3	56.4	51.8	48.5	48.1	44.2	
517		11/19/2021	1:31:07 PM	51.6	65.4	52.2	51.8	97.7	14.3	61.6	57.8	64	58.6	55.7	51.4	47.5	47.2	44	
518		11/19/2021	1:31:08 PM	51.9	64.1	51.9	51.8	97.8	14.4	60.4	58.3	66.7	59.7	55.8	51.3	48.1	47.2	44.6	
519		11/19/2021	1:31:09 PM	53.0	64.8	52.7	51.9	97.7	13.9	63.7	58.8	67.1	59.8	54.9	52.0	49.6	48.9	44.9	
520		11/19/2021	1:31:10 PM	57.5	69.2	56.4	52.7	97.8	10.8	60.2	56.8	68.5	57.4	62.8	53.9	55.4	53.3	47.5	
521		11/19/2021	1:31:11 PM	57.4	69.0	57.1	56.3	97.8	9.2	60.0	57.4	65.9	60.1	61.8	55.5	54.4	53.2	48.6	
522		11/19/2021	1:31:12 PM	57.4	70.0	57.3	57.2	97.7	9.7	55.5	58.4	64.1	63.1	60	54.5	54.2	53.8	48.4	
523		11/19/2021	1:31:13 PM	55.7	67.3	57.2	56.2	97.8	11.9	59.3	59.1	64.7	63.2	57.5	55.8	51.4	52.5	46.6	
524		11/19/2021	1:31:14 PM	54.9	77.4	56.2	55.3	97.8	10.9	58.8	61.2	64.4	60.9	55.4	54.0	49.3	51	46.9	
525		11/19/2021	1:31:15 PM	55.2	73.0	55.7	55.3	97.6	12.5	59.7	55.6	67.2	60.9	58.1	51.5	48.5	50	48.8	
526		11/19/2021	1:31:16 PM	52.5	67.5	55.3	53.7	97.7	13.8	55.8	56.5	67.9	59.7	56.4	50.4	48	46.6	46.2	
527		11/19/2021	1:31:17 PM	52.2	64.5	53.7	52.7	97.8	13.2	55.6	54.3	66.9	61.8	57	49.2	49.3	46.5	45.2	
528		11/19/2021	1:31:18 PM	48.7	59.7	52.7	50.7	97.7	19.5	55.1	52.8	67	59.1	55.3	46.3	44.2	43.1	41.2	

35.5	30.1	29	52.4	56.3	63.9	60.4	53.8	48.8	46.8	44.3	40	35.2
33.9	30	29.7	50.8	56.3	63.6	59.1	55.2	48.6	46.7	44.3	40.1	35.2
32.4	32.2	30.2	52.7	55.8	65.1	59.8	55.3	47	44.9	42.8	39	34.3
34	30.4	28.8	52.6	54.2	65.8	60.2	56.6	45	42.4	40.8	37.3	34.4
33.1	28.6	28.6	51.5	53.9	66.2	59.6	57.3	43.4	41.8	40.7	37.2	33.4
35.7	29.7	28.7	51.8	59.7	66.6	58.2	57.4	44.1	43.4	42.5	38.9	35.1
40	32	28.8	50.5	57.8	66.2	59.2	55.8	45.3	45.6	45.1	42.3	39.1
40.6	32.9	29	50.9	54.9	64.7	59.6	58.6	47	46.6	46.1	43.5	40.1
42.6	35.7	29.6	51.8	54.8	63.9	60.4	57.9	50.7	49.1	48.1	45.3	42
48.1	39.8	31.8	51.3	55.7	64	60.7	56.9	54.1	54.1	54.1	50.5	47
50.4	42.9	34.2	51.2	55.8	64.2	65.9	59.9	56	58.7	58.3	53.3	49.3
48.4	40.4	32.5	52.1	56.2	66.3	71	64.8	57.7	60.2	59.7	53.5	49.3
44.7	37	30.4	53	60	67.5	71.9	64.6	58.3	59.8	59.5	53.3	48.6
41.3	32.6	29	55.8	61.2	68.1	70.8	64.4	58.2	58.3	58.2	52	46.4
41.5	33	29.1	56.5	59.7	67.1	68.8	64.1	57.6	56.2	56.3	50.6	44
37.6	30.7	28.7	54.8	59.3	64.9	66.4	65.7	57	54.5	54.5	49.1	42.4
38.5	32	28.9	54.6	58.8	65.6	64.4	66.6	55.2	53.2	52.3	47	40.1
33.9	29.4	28.5	54.1	56.8	66.3	62	66.1	54	52.3	50.8	45.6	38.9
32.2	28.4	28.5	55.1	55.2	67.7	60.9	64.1	51.9	50.1	48.4	42.8	36.4
31.7	28.2	28.5	54.1	54	67.4	59.5	62	49.3	47.3	45.7	40.2	34.3
31.7	28.4	28.6	52.8	54.2	65.4	59	59.2	46.3	44.3	43	37.9	32.8
32.6	28.3	28.5	51.7	55.1	64.2	58.3	56.7	44.3	42.3	41.1	36.7	32.6
32.8	28.3	28.6	54.1	54.2	63.5	58.4	62.5	48.2	43	41.4	37.5	32.7
32.6	28.3	28.6	57.5	55.2	63.3	59.2	60.8	48.6	43	41.1	37.5	32.8
32.6	28.3	28.7	57.2	56.4	62.9	59.1	58	47.2	42.8	40.6	36.9	32.6
32.9	28.7	28.6	59.4	54.8	62.6	58.5	63	46.4	43	41.1	37.4	32.9
34	29.9	28.8	59.3	55.2	62.4	58.8	68	46.6	43.4	41.2	38.5	33.7
34.1	30	28.9	58.2	55.5	63.7	58.9	66.5	46.6	43.4	41.4	38.7	34.1
33.2	29.3	28.6	54.8	55.7	63.4	60.3	69.4	47	43.3	41.3	38.5	33.9
33.7	29.3	28.6	55.5	55.3	64.6	60.7	68.8	47	43.2	41.5	38.8	33.6
33.9	29.4	28.6	55.8	56.1	64.9	60.3	65.5	47.1	43.5	41.7	39.3	33.8
33.1	29.4	28.6	63.9	58.3	64.5	59.8	62.1	47.2	43.3	41.4	38.5	33.8
33.2	30.1	28.6	64.8	58.3	64.5	60.2	60	45.9	42.2	40.8	38.4	33.4
34.5	30.3	28.8	62.6	57.1	63.4	63.4	57.8	45.2	43.4	43.5	39.9	34.3
37.9	31.3	28.9	61.9	56.3	63.4	64.2	67.2	51.8	49.1	51.8	44.9	37
38.3	32.2	28.9	59.5	55.6	65.3	64.7	67	56.6	53.1	53.7	46.5	37.8
39.2	32.3	28.9	59.1	56.3	65.3	64.7	68.7	59.9	53	53.6	47.1	38.8
36.6	30.6	28.8	61.6	56	64.4	63.7	71.3	60.6	53.3	52.9	46.7	38.6
34.9	29.8	28.8	60.3	55.6	63.7	61.3	69.2	59.4	52.3	50	44.2	37.2
34.5	29.6	28.7	58.3	56.5	63.4	62.6	65.6	57.1	49.5	46.9	41.7	35.9
38.5	34.2	29.8	56.7	57.2	63.9	61.5	62	54.1	46.8	44.4	40.2	38.5
35.2	30.9	29	57.8	56.6	65.3	60.1	58.6	52.3	45.3	44	40	38.6
34	29.7	28.6	60.5	56	65.6	60.6	57.3	51.3	43.8	43.2	39.2	36.5
36.1	34.3	29.6	58.8	57.1	65.5	70.4	56.7	50.4	42.7	42.5	38.7	36
35.7	32.6	29.3	60.6	57.8	65.2	72.8	54.2	49.8	42.4	42.5	39.5	36
35.6	29.8	28.7	62	58.9	64.9	71.1	53.4	48.9	42.4	42.1	39.9	35.9
35.2	30.8	28.6	62.4	61	64.2	69.7	52.9	47.3	41.5	41.1	39.4	35.6
35.5	29.7	28.6	61	61.4	64	68.3	56.5	46	41	41.1	39.4	35.6
39.2	32.4	28.6	66.7	60.9	64.4	66	58.6	46	43.5	43.7	41.6	38.5
40.2	33.2	28.7	66.6	58.6	64.1	69.5	62	48.3	44.7	44.9	42.7	39.8
37.7	31.5	28.6	63.2	57.6	64.1	69.6	62.9	49.4	44.7	45	42.6	39.4
38.9	34.8	28.9	61.7	56	63.6	69.3	62.7	50.9	45.2	45.4	42.5	38.9
39.6	34.2	29	59.3	56.7	66.8	67.9	61.1	50.7	45.5	45.7	42.2	39.6
35.2	29.5	28.6	55.8	56.3	66.8	65.9	59.8	49.8	45.3	45.5	42	39.2
35.6	29.5	28.6	55.3	56.9	65.2	63.7	58.9	47.9	44.2	44.2	40.1	37.1
36.2	30.3	28.6	54.5	56.9	64.7	61.6	56.7	47.3	43.4	43.8	39.7	36.4
35.7	30.7	28.6	53.9	56.2	64.7	60.6	54.3	45.9	42.9	43.5	39.7	36.2
37.6	35.3	29.8	56.9	56.3	65	61.8	53.2	45.3	42.6	43.2	39.4	37.5
38.2	35.4	30.8	59	56.3	64.3	62.5	54.7	45.7	42.5	43.1	40.2	38.1
40.4	38.8	33.6	59.9	56.1	64.5	61.2	57	47.5	44.5	44.2	42.2	39.8
36.1	33.8	29.8	59.7	56.9	64.6	60.8	56.4	47.1	44.6	44.2	42.2	39.6
34	30.1	28.9	60.9	56.1	66.1	60.8	54.1	45.9	42.9	42.7	40.4	37.5
33	28.6	28.6	58.5	55.8	67.6	60	53.4	44.8	41.5	41.4	38.6	35.7
32.5	28.5	28.6	56	55.7	67	60.2	52.3	43.7	40.7	40.9	37.3	34.1
34.1	28.9	28.6	55	56.2	65.2	60.1	50.9	43	40	40.6	37	34.4
32.7	28.4	28.6	53.5	56.8	64.8	59.3	51	42.9	39.9	40.9	36.9	33.9
36.9	29.6	28.6	54.1	56.7	64.7	59.5	51.9	44.4	42	43.6	42.8	36.7
32	28.1	28.5	53	62.8	66.2	61.8	51.7	44.3	41.6	43.2	41.9	35.9
32.5	27.9	28.4	54.7	62.8	65.3	62.1	51.9	43.5	40.7	41.4	39.2	33.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
33.5	28.4	28.5	57.3	60.1	64.8	62.5	52.1	44.5	41.8	43.5	40.3	33.5
35.9	29	28.6	55.9	57.4	64.8	61.7	54.4	46.4	45.4	46.8	44.1	35.2
38.1	30.2	29.4	54.4	55.7	64.6	61.1	55.3	48.3	48.6	50.4	47	37.4
41.3	32.4	29.4	55	54.7	63.9	60.4	55.8	52	51.1	53.4	49.7	40.4
41.9	32.5	29.1	53.7	54.6	62.9	60.1	58.3	53.8	52.1	54.5	49.9	41.4
39.6	31.6	28.9	53.6	55.9	63.9	61.7	58.3	54.1	52	54.4	49.5	41.3
38	30.6	28.8	53.6	56.1	65.6	62.7	57.1	54	52.1	53.5	49.4	40.3
36.5	29.3	28.6	51.7	55.8	66.4	61.9	56.2	53.6	50.5	52.4	48.6	38.9
34.4	28.6	28.5	52.1	56	66	60.5	54.7	53.1	49.2	51.7	48.1	37.5
36.1	29.3	28.9	53	56	65.6	60.1	58.5	52.7	47.9	49.9	47	36.4
33.8	28.5	28.6	53.2	62.1	66.6	64.9	58.3	52.4	47.6	48.6	46.1	36.3
33.1	28.6	28.9	56.4	62	66.8	62.7	57	50.8	46.7	47	44.6	35.1
33.6	29.2	29.1	58.5	60.4	66.8	61.7	55.5	49.3	45.7	45.8	42.8	33.9
33.5	29.2	29.9	57.8	58.3	65.9	59.8	54.2	48.2	44.8	44.7	41	33.9
33.1	28.7	28.8	55.9	57.6	65.3	59.4	53.7	46.7	43.5	43.6	39.6	33.5
33.5	32.3	32.5	53.1	56.1	66.9	59.5	52.8	45.2	42.4	42.2	38.2	33.5
34.3	29.8	28.5	51.9	55.1	66.6	59.1	52.4	44.2	41.7	42.5	38.2	34.1
36.2	30.4	28.5	52.1	55.1	66.9	59.5	52.7	43.9	43.3	43.4	39.8	35.7
38.4	31	28.6	53.5	60	67.2	59.2	54.6	47.6	45.8	45.4	42.6	37.6
38.7	31.6	29	56.7	60.5	67.3	58.4	54.7	49.3	47	46.7	43.4	38.4
38.4	30.6	28.7	56.2	59.4	66.2	59.4	56.1	50.2	47.7	47	43.8	38.5
38.5	30.8	28.6	54.8	57.6	67.1	61.9	56.4	50.9	47.8	47.3	44.1	38.6
39.5	31.2	28.6	52.6	59.6	65	63.6	55.8	51.5	48.2	47.6	44.3	39.3
38.7	30.6	28.7	52	59.5	64	62.7	55.6	51.8	48.9	47.9	44.2	39.2
37.6	30.4	28.5	53.2	59.8	63.8	62.4	56.1	52.1	49.1	48.1	44.3	38.9
36.9	30.8	31.6	60.1	59.4	64.2	60.9	56	51.6	48.4	48.1	44.2	38
37.5	30.7	28.8	60.8	59	66.1	60.3	56	51.6	48.2	47.6	44.4	37.5
39.4	32.2	28.9	63.4	58.9	67.5	60.5	56	51.9	49.2	48.5	44.8	39
42.6	34.6	29.7	62.9	58.8	67.9	59.5	61.7	53.4	54.4	52.2	46.7	41.7
44.4	36.7	30.5	61.7	57.8	68.4	59.9	62.1	55.1	54.4	52.9	48.2	43.8
44.6	37	30.9	60.6	58.6	66.3	62.2	61.9	55	54.7	53.5	48.4	44.4
41.5	34	29.4	59.4	59.3	65.4	63.2	60.5	55.7	54.2	53.4	48.2	44.3
43.5	39.1	31	59.9	60.9	65.7	63.2	59	55.4	52.5	52.7	47.4	43.6
46	40.6	30	60.1	60.9	66.7	61.4	58	54.4	50.8	51.9	48.5	45.6
41.4	33.9	29.2	58.7	58.3	68	61.2	57.6	53	49.6	50.6	48.5	45.1
41.6	34.3	29.3	56.7	57.6	67.6	61.7	57.2	51.3	49.4	48.6	47	43.1
38	31.5	28.8	56.4	55.5	67.1	60.9	56.8	49.9	48.9	47.3	45.9	42.1

29.6	28.9	50.8	55.5	62.7	59.1	52.4	48.3	46.3	43.9	39.8	34.5	28.8
30	29.5	49	55.4	62.2	58.6	53.8	47	44.9	42.8	39	34.3	29.4
31.8	30.2	49.9	53.4	63.6	58.8	54.9	45	42.4	40.8	37.1	33.2	30
32.1	29.9	50.9	52.5	65	59.4	55.1	43.4	41.2	40.1	36.7	33.2	30.6
30.6	29.2	50.4	53	64.6	57.8	56.4	42.7	41.2	40.3	36.4	32.9	29.5
29.7	28.8	50.5	53.7	65.1	57.2	55.7	42.7	42.2	40.8	37.3	33.4	29.4
31.5	28.8	49.7	54.9	64.6	56.9	54.6	43.7	43.4	42.5	39	35.1	29.7
32.5	28.9	48.7	54.2	64	58.8	54.4	45.1	45.6	45.1	42.3	39.1	31.5
34.9	29.4	49	53.5	63.4	58.8	56.4	46.9	46.5	46.1	43.5	40	32.5
38.9	31.2	50.3	53.4	63.4	59.9	55.9	50.6	49.1	48.2	45.3	42	34.9
41.8	33.3	49.7	54.9	63.1	60	56.9	54.2	54.2	54.3	50.6	47.1	38.9
41.9	33.4	50.1	54.3	63.6	66	59.9	56	58.7	58.3	53.3	48.6	40.8
40.8	32.7	51.2	56.1	65.1	70.8	62.3	57.6	58.4	58.3	52	46.4	38.6
38.6	31.3	52.4	59.7	67.1	68.8	61.9	57.6	56.2	56.3	50.6	44	35.9
35.9	30	54.7	59.1	64.9	66.1	63	57	54.5	54.5	49.1	42.4	34.2
34.1	29.4	53.6	58.3	63.8	64.4	63.9	55.2	53.2	52.3	47	40.1	32.4
32.6	29	52.1	56.9	63.7	62.1	65.4	54	52.3	50.8	45.6	38.9	32
32	28.9	52.2	55.2	65.4	60.6	64.1	52	50.1	48.4	42.8	36.4	30.5
30.4	28.7	53.6	53.4	65.1	59.4	62	49.4	47.3	45.8	40.2	34.3	29.3
29.3	28.6	52.7	53.3	65.4	58.7	59.3	46.4	44.3	43.1	37.9	32.8	28.6
28.7	28.6	50.2	53.2	64	58.3	56.7	44.4	42.3	41.1	36.3	32.1	28.5
28.5	28.6	50.2	54.2	63.2	57.7	55.6	43.4	40.7	40.2	35.7	31.8	28.3
28.4	28.6	51.7	53.5	62.8	57.4	56.2	43.5	40.5	40.2	36.5	32.4	28.2
28.4	28.6	53.2	53.7	62.7	57.7	58.1	47.2	41.8	40.1	36.9	32.6	28.3
28.3	28.6	55.2	54.7	62	57.8	56.3	45.8	41.6	40	36.7	32.5	28.2
28.6	28.6	54.7	53.6	61.5	57.7	56.4	45.8	42.6	40.6	36.8	32.6	28.3
29.7	28.7	58.2	53.3	61.5	58.2	63.3	45.8	42.8	40.7	37.3	32.9	28.6
30.2	28.8	54.8	54.7	62.4	57.8	64.9	45.7	42.9	41.1	38.5	33.8	29.7
29.8	28.8	52.4	54.7	62.6	57.6	65.7	46.6	42.8	41	38	33.4	29.4
29.5	28.7	52.3	54.2	63.1	60.1	65.5	46.6	42.9	41.2	38.1	33.4	29.3
29.4	28.7	54.4	54.5	63.4	59.1	62.1	46.7	43	41.4	38.5	33.6	29.3
29.4	28.7	55.3	56.1	63.3	58.9	60	45.9	42.1	40.8	37.6	33.3	29.3
29.9	28.6	62.6	57.1	63.4	58.7	57.8	43.9	41.1	40.2	37.2	33.2	29.4
30.2	28.7	61.6	56	62.8	60	56.5	43.4	40.8	40.2	37.8	33.3	29.8
31	28.9	59.6	55.5	62.8	62.7	57.2	45.3	43.4	43.6	40	34.3	30.2
31.7	28.9	57.6	54.8	63.2	63.8	66	51.9	49.2	51.8	45	37	31
32.2	29	56.1	55	63.9	63.7	66.5	56.5	52	52.9	46.2	37.7	31.6
32.1	28.9	59.3	55.3	63.5	61.3	68.6	59.4	52	50	44.2	37.2	31.1
31.1	28.8	58.3	54.3	62.8	59.8	65.6	57.1	49.5	46.9	41.7	35.9	30.3
30.3	28.8	55.8	55	62.8	61.4	62	54.1	46.8	44.4	40.1	35.1	29.9
33.5	29.6	55.4	54.2	62.7	59.5	58.6	52.1	44.6	43	39.5	34.9	29.8
33.7	29.7	55.2	55.1	63.2	59.1	56.1	51.3	43.8	43.2	39.2	36.6	31.8
31.8	29.1	56.7	55.1	65	59.2	56.1	49.7	42.6	42.5	38.6	35.1	30.6
33.5	29.4	56.4	54.6	64.5	59.9	54.2	49.7	42.3	42.1	38.2	35	30.6
33.6	29.5	55.3	56.8	64.4	70.5	53.1	49	42.2	42.1	38.4	35.5	32.5
32.5	29.2	60.7	57.7	63.9	69.1	52.2	47.3	41.3	41.1	39.4	35.5	31
31.6	28.9	60.3	57.5	63.5	68.4	52.2	46	40.4	40.8	38.8	35.3	30.7
30.7	28.7	59	60.3	63.1	65.4	52.5	44.8	40.2	40.8	38.8	35.1	30.2
31.9	28.7	60.3	58.6	63.3	64.8	56.1	44.7	40.8	41.1	39.3	35.6	30.2
32.9	28.7	63.3	57.2	63.4	66	58.7	46	43.5	43.6	41.7	38.6	31.9
32.6	28.7	61.4	55.9	62.7	68.8	61.4	48.3	44.5	44.6	42.1	38.4	31.8
34.6	28.9	59.3	55	62.8	67.9	61.1	48.9	44.6	45	42	38.4	32.1
35.6	29.1	55.8	55.4	63.1	65.9	59.7	49.6	44.8	45.3	41.9	38.9	33.9
33.9	28.9	55	54.4	64.8	63.8	58.9	47.8	44.1	44.1	40.1	37.1	31.7
31.7	28.7	53.7	55.1	64.5	61.6	56.7	47.3	43.4	43.8	39.6	36.3	30.5
30.5	28.7	53.9	55.8	63.5	60.6	54.4	45.8	42.9	43.5	39.5	36.1	30.2
30.7	28.7	52.3	55.4	63.4	59.7	52.9	45.1	42.6	43.2	39.3	35.8	30.3
34.8	29.6	52	55.3	64.3	60.1	52.4	44.4	42.1	42.5	38.8	35.5	30.2
35.7	30.7	56.9	55.2	62.8	61.3	52.9	44.4	42.2	42.7	39.3	37.3	33.9
38.5	33.2	58	54.7	63.6	60.1	54.8	45.6	42.5	42.9	40.3	38.1	35.2
37.5	32.4	58.8	55.6	63.6	59.7	54.1	45.9	42.9	42.7	40.4	37.5	35.3
35.3	30.9	58.5	55.1	64.2	59.6	53.4	44.7	41.4	41.4	38.6	35.7	32.8
32.8	29.7	55.8	54.6	66.1	58.9	52.3	43.5	40.7	40.8	37.3	34.2	30.7
30.7	29.1	54.9	54.9	65.1	59	50.9	42.7	40	40.6	36.4	33.2	29.4
29.5	28.8	53.5	55.3	63.8	58.5	50.4	42.6	39.7	40.3	36	32.6	28.9
29.2	28.7	51.6	55.4	64	58.4	50.7	42	39.6	40.5	36.5	33.1	28.7
29.6	28.6	52.7	55	64	58.6	50.3	42	39.8	40.8	36.3	33	28.5
29.3	28.6	52.4	54.5	63.7	59.3	50.6	43.1	40.3	41.4	39.2	33.9	28.6
28.6	28.6	52.3	60.1	64.4	60.1	50.7	42.8	40.1	40.8	37.7	33.1	28.1

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
28.3	28.5	54.9	57.4	64	61.5	51.7	43.5	40.7	40.9	37.8	33	28.1
28.8	28.6	54.1	55.7	64.3	60.6	52	44.5	41.9	43.5	40.3	33.5	28.3
29.8	29.2	53.3	54.8	63.7	60.4	54.3	46.3	45.4	46.8	44.2	35.2	28.8
31.7	29.3	53.5	54.3	63	59.4	54.6	48.4	48.5	50.4	47.1	37.4	29.8
32.3	29.3	51.9	53.8	61.9	59.2	55.6	52	51.1	53.4	49.5	40.4	31.7
32.3	29.2	52.2	54.3	62.1	59.4	57	53.5	51.7	53.5	49.3	40.3	31.8
31.8	29	51.6	55	63.6	61.3	55.7	53.5	50.5	52.4	48.5	38.9	31
31	28.8	50.4	55.1	65.4	60.3	54.7	52.7	49.1	51.2	48	37.5	30
30	28.7	50.2	55	65	59.6	53.4	52.3	47.8	50	47	35.8	29.1
29.5	28.9	50.6	54.5	63.8	59.3	52.5	51.6	47.2	48.6	46.1	35	28.7
29.5	28.8	52.7	54.2	63.8	59.5	55.8	50.4	46.2	47	44.5	34.8	28.8
29	28.9	53.2	59	65	61.7	55.4	49.2	45.6	45.9	42.9	33.9	28.6
29.2	29.1	56.1	58.2	65.9	59.7	54.2	48.2	44.8	44.8	41	33.6	28.4
29.4	29.8	55.5	56.8	64.8	58.4	53.5	46.7	43.5	43.6	39.6	33.5	29.1
29.2	29.6	53.2	56.1	64.3	59	52.8	45.2	42.3	42.2	38.2	33.2	28.9
31.9	32.3	50.4	54.5	64.3	58.4	51.7	44.2	41.2	41.5	37.7	33.1	28.7
31.7	31.8	49.6	54.3	65.2	58	51.5	43.8	41.2	41.5	37.5	33.4	30.6
30.7	30.1	50.8	53.4	64.6	58.7	52.2	43.4	41.7	42.4	38.2	34.1	30.4
30.9	29.2	50.1	54.8	66	58.2	52.6	43.8	43.3	43.4	39.7	35.7	30.5
31.4	28.9	53.4	59.4	64.9	57.8	54	47.6	45.7	45.4	42.6	37.6	30.9
31.4	28.9	54.7	56.8	64.8	58.1	53.9	49.4	47	46.7	43.4	38.3	30.9
31	28.8	52.6	55.6	65.1	59.5	55.7	50.1	47.5	47	43.7	38.2	30.6
31.2	28.7	50.9	57.5	63.8	61.8	55.1	50.9	47.9	47.3	44.1	38.6	30.9
31.1	28.7	51.1	58.4	63.2	62.1	54.6	51.3	48.2	47.5	44	38.9	30.8
30.8	28.7	51	58.2	63	60.8	54.5	51.6	48.4	47.9	44.1	38.1	30.6
30.9	30.8	52.5	58.3	63.3	59.5	55.5	51.4	47.8	47.5	44	37.4	30.5
30.7	30.4	59.9	57.9	63.6	59.2	55.1	51.2	47.6	47.3	44.1	37.3	30.5
31.8	29.5	59.9	57.9	65.6	59.5	55.1	51.2	48.1	47.3	44.4	37.5	30.8
34	29.6	61.3	57.5	66.4	58.1	55.5	51.9	49.2	48.5	44.8	39	31.8
36	30.2	60.6	56.7	66.3	58.2	61.3	53.3	54	52	46.6	41.7	34
36.7	30.7	58	57.3	64.8	59.4	60.5	54.4	54.2	52.9	48.2	43.8	36
36.6	30.6	58.2	58.1	63.6	62.2	59	54.6	52.5	52.8	47.2	42.6	35
38.4	30.9	58.1	58.2	64.6	61.2	57	54.4	50.8	51.6	46.4	41.7	34.1
40.4	30.7	58.1	58.3	64.5	60.6	57	52.9	49.6	50.7	47.2	43.6	38.4
39.6	30.2	56.7	57.2	66.4	60.1	56.8	51.3	48.6	48.6	47	43.1	37
36.9	29.6	56	55.5	66.8	60.1	56.7	49.9	48.7	47.3	45.9	42.2	35.4
35.4	29.4	55.3	54	66.5	59.9	55.9	48	46.5	45.2	43.6	40	33.4

28.5	45	49	44.3	47.5	48.4	52.5	60.2	52.6	59.2	56.9	48.5	53.7	49.6	48.2
28.7	48.1	51.2	43.8	51.5	48.1	53	61	55.1	54.9	56.2	47.8	50	53.6	51
29.5	42.4	45.2	49.1	45	47	47.4	62.8	52.9	60.6	56.8	50.5	51.3	53.3	48.7
29.2	42.5	44.3	47.6	49.4	47.8	45.7	61.5	61.8	57.3	59.8	50.5	51	53.3	53.3
28.8	43.9	47.7	45.1	45.5	47	51.5	63.6	57.4	53.5	55.5	51.2	49.8	55.6	50.5
28.7	46.3	49.1	49.4	47.4	46.1	58.3	65.4	58.5	58.5	55.2	49.6	51.9	54.5	48.5
28.7	44.5	47.5	44.3	48.1	53.2	49.1	64.2	53.7	52.6	54.8	51.8	50.3	47.6	51.4
28.8	38.9	45.5	46.3	48.3	45.6	47.4	62.9	56.1	52	57.6	53.7	53.8	49.4	58.3
28.9	43.6	48.6	42.9	44.1	48.3	49.8	63	55.8	52.8	55	54.2	56.5	49.7	53.1
29.4	41.1	43.9	48.5	42.3	48.3	48.6	62.6	57.3	50.9	57.1	57.1	52.8	52	54.4
31.2	41.3	45.9	48.7	45.5	47.2	51.7	63.3	55.5	51.7	57.1	60.4	59.6	56	56.5
32.7	46.4	44.5	45.6	48.9	48.8	50.1	63.4	63.9	55.4	69.2	66	65.6	62.1	61.9
31.3	38.5	42.8	44.8	48	48.9	55.4	64.7	62.4	63.5	72.2	60.7	63.8	58.8	56
30	47.5	48.9	50.5	53	55.1	58.1	66	64.1	57.6	60.1	66.7	58.6	63.6	59
29.4	45.8	50.2	54.9	52.9	55.9	53.3	61.6	58	56.8	58.1	57	54.5	53.4	59.8
29	44.9	48.3	46.4	52.7	52.4	54.8	62.6	53	59.6	63.1	54.1	54.7	58.8	65.1
28.9	49.4	51.5	45.4	51.1	49.6	54.5	62.2	52.1	62.3	56.8	54.2	54.1	58.2	66
28.6	48.3	43.7	46.1	52.8	48.7	49.7	63.3	54.2	63	56.2	52.3	52.3	61.2	54.7
28.5	51.5	46.9	49.3	42.9	48.2	48	65	52.4	65.8	56.2	50.3	53.5	58.6	52.6
28.5	44.8	52	45.9	47.4	47.3	47.5	62.6	56.2	56.8	57.2	52.3	50.7	54.2	53.5
28.5	47.6	52.2	48.2	46.5	46.3	46	63.5	55.5	51.5	56.7	49.8	50	50.9	50.2
28.5	50.2	46.8	47.1	48.9	47.6	49.1	63.6	51.8	50.1	55.8	51.2	49.7	52	49.7
28.5	47.8	41.6	48.1	50.5	50.7	48.9	61.5	50.8	51.4	55.3	52.4	50.3	50.5	63.1
28.5	42.5	46	49.1	46.2	46.9	49	62.9	46.7	52.1	56.7	53.8	49.8	46.6	53.9
28.6	41.7	50.6	48.5	50.4	49.6	49.4	62	50.4	50.1	56.6	51.2	51.5	50.4	51.7
28.6	48.3	51.8	47.7	53.7	48.4	45.2	62.3	50.3	50.4	57.2	52.6	50.2	53.8	61.1
28.6	53.7	53.7	51.4	46.9	45.6	49	60.9	52.7	49.7	56.2	52.4	50.3	45.9	69.3
28.7	50	52.9	50.1	46.8	45.9	51.7	63.2	51.1	49.3	56.5	51.6	49.8	48.1	62.6
28.7	57.3	55.3	44.1	48.3	51.1	49.7	63	48.9	50.4	58	50.5	50.7	48.8	70.3
28.6	53.6	47.7	51.2	48.8	50.3	49.9	62.2	56.3	59	60.3	49.9	49.4	54.9	60.7
28.6	45.4	42.9	48.2	49.6	46.8	48.8	63.2	57	62.2	55.8	52.9	50.9	55.5	52.5
28.6	44.3	46.1	46.5	51.2	51.4	51.5	64	53.9	58	58	51.3	49.3	48.1	57.7
28.6	52.3	49.9	54.2	52.7	54.3	49.3	63.5	56	53.8	59.2	50.3	52	47.5	55.2
28.6	50	54.9	50.6	55.5	52.1	47.9	63	50.5	55.2	64.1	49.7	50.4	51.3	52.9
28.7	63.8	61.7	47.2	52.4	50	49	63.8	53.4	60.3	62	55.9	53.3	54.1	67.7
28.9	55.8	58.3	47.2	50.4	47.9	49.1	63	54.2	62.9	63.8	57.7	58.2	62.4	65.7
28.8	57.7	52.6	52.7	50.3	48.5	51.2	62.7	53.5	60.6	62.2	58.2	56.4	60.7	67.6
28.8	57.2	49.5	54	50.1	47.8	52.4	62.8	55.1	57.8	56.9	52.2	50.2	55.3	71.2
28.7	49.6	43.2	52.9	52.3	44.8	48	62.3	51.2	54.5	57.5	51.4	48.2	54	56.9
28.7	57.4	57.4	49.7	47.4	48.6	46.6	62.8	52.3	55.8	60.5	57.7	53.5	54.5	47
28.7	57.9	51	51.1	53.1	53.1	46.8	63.7	52	53.6	56	52.9	53.6	48.7	49.3
29.1	51.5	50.6	50.6	51.3	52.8	49.3	62.6	58.8	52.4	56.5	48.8	55.7	48.9	51.4
28.8	41	49	51.1	50.8	47.6	49.8	64.8	58.3	50.7	56.8	50.6	56.5	46.8	56.7
28.8	51.3	55.1	46.9	50.2	50.2	46.9	65.2	56.8	51	59.2	67.4	55.3	48.7	47.9
29.2	54.6	55.8	48.5	50.5	48.2	53	64.7	55.6	51.6	68.8	72.4	51.7	50.2	47.3
28.9	57.5	50.7	54.2	54.9	52.2	52.7	63.3	52	52.4	58.1	64.2	50.8	49.1	46.7
28.7	48.5	51.9	56	55.2	50.9	50.8	63.5	53.8	52.3	56.2	68.9	50.8	50.3	47.5
28.7	56	59.7	56.2	55.5	48.6	51.7	63.6	54.8	50.9	56.4	57.7	52.1	54.2	51.9
28.6	58.5	53.9	54.8	60.1	56.8	54.2	63.7	56.9	52.1	58.3	62.4	54.7	55.5	54
28.6	57.8	51.3	60.1	57.7	46.9	49.5	61.8	54.8	56.4	64.6	67.4	61.9	62.8	51
28.6	56.4	60.5	44.8	49.5	52.1	50.1	63.2	51.8	57	68.8	54.5	63.7	62.1	50.2
28.6	62.5	61.5	55.7	50.1	48.4	50.4	63.3	52.7	52.9	67.6	57.2	53.7	62.4	50.5
28.9	58.2	53.6	50.5	44.3	47.6	53.2	62.7	55.9	65.2	60	55.9	59.7	58.5	48.3
28.7	54.7	54.7	43.9	50.1	51.2	48.4	62.8	60.1	59.9	56.6	52.2	60.1	58.3	47.1
28.6	49.4	47.5	50	50.1	48.4	51.3	63.8	57	55.7	57.6	57.7	49.7	53.4	49.9
28.6	43.9	46.5	49.8	49.4	51.5	51.6	63.3	55.7	56.1	58.9	53.3	49.7	49.3	48.1
28.6	52.3	47.3	49.6	47.7	50.9	44.2	62.9	55.8	54	57.8	52.2	51.4	47.2	47.1
28.6	43.6	49.2	45.7	50.1	50.9	48.6	64.5	56.9	58.1	59.6	58.8	52.1	48.7	48.6
29.4	45.6	51	51	52.1	50.9	47.4	62.9	55.7	57.6	59.8	55.1	57.7	51	48
30.4	42.5	46	51.2	51.9	51.9	48.3	63	55.6	56.9	56.5	52	52.1	57.6	48.5
30.9	51.6	58	52.4	50.4	46.8	46	62.1	58	56.3	59.1	54.7	50.9	49.3	47
29.7	52.7	56.8	55.4	55.9	45.8	48.4	62.7	59	55.6	58.7	52.6	53	50.1	47.3
29.1	55.6	53.6	46.5	52.6	48.2	48.9	67	61.4	53.7	57.5	51.8	50.7	46.5	47.8
28.8	55.7	55.5	43.8	50.6	46	50.8	63.3	59.7	52.9	57.8	52.2	52.7	45.6	46.3
28.7	55.9	45.6	51.4	50.8	49.2	50.1	62.4	58.4	51.1	57	51.7	50.2	46.6	46.1
28.6	50.9	51	48	52.8	48.4	51.3	64.5	55.9	50	57.2	51.7	51.6	46.3	46.9
28.6	46.5	49	46.8	50.7	50.4	53.8	64.5	55.8	51	56.4	52.3	53.4	46.6	48
28.5	37.7	45.7	47.7	47.9	48.2	48.2	65.1	58.8	54.7	60.5	55.1	54.4	42	46.7
28.5	44.9	53	47.5	49.7	55.7	56.7	63.8	55.4	50.9	59.3	52.9	55.6	49	48

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.5	44.4	48.3	55.6	59.8	56.9	50.4	64.6	55.6	53.6	59.7	52.3	57.7	48.6	47.2
28.5	45.8	46.1	49.7	50.2	49.1	48.5	63.2	58	52.1	55.8	54.1	52.7	50.5	50.6
28.6	50	51.7	47.7	44.9	45.8	49.2	62.4	51.9	51.5	59.5	55.1	52.8	52.2	52.5
29	43.8	49.8	46.2	46.7	49.7	49.7	62.7	54	52.1	55.4	54.4	53.2	50.7	50.7
29.2	47	47.6	47.7	47	47.8	48.3	60.2	53.1	52.4	58	55.5	56.2	56.4	52.6
29	52.1	49.5	45.7	47.6	50.1	51.9	61.3	57.8	54.5	58.4	54.6	60.8	54.4	50.6
28.8	47.4	48.3	46	47.3	50.1	50.9	63.9	61.3	52.2	59.9	53.7	57.1	51.8	49.3
28.7	45.3	49.1	41	50.4	50.5	50.9	64	61.4	53.9	58.8	52.5	53.7	51.8	49.3
28.6	51	46.6	43.6	48.9	49.3	50.4	64.8	56.9	53.8	57.5	51.3	53.1	50.9	47.5
28.5	45	47.8	47.8	43	49.7	50.8	63	59.5	54.6	58	52.4	53.2	50.8	50.3
28.7	43.1	47.7	47.6	46.8	50.3	47.9	63.7	60.4	58.2	62.1	57.9	58.8	57.2	46.4
28.7	43	46.2	50.1	46	56.3	50.9	62.4	56.3	57	58.2	56.4	54.5	50.6	51.3
28.7	48.7	50.8	54.3	57.8	58.5	50.7	66.8	56.7	55	55.5	53.5	53.4	50.1	48.1
29	40.8	51.6	50.8	54.1	55	53.3	65.3	53.8	55.5	55	51.5	50.7	49	47.1
29.1	53.5	53.4	48.2	41.1	48.3	50.1	64.3	58.9	54.5	55.8	55.8	53.4	47.5	49.6
28.9	52	51.2	44.8	47.7	52.3	48.2	63.1	58.9	54.7	54	55.5	47.7	47.3	47.8
30.1	50.4	45.6	44.6	46.7	46.1	50.1	67.5	52.6	53.4	55.6	53	51.5	47.1	47.3
29.2	45.8	43.6	50.1	48.1	41.9	45.1	66.6	46.1	55.4	57.5	53	53.4	48.4	47.8
28.8	34.5	46.4	47.1	49.6	49	55.1	64.4	56.4	63.2	54	51.5	54	53.6	47.7
28.8	41.6	46.4	46.1	52	49.1	61.4	60.1	61.8	59.2	55.2	51.8	52.3	52.8	46.4
28.8	42.4	43.7	47.2	46.5	49.2	51.7	63.2	58.6	57.2	57.8	51.3	53.1	51.5	54.3
28.7	53.1	54.3	46.1	49.7	49	51.7	65.1	55.7	62	62.1	51.5	53	49.9	54.1
28.6	53.4	49.9	42.5	47.9	47.9	58.6	60.4	57.3	57.7	63.5	52.6	52.9	52.1	50.9
28.6	48.1	50.4	47.9	50.6	53.5	56.3	62.1	52.2	55	59.3	58	49.9	51.2	49.2
28.5	39.6	48	47.7	50.3	51.9	55.9	62.1	56.2	60.3	58.9	53.2	50.8	51.2	54.2
28.6	45	47.4	48.7	50.7	52.8	55.9	61.8	58.3	57.5	58.4	47.8	51.2	50.9	52.6
29.5	45.6	49.4	53.7	52.5	52	52.5	63.4	55.4	63.8	54.9	49.7	53.9	52.7	51.5
29.1	47.5	55.6	54.9	54	49.6	52.2	62.4	53.4	65.2	56.4	57.5	53.7	50.3	52.3
29.1	58.7	56.3	51.2	54	52.1	53	64	56	66.2	53	51.1	53.1	55.9	60.9
29.6	56.1	54.4	52.5	54.5	50.8	49.9	63.4	60.1	64	56.2	53.2	52	59.3	57.9
30.3	62.9	53.1	56.1	51.9	49.7	55.1	61.3	59.7	58.7	61.4	52.5	56.2	57.8	54.9
29.8	58.7	52.3	52.4	50.6	53	56.6	60.8	55	61.9	59.3	55.6	57.5	53.1	54.3
29.6	56.9	49.2	51.3	50.9	49.7	54	62.1	59.7	64.6	58.2	55.5	56.4	50.2	52.5
30.2	51.2	52.3	48.2	52.2	55.5	54.5	62.9	55.1	63.6	57.7	54.1	51.8	51.4	56.3
29.6	55	56.5	51.4	57.2	51.6	51.7	64.6	59.6	66.2	58.3	54.9	53.9	52.1	52.1
29.4	55.7	56.7	47	50.5	49.8	48.8	63.5	55.2	63.6	60.4	52.3	53.4	54.8	50.1
29	55	52.2	50.1	49.5	52.8	49.1	64.2	54.3	61.6	54.8	54.3	51.7	52.1	51.6

42.5	48.5	38.1	38.4	45.8	39.9	40.3	38.6	40.7	38.9	37	34.8	33.4	32.4	30	28.8
44.6	46.2	38.4	37.1	42	38.2	38.6	37.3	37.9	37.2	35.8	33	32.6	30.9	28.5	27.3
44.7	39.7	38	36.2	36.9	33.9	34.5	34.7	34.9	33.9	31.8	30	29.9	28.6	26.9	27.4
43.5	38.1	37.4	35.7	37.1	36	34.9	34.6	35.9	34.2	32.9	31	30.7	30	28.4	28.8
46	39.4	37.4	34.7	36.6	37.1	36.1	34.9	37.5	35.4	33.8	31.2	30.8	30	27.7	26.9
46.1	38.6	41.2	39.5	39.8	38.8	40.2	37.7	37.5	40	36.8	34	33.8	32.6	30.5	29.4
46	43.4	40.7	38.1	41.5	41.3	41.6	40.1	40.6	41.6	38.6	38.3	37.7	37.2	34.6	32.7
46.5	44.1	42.2	39.8	41.9	43	41.5	40.6	41.6	42.7	40.2	38.7	38.6	37.8	35.1	33.2
44.6	48.6	46.1	43.1	45.5	44.5	43.8	43	44.5	42.6	43.2	40.3	39.1	38.7	37.8	36.7
48.3	52.4	50.7	46.2	50.4	51.6	48.8	50.1	50.8	48.7	48.8	45.7	44.7	45	43.1	40.9
52.7	54.1	52.5	49.1	55.8	55.7	52.9	56	54.6	53.1	50.9	48.9	48.1	47.3	45.3	43.1
54.2	54.6	54	51.5	56.1	57.1	54.9	57.7	54.9	52.4	50.4	48.3	46.9	44.7	43.8	41.9
54.1	53.7	56	50.1	52.7	53.8	52.4	52.3	53.9	51.1	48.4	45.6	43.4	41.5	39.4	38.2
52.2	52.1	55	48.7	48.4	49.3	50.4	47.8	50.3	49.8	47.4	44.3	40.3	38.7	35.9	33.5
56.8	52.6	53	48.9	48.4	48.3	49.4	47	48.1	49.3	45.6	42.5	40.4	38.7	36.3	33.8
52.1	49.7	50.2	45.4	47.3	46.8	47.8	46.7	45.2	44.6	42.7	38.7	37.7	35	32	29.8
53.2	49.1	49	45.1	45.8	47.2	48.2	46.6	43.5	44.4	41.9	39.6	37.5	35.3	33.6	31.9
50.9	47.3	46.8	42.5	43.1	43.3	43.8	43.4	40.9	39	36.9	34.1	32.2	30.6	28.5	27.5
44.9	42.5	43.4	38	39.3	38.5	40.5	40.3	37.5	35.9	34.8	31.9	30.5	28.7	26.8	26.6
45	38.9	38	35.4	36.3	33.9	35.9	36.3	35.4	33.9	33.1	29.4	29.4	27.8	25.8	26.3
45.6	38.3	38.7	35.4	36.9	34.9	35.3	33.8	35.4	34	31.7	29.2	29.5	27.5	26.2	26.7
44.3	38.5	38.4	37.7	36.5	32.7	33.3	34.7	35.5	34	32.4	31.6	31.5	29.4	26.4	26.7
49.8	41.7	45.6	43.8	40.4	36.3	36.6	37.4	38.5	35.3	35.1	32.1	31	29.5	27	26.7
46.9	39.9	44.7	42.7	38.2	35.3	34.7	34.7	35.2	33.8	33.2	31.4	30.8	29.1	27.1	26.7
44.1	40.3	40.4	38.4	39.6	35.1	37.8	36.2	36.4	34.1	33.5	31.7	30.7	29.1	27	26.7
44.1	40.4	43	41	38.3	36.9	38	37.3	36.2	35.4	34.8	32.3	31.1	29.5	27.3	27.4
46	39.4	42.9	41	40.9	37.5	37.6	36.6	37.1	35.9	36.2	33.8	31.7	30.2	28.7	28.6
44.1	41.6	43.1	41.2	39.5	37.2	36.2	36.4	36.9	36.1	35.7	33.5	31.6	30.6	28.8	28.4
47	41.2	43.3	43	40.4	37.5	36.3	37.2	36.8	35.5	34.7	32.3	31.4	29.6	27.7	27.5
47.6	42.2	42.5	41.3	39.5	37	37	37.2	37.1	36.7	35.8	33.4	32	30.3	28.1	28
47.6	42.4	41.8	41.8	41.4	37.2	36.5	36.5	37.2	36.4	36.3	33	31.6	30.4	28.4	28.1
45.6	39.7	40.7	40.5	38.8	36	35.4	36.2	36.1	35.4	33.4	31.8	30.9	29.1	28	27.8
44.3	37.9	38.7	37	36.6	35.3	34.3	35.3	35.5	34.5	35.9	31.3	30	29	28.2	27.8
43.9	41.1	39	39.5	39.1	37	37.3	38.3	40.4	37.7	37.7	34.7	33	30.9	29.2	28.3
50	45.6	49.2	47	45.4	45.3	43.9	46.8	50.8	45.2	43.4	41.1	37.7	35.3	32.2	31.2
52.3	49.6	55.9	51.1	51	49.9	47	48.6	52.4	45	45.2	41.4	37.8	35.3	32.8	31.9
49.1	51.5	57.4	54.4	46.3	47.9	48	48.7	48.5	45.4	44.4	42	39	36.2	34	32.4
49.7	51.6	58.4	54.7	47.6	46.5	45.2	42.6	43	39.6	38.8	36.8	35.1	33.2	31.7	29.8
50	43.4	54.6	47.2	45.7	39.9	41.6	38.3	38.4	36.7	36.2	33.7	32.7	31.5	29.3	28.9
48.7	40.2	46.9	45.3	39.6	37	36.9	36	37.4	36.8	35.8	33.3	31.8	31.4	28.6	28.6
45.5	39.9	48.6	43.6	38.2	37.1	35.7	36.5	39.2	37.6	37	33.7	33.1	32.6	35.4	32.5
45.3	44	48.7	43	40.1	37.7	39.6	38.7	38.6	37.4	35.6	33.5	32.8	31.5	30.3	29.4
44.7	41.7	45.4	41.7	37.8	36	37.1	38	37.2	36.9	35	33	31.3	30.2	28.4	28.8
44.4	44.3	46.7	43.8	37.9	36.7	37.2	37.7	37.1	36.3	34.8	32.8	32.2	31.9	30.8	31.1
43.5	42.6	45	44.1	39.5	36.3	35.8	37.1	38.3	36.9	37.2	34.3	33.1	32.5	29.3	30.1
43.7	40.3	43.2	40.6	38.7	34.6	34.6	34.6	36.1	35.6	37.7	33.2	32.3	32.6	29	29.5
44.1	38.5	43.1	37.9	37.1	33.8	34.3	34.9	35.9	36.4	35.6	32.8	31.4	33	28.8	29
43.4	38.9	39.2	38.2	37.5	35.6	35.5	35.9	36.7	36.9	36.5	33.9	32.7	32.4	29.8	28.7
45.1	41.5	43	39.1	39.9	39.9	38.5	39.1	40.2	38.9	38.8	36.7	35.6	36.3	33.9	32.3
47.9	44.9	43.6	41	39.5	40.8	40.6	40.8	41.9	39.5	40.2	37.8	37.5	36.8	35.6	33.5
46.9	48.2	44.3	39.4	40.3	39.7	40.3	40.1	40.3	39.7	39.6	36.5	35.1	34.7	32.5	31.3
45.8	48.5	47.1	41.6	40.1	39.8	41.8	41.4	40.8	39.4	38.3	36.6	34.7	35.8	33.9	32.4
47.9	45.3	45.6	41.4	40.6	39.8	40.9	41.8	41	39.3	38.7	37.6	35.7	36.9	34.3	32.3
43.8	40.9	42.8	39.4	38.4	38.3	38.3	38.9	38.7	37.7	35.4	33.3	31.9	31.6	30.3	28.9
46.5	42.5	43.6	39.3	38	37.1	39	39.2	39.7	37.5	36	34.3	32.9	32.5	30.8	28.8
45.7	40.1	40.7	38.3	38	37.9	37.1	37.6	39	38.4	36.4	34.1	33.1	32.6	31.1	30.1
44.6	40.5	39.5	37.8	37.8	37.4	38	37.1	38.3	39.4	36.7	33.8	32.7	32.1	30.7	29.7
45.4	40.2	39.1	38.8	38	36.1	37.5	38.1	38	37	36.1	33.5	32.4	32.6	32.5	33.5
45.3	42.1	41.4	40.2	38.8	36.8	38	38.5	38	38.2	36.5	34.9	34.7	34	33	33.3
44.5	44.1	41.6	44.6	40.4	40.8	38.9	39.7	40.1	40.2	39.3	38.4	37.7	36.6	35.4	34.8
45.2	41	40.6	39.6	38.6	36.6	37.5	37	38.1	36.6	35.6	34.7	34.3	32.7	31.1	30.3
44.2	40.8	39.5	36.5	35.9	34.8	35.3	36.2	36.2	34.7	33	32.1	30.8	30	29	28.3
44.4	38.6	38.6	37.7	36.2	34.4	35.5	35.4	36.2	35.2	32.4	31.4	30.5	29	27.8	27.2
43.5	39.2	38.4	35.2	36.4	34.7	33.5	35.5	36.3	34.9	31.7	30.7	30.9	28.5	27.3	26.8
43.4	37.5	38.1	36.8	36.3	33.9	34.1	35.8	35.8	35.7	32.9	32.1	31.5	31.4	27.7	27.6
44.5	38.1	36.1	36.2	35.7	34.1	34.3	36.7	36.7	35.8	33	31	30.6	29	27.6	26.6
46.1	39.7	39.7	41.5	37.3	36.4	37.4	39.2	39.3	39.2	39.9	36.7	39.5	35	30.6	29.2
44.6	37.6	37.3	36.4	35	34.4	33.9	34.8	36	34	31.8	30.4	30.6	28.2	26.4	26.3
45.7	39.4	37.5	37.8	37.2	35.3	35.1	35.5	36.2	34.9	33.2	30.7	30.6	29	27	26.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq ·	1/3 LZeq
46.4	39.5	40	39.3	37.6	37.5	37.6	39	40.3	38.5	38.2	35.3	33	30.4	27.5	27.3
48.5	42.5	42.8	40.5	40.7	42.3	40.4	42.9	43.5	42.2	42.7	40	36.3	33.2	29.7	28.4
47.7	44.2	44.5	43.6	44.7	45.3	43.4	45.9	48	45.3	45.2	43.6	38.7	36.2	31.7	29.7
49.3	46	49.1	49	46	46.2	48.7	48.7	50.8	48.8	48.2	46.1	41	39	34.7	33.8
50.8	46.1	49.7	51.3	48	47.1	48.9	50.4	51.2	49.3	47.2	44.3	41.9	39.5	35.3	35.5
49.5	46.8	49.1	49.5	47.3	45.7	48	46.7	49.5	48.8	46.6	44.2	40.8	36.8	33.9	32.7
48	46.7	49.2	49	45.4	43.8	46	45.2	46.9	47.8	45.5	43.1	39.2	35.4	32	30.7
47.8	44.5	47.8	48.6	42.1	43	44.2	41.7	47.3	47.2	45	43.6	37.7	33.8	30.5	29.3
46	44.7	47.5	49.1	42.4	41.9	42.8	41.2	44.6	44.8	44.1	41.5	35.1	31.3	28.8	28.1
51.1	47.8	47	48.7	42.1	41.7	42	40.7	43.9	43.9	43	40.9	35.7	32.6	31.1	29.7
46.8	42.6	44.7	44.7	40	40.3	40.8	39.8	41.7	40.9	40.8	38.7	33.6	30.5	28.7	27.6
48.8	43.4	43	44	41.2	40.3	40.9	39.8	40.9	39.8	38.8	36.7	32.6	29.3	28.1	27
48.2	41.5	42.4	43.8	38.1	39.2	40.7	38.3	40.4	38.6	36.6	34.3	32.1	29.9	28.5	27.5
47.4	41.6	41.3	40.3	37.6	36.9	38.3	38	38.7	37.4	35.5	33.5	31.6	30	28	27.8
45.9	38.6	40	39.6	37.6	34.5	36.8	36	37	36.2	33.6	32.2	31.1	29.5	28.1	27.3
45.1	39	38.7	37.8	37.4	34.7	35.1	36.2	36.4	35.6	33.8	32.4	30.9	30	28.6	27.4
45.5	39.3	38.6	38.7	37.1	36	37.6	37.4	38.9	37.2	34.4	34	32	30.8	29.5	27.8
46.9	38.4	39.2	37.8	38.2	38.5	39.3	39	40.1	37.9	36	35.6	33.7	33.1	31.5	29
44.3	46.1	41.7	41.5	44.4	40	40.7	41.2	42.5	40.7	40.3	38.4	37.9	35.7	33.2	30.6
46	47.7	43.4	42.7	44.7	41.1	42.3	41.6	43.3	42	40.2	38.3	37.4	35.7	33.7	31.4
46.1	48.9	44.9	42.5	44.3	41.6	42.8	42.1	43.2	41.8	41.4	38.8	36.5	35.7	33.4	30.4
46.6	48.8	45.3	42.3	44	43	43.2	42.6	43.4	41.5	41.3	39.3	36.6	35.6	33.7	30.8
48	50.2	45.7	43.5	44.5	44.1	43.2	42.9	43.7	41.8	41.2	39.7	37	36.6	34.4	31.7
46.4	48.4	47.1	43.9	45	43.9	44	43.7	44.1	42.1	41	39.2	36.8	36.2	33.3	30.7
45.3	49.7	46.6	44.4	44.6	43.1	43.5	43.6	44.2	42.5	41.5	39.2	36.2	34.7	32.6	30.2
45.2	49.9	44.6	41.9	44.2	42	43.2	43	43.1	41.6	41.7	38.5	35.8	34	31.7	29.8
46.3	49.8	44.5	43.2	45.3	42.3	41.2	42.5	43.4	41.4	42.5	39.6	35.8	34.5	32.3	30.6
48	49.8	45.2	45.7	46.4	44.9	43.7	44.3	44.3	42.9	41.8	40	37.1	36.5	34	32.2
48.5	52.4	48.5	46.8	48.3	49.9	52.4	49.6	48.9	45.6	44.5	42.6	40.1	39.9	37.4	34.9
51.3	53.5	50	48.3	49.4	50	49.4	49.2	49.1	46	45.5	43.7	41.4	41.7	39.2	36.7
51.3	50.8	50.1	48.6	50.4	49.2	49.6	49.3	50.4	47.5	44.8	43.6	41.3	40.9	40.2	37.5
51.5	53.8	50.9	46.2	47.6	46.6	45.4	46.4	49.1	46.9	43.2	41.9	39.5	38	37	34.9
50.5	51.7	49.2	43.4	45.6	44.2	43.3	44.2	47.8	46.3	43.5	42.4	39.1	39.7	39.3	37.1
49.9	49	45.9	43	43.4	43.6	45.5	44.2	46.4	45.1	44.3	44.8	42.6	41.4	40.9	41.5
50	48.8	45.6	39.6	39.9	41.9	46	42.2	42.5	40.4	42.9	42.2	38.9	37.8	37.4	34.4
49	46.3	43.6	39.8	41.7	44.5	46.7	43.3	41.1	39.9	40	41.9	38.2	37.7	37.6	34.5
47.1	44.4	40.7	38.3	39.6	37.7	39.6	38.7	37.7	38.9	36.3	36.8	36.1	34.1	34.2	31.1

26.7	24.6	24.2	24.1	24	24.6	51.9	50.8	49.1	47.5	48.3	52.6	60.3
25.8	24.3	25.6	26	24.1	24.7	48.7	51.8	46.2	50.6	48.8	53	60.8
26.3	27.7	28.1	26.7	24.5	24.7	48.7	50.1	48.4	50.1	48.1	53	62.4
26.3	25.5	25	23.9	23.8	24.5	45.7	48.2	48.8	49.4	47.8	50.3	62.5
24.7	23.6	23.2	23.2	23.8	24.5	44.3	47.5	47.7	48.5	47.7	50.7	63
26.3	24.6	23.5	23.4	23.7	24.5	46	48.8	48.8	47.6	47.6	57.7	65.2
29	26.7	24.8	23.9	23.8	24.6	45.3	48.6	48.8	48	52.3	56.8	64.7
29.8	27.6	25.8	24.3	23.9	24.5	45	47.8	46.8	49.1	51	53.7	64.3
33	30.1	27.9	25.4	24.3	24.6	43.3	48.3	46.8	47.6	48.7	51.2	63.8
36.8	34.7	32.2	28.9	26.1	24.8	43.2	48.4	47.8	45.9	49.1	50.1	63.3
39.8	38.1	35	31.8	28.5	25.6	42.7	46.3	48.5	45.9	48.5	51.7	63.4
37.3	35.4	32.3	29.6	27.1	25.3	46	46.4	48.1	48.7	50	51.4	63.4
34.2	31.7	29.4	26.7	25	24.9	44.4	45.1	47	49.1	49.2	54.6	64.2
29.8	27.2	25.3	24.2	24.1	24.7	46.3	48.2	50	52.4	54.2	57.4	65.6
30.1	27.3	25.9	24.5	24	24.6	46.4	49.6	54.1	53.4	56	56.7	65.2
27.7	25	23.9	23.4	23.8	24.6	46	50	53.5	53.2	54.4	55.9	63.6
29.3	26.3	24.9	23.9	23.8	24.7	48.8	51	50.8	52.7	53.8	55.3	62.9
26	24	23.5	23.1	23.5	24.5	49.7	51	47.8	53.3	51	54.1	63.3
24.5	23.2	22.9	22.9	23.6	24.5	51.1	48.4	48.8	52.3	49.9	52.1	64.4
24.4	23.2	23	23.1	23.5	24.6	51.1	50.9	48.7	49.2	49.6	49.5	64.3
24.4	23.2	23	23.2	23.7	24.6	48.3	52.2	48.6	48.1	47.6	48.4	63.5
24	23.3	23	23.1	23.7	24.6	49.7	51.2	47.7	48.9	47.9	49.1	63.8
24.4	23.3	23.1	23.1	23.8	24.6	49.5	48.9	48.7	50.4	50.5	49.3	63.5
24.4	23.4	22.9	23.2	23.8	24.6	48.5	46.5	49.1	49.9	49.2	49.8	62.8
24.4	23.3	23	23.3	23.7	24.6	45.5	49.3	48.8	50.2	49.6	49.6	62.8
24.8	23.6	23.1	23.1	23.7	24.6	47.4	51.3	49	53.2	49.2	49.2	62.7
26.3	25	23.8	23.6	23.8	24.6	52.5	53.8	51.4	53	48.5	48.9	62.3
26.3	24.8	24	24	23.8	24.6	52.6	53.1	50.8	50.3	46.8	51	62.8
25.3	24.4	23.5	23.3	23.8	24.6	56.2	54.8	49.6	49.2	50.5	50.4	63.4
25.8	24.1	23.5	23.4	23.7	24.4	56	54.9	50.7	49.5	50.7	50.4	63
25.8	24.4	23.5	23.3	23.7	24.7	53.8	51.4	50.9	49.6	49.6	50.2	63.1
25.6	24.5	23.5	23.3	23.8	24.5	50.7	48.1	49	50.7	50.8	51	64
26.2	25.1	24.4	23.4	23.7	24.6	51.8	49.2	52.9	52.3	53.8	51.4	63.9
26.8	25.3	24.3	23.5	23.9	24.6	52.5	53.5	52.6	55	53.3	49.4	63.5
28.1	26.1	24.8	23.9	24	24.7	62.4	60.4	51.7	54.3	52.5	49.6	63.7
29.2	27	24.8	24	23.9	24.6	62.3	59.7	49.7	53.4	51.2	49.9	63.7
29.8	26.8	24.6	23.8	24	24.7	59.3	59.1	51.8	52.1	49.5	50.9	63.6
27.5	25.3	24	23.5	23.8	24.7	58.5	55.9	53.5	51	49.1	52.1	63.2
26.4	24.5	23.7	23.5	24	24.6	57.7	53.1	53.5	52	48.5	51.8	62.9
26.2	24.7	23.5	23.2	23.8	24.6	57.3	56.3	53.1	51.7	48.3	49.9	62.9
30.6	29.1	27.7	25.7	24.5	24.8	58.3	55.2	51.7	52.7	52.1	48.2	63.6
27.7	25.4	24.2	24.2	23.9	24.7	57.4	53.5	52.8	52.3	53.1	49.3	63.6
26.1	24.7	23.6	23.3	23.8	24.6	54.7	51.9	51	53	52.3	50.2	64.5
30.4	29.7	28.3	25.2	24.3	24.8	51.4	54.1	50.7	51.2	50.9	49.5	65.5
29.1	27.9	26.2	24.7	24.1	24.7	53.6	55.4	49.2	50.8	49.8	52.6	65
26.6	24.3	23.6	23.3	23.8	24.8	57.2	55.4	53.1	54.3	51.5	53.1	64.8
27.9	25	23.6	23.4	23.7	24.6	55.6	53.2	55.4	54.9	51.6	52.6	63.9
26.2	24.6	23.7	23.3	23.7	24.5	55.9	58.6	57.2	56.3	51.2	51.9	64.1
29.9	26.9	24.4	23.4	23.8	24.5	57.6	57.4	55.8	59.3	55.5	54.2	64.1
30.7	27.8	24.7	23.5	23.6	24.6	58.4	55.5	59.4	58.7	55.1	52.9	63.3
28.8	25.9	24.3	23.5	23.7	24.4	57.3	59.7	58.5	57.8	52.4	51.2	63.1
31	30.8	25.8	23.9	24.1	24.5	61.7	62.1	55.9	54.6	52	51	63.5
30.9	30.5	26.8	23.8	23.9	24.6	62.1	59.9	56.2	52.5	50.2	52.8	63.4
26.1	24.3	23.2	23.2	23.8	24.6	59.3	57.7	52.9	50.5	50.5	52.4	63.3
26.2	24.3	23.4	23.2	23.7	24.6	57	55.4	50.3	50.8	50.5	51.3	63.8
27.3	24.7	23.4	23.3	23.7	24.5	54	52.2	50.3	50	51.4	52.1	63.7
27.5	25.5	23.6	23.3	23.8	24.6	52.1	49.7	51.1	49.8	51.5	51	63.5
32.1	30.7	27.8	25.5	24.6	24.9	51.4	49.5	49.2	50.2	52.5	49.2	64.3
31.7	30.7	29.3	27.5	25.1	24.9	48.6	50.2	50.2	52.1	52.2	48.3	63.9
34.4	33.8	33.5	31.5	27	25.6	46.3	50.1	50.8	52.3	51.8	49	63.3
30	29.2	27.6	25.8	24.6	24.9	49.8	56.4	52.1	51.3	51.2	48.6	63.2
26.6	24.8	24	23.8	23.9	24.7	52.1	56.9	55.2	54.9	49.4	48.3	63
24.9	23.4	23.1	23.1	23.9	24.6	54.8	56.7	53.6	55.2	48.2	49	66.1
24.6	23.3	23	23.3	23.6	24.6	55.4	56	50.4	53.4	47.7	50.5	66.5
25	23.9	23.1	23.2	23.7	24.6	56.8	55	50.4	52.6	48.7	50.8	64.1
24.5	23.1	23	23	23.8	24.6	55	52	50.4	52.4	49.1	51.5	64.5
26.7	23.5	23.2	23.2	23.7	24.6	53	51.1	49.4	53.1	50	53.7	64.5
24	23.1	22.6	23.1	23.6	24.7	49.9	50.1	47.8	50.7	50	52.4	65.1
23.8	22.8	22.6	22.9	23.5	24.5	46.1	51.8	48	50.1	55.3	55.9	65.2

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
24.4	23.5	22.8	23.2	23.7	24.6	46.8	51.6	54.5	58.9	57.6	54.5	65.1
25.2	24	23.2	23.1	23.9	24.6	45.5	50	54.5	57.4	55.7	52.4	64.3
26.6	25.2	24.2	24.7	24.5	24.9	49.1	51.2	52.1	54.4	52.7	50.9	63.7
28.6	27.6	26.1	25	24.4	24.7	48.5	50.7	49.4	50.8	50.8	49.8	62.9
29	27.8	25.2	24.2	24.2	24.7	46.8	49.6	48.7	49.5	49.5	50	62.9
28.5	26.5	24.7	23.9	24	24.7	50.8	49.9	47.6	48.2	50	51.8	62
27.3	25.4	24	23.6	23.8	24.7	51	49.4	46.8	48.3	50.8	52.1	63.4
25.8	24.1	23.3	23.2	23.6	24.6	48.4	48.9	46	49.9	51	51.3	64.3
25	23.1	22.7	23	23.7	24.5	49.8	48.9	43.9	49.9	50.3	51.5	65.3
25.4	24.2	23.8	23.9	24	24.7	50	48.1	46.8	49.2	50.5	51.9	64.4
24.6	23.4	23	23.3	23.8	24.6	47	48.4	47.3	47.1	51.4	50.5	64.1
24.6	23.5	23.5	23.9	24.1	24.5	44.9	47.6	49.3	46.7	56.1	50.6	64.7
24.6	24.4	23.8	23.9	24.4	24.8	47.8	49.9	53.6	56.8	59.2	50.9	65.6
25	24.1	24	25.4	24.5	25.5	47.4	51	53.4	55.3	57.1	52.9	65.7
24.9	23.5	23.2	23.9	23.8	24.6	52.2	53.2	52.9	54.5	55.3	52.8	65.5
28.7	25.8	27.7	27.8	28.9	26.5	53.2	52.4	49.8	50.7	53.1	51.3	64.5
27.2	23.7	23.1	23.1	23.8	24.5	51.9	52	47.3	49.1	52.2	50.3	66.4
27.9	24.2	23.3	23.1	23.8	24.6	50.6	49.4	49.6	48.3	49.3	49.9	66.9
28.2	25.4	23.9	23.1	23.8	24.6	47.9	46.9	49.1	50	48.7	54.4	66.9
29.1	25.8	24.6	24	23.9	24.7	43.9	46.7	47.5	51.5	49.2	59.6	65.4
27.8	25.1	23.7	23.3	23.7	24.7	43.6	46.7	47.5	51	49.5	59.6	63.2
27.7	25.5	24	23.3	23.6	24.7	52.2	53.2	47.6	49.9	50.7	56.2	64.8
28.3	25.9	24	23.2	23.8	24.5	53.3	53.3	46.8	50.4	48.8	57.5	64.1
27.5	25.2	23.9	23.3	23.7	24.6	52.7	52.2	47.2	50.3	52.6	57.8	62.7
27.1	25.1	23.7	23.2	23.6	24.5	50.5	50.7	48.1	50.9	52.8	56.4	62.7
27	25.8	25.3	28.5	26.3	25.2	46.7	48.6	48.8	50.9	53	56.9	62.4
27.6	25.3	24.3	23.8	23.9	24.6	46.2	49.4	52.4	52.5	53.1	55.9	63.3
29.2	27.2	25.1	23.9	23.9	24.6	47	54.6	54.5	54	52.6	54.1	63.5
31.7	29.4	27.5	25.5	24.4	24.7	57.2	55.6	53.9	55.4	52.9	53.9	63.9
33.5	31.5	29.7	27	25	24.7	57.6	55.5	53	55.1	51.9	52.7	64.3
33.8	32.1	29.8	27.4	25.3	25	61.6	55.8	55.5	53.7	50.7	54.1	63.6
30.9	28.9	27	25	24.3	24.7	61.6	53.9	54.9	52.7	52.9	56.1	62
36	35.1	30.3	28.3	25.1	24.9	59.7	52.6	54.2	51.8	52.9	56.4	62.2
38.7	34.9	29.8	26.1	24.7	24.6	58	52.9	52.4	52.4	54.9	55.7	63.4
31.5	28.4	25.8	24.9	23.9	24.5	56	55.8	51.7	56.2	55.7	53.9	64.6
31.8	28.9	26.1	25	24.1	24.5	55.9	56.4	50.8	55.5	52.6	53	63.9
28.4	26.3	24.5	23.9	23.8	24.6	56.2	56	49.9	53.6	53.5	50.6	64.2

53.6	61.1	57.1	51.3	54.9	50.8	48.6	43	49	38.5	38.1	45.8	39.6
54.8	59.1	57	49.7	54	52.8	50.6	44.3	48.8	38.7	38.1	45.8	39.6
54.1	59.9	56.9	50.5	52.3	53	51.1	44.5	46.7	38.5	37.4	43.3	38.5
60.2	60.5	59.2	50.4	51.6	53.6	52.8	44.5	43.7	38.3	36.8	40.5	36.5
60	57.8	58.7	51.3	51.1	55.1	53	45.6	41.1	37.7	36	38.7	37.1
59.2	58.3	56.8	50.8	51.7	55.9	51.3	46.1	40.1	40.3	38.5	39.6	38.3
59.3	58.3	56.1	52	51.6	54.1	51.6	46.5	42.4	40.5	38.2	40.8	40.5
57.3	55.4	57.2	53.9	52.9	51.3	57.5	46.6	43.9	41.9	39.4	41.6	42.3
56.3	53.9	56.7	53.9	55.9	50.6	56.9	46.6	47.5	45.3	42.2	44.7	43.9
57.3	53.1	57.4	56.5	55.6	52.2	55.3	47.9	51.3	49.5	45.2	49.5	50.7
56.5	52	57.1	59.9	59.1	55.7	55.9	51.6	53.4	51.6	48.1	54.5	54.6
62.7	55	68	64.8	64.3	61.1	60.9	53.6	54.2	53.6	50.3	56	56.3
63.1	62	71.5	64.4	65.2	61.8	60.8	54.5	54.4	55.4	50.5	55.3	56.1
64	62	70.6	65.7	63.6	63.1	59.3	53.8	53.6	55.6	50.1	53.7	54.5
63.5	59.5	67	65.1	61	62.7	60.3	56.3	52.8	55.1	49.5	51.1	52
60.6	59.4	64.2	61.7	58.6	59.8	63.8	55.8	52.7	53.9	49	49.5	50
57.3	61.8	62.8	58.5	56.2	59.2	65.5	54.7	50.9	51.9	47	48.2	48.3
55.1	62.9	60	56.3	54.9	61	65.2	53.4	49.8	50.2	45.9	46.8	47.5
54.2	65.1	58.2	54.1	54.1	60.8	61.5	51.8	48.2	48.3	44	44.7	45.3
55.5	65.1	57.1	52.6	53.5	59.9	58.1	48.8	45.6	45.8	41.2	42.1	42.2
55.8	61.5	57.4	52.5	51.8	57	55.7	46.7	42.6	42.6	38.5	39.4	38.9
55.5	57.9	56.7	51.3	50.8	54.4	53.1	46.2	40.4	40.4	37.5	38	36.8
53.4	54.8	56.1	52.6	50.5	53.8	61.8	48.9	41.2	44.7	43.1	39.7	35.9
52.4	53.4	56.5	53.6	50.5	51.3	60.4	49	41.5	45.7	43.7	39.7	36.2
50.4	52.5	57	53.5	51.2	50.3	57.4	47.6	40.5	44.2	42.4	39.5	35.4
50.5	51.4	57.2	52.8	51	52.7	60.2	45.9	40.9	43.1	41.2	39.6	36.4
52.2	51.2	57.2	53.2	50.8	52.6	67.9	45.8	40.5	43.2	41.5	40.3	37.2
52.1	50	56.6	52.7	51	49.6	66.8	45.6	41.1	43.2	41.3	40.4	37.4
51.6	50.9	58	51.7	50.6	49	69.3	46.5	41.5	43.4	42.7	40.4	37.5
55.2	57.8	59.8	51.9	50.6	53.7	68.8	47.6	41.9	43.4	42.6	40.2	37.3
56.9	61.1	59.2	52.5	50.9	55.5	65.4	47.7	42.7	42.6	42	41	37.5
56.5	60.5	58.4	51.9	50.9	54.7	61.5	47.3	42.2	42.2	42.2	40.7	37.1
55.8	58.8	59.2	52.2	51.4	51.7	59.5	46.1	40.6	41.5	40.9	39.6	36.5
55.5	56.2	63.1	50.8	51.3	51.2	57.2	45.1	41	40	39.9	39.3	37
53.7	59.7	63.9	55.1	52.9	53.9	66.9	49	44.6	48.5	45.7	44.3	44.1
54.3	62.3	63.6	57.3	57	61.4	66.5	51.7	48.7	54.3	49.7	50.3	48.6
54.2	62.7	63.9	58.2	57.1	62.5	67.3	51.7	50.9	57	53.7	48.6	48.3
55.1	61.2	62.5	57.5	56.9	60.4	71	50.8	52.2	58.6	54.5	48.7	48.7
55.1	58.8	59.9	54.9	53.9	57.8	69.3	50.3	50.7	57.3	54.1	48.3	46.9
53.1	56.7	60.4	56.9	53.1	56	65.4	50.8	47.5	55.7	51	45.6	43.9
52.8	56.1	59.5	55.9	54.2	54.9	61.2	48.9	44.4	52.3	48.3	42.8	40.8
58	55.4	57.5	54.3	54.8	52	57.4	47.4	43.9	50.4	46	41.2	39.4
59.6	53.1	57.2	52.5	56.3	50.3	56.2	46.1	43.1	49.2	44.5	40	37.8
58.3	52.6	59.1	66.8	56.6	48.9	55.8	45.1	43.7	48.1	43.5	38.7	37.1
57	51.7	67.6	71.3	55.4	49.9	52.7	45.2	43.7	46.7	44.4	39.1	36.8
55.8	52.4	66.2	70.5	53.6	50.6	50	44	42.9	45.7	43.6	39.4	36.3
55.1	52.6	63	68.8	52.1	50.9	48.4	44	41.4	44.5	41.9	38.9	35.3
54.6	51.9	59.9	68.4	52.5	53.5	51.4	44.2	39.9	43.6	39.9	38.1	35.2
56.7	52.1	58.9	64.6	54.7	55.3	53.6	44.9	41.2	42.8	39.3	39.3	39.1
56.1	55.5	64	66.3	61	61.5	53.6	47.2	44.3	43.6	40.7	39.5	40.2
55.1	56.8	67.7	66.2	63.9	62.6	52.1	47.5	47.3	44.1	40.7	40.3	40.1
53.6	56.3	68.3	62.4	62	62.9	51.5	47.3	48.2	46.8	41.2	40.4	40.1
55.6	63.6	67.5	60.4	60.2	61.5	50.6	48.1	48.2	46.3	41.4	40.6	40.1
59.1	63.6	64.2	57.7	61.5	59.8	49.2	46.9	46.6	46.1	41.4	40.3	39.9
59	61.2	61.1	57.7	59.4	59	49.4	46.5	44	44.3	40.3	39.1	38.8
58.3	58.5	59.2	56.4	55.9	56.1	49.4	46.5	43.1	43.8	39.5	38.4	38.3
56.7	57.2	59.2	54.8	53	53	48.6	45.4	41.5	42	38.8	38.4	37.9
57.4	58.1	59.6	58.1	52.5	50.7	48.7	45.6	41	40.7	38.6	38.1	37.4
57.3	58	59.9	57	56.4	50.8	48.6	45.5	41.9	41.3	40	38.6	37.1
55.9	57.7	59.3	55.7	55.9	56	48.5	45.3	43.7	41.8	43.6	39.9	39.9
57.5	57.5	59.2	55	54	56	48.3	45.7	43	41.3	43.4	40.2	39.8
58.9	56.7	59.6	54.9	53.4	53.1	47.6	45.1	42	40.8	41.3	38.9	37.9
60.3	55.9	58.3	53.6	52.6	51.6	48.1	44.6	41.3	39.9	38.8	37.5	36.4
60.8	54.6	58.3	53	52.6	49.3	47.6	44.6	40.1	39.3	38	36.5	35.3
59.8	53.7	58.7	52.5	52.3	47.4	46.7	44.3	39.3	38.8	36.8	36.7	34.7
58.9	52.7	57.6	52.3	51.7	47.3	47.2	44.3	38.8	38.4	36.8	36.3	34.4
57.2	51.6	57.2	53	52.9	46.9	48.2	45.8	39.7	39.3	40.9	37.3	35.7
59	54.6	59.6	54.3	54.4	46.6	48.3	45.8	39.6	39.2	40.6	36.9	35.6
58.5	54.2	60.1	53.9	55.5	47.9	48	45.8	39.2	38.2	38.5	36.8	35.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
57.6	53.4	60.2	53.6	57.6	48.5	48.1	46.6	39.5	39.5	39.4	37.5	36.9
57.5	52.9	59.8	54.1	56.9	49.9	49.7	47.7	41.9	41.9	40.2	39.9	41.2
57.3	52.7	59	55	54.7	52	52.1	47.8	43.4	44	42.9	43.8	44.2
55.2	52.4	59	55	53.7	51.6	51.5	48.9	45.2	48.1	48	45.5	45.5
54.5	52.9	57.8	55.8	55.6	55.3	52.1	50.4	46.1	49.4	50.4	47.2	46.7
56.8	54.3	58.8	55.1	60.1	55.7	52.3	50.4	46.8	49.4	50.3	47.4	46.5
60.4	54.1	60.2	54.6	58.9	54.4	51	49.8	47.3	49.4	50	47.6	46
62.5	54.4	59.7	54.2	57.7	53.1	50.4	49	46.5	49.3	49.3	45.9	44.6
60.2	54	58.9	53.5	55.7	52.1	49.4	48.1	45.2	48.7	49.4	44.2	43.9
59.7	54.9	58.5	52.7	54.5	51.9	50.3	51	47.9	47.9	49.2	43.1	42.9
60.7	58	61.9	57.2	58.7	57.2	50.2	51.2	47.4	47.2	49	42.7	42
60.5	57.5	60.8	57	56.6	54.5	51.1	49.4	45.1	46	46.9	42.2	41.4
59.3	57.8	59.6	56.4	55.3	52.3	50.3	48.9	44	44.1	45.3	40.8	40.6
56.8	56.3	57.3	54.7	54.2	51	48.7	48.3	42.7	43	44.3	39.3	39.6
58	55.6	56.5	55.2	53.2	50.2	49.2	47.7	42.1	41.9	42.3	38.3	38.1
59	55.3	55.7	55.9	53.2	48.4	49.1	46.7	40.2	40.9	40.7	38	36.2
58.8	54.7	55.5	55.2	51.6	47.7	48.2	46	39.6	39.7	39.3	37.5	36
55.9	55.1	57.1	54.4	52.9	48.9	48.2	46.8	39.6	39.7	38.8	38	38.1
56.1	61.9	56.8	53.1	54.4	52.7	48.1	46.4	45.1	41.4	40.6	43	39.4
60.6	62.3	55.5	52.5	53.7	53.5	47.7	46.2	47.1	42.9	42.2	44.2	40.6
59.6	59.9	57.1	52.4	53.1	52.5	53.1	46.4	48.3	44.4	42.6	44.4	41.3
59.2	61	61.2	52.1	54	52.1	54.2	46.5	48.8	45.1	42.6	44.3	42.6
57.7	60.8	63	52.6	53.4	51.8	53.5	47.6	49.7	45.6	43.3	44.4	43.7
57	58.8	62.7	56.8	52.8	52.1	52.1	47.6	49.6	46.6	43.8	44.9	43.9
56.5	59.6	61	56.8	51.3	51.5	53.6	46.7	49.4	47.3	44.4	45.3	43.9
58.2	59.5	59.9	54.5	51.4	51.6	53.5	46	49.8	46.3	43.9	44.4	43.3
56.8	62.6	58.7	51.6	53.8	52.6	52.7	46.3	50.3	45.2	43.1	45.2	42.6
55.9	65	57.3	56.4	53.6	51.8	53.5	47.4	50	45.1	45	46.2	44.3
55.8	65.7	56.5	55.5	53.7	54.9	60.2	48.2	51.7	47.9	46.3	47.8	48.9
59.1	65.6	56	53.7	53.2	58.8	60.6	50.7	53.2	49.5	47.9	48.9	49.7
60	64.1	60.6	53.4	55.9	59	58.4	51.2	52.9	50.2	48.3	50.1	49.7
59.2	62.3	60.6	55	57.4	57.8	56.5	51.6	53.5	50.8	48.4	49.8	49.3
59.5	64.4	59.8	55.6	57.4	55.5	55.3	51.6	53.4	50.7	46.8	48.6	47.6
59.5	63.9	58.6	55.2	56	52.9	55.9	50.7	52.2	49.6	45	47	45.8
60	65.9	58.7	55.8	54.5	52.9	55.4	50.5	50.6	47.7	43.9	45.1	44.5
58.7	65.2	60	54.5	54.4	54.2	53.5	50.2	49.2	46.3	41.6	42.6	44.3
56.9	64.2	59.8	54.7	53.4	54.2	51.9	49.7	47.5	44.7	40.6	42	43.8

40.2	38.6	40.7	38.8	37.1	35	33.5	32.3	29.6	28.4	26.2	24.2
40.4	38.8	40.7	38.9	37.2	34.9	33.6	32.4	29.7	28.4	26.2	24.3
38.9	37.4	38.9	37.8	36.1	33.6	32.7	31.3	28.9	27.8	26.4	27.2
36.7	35.9	36.7	35.7	33.8	31.8	31.7	30.7	28.8	29.2	27	27.4
36.1	35.6	37.2	35.3	33.9	31.5	30.8	30.2	28	27.9	25.9	25.7
39.3	37.1	37.5	39	35.8	33.2	32.9	32	29.8	28.9	26	24.7
41.1	39.5	39.9	41	38	37.4	36.7	36.2	33.7	31.9	28.4	26.2
41.5	40.3	41	42.3	39.6	38.2	38	37.4	34.8	32.8	29.4	27.2
43.2	42.6	43.8	42.6	42.5	39.9	38.9	38.3	37	35.7	32.1	29.5
47.9	49.1	49.7	47.6	47.7	44.5	43.9	43.8	42.1	39.9	35.9	33.7
52	54.7	53.5	52	50.1	47.9	47	46.2	44.3	42.2	38.7	36.9
54.3	56.9	54.5	52.3	50.5	48.3	47.2	46.1	44.4	42.5	38.8	37
53.7	56.6	54.4	52.2	50.2	48.1	46.8	45.1	44	41.8	37.7	35.9
52.8	54.3	54	51.5	49.1	46.6	44.9	43.1	41.4	39.7	35.6	33.5
51.4	51.4	51.9	50.6	48.1	45.3	42.6	41	38.9	36.9	33	30.7
50.3	49.2	49.9	49.6	46.5	43.6	41.2	39.5	37.2	35.1	31.2	28.8
49	47.8	47.5	47.2	44.5	41.3	39.5	37.2	35	32.9	29.8	27.1
48.5	47	45.4	45.4	43	40	38.1	35.9	33.8	31.9	29.2	26.3
46.1	45	43	42.5	40.1	37.2	35.3	33.3	31.2	29.6	27.3	24.9
43.3	42.6	40.3	39.5	37.6	34.6	32.9	31	29	28	25.8	23.9
40.2	39.7	38	36.8	35.4	32.2	31	29.3	27.3	27.1	25	23.5
37.8	37	36.5	35.3	33.5	31.6	31.5	29.2	26.6	27	24.6	23.4
36.5	37.4	37.8	35.1	34.6	31.9	31.2	29.4	26.9	26.9	24.4	23.4
36.5	36.6	37.5	35	34.7	32	31.3	29.4	27.1	27	24.5	23.4
37.3	36.1	36.6	34.4	33.8	31.7	30.8	29.3	27.1	26.8	24.4	23.4
37.8	37.2	36.5	35	34.4	32.1	31.1	29.5	27.2	27.2	24.7	23.6
38.1	36.7	36.8	35.7	35.8	33.3	31.5	30	28.3	28.2	26	24.8
37.5	37	37	36	36	33.6	31.8	30.4	28.7	28.6	26.5	25.1
36.9	37	37	35.9	35.7	33.4	31.5	30.3	28.5	28.2	26	24.9
36.9	37.3	37.2	36.5	35.7	33.3	31.9	30.2	28.1	27.9	25.8	24.5
37	37.2	37.4	36.8	36.6	33.6	32	30.4	28.4	28.1	25.8	24.3
36.6	36.8	37.2	36.3	35.8	33.1	31.6	30.3	28.3	28.1	25.8	24.4
35.8	36.4	36.5	35.7	36.1	32.3	31.1	29.6	28.2	28	26	25
37	38	40.1	37.3	37.2	34.5	32.7	30.7	29	28.2	26.7	25.2
42.7	45.2	49.5	44.3	42.2	39.9	36.6	34.2	31.3	30.5	27.7	25.8
45.9	47.7	51.5	45.1	44.2	41.1	37.4	34.9	32.3	31.5	28.6	26.6
47.6	48.7	51.5	45.4	44.6	41.9	38.7	36	33.4	32.2	29.4	26.7
47.5	48.5	49.8	45.1	44.3	41.5	38.3	35.6	33.4	32	29.3	26.7
46	45.7	46.7	42.4	41.5	39	36.4	34.1	32.1	30.6	28.1	25.8
43.7	42.6	43.4	39.8	39	36.5	34.5	32.6	30.5	29.5	27.1	25.1
40.8	39.7	40.7	38.2	37.5	34.8	33.2	32.8	35.4	32.3	30	28.3
40.2	39.4	40.2	38.1	37.3	34.3	33.5	32.9	35.5	32.5	30.4	28.5
38.8	38.2	39.2	37.6	36.1	33.8	32.8	31.9	32.7	30.5	28.5	26.5
37.8	38.2	38.1	37.2	35.4	33.3	32.3	31.9	31.2	30.7	29.7	29
37.4	37.9	38.4	37.1	36.9	34	32.8	32.4	30.8	31	29.7	29
36.5	37.3	37.9	36.8	37.8	34.1	33.2	32.8	29.8	30.3	29	27.7
35.5	35.9	36.9	36.4	37.2	33.3	32.4	32.9	29.3	29.7	28.7	26.2
35.4	35.8	36.7	36.8	36.5	33.7	32.5	32.8	29.6	29.3	27.5	25.2
37.9	38.2	39.6	38.4	38.4	36.3	35	35.6	33	31.6	29.2	26.5
39.7	40.2	41.2	39.3	39.7	37.4	36.7	36.6	34.9	33	30.3	27.5
40.2	40.3	41	39.7	39.7	37.1	36.6	36.2	34.6	32.7	30	27.1
41.3	41.1	40.9	39.9	39.8	37	35.8	35.8	33.9	32.4	30.8	30.6
41.4	41.8	41.1	39.7	39	37.7	35.9	36.8	34.5	32.7	31.3	32.3
41	41.5	40.9	39.4	38.7	37.3	35.5	36.4	34	32.2	30.6	29.8
39.6	40.1	39.8	38.2	36.8	35.2	33.6	34	32	30.4	28.3	27.2
39.2	39.5	39.7	38.3	36.5	34.7	33.4	33.2	31.5	29.9	27.3	25.6
38.1	38.5	39.3	39.2	36.7	34.4	33.1	32.9	31.3	30.1	27.6	25.7
38.1	38.2	38.6	39.1	36.4	33.9	32.7	32.8	32.5	33.1	31.7	30.2
38.1	38.5	38.3	38.3	36.6	34.6	34.4	33.8	33	33.5	32.1	31
38.8	39.3	39.5	39.6	38.4	37.3	36.7	35.8	34.8	34.8	34.3	33.7
39	39.4	39.6	39.5	38.4	37.4	36.7	35.9	34.5	34.1	33.4	32.6
37.7	37.8	38.5	37.6	36.5	35.5	35.1	33.8	32.4	31.9	31.3	30.5
36.4	36.8	37.2	36.2	34.7	33.8	32.9	31.9	30.7	30	29	27.9
35.8	36.1	36.7	35.5	33.4	32.4	31.5	30.3	29.1	28.4	26.9	25.6
34.5	35.9	36.5	35.6	32.9	32.4	31.8	31.4	28.4	28	25.7	24.5
34.7	36.5	36.5	36	33.1	32	31.4	30.8	27.9	27.6	25.4	24.2
37	38.8	38.9	38.9	39.5	36.3	39.1	34.8	30.5	29.1	26.7	23.8
36.7	38.6	38.5	38.4	38.7	35.5	38	33.8	29.8	28.6	26.2	23.5
35.2	36.6	37.1	36.2	35.7	33.1	35	31.2	28	27.3	24.9	23.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
37.1	38.3	39.5	37.9	37.6	34.6	33.1	30.4	27.6	27.3	24.4	23.4
39.7	42	42.6	41.3	41.6	38.9	35.5	32.5	29.2	28.1	25	23.8
42.6	44.9	47	44.4	44.3	42.5	38	35.3	31.1	29.3	26.1	24.8
47.7	47.8	49.9	47.7	47.3	45.1	40.2	38.1	33.9	32.8	27.9	26.9
48.6	49.6	50.8	48.8	47.5	45.3	41.3	39.1	34.8	34.7	28.7	27.6
48.4	49.3	50.8	49	47.1	44.5	41.2	38.9	34.8	34.7	28.8	27.5
48.4	47.8	49.8	48.8	46.9	44.3	40.9	37.6	34.1	33.4	28.4	26.8
46.8	46.4	48.3	48.2	46	43.6	39.9	36.2	32.8	31.8	27.7	25.9
45.3	44.1	47.7	47.7	45.4	43.6	38.5	34.8	31.5	30.4	26.7	24.9
43.9	42.4	45.9	46	44.6	42.3	36.7	33	31.2	29.9	25.7	24.3
42.8	41.4	44.7	44.8	43.6	41.5	36.3	33	31.2	29.9	25.7	24.3
41.8	40.7	43	42.7	42	39.9	34.9	31.7	30	28.7	25.2	24
41.4	40	41.8	41	40.2	38.1	33.5	30.4	28.8	27.7	24.8	24.5
40.8	39	40.9	39.7	38.2	36	32.7	30.2	28.7	28.1	25	24.5
39.5	38.4	39.6	38.3	36.8	34.7	32.1	30.1	28.4	27.6	25	24.2
37.9	36.9	38.2	37.1	35	33.2	31.4	30	28.5	27.5	28.1	25.7
37.3	37.3	38.6	37	34.6	33.7	31.7	30.6	29.3	27.8	28.1	25.4
39	38.7	39.7	37.8	35.9	35.3	33.3	32.6	30.9	28.6	27.8	24.5
40.3	40.7	41.8	40	39.3	37.6	36.8	34.9	32.5	30.1	28.1	25.1
41.7	41.4	42.9	41.4	40	38.2	37.3	35.4	33.4	31	28.8	25.7
42.6	41.9	43.2	41.8	40.9	38.6	37.3	35.7	33.6	31	28.8	25.7
43.2	42.4	43.4	41.7	41.2	39.1	36.7	35.7	33.7	30.8	28.1	25.5
43.4	42.9	43.7	41.9	41.3	39.6	37.1	36.2	34.2	31.5	28.2	25.8
43.9	43.4	44.1	42	41.3	39.5	37	36.3	34.1	31.5	28.1	25.7
43.9	43.6	44.2	42.4	41.4	39.5	36.7	36.2	33.6	30.9	27.8	25.4
43.7	43.6	44.1	42.4	41.7	39.2	36.3	35.2	32.9	30.5	27.4	25.8
43.2	43.1	43.6	41.9	42.2	39.4	36.2	34.6	32.3	30.4	27.4	25.4
43.4	44	44.1	42.6	42.1	39.9	36.8	36.1	33.6	31.7	28.8	26.7
51.4	48.2	48	44.8	43.8	41.9	39.3	39	36.5	34.2	30.9	28.8
51.1	48.8	48.9	45.8	45.1	43.2	41	41	38.6	36.1	32.9	30.8
50.8	49.2	49.9	46.9	45.3	43.6	41.3	41	39.7	37.2	33.5	31.6
49.7	49.1	49.9	47.3	44.8	43.4	41.1	40.9	39.7	37.3	33.4	31.6
47.4	47.4	49.3	46.8	44	42.7	40.1	39.8	39.4	37.1	35.2	34.3
45.7	45.8	48.5	46.9	44.4	44.4	42.1	41.2	40.7	40.9	38.2	35.4
46.2	44.8	47.1	45.7	44.5	44.2	41.9	40.9	40.2	40	37.4	34.3
46.9	43.9	44.8	43.1	43.3	43.1	40.1	39.2	38.6	37.3	34.7	31.6
46.3	43.1	42.8	41.3	41.5	42.1	39	38.3	38	35.7	33	30.1

23.8	23.9	24	24.6	48.6	49	46.2	46.1	46.4	52.1	59.7	52.4	59.1
25.3	25.6	24.1	24.7	47.2	50.2	44.7	47	47.9	51.9	59.8	53.2	56.6
27.7	26.7	24.5	24.8	45.7	47.8	44.4	47.7	47.3	50.3	60.3	53.3	57.4
27.5	26.2	24.4	24.7	44.1	45.6	47.7	48	47	48	61.7	53.2	57.9
25.8	24.8	24	24.6	43.2	44.9	46	46.7	47.1	48	61.9	58.4	55.7
24.3	23.9	23.8	24.6	44.4	47.6	46	46.8	46.4	49.3	62.9	56.5	55.2
24.6	23.8	23.8	24.6	44.6	47.6	46.4	46.5	46.4	53.7	64.1	56.6	55.5
25.4	24.1	23.9	24.6	42.2	46.1	44.8	47.6	48.2	50.8	63.3	56	53.4
27.3	25.1	24.2	24.6	42.2	45.3	44.7	45.9	46.9	50	63.1	55.6	52.9
31.3	28.1	25.7	24.7	41.5	45.9	45.1	43.8	48	48.6	62.7	55.8	51.6
33.9	30.8	27.7	25.4	40.5	45.3	47.4	43.5	46.4	49.4	62.7	55.4	50.5
33.9	30.9	27.8	25.4	42.2	45.1	46.3	43.9	48	50	62.7	56	51.5
32.9	30	27.2	25.3	41.6	43.9	44.9	47.3	47.4	50.1	63.2	62	54.8
30.7	28	25.9	25	42.1	43.7	46.1	48.3	48.9	54.8	64.3	61.8	59.5
28.2	26	24.8	24.8	45	48.3	50.1	52	53.2	54.9	63.2	60.6	58
26.8	25	24.3	24.7	45.2	48.5	50.6	51.9	53.2	54.6	62.8	57.3	57.7
25.5	24.2	24	24.7	44.4	48.1	47.8	51.2	51.1	54.1	62.4	54.8	59.4
24.9	24	23.9	24.7	48	48	46.5	51.8	49.5	51.7	62.1	54.3	61.3
24	23.4	23.7	24.6	47	47.1	47.1	48.8	48.2	49.6	63.1	53.2	61.5
23.4	23.2	23.6	24.6	48	47.1	47.2	47.8	47.6	48.3	63	53	61.5
23.1	23.2	23.7	24.6	47.5	50.7	47	46.4	46.6	47	62.9	55.1	57.9
23	23.2	23.7	24.6	47.1	48.9	46.4	46.7	46.4	46.4	62.8	53.5	54.8
23.1	23.2	23.8	24.6	48.6	45.6	47.5	48.9	47.6	48	62.4	51.2	52.6
23.1	23.2	23.8	24.6	45.5	45.4	47.6	47.5	47.4	48.8	62.4	49.8	52.5
23.1	23.3	23.8	24.6	43.4	45.7	47.3	46.4	47.7	48.8	62	49.5	51.1
23.1	23.2	23.8	24.6	43.4	49.3	46.6	49.9	48.5	47.2	62	49.8	50.6
23.7	23.5	23.8	24.6	47.5	51.4	48.8	50.3	46.7	47.1	61.3	49.8	49.9
24.2	23.9	23.9	24.6	50.6	51.5	49.6	48.2	45.9	48.6	61.2	51.4	48.7
23.8	23.8	23.8	24.7	51.5	53.2	46.9	47.8	46.5	49.7	62.6	49.9	48.7
23.7	23.4	23.8	24.5	53.9	51.4	46.3	47.8	48.9	49.5	62.2	50	50.6
23.6	23.4	23.8	24.7	50.8	48.2	49.1	47.9	47.9	48.9	62.4	53.9	57.9
23.6	23.4	23.8	24.7	47.9	47	47.6	48.7	47.8	48.7	62.8	55	58.8
24.1	23.4	23.8	24.6	47.9	47.1	47.4	50.3	50.4	49.4	63.4	55	56.2
24.3	23.5	23.9	24.6	50.1	49.3	51.1	52.4	52.5	48	62.7	53.2	55
24.7	23.8	24	24.7	50.1	53.6	49.6	52.9	51.2	47.7	63.1	52.5	55.2
24.9	24	24	24.7	59.3	58.6	48.1	51.6	49.5	48.7	62.9	53.5	58.5
24.7	23.9	24	24.7	58.4	55.9	48.2	51	48	48.5	62.8	52.9	60.9
24.7	23.8	24	24.7	57.7	53.2	51.2	50.1	48	50.9	62.7	52.9	58.8
24.3	23.6	24	24.7	54.2	49.6	51.4	50.8	46.4	49.6	62.3	53.1	56.7
23.9	23.5	23.9	24.6	52.6	49.6	51.3	49.2	46.8	48.2	62.1	52.5	56.1
26.8	25.3	24.4	24.7	57.4	52.9	50.2	49.5	48.1	46.9	62.6	51.1	54.3
26.9	25.6	24.5	24.7	54.7	51.3	50.2	49.6	50	47.4	62.9	52.6	53.2
25.3	24.5	24	24.7	50.7	49.7	50	50.9	50.1	47.8	63.1	57.6	51.6
27.6	24.7	24.2	24.8	50.4	49.7	48.8	50.3	49.8	48.1	63.9	56.7	50.8
27.4	25.1	24.2	24.8	50.9	53.4	47.3	49.9	48.5	47.7	64.2	55.9	50.4
26.2	24.5	24.1	24.8	53.6	53.1	49.1	50.1	49.1	52.1	63.9	53.8	51.2
24.8	23.8	23.9	24.8	52.7	50.9	53.2	52.6	50.8	51.5	63.6	53.6	51.8
24.1	23.6	23.8	24.7	51.8	53.3	55.1	54.7	49.8	51.1	63.4	53.3	51.2
24.2	23.5	23.8	24.6	56	55.6	54.3	54.7	49.8	51.6	63.3	54.2	51
24.6	23.5	23.8	24.6	57.3	53.3	54.5	57.8	51.8	51	62.4	55.1	51.9
24.5	23.5	23.7	24.6	55.6	53.3	54.6	54.7	51.4	50.1	62.2	53.3	54.1
25.6	23.8	24	24.5	57.2	59.9	53.4	52.5	50	49.6	62.5	51.9	54.4
27.5	24.1	24.1	24.6	59.3	57.3	52.9	49.3	48.3	50.4	62.6	53.7	54.2
25.7	23.7	23.9	24.6	57.1	55.4	49.5	48.1	48.6	50.1	62.4	54.6	61.2
24.3	23.4	23.8	24.7	54	52.2	48.7	49.8	49.2	49.2	62.4	57.9	58.5
23.8	23.4	23.8	24.6	50.3	49.7	48.7	48.6	48.9	51.1	63	56.5	56.9
23.7	23.4	23.8	24.6	50.3	48.2	49.2	48.4	50.8	48	63	54.4	55.6
27.3	25.2	24.4	24.8	48.4	48.5	47.2	47.5	50.4	47.3	63.1	56.2	55.6
29.2	27.3	25	24.9	46.4	48.9	47.7	50.4	49.9	47.6	63.1	55.7	56.9
33	30.9	26.7	25.5	43.9	47.7	50	51	49.7	46.1	62.4	55.2	56.7
31.9	29.8	26.2	25.3	44.8	48.1	50.4	50.4	48.6	46.9	62.4	55.3	56.5
29.5	27.6	25.2	25	49.9	55.9	52.2	50.7	47.1	45.9	62.6	57.5	55.8
26.9	25.7	24.4	24.8	51.5	55	50.4	53.4	46.7	47.7	62.4	58.3	54.6
24.9	24.3	24.1	24.7	54.2	54.9	47.2	51.2	46.3	49.1	64.1	59.8	53.5
23.8	23.6	23.8	24.7	55.1	51.6	47.1	51.2	47	49.7	63.2	58.8	52.2
23.4	23.4	23.8	24.7	53	51	48.6	51.3	47.4	49.6	63.2	57.3	51
23.4	23.3	23.8	24.7	49.9	50	47.6	50.7	48.6	51.1	64	55.8	49.6
23.1	23.2	23.8	24.7	46.1	47.6	47.2	49.3	48.7	50.3	63.8	55.7	51.4
22.9	23.1	23.7	24.6	44.2	47.4	46.8	48.1	48.4	50.4	64.2	56.8	51.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
22.8	23.1	23.6	24.6	44.6	50	48	50.2	55.5	52.4	63.9	55.7	51.9
23.1	23.2	23.8	24.6	44.4	47.7	52.1	54.4	52.8	50.3	63.7	55.6	52.1
23.9	24.2	24.3	24.8	45.5	47.9	49.5	50.8	49.8	49.4	62.9	54.5	51.8
25.6	24.8	24.4	24.8	45.9	49.6	47.6	48.9	49.2	48.8	62.6	53.9	51.1
25.5	24.6	24.4	24.8	45.8	48.4	47.5	47.3	48.6	48.6	61.3	53.1	51.5
25.3	24.4	24.2	24.8	46.9	48.1	46.4	45.5	48.2	48.2	61	52.8	52.1
25	24.1	24.1	24.7	48.5	48.3	46	47.5	49.8	50.8	61.1	56.9	52.7
24.3	23.7	23.9	24.7	46.2	48.3	43.6	47.8	49.1	50.4	62.3	60.2	53.1
23.8	23.4	23.8	24.6	47.5	47.6	42.7	48.9	48.5	50.1	63.6	58.5	52.6
23.7	23.8	24	24.7	47	47.2	44	46.5	49.8	50.5	63.3	58.1	53.1
23.7	23.8	24	24.7	44.9	47.2	45.8	46.3	49.5	48.6	61.9	57.5	54.1
23.5	23.9	24.1	24.7	43.9	46.1	47.3	46	49.1	49.1	62.8	58.3	56.1
23.8	24	24.4	24.8	43.9	47.4	48.5	46.3	56.5	48.8	63	56.8	55.8
24.2	25.2	24.7	25.4	44.6	49.6	51.3	54	55.3	50.2	65.2	54.7	55.4
23.9	24.9	24.5	25.2	44.6	51.1	49.9	50.7	52.2	51.4	64.6	55.2	54.5
27.4	27.6	28.6	26.3	51.6	51.2	47.3	49.2	51.7	49.4	63.3	57.5	54.4
26.9	27.1	28	26.1	50.6	49.2	45.9	47.8	49.3	49.9	64.1	55.9	53.9
25	25.1	25.9	25.2	47.9	46.4	45.6	46.8	46.1	47.2	65.1	52.4	53.7
24	23.9	24.7	24.8	44	46	47.5	48.3	45.3	48	65.3	52.5	54.9
24.5	23.9	24.2	24.7	42.4	45.6	46.5	48.7	48.5	54.6	62.6	56.3	59.9
24.5	24	24	24.7	42.3	44.7	45.1	48.7	48.2	56.2	62	58.1	58.3
24.1	23.5	23.8	24.7	41.5	45.3	46.5	47.4	48.6	53.9	63.2	57.3	58.3
24.2	23.4	23.8	24.7	52.2	51.1	44.4	48.4	46.4	54	61.9	57.1	58.8
24	23.3	23.7	24.7	50.5	50.4	44.2	48.4	48.7	56.4	61.6	54.7	56.9
24	23.3	23.8	24.6	46.7	48.6	45.7	50.1	52	55.6	61.7	54.6	57
24.9	27.3	25.6	25	45.8	47.1	47.4	49.5	50.8	55.9	60.8	55.3	58.2
24.6	26.6	25.2	24.9	45.4	47.6	48.9	50.4	51.6	54.1	62.1	55.8	58.3
24.9	25.1	24.4	24.7	45	49.1	52.2	50.7	51.1	53.1	62.5	54.3	62.5
26.9	25.3	24.3	24.7	47	54	52.6	53.3	51.1	52.7	62	54.3	64.1
29	26.6	24.8	24.8	56.1	53.8	50.9	52.9	50.8	50.9	63.2	55.9	64.1
29.5	27.2	25.2	25	56.1	53.5	53	52.7	49.4	51.3	62.1	59	61.6
29.5	27.1	25.1	24.9	59.7	52.6	53.1	51.4	49.5	54	61.2	57.1	60.8
29.9	28	25	24.9	58	50.5	52.4	50.8	51.1	54.4	60.5	56	62.3
30.4	27.6	25	24.9	55.2	51	50	51	51.2	53.9	62.2	57.2	62.4
29.6	26.7	24.7	24.7	54.7	51.2	49.6	51.5	52.6	52.5	62.1	56.5	64
27.6	25.6	24.3	24.6	54.5	54.1	48.8	52.9	50.4	50.6	62.9	57	64.2
26.7	25.2	24.1	24.6	54.5	53.9	48.7	51.1	51.6	49.1	63.5	55.6	62.7

56.3	49.7	53.9	49.8	47.6	41.8	48.5	37.7	37.4	45.2	38.6	39.4	38
55.9	48.3	52	50.1	48.4	42.6	46.8	38.1	37.4	43.3	38.6	39	37.5
56.3	48.7	51.3	52	49.2	43.7	43.8	38	36.4	40.5	36.2	36.7	35.9
57	49.4	50.9	52.6	48.7	43.9	41.1	37.5	36.1	38.6	35.1	35.6	34.9
56.9	50.2	50	53.2	51.4	43.9	40.1	37	35.1	37.5	36.5	35.7	35
55.5	49.9	49.8	54.1	49.8	45.1	39	37.4	35.3	37.5	36.8	36	35.1
54.9	49.3	50.3	51.3	49.8	45.8	39.5	39.6	37.3	38.7	38.2	39.3	37.2
55.6	52.2	51.1	50	50.4	45.3	41.6	40.4	38.1	40.6	40.7	41.1	39.4
55.1	52.3	52.8	49.6	54.8	45.1	43.8	41.8	39.3	41.6	41.9	41.2	40.3
56.2	53.3	54	48.8	54.2	45.7	47.6	45.1	42.2	44.6	43.9	43.3	42.8
56.3	55.6	53.6	51.9	54.4	47.9	51.3	49.5	45.3	49.5	50.7	47.9	49.2
56.8	60.1	59.2	56.1	55.9	51.5	53.1	51.6	48.1	54.4	54.6	52.1	54.9
68.1	62.5	63.6	59.3	58.4	53.4	53.6	53.3	50	53.7	54.5	52.8	54.4
67	62.7	61.1	58.4	57.3	52.6	52.6	54.9	49.1	51.1	52	51.5	51.5
63.6	61.7	58.3	59.2	59.2	52.4	52.3	53.9	48.7	49.5	50	50.3	49.2
62.8	58.6	56.1	58.7	59.4	53.7	50.9	51.9	47.1	48.2	48.3	49	47.7
60	56.3	55	56.5	63.9	53.2	49.7	50.2	46	46.8	47.5	48.5	47
58.1	54.1	53.4	59.1	61.5	51.8	48.3	48.4	44	44.7	45.3	46.1	45.1
56.7	52.1	53.2	59	58.1	48.8	45.6	45.8	41.2	42.1	42.3	43.4	42.7
56.6	51.3	51.8	57.1	55.8	46.8	42.6	42.6	38.5	39.4	38.9	40.2	39.7
56.7	51	50.8	54.5	53.1	45.9	40.4	40.4	36.8	38	36.9	37.8	37
56.1	50.4	50.1	53	51.3	45.1	39.3	39	36.7	37.2	34.8	35.6	35.8
55.2	51.3	49.8	51.3	51.4	45	39.1	39.6	37.3	36.8	34.5	35.4	35.6
55.7	51.7	49.8	48.9	57.4	47.4	40.2	44.2	42.4	38.7	35.4	35.3	35.5
55.9	51.9	49.9	48.6	54.6	45.9	39.8	42.2	40.3	38.4	34.8	35.2	35.2
56.1	51.4	50.2	50.3	54.1	44.7	40.1	42.2	40.5	38.8	35.4	37.1	36.1
56.4	52.2	49.3	49.6	60.4	44.5	39.4	42.4	40.5	38.7	36.4	37.5	36.4
55.7	51.5	49.4	48.7	64.8	44.5	39.3	42.4	40.3	39.7	36.9	36.8	36.3
55.8	50.6	49.4	48.4	64.7	44.3	40.9	42.9	41.3	39.7	37.1	36.2	36.3
58.2	50	49.7	48.9	65.4	46.4	41.1	42.6	41.7	39.5	36.8	36.3	36.8
57.5	49.7	49.5	53.8	61.5	46.9	41.9	42.1	41.6	39.8	37.1	36.5	36.7
57.2	50.9	49.5	51.7	59.5	46.1	40.7	41.4	40.9	39.6	36.3	35.8	36.4
57.1	50.8	49.6	49.5	57.2	45.1	39	40	38.8	38.1	35.6	34.9	35.8
58.9	49.3	50.4	48.8	55	44.2	38.4	38.7	37.7	37.5	35.4	34.7	35.6
62.1	50.6	50.5	51.4	55	44.4	41	39.7	40	39.6	37	37.1	38
61.7	54.9	53	52.5	65.3	48.8	44.4	48.9	45.6	44.6	44.2	42.9	45.2
62.5	56.4	54.6	60.4	64.4	50.3	48.8	54.3	49.5	47.3	47.4	45.3	47.4
59.9	54.9	53.9	57.9	67.3	49.6	50.1	57.2	53.6	47.1	46.9	46.1	45.7
58.5	53.1	51.2	55.9	65.4	49.1	47.6	55.7	51	45.7	43.9	43.7	42.6
58.3	52.7	51.2	54.9	61.3	48.9	44.5	52.3	48.4	42.9	40.9	40.8	39.7
57.5	54.4	52.9	52	57.4	47.2	42.1	50.3	46	40.6	38.8	38.4	37.9
56.8	51.8	53	50.2	54.6	45.8	42.1	49.2	44.2	40	37.8	38.4	37.9
56.5	50.8	54.4	48.5	54.4	44.9	42.1	47.1	42.6	38.7	36.8	37.8	37.8
56.2	50.5	55.4	48.2	52.7	44.3	42.4	46.8	42.4	38.1	36.6	37.4	37.8
59.5	67	53.6	48.1	50	43.8	42.9	45.7	43.5	38	36.3	36.5	37.3
63	67.9	52.1	49.1	48.1	43.6	41.4	44.3	41.9	38.6	35.1	35.3	35.9
60	67.9	50.7	49.2	46.8	43.6	39.9	43.5	39.8	37.5	34.3	34.6	35.2
57.5	64.6	50.1	49.2	47.6	43.4	38.9	41.4	38.9	37.1	34.2	34.2	35
58.2	63.3	51.8	53.5	51.1	43.6	39.3	41.1	38.5	37.2	35.2	35.3	35.7
57.6	63.7	54.9	54.6	51.8	44.7	41.2	42.8	39.1	39	38.9	37.8	38.1
64.1	62.4	61.1	60.7	50.8	46.7	44.3	43.5	39.7	39.1	39.5	39.6	39.8
67.5	60	58.7	61	50.5	45.9	46.7	43.6	39.7	40	39.7	40.1	40.2
64.2	57.7	57.1	59.8	49.2	46.4	46.5	45.4	40.6	40	39.6	40.9	41
61.1	55.2	59.5	58.9	47.8	45.1	43.9	44.3	40	39.2	38.9	39.5	40
59.2	55.3	55.9	56.2	47.9	45.1	43.1	43.8	39.4	38.4	37.8	39.2	39.4
58.5	54.6	53	53.1	48.5	45.4	41.4	42.1	38.7	38	37.6	38	38.4
58	52.9	51.6	50.4	47.6	44.8	40.7	40.6	38.1	37.9	37.4	37.8	37.5
58.2	53.1	51.5	49.4	47.8	45	40.2	39.7	37.9	37.7	36.5	37.4	37.1
58.9	55.8	52.5	49.2	47.7	44.9	40.3	39.6	38.5	38	36.7	37.6	38.1
57	53.7	54	51	47.2	44.7	41.6	41	40	38.5	36.6	37.8	38.3
58.3	52.6	52.3	53.1	47.4	44.7	41.6	40.7	41.2	38.9	37.9	37.8	37.7
58.3	53.5	51.9	51.7	46.8	44.4	41.3	39.9	38.8	37.3	36.3	36.4	36.8
57.5	52.4	51.3	49.2	47.5	44	39.8	39	38.1	36.5	35	35.7	36
57.1	51.6	51.7	47.1	46.7	43.9	39.3	38.2	36.5	36.2	34.8	34.5	35.6
57.1	51.5	51	46.7	45.8	43.4	38.3	38.3	36.4	36.3	34.2	34.1	35.4
56.6	51.5	50.5	46.3	46.4	43.4	38	36.8	36.3	35.8	34	34.1	35.7
56.4	51.8	51.8	46	45.7	43.8	37.4	37.2	36.3	35.9	34.2	34.3	36.3
56.6	51.3	52.8	44.4	47.1	45.2	38.4	38	38.5	35.8	34.8	35.1	36.6
57.8	52.8	52.7	44.4	46.8	44.8	38.3	37.7	37.8	35.8	34.6	34.8	35.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
59.5	52.7	55.1	47.9	47.4	45.8	38.7	37.8	37.8	36.7	35.3	35.3	35.9
57.9	52.6	54.6	48.5	47.4	45.8	39.3	39.4	39.3	37.3	36.8	37.1	38.4
57.9	53.6	53.2	49.8	49.6	47.2	41.5	41.8	40.2	39.9	41.2	39.8	42
56.9	54.2	53.1	50.6	50.6	47.5	43.2	43.9	42.8	43.8	44.1	42.6	45
56.8	54.1	53.1	51.4	51	48.7	44.8	48.1	48	45.4	45.4	47.8	47.7
57	54.5	55.2	54.4	51.1	49.7	45.7	48.6	49.8	47.1	45.9	47.7	47.8
57.8	53.7	57.7	52.9	50	48.5	46.2	48.9	49.2	45.9	44.6	46.7	46.3
58.8	53.1	55.7	52.1	49.4	48	44.9	48.4	48.5	43.9	43.7	45.3	44.1
58.2	52	54.3	51	48.3	46.9	44.5	47.8	48.8	43	42.6	43.9	42.4
57.6	52	53.5	49.9	48	46.1	44.1	47.1	48.1	41.8	42	42.8	41.3
57.5	52.1	53.6	52.7	48.3	48.7	45.1	45.5	46.8	41	40.8	41.7	40.5
59.1	54.7	55.3	52.4	48.2	48.4	44	44	45.2	40.8	40.5	41.2	40
57.4	54.7	54.2	51	48.7	48.2	42.6	42.9	44.3	39.2	39.6	40.8	39
55.6	52.6	52.2	49.9	47.7	47.5	41.8	41.9	42.3	38.2	38.1	39.4	38.4
55.8	53	51.9	48.3	47.8	46.6	40.2	40.8	40.8	37.6	36.1	37.9	36.9
54.7	54.5	50.6	47.6	48	45.5	39.4	39.6	39.1	37.4	35.3	36.4	36.2
54.7	53.9	50.1	46.8	47.1	45.2	39	39	38.6	37.2	35.1	36.3	36.4
55.5	52.9	51	47.7	47.6	45.3	38.8	38	37.9	37.3	35.9	37	37.2
55.1	51.9	52.7	47.6	47.4	45	38.9	39.5	38.6	37.9	38.1	39	38.7
54.4	51.8	52.5	52.4	46.9	45.2	45.2	41.3	40.5	43	39.4	40.3	40.5
55.3	51.4	52.5	51.7	46.7	45.3	46.8	42.6	41.9	44	40.4	41.5	41.2
57	51.3	52.7	50.6	53.2	45.6	47.9	44.1	42	43.8	41.4	42.5	41.8
61.1	51.3	52.3	50.5	51.6	46.1	48.8	45	42.4	44.1	42.2	43	42.4
60.9	51.5	51.1	51.1	50.6	46.7	48.9	45.7	42.9	44.1	43.4	43.2	42.6
59.5	54.6	50.3	50.4	50.7	45.8	48.8	46.3	43.7	44.4	43.3	43.5	43.2
58.7	51.6	50.4	51	52.7	45.4	49.2	45.3	42.6	44.1	42.4	43.2	43.1
56.7	50.4	51.5	51.1	51.5	44.8	49.6	44.7	42.5	44.1	41.8	42	42.7
56.3	50.8	52.6	50.6	51.8	46	49.2	44.5	43.2	45	42.4	42	42.7
54.6	53.3	53	51	50.9	47.3	50	45.2	44.9	46	44.2	43.3	44
54	52.7	52.3	53.7	58.5	47.8	51.4	48	46.2	47.6	48.9	49.8	48.2
55.4	52.2	51.8	57.8	56.4	50.4	51.6	49.3	47.2	48.8	49.3	49.7	48.9
59.6	52.7	55.6	55.5	54.8	50.8	51.7	49.7	46.9	48.6	47.7	47.5	47.4
58.6	55	56	52.9	53.6	50.7	52.2	49.6	45	47	45.8	45.3	45.7
57.5	53.9	53.9	51.6	53.7	50.1	50.5	47.7	43.9	45.1	44.5	44.7	44.8
57.9	54.5	53.5	51.9	53.5	49.9	49.2	46.4	41.6	42.6	43	45.5	43.3
57.6	53.2	53.5	51.8	51.7	49.4	47.5	44.7	40.6	42	43.1	45.9	43.2
57.4	53.4	52.3	52.9	51.2	48	45.7	42.6	39.4	40.8	41	43.3	40.9

40.4	38	36.4	34.7	33.2	31.9	28.9	27.6	25.3	23.3	22.9	23
38.9	37.8	36.1	33.6	32.7	31.3	28.9	27.7	25.9	24	23.6	23.6
36.7	35.7	33.8	31.7	31.1	29.8	27.8	27.5	25.9	24.3	25.3	25.6
36.2	34.7	33.1	31.2	30.6	29.7	27.7	27.6	26	25.7	25.8	24.8
36.3	34.7	33.1	30.7	30.6	29.3	27.5	27.3	25.1	24.6	24.4	23.9
37	35.5	34	31.5	30.9	30.2	28	27.4	25.2	24.4	23.8	23.6
37.4	38.7	35.8	33.2	32.9	31.9	29.8	28.9	26	24.7	23.8	23.6
39.9	41.1	38	37.4	36.8	36.2	33.7	31.9	28.4	26.2	24.6	23.8
40.9	41.6	39.6	38.2	37.9	37	34.4	32.8	29.5	27.2	25.5	24.1
43.9	42.6	42.5	39.9	38.8	38.3	37.1	35.7	32.1	29.5	27.3	25.1
49.6	47.8	47.7	44.6	44.1	43.8	42.2	39.9	36	33.7	31.3	28.2
53.4	51.9	50	47.9	46.9	45.1	44	41.8	37.7	35.9	32.8	29.9
54	51.5	49.1	46.6	44.9	43.1	41.5	39.7	35.7	33.6	30.8	28
51.9	50.5	48.1	45.3	42.6	40.9	38.9	36.9	33	30.7	28.2	26
49.9	49.6	46.6	43.7	41.2	39.5	37.3	35.1	31.3	28.8	26.8	25
47.5	47.2	44.6	41.2	39.4	37.2	34.8	32.6	29.4	26.9	25.3	24.1
45.4	45.4	43	40.1	38.1	35.9	33.8	31.9	29.2	26.4	25	24
43	42.5	40.1	37.2	35.3	33.3	31.2	29.7	27.3	25	24	23.4
40.3	39.5	37.6	34.7	32.9	31	29.1	28	25.8	23.9	23.4	23.1
38	36.8	35.4	32.2	31	29.3	27.3	27	24.9	23.5	23.1	23.1
36.5	35.3	33.5	30.6	30.1	28.3	26.6	26.8	24.6	23.3	23	23.1
35.9	34.5	32.7	30.1	29.7	27.9	26.3	26.7	24.2	23.3	22.9	23
35.9	34.6	32.9	31.2	30.9	29	26.5	26.6	24.3	23.2	23	23.1
36.2	34.3	33.7	31.5	30.8	29.1	26.8	26.6	24.3	23.3	23	23.1
36.1	34	33.5	31.4	30.7	29	27	26.5	24.3	23.2	22.9	23.2
36.1	34.2	33.6	31.7	30.7	29.2	27	26.6	24.4	23.2	22.9	23.1
36.1	34.8	34.2	31.9	30.8	29.4	27.2	27.3	24.7	23.5	23.1	23.2
36.6	35.6	35.6	33.3	31.4	30	28.3	28.2	26	24.7	23.7	23.6
36.7	35.4	35.1	32.7	31.3	29.8	28	27.7	25.6	24.4	23.5	23.4
36.5	35.6	34.9	32.7	31.4	29.8	27.9	27.7	25.6	24.2	23.5	23.3
36.9	36.3	35.8	33	31.6	30.2	28.1	27.8	25.7	24.2	23.5	23.3
36.4	35.7	34.4	32.3	31.1	29.6	28	27.8	25.6	24.2	23.5	23.3
35.8	35	33.9	31.6	30.4	29.2	28	27.8	25.6	24.4	23.5	23.3
35.8	34.7	35.4	31.5	30.4	29.2	28.1	27.8	26	24.8	24	23.3
40.2	37.3	37.2	34.5	32.7	30.7	29	28.2	26.6	25.2	24.3	23.4
49.5	44.2	42.2	39.9	36.7	34.2	31.4	30.6	27.7	25.8	24.6	23.8
49.8	44.2	44	40.5	37.1	34.7	32.1	31.1	28.5	26.4	24.6	23.8
46.8	42.4	41.5	39	36.4	34.1	32.1	30.6	28.1	25.8	24.2	23.5
43.5	39.8	39	36.5	34.5	32.7	30.6	29.5	27.1	25.1	23.9	23.5
40.7	38.2	37.2	34.8	33	31.9	29.4	29	26.5	24.8	23.6	23.3
39.2	37.4	36.7	33.9	32.6	31.6	29.1	28.8	26.4	24.8	23.7	23.4
39.2	37.6	36.1	33.7	32.8	31.9	32.7	30.5	28.5	26.5	25.3	24.5
38	37.1	35.4	33.3	31.9	30.8	30.6	29.4	27.1	25.5	24.3	23.8
37.4	36.4	35	32.9	31.7	30.7	30.3	29.5	27.1	25.5	24.2	23.7
37.6	36.7	35.1	33	32.1	31.3	29.7	30.1	29	27.7	26.2	24.5
36.8	36	36.9	33.3	32.4	32.4	29.3	29.7	27.7	25.9	24.8	23.8
36.3	36	36.3	32.9	31.8	32.3	29	29.3	27.6	25.3	24.1	23.6
36	36.3	36.3	33	31.8	32.3	28.9	28.8	26.8	24.8	23.8	23.4
36.7	36.7	36.3	33.6	32.5	32.8	29.6	29.1	26.9	24.9	23.9	23.4
39.6	38.4	38.5	36.3	35.1	35.6	33.1	31.7	29.2	26.5	24.3	23.4
40.2	38.8	39.2	36.4	35.6	35.2	33.5	31.7	29.1	26.3	24.2	23.4
40.6	39.4	38.8	36.6	35.2	35.3	33.4	32	29.4	26.5	24.5	23.4
40.8	39.2	38.7	36.7	34.9	35.8	33.9	32.2	30.6	29.8	25.6	23.7
39.6	38.1	36.8	35.2	33.7	34.1	32	30.4	28.4	27.2	24.3	23.4
39.3	37.7	36.3	34.6	33.2	33.2	31.3	29.5	27.1	25.7	23.8	23.2
39.2	37.7	36.3	34.3	33	32.7	31.1	29.5	27.1	25	23.5	23.3
38.6	38	36.3	33.9	32.7	32.3	30.8	29.6	27.2	25	23.5	23.2
38	37.8	35.8	33.4	32.2	31.9	30.3	29.4	27	25.2	23.5	23.2
38	37.8	36.1	33.9	32.7	32.7	32.2	32.7	30.6	29.1	26.6	24.9
38.1	38.3	36.6	34.7	34.5	33.8	33	33.1	31.7	30.5	28.7	26.9
38.5	37.7	36.6	35.6	35.1	33.8	32.5	31.9	31.4	30.5	29.5	27.6
37.2	36.1	34.7	33.8	32.9	31.9	30.7	30	29	27.9	26.9	25.7
36.5	35.5	33.4	32.4	31.5	30.3	29.1	28.4	26.9	25.7	25	24.3
36.3	35.1	32.3	31.4	31.1	29.2	28	27.5	25.6	24.4	23.8	23.7
35.8	35	32.1	31	30.6	28.9	27.3	26.9	25.1	23.8	23.4	23.4
36	35.6	32.7	31.3	30.9	29.7	27.6	27	24.8	23.4	23.1	23.2
36.4	35.3	32.7	31.2	30.7	29.5	27.4	26.9	24.6	23.2	23	23.1
37.1	36.2	35.7	33.1	35	31.2	28	27.3	24.9	23.2	22.8	23.1
36.5	35.4	34.2	31.8	32.8	30	27.4	26.9	24.3	22.9	22.7	23

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
36.7	35.5	34.4	31.8	32.5	29.7	27.3	26.9	24.2	23	22.6	23
39.5	37.9	37.6	34.7	33.1	30.4	27.6	27.2	24.4	23.3	22.7	23
42.6	41.3	41.6	39	35.6	32.5	29.2	28.1	25	23.8	23.1	23.2
47	44.4	44.3	42.5	38	35.4	31.1	29.2	26.1	24.8	23.8	24.1
49.9	47.7	47.1	44.4	40.3	38.1	33.9	32.8	27.9	26.9	25.3	24.4
49.8	48.7	46.7	44.2	40.9	37.6	34.1	33.4	28.4	26.8	25	24.1
48.3	48.2	46	43.4	39.8	36.2	32.8	31.8	27.7	25.9	24.3	23.7
47.4	47.2	45.3	43.4	38.5	34.8	31.4	30.4	26.6	24.8	23.7	23.4
45.9	46	44.5	42.3	36.7	32.9	29.9	29	25.6	23.8	23.1	23.2
44.7	44.8	43.6	41.5	35.7	32.1	29.2	28.3	25	23.5	23.1	23.1
43	42.7	42	39.9	34.7	31.5	29.6	28.4	24.9	23.7	23.2	23.5
41.8	41.1	40.2	38.1	33.5	30.4	28.8	27.7	24.8	23.6	23.3	23.5
40.9	39.7	38.3	36	32.6	30	28.5	27.5	24.4	23.3	23.1	23.5
39.6	38.3	36.7	34.7	32	30	28.3	27.5	24.7	24.2	23.7	23.8
38.1	37.1	35	33.2	31.4	29.6	28.1	27.4	24.7	23.8	23.5	24.2
37.1	36.2	34.3	32.7	31	29.5	28	27.2	24.8	23.5	23.2	23.8
37.2	36.1	33.9	32.7	31	29.9	28.5	27.3	27.5	24.5	25	25.1
38.6	36.8	34.2	33.6	31.8	30.5	29.3	27.8	27.5	24.1	24	23.9
39.7	37.8	36.1	35.3	33.3	32.7	30.9	28.6	27.8	24.4	23.8	23.4
41.8	39.9	39.2	37.6	36.8	34.9	32.5	30.1	28.1	25.1	24	23.4
42.7	41.4	40	38.1	36.7	35.4	33.3	30.6	28.1	25.3	24	23.5
43	41.4	40.8	38.6	36.5	35.4	33.3	30.4	27.7	25.1	23.8	23.4
43.3	41.5	41	39.2	36.7	35.7	33.7	30.7	27.9	25.5	24	23.3
43.6	41.6	40.9	39.2	36.7	36.1	33.6	30.9	27.8	25.4	23.9	23.3
43.8	41.8	41.1	39.2	36.4	35.3	32.9	30.5	27.4	25.2	23.8	23.2
43.3	41.8	41.2	38.7	36	34.5	32.2	30	27.1	25.2	23.8	23.3
43.3	41.5	41.5	38.8	35.9	34.4	32	30.1	27.1	25.2	24.3	25.1
43.1	41.6	41.7	39.3	35.9	34.5	32.3	30.5	27.5	25.4	24.5	24.4
44.1	42.5	42	39.9	36.8	36.1	33.6	31.7	28.8	26.7	24.9	24.4
47.8	44.7	43.5	41.8	39.3	39	36.6	34.2	30.9	28.8	26.9	25.3
48.8	45.8	44.8	43.3	40.9	40.8	38.6	36.2	33	30.8	29.1	26.6
49.2	46.8	43.8	42.3	40	39.2	38	35.5	31.8	29.9	28	25.8
48.2	46	42.9	41.6	39.1	38.6	37	34.4	30.9	29.1	27.3	25.3
47.2	45.7	43.7	42.5	39.6	39.8	39.3	37.1	35.2	34.3	29.7	26.7
44.8	43.1	43.3	43	40.1	39.2	38.7	37.3	34.7	31.6	27.7	25.6
42.8	41.4	41.5	42.2	39	38.3	38	35.7	33	30.1	26.7	25.2
40.3	39.9	39	39.6	37.4	36.1	36	33.4	30.7	28.1	25.4	24.4

23.7	24.6	0.3	No	No
23.8	24.6	1.7	No	No
24.1	24.6	0.3	No	No
24	24.6	0.1	No	No
23.8	24.5	-0.7	No	No
23.7	24.5	0.3	No	No
23.7	24.5	0.2	No	No
23.8	24.5	0.1	No	No
23.8	24.5	0	No	No
24.2	24.5	-0.1	No	No
25.7	24.7	0.3	No	No
27.2	25.3	1.6	No	No
25.9	25	1.3	No	No
24.8	24.8	0.6	No	No
24.3	24.7	3.5	No	No
24	24.6	0.6	No	No
23.8	24.6	3.5	No	No
23.6	24.6	4.8	No	No
23.6	24.5	3.4	No	No
23.6	24.5	2.6	No	No
23.6	24.5	0.4	No	No
23.6	24.5	-0.8	No	No
23.7	24.6	4.2	No	No
23.7	24.5	2.7	No	No
23.7	24.5	0.8	No	No
23.7	24.5	0.5	No	No
23.7	24.6	7.1	No	No
23.8	24.6	0.3	No	No
23.7	24.5	6.7	No	No
23.7	24.4	3.9	No	No
23.7	24.5	2.5	No	No
23.7	24.5	1.4	No	No
23.7	24.5	1.8	No	No
23.7	24.5	-0.1	No	No
23.8	24.6	0.5	No	No
23.8	24.6	2	No	No
23.9	24.6	0.1	No	No
23.8	24.6	6.3	No	No
23.9	24.6	7.8	No	No
23.8	24.6	5	No	No
23.8	24.6	0.3	No	No
24.1	24.7	5.7	No	No
23.9	24.6	2.8	No	No
23.8	24.6	0.7	No	No
24.1	24.7	0.6	No	No
23.9	24.7	1.5	No	No
23.7	24.6	0.5	No	No
23.7	24.5	0.3	No	No
23.7	24.5	0.3	No	No
23.7	24.5	1.7	No	No
23.6	24.5	0.4	No	No
23.7	24.4	0	No	No
23.9	24.4	3.4	No	No
23.8	24.5	1.6	No	No
23.7	24.6	0.4	No	No
23.7	24.5	0.2	No	No
23.7	24.5	1.9	No	No
23.7	24.6	0.4	No	No
24.3	24.7	0.6	No	No
24.8	24.9	1.4	No	No
25.2	25	2	No	No
24.4	24.8	1.1	No	No
24.1	24.7	1.7	No	No
23.8	24.6	0.2	No	No
23.7	24.6	2.8	No	No
23.7	24.6	0.1	No	No
23.7	24.6	10.4	No	No
23.7	24.6	8.5	No	No
23.6	24.5	3.2	No	No

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.5	24.5	0.1	No	No	
23.6	24.5	-0.1	No	No	
23.8	24.6	0	No	No	
24.1	24.7	0.7	No	No	
24.2	24.7	1.3	No	No	
24.1	24.7	0.3	No	No	
23.9	24.7	0.5	No	No	
23.7	24.6	0.5	No	No	
23.7	24.6	2	No	No	
23.6	24.6	4.7	No	No	
23.8	24.6	0.5	No	No	
23.8	24.6	1.6	No	No	
23.8	24.6	0.5	No	No	
24.2	24.7	0.3	No	No	
24.1	24.8	0.8	No	No	
24	24.7	0.7	No	No	
25.9	25.2	0.5	No	No	
24.7	24.8	0.4	No	No	
24.1	24.7	0.7	No	No	
24	24.6	0.3	No	No	
23.8	24.6	0.6	No	No	
23.7	24.6	0	No	No	
23.7	24.6	1	No	No	
23.7	24.6	0.3	No	No	
23.6	24.5	0.3	No	No	
23.7	24.5	0.5	No	No	
24.4	24.7	0.4	No	No	
24.1	24.6	0.5	No	No	
24	24.6	3.5	No	No	
24.3	24.7	0	No	No	
24.8	24.7	1.1	No	No	
24.6	24.8	0.7	No	No	
24.4	24.8	0.6	No	No	
24.8	24.7	2.4	No	No	
24.2	24.6	2	No	No	
24.1	24.5	2.5	No	No	
23.9	24.5	0.6	No	No	

529		11/19/2021	1:31:19 PM	49.5	66.2	50.6	50.0	97.7	16.4	53.7	57.1	69.9	59.8	56.4	45.7	44.1	43.2	43	
530		11/19/2021	1:31:20 PM	48.3	64.8	50.0	49.0	97.6	19.4	51.2	57.2	67.6	59.4	53.7	46.0	42.2	42.9	41.7	
531		11/19/2021	1:31:21 PM	48.2	59.7	48.9	48.5	97.7	19.8	52.0	56.8	69.8	59.5	53.5	45.9	41.9	43.2	40.6	
532		11/19/2021	1:31:22 PM	49.5	63.7	49.3	48.4	97.7	16.1	52.4	57.8	70.1	58.6	53.4	46.5	44.6	43	43.4	
533		11/19/2021	1:31:23 PM	51.0	62.7	50.4	49.3	97.7	13.4	55.1	56.3	65.9	60.1	54	47.5	45.7	44.3	45.2	
534		11/19/2021	1:31:24 PM	52.1	69.4	51.6	50.4	97.8	12.8	64.3	55	64.4	61.9	54.1	48.1	47.8	46.3	45.1	
535		11/19/2021	1:31:25 PM	52.3	66.5	52.1	51.5	97.7	12.7	57.7	55.8	62.4	63.1	55.5	50.1	48.1	47.7	44.4	
536		11/19/2021	1:31:26 PM	52.9	66.2	52.7	52.0	97.7	12	51.3	55.7	63.7	63	55.9	52.7	48.9	48.4	45	
537		11/19/2021	1:31:27 PM	53.0	65.7	53.0	52.7	97.6	12.5	51.7	54.8	65.4	58.4	55.4	52.9	48	49.4	45.4	
538		11/19/2021	1:31:28 PM	51.5	64.1	52.8	51.9	97.7	12.3	51.7	52.8	65.6	61.2	54.4	51.6	45.5	48	44	
539		11/19/2021	1:31:29 PM	49.6	60.7	51.9	50.6	97.7	14.9	49.6	55.1	62.3	60.1	53.6	50.2	44.4	45.2	41.9	
540		11/19/2021	1:31:30 PM	48.2	61.5	50.6	49.2	97.7	17.4	53.2	53.3	61.8	64.7	54.8	48.0	44.2	43.2	40.2	
541		11/19/2021	1:31:31 PM	46.6	58.4	49.2	47.7	97.7	19.1	50.4	53.3	63.9	65.3	52.4	46.5	41.9	41.2	38.5	
542		11/19/2021	1:31:32 PM	45.2	58.4	47.7	46.2	97.6	17.5	53.5	54.1	63.5	61.3	52.4	46.1	40.4	39.8	36.6	
543		11/19/2021	1:31:33 PM	44.4	53.7	46.2	45.2	97.7	19.1	56.2	56.4	63.2	58.2	51.6	45.6	38.9	38.2	35.6	
544		11/19/2021	1:31:34 PM	45.0	53.7	45.3	45.0	97.6	18.2	53.4	57.7	64.8	58.1	53.5	45.9	41.4	38.5	36.2	
545		11/19/2021	1:31:35 PM	45.8	56.7	45.6	45.1	97.7	17.2	53.7	54.2	64.3	59	53.2	46.3	41.6	39.6	36.5	
546		11/19/2021	1:31:36 PM	46.5	58.4	46.2	45.6	97.7	17	55.2	56.2	64.8	57.5	54.5	46.9	43.1	40.9	36.7	
547		11/19/2021	1:31:37 PM	51.5	66.2	50.5	46.2	97.6	11.4	49.4	56.5	64.5	58	53.4	48.4	48.6	48	42.3	
548		11/19/2021	1:31:38 PM	49.0	61.5	50.5	49.5	97.7	14.1	51.7	56.2	64.7	59	53.9	48.8	45	44.6	41	
549		11/19/2021	1:31:39 PM	49.5	64.1	49.6	49.4	97.6	12.8	54.2	55.4	63	58.1	53.1	46.8	44.7	46.2	42.4	
550		11/19/2021	1:31:40 PM	50.3	62.7	50.1	49.6	97.4	12.9	54.7	54.9	62.8	58.3	53.3	47.5	45.9	46.6	42.8	
551		11/19/2021	1:31:41 PM	50.9	61.5	50.6	50.1	97.6	12.4	49.2	57.8	62	60.5	54.9	49.9	48.2	47	41.3	
552		11/19/2021	1:31:42 PM	50.4	63.2	50.6	50.4	97.6	13.4	56.0	56.9	62.1	60	55.6	49.9	46.8	46.7	40.1	
553		11/19/2021	1:31:43 PM	50.3	62.1	50.6	50.3	97.6	13.5	56.0	57.2	63.1	58.7	55.5	50.1	47.3	45.8	41	
554		11/19/2021	1:31:44 PM	48.5	62.1	50.3	49.2	97.7	15.2	55.9	54.7	64	58.6	57.5	49.1	43.9	44.1	39	
555		11/19/2021	1:31:45 PM	46.7	59.7	49.2	47.8	97.7	16.7	52.5	55.8	62.9	60.3	55	45.7	42	42.5	37.1	
556		11/19/2021	1:31:46 PM	46.2	58.4	47.8	46.9	97.7	17.3	52.5	55.8	62.9	60.2	56	46.0	41.2	41.3	36.1	
557		11/19/2021	1:31:47 PM	46.1	58.4	47.0	46.4	97.7	16.7	51.5	53.9	64.4	58.3	54.2	46.3	41.5	41.8	35.8	
558		11/19/2021	1:31:48 PM	45.9	58.4	46.5	46.1	97.6	16.3	53.0	55.8	63.3	58	54.2	46.4	41.2	41.2	36	
559		11/19/2021	1:31:49 PM	45.6	56.7	46.1	45.8	97.6	17.7	51.2	55.4	62.8	58.4	55.6	45.8	40.2	40.1	35.7	
560		11/19/2021	1:31:50 PM	45.4	56.7	45.8	45.5	97.4	16.6	49.3	54.5	64.3	57.4	54.5	45.1	40.4	40.8	35.6	
561		11/19/2021	1:31:51 PM	46.2	58.4	46.0	45.5	97.7	16.2	49.6	56	62.7	57.7	54.4	47.2	41.3	41	36.5	
562		11/19/2021	1:31:52 PM	47.2	58.4	46.8	46.0	97.7	15.5	48.1	56	62.5	58.1	54.2	47.5	42.3	43.2	37.7	
563		11/19/2021	1:31:53 PM	45.6	53.7	46.8	46.0	97.4	16.5	50.1	54.9	62.4	59.2	54.6	46.5	41	40.8	36.3	
564		11/19/2021	1:31:54 PM	45.5	53.7	46.0	45.7	97.7	17.1	53.7	57.7	62.4	58.3	55.4	46.9	41.6	39.4	35.4	
565		11/19/2021	1:31:55 PM	45.6	56.7	45.8	45.6	97.7	17.3	50.6	56.4	64.1	58.9	54.5	47.3	41.2	39.1	35.5	
566		11/19/2021	1:31:56 PM	44.8	56.7	45.6	45.0	97.7	17.9	52.0	53.7	62.6	57.6	53.5	46.4	40	38.4	34.7	
567		11/19/2021	1:31:57 PM	44.6	56.7	45.1	44.7	97.7	18.1	49.4	56.4	61.8	59.7	54.2	47.4	39.9	37.9	34.3	
568		11/19/2021	1:31:58 PM	44.3	53.7	44.8	44.4	97.4	18.2	50.1	56.1	61.7	59.9	54	46.6	39.5	37.7	33.9	
569		11/19/2021	1:31:59 PM	44.4	53.7	44.5	44.4	97.4	17.9	47.9	54.5	62.7	58.5	54.3	44.8	39.1	38.4	34.3	
570		11/19/2021	1:32:00 PM	45.0	56.7	44.8	44.4	97.6	17.1	51.0	54.8	62.7	57.6	54.9	47.2	39.1	37.8	34.8	
571		11/19/2021	1:32:01 PM	44.6	53.7	44.9	44.6	97.6	17.6	52.1	53	62.3	58	54.1	46.8	39.1	37.4	34.4	
572		11/19/2021	1:32:02 PM	44.2	56.7	44.6	44.3	97.4	17.9	53.4	54.6	61.8	59.1	54	47.2	38.4	37.1	33.3	
573		11/19/2021	1:32:03 PM	44.5	53.7	44.6	44.3	97.6	18.3	51.2	56.9	63.4	58.6	55	47.5	38.4	37.3	33.2	
574		11/19/2021	1:32:04 PM	44.5	53.7	44.5	44.3	97.7	17.5	50.2	54.8	62.5	58.2	54.1	47.6	39.3	37.7	33.5	
575		11/19/2021	1:32:05 PM	44.4	53.7	44.5	44.3	97.6	18	49.6	53.9	63	56.6	53.2	46.9	38.9	38.1	33.9	
576		11/19/2021	1:32:06 PM	45.6	56.7	45.4	44.4	97.7	16.7	47.3	56.4	62.2	59.9	54.4	45.8	40.6	40.2	35.9	
577		11/19/2021	1:32:07 PM	46.5	58.4	46.2	45.4	97.6	16	48.8	55.7	61.8	58.8	54.2	46.7	42	41.7	36.5	
578		11/19/2021	1:32:08 PM	47.6	58.4	47.1	46.2	97.6	14.8	51.9	56	62.5	58	54.9	48.8	42.4	43.4	38	
579		11/19/2021	1:32:09 PM	46.0	58.4	47.4	46.2	97.4	16.7	56.1	54.7	63.4	58.3	53.3	47.7	41.2	41.1	35.6	
580		11/19/2021	1:32:10 PM	44.8	58.4	46.2	45.3	97.6	18.2	51.3	54.1	63.3	59.1	54.1	45.8	39.9	38.8	34.6	
581		11/19/2021	1:32:11 PM	43.9	53.7	45.2	44.4	97.4	19	50.5	57.3	63.1	58.8	52.8	45.7	38.5	37.4	33.1	
582		11/19/2021	1:32:12 PM	44.3	58.4	44.7	44.2	97.7	14.9	48.5	59.1	61.2	56.8	53.8	45.4	39.5	39.1	33.9	
583		11/19/2021	1:32:13 PM	44.6	56.7	44.6	44.1	97.6	16.3	44.6	52.1	56.1	55.4	53.9	46.3	40.5	39.1	32.8	
584		11/19/2021	1:32:14 PM	44.2	56.7	44.5	44.3	97.6	15.6	48.2	59.5	60.2	57.3	53.9	46.0	40.6	38.5	32.9	
585		11/19/2021	1:32:15 PM	44.1	53.7	44.3	44.0	97.2	16	54.8	53.9	58	56	52.9	45.4	40.4	38.6	31.6	
586		11/19/2021	1:32:16 PM	44.1	56.7	44.2	44.0	97.6	14.6	55.8	53.4	58	55	54.1	46.2	39.1	37.7	32.5	
587		11/19/2021	1:32:17 PM	44.3	53.7	44.3	44.1	97.6	14.3	50.2	52.9	55.8	55.1	52.7	45.7	41.1	38.7	32.7	
588		11/19/2021	1:32:18 PM	43.4	53.7	44.2	43.7	97.7	15	48.4	52.8	55.5	55.2	51.6	43.8	39.6	38.2	33.5	
589		11/19/2021	1:32:19 PM	43.9	56.7	43.9	43.6	97.4	14.6	51.2	52.9	56.6	54.6	52.8	45.2	40	38.3	32.7	

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
590		11/19/2021	1:32:20 PM	44.7	56.7	44.5	43.9	97.4	15.1	48.8	53.3	56.5	57	52.9	46.5	40.5	38.8	34.3	
591		11/19/2021	1:32:21 PM	47.7	59.7	47.0	44.5	97.6	11.9	49.7	53.2	57.3	56.9	53	47.3	45	42.1	38.3	
592		11/19/2021	1:32:22 PM	49.1	60.7	48.4	47.1	97.3	11.4	47.9	55.3	57.1	57.6	54	47.1	46.6	44.5	40.2	
593		11/19/2021	1:32:23 PM	49.6	61.5	49.3	48.4	97.3	11.4	51.7	53.3	58.5	57.7	54.9	48.0	46.6	44.8	40.5	
594		11/19/2021	1:32:24 PM	51.8	64.8	51.0	49.4	97.4	11	53.0	51.9	56.9	59.9	57	47.2	49	47.6	42.7	
595		11/19/2021	1:32:25 PM	48.5	62.1	50.9	49.6	97.6	13	55.9	52.2	57.2	59.1	57.1	47.6	45.9	43.4	38.2	
596		11/19/2021	1:32:26 PM	47.3	58.4	49.5	48.2	97.2	12.7	53.6	54.9	57.7	56.6	55.2	46.7	44.8	42.5	37.6	
597		11/19/2021	1:32:27 PM	45.6	58.4	48.2	46.7	97.3	14.4	52.3	53.1	57	56.7	53.9	46.1	42.8	40.7	35.2	
598		11/19/2021	1:32:28 PM	43.9	59.7	46.7	45.2	97.3	15.1	52.8	52.1	58.2	56.1	53.1	45.1	39.8	38.1	33.7	
599		11/19/2021	1:32:29 PM	43.4	53.7	45.2	44.1	97.4	15.1	49.7	54.8	57	55.5	52.8	44.3	38.7	38.2	33	
600		11/19/2021	1:32:30 PM	42.6	53.7	44.1	43.2	97.3	16.4	51.6	51.7	56.1	55.8	51.8	42.9	38.4	36.6	31.6	
601		11/19/2021	1:32:31 PM	42.4	53.7	43.2	42.7	97.3	17	53.6	52.4	56.4	57.5	51.5	42.9	38.1	36.6	31.5	
602		11/19/2021	1:32:32 PM	41.7	53.7	42.7	42.1	97.4	16.9	48.7	52.2	55.4	55.2	51.1	42.3	36.8	35.8	31	
603		11/19/2021	1:32:33 PM	52.6	80.5	52.1	41.9	97.2	11.6	47.6	52.1	56.2	59	54.6	48.4	52.3	47.2	42.1	
604		11/19/2021	1:32:34 PM	42.0	53.7	50.4	49.1	97.2	16.8	50.2	51.5	65.9	58	52.6	41.1	37.7	36.6	31.3	
605	Stop	11/19/2021	1:32:35 PM															

39.3	32.2	28.9	55.3	56.5	69.5	60.2	56.4	47.9	46.5	45.2	43.6	40
37.9	32.4	29.1	54.3	57.1	69.6	60.1	56.2	46.9	45.3	44	43.4	39.7
37.7	31.8	28.9	53	57.7	69.3	60	54.7	46.4	43.6	43.5	42.3	38.6
39.8	33.4	29.1	53.2	57.5	70	59.5	54.3	46.4	44.2	43.3	43	39.5
41.5	34.8	29.4	54.3	57.5	69.9	59.9	54	47.1	45.5	44	44.4	40.9
42.9	36.5	29.5	63.8	56.9	67.5	61.5	54.3	47.8	47	45.8	44.9	42.2
40.8	34.4	29.2	63.8	56.1	66	62.7	55	49.7	48	47.1	44.8	42.1
40	32.9	28.9	60.6	56.4	64.2	63.2	55.8	52	48.5	48.1	45	41.3
36.5	30	28.7	57.2	55.9	65.5	62.9	55.9	52.8	48.9	49	45.3	40.5
35.2	29.3	28.5	54.7	55.1	66.5	61.9	55.5	52.7	47.9	49	45.3	38.4
34.1	29.1	28.6	52.7	55.1	65.3	61	54.9	51.8	46.5	48.2	44.4	36.6
33.6	28.7	28.5	52.9	54.8	63.3	63.6	55	50.7	45.3	46.5	43	35.2
33	28.8	28.5	52.5	54.1	63.8	65.1	54.6	49.2	44.6	44.8	41.5	34.3
32.8	28.3	28.6	53.3	54.2	63.9	65	53.4	47.6	43	42.8	39.7	33.7
32.1	28	28.5	55.7	56.1	63.9	62.9	52.7	46.6	41.5	41.1	38	33
32.2	28	28.5	55.3	57.4	64.7	60.8	53.1	46.3	41.1	39.5	36.7	32.5
33.5	28.2	28.5	54.2	57.2	64.8	59.6	53.4	46.4	41.5	39.4	36.5	33.3
32.7	29.2	28.5	55	56.6	64.8	59	54.3	46.7	42.6	40.4	36.6	33.1
36.1	28.9	28.5	54.6	56.4	65.3	58.3	54.3	48	47.6	46.8	41.3	35.5
32.9	28.3	28.6	52.4	56.5	64.7	58.8	54.3	49	47.7	46.8	41.3	35.3
32.4	27.9	28.5	53.9	56.8	64.8	58.5	53.8	48.2	46	46.1	42.1	33.9
34.5	28.5	28.5	54.7	55.6	64	58.5	53.6	47.7	45.9	46.6	42.6	34.1
35.5	28.9	28.6	54.6	57.1	63	60.1	54.4	49.3	47.6	46.9	42.5	35
34.1	28.7	28.5	55.5	57.4	62.9	60.1	55.4	50	47.5	46.9	41.7	35
34.9	29.3	28.6	56.1	57.8	63.3	60.1	56	50	47.3	46.7	41.2	35
32.6	28.4	28.5	56.3	57	63.9	59.7	56.9	50.1	47.2	46.1	40.7	34.6
31.9	28.6	28.5	55.9	55.9	64.1	60.1	56.9	49.2	45.3	44.9	39.7	33.4
31.9	28.1	28.5	53.8	55.9	63.3	60.3	56.2	47.5	43.5	43.5	38.2	32.5
31.7	28.2	28.5	53.1	55.9	64.3	59.9	56	46.8	42.4	42.3	37.1	32.2
32.2	28.2	28.5	53.2	55.9	63.8	59.2	54.9	46.6	41.9	42.2	36.3	32.1
32.6	28.2	28.5	52.6	55.6	63.6	58.6	55.5	46.5	41.3	41.5	36.1	32.5
32.9	28.6	28.6	51.7	55.9	64	58.7	55.4	46	40.7	40.8	35.9	32.9
32.8	28.2	28.5	50.3	55.9	63.8	58.2	54.8	46.7	41	41.1	36.2	32.9
33.5	28.5	28.5	50.1	56.4	63.3	58.1	54.7	47.4	42	42.6	37.3	33.3
32.4	28	28.5	50	55.5	63.5	59.5	55.2	47.3	42	42.6	37.3	33.2
32.3	28.2	28.5	53.2	57	62.6	58.8	55.5	46.9	41.5	41.4	36.5	32.7
33	29.6	28.6	53.3	57.1	63.5	59.2	55.1	47.3	41.6	40.3	35.9	32.9
31.9	28.2	28.6	52.4	56.5	63.5	58.8	55	47.2	41.4	39.6	35.6	32.7
31.5	27.9	28.4	52.1	56.4	63	59.4	54.6	47.6	40.4	38.8	35	32.2
31.7	28	28.5	50.6	56.5	62.7	60.1	54.2	47	40.4	38.2	34.5	31.8
31.9	28.1	28.5	50.4	56.1	62.6	59.6	54.3	46.7	39.7	38.3	34.3	31.9
31.6	28	28.6	50.5	55.4	63.1	58.8	54.8	46.9	39.5	38.3	34.7	31.9
31.7	27.9	28.6	53	55.3	63.1	58.5	54.9	47	39.6	38	34.7	31.7
31.3	27.8	28.4	53.4	55.2	62.4	59	54.5	47.1	39.1	37.5	34.4	31.7
31.6	28.1	28.5	52.5	56.4	63.3	58.6	55	47.6	38.6	37.4	33.7	31.7
31.4	28.1	28.5	51.9	56.4	63.4	58.7	54.8	47.7	39.1	37.6	33.5	31.6
31.4	27.9	28.5	51.4	55.2	63.4	58.4	54.4	47.7	39	38	33.8	31.5
32	28.7	28.6	50.4	55.9	63.1	59.6	54.4	47.1	40.4	39.9	35.6	31.8
32.5	28.2	28.5	49.5	56.2	62.5	59.1	54.3	46.8	41.6	41	36.2	32.4
33.4	27.9	28.5	51	56.5	62.8	58.9	54.8	48.2	42.4	42.6	37.5	33.1
32.3	28.2	28.5	54.9	55.9	63.1	58.7	54.7	48.6	42.4	43	37.5	33.2
31.9	28.3	28.6	54.7	55.6	63.6	59	54.4	47.7	41.3	41.4	36.1	32.7
30.6	27.3	28.4	52.8	56.8	63.6	59.4	54	46.7	40.4	39.9	35.2	32.1
29.1	26.9	28.5	51.7	59.1	63.2	59	53.8	45.9	39.6	39.2	34.9	31.5
28.1	27.4	28.6	49.8	58.1	61.7	57.6	54	46.2	40.4	39.1	33.6	29.6
27	26.3	28.4	48.5	59	60.3	57.8	54.1	46.4	40.7	39.2	33.5	28.7
26.5	25.8	28.3	54	59	60.2	56.7	54.2	46.3	40.5	38.6	32.9	27.6
28.2	27.8	28.6	55.6	56.6	60.1	56.4	54	46.1	40.4	38.6	32.5	28.2
28.2	27.2	28.7	54.7	55.1	57.9	55.4	53.8	46.2	40.7	38.5	32.6	28.1
28.2	26.7	28.5	52.5	53.9	57.1	55.5	53.3	45.7	40.6	38.5	33.4	28.2
27.5	25.9	28.4	51.4	53.2	56.8	55.3	52.7	45.2	40.1	38.4	33.1	28.1

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
29.4	26.7	28.4	51.2	54	56.8	56.4	52.9	46.3	40.5	38.7	34	29.1
34.3	29.4	28.5	50.6	53.6	58.1	56.9	53.4	47	44	41.5	37.5	33.3
35.6	30	28.4	49.2	55.4	57	57.7	53.6	47.2	45.9	43.5	39.3	34.9
35.9	30	28.4	51.5	54.7	58	57.9	54.6	47.8	46.5	44.4	40.2	35.7
37.6	30.8	28.5	52.6	53.9	58.4	59.3	56.4	47.8	48.3	46.7	41.9	37
33.7	27.9	28.5	55.2	52.8	57.9	59.8	57.1	47.8	48.1	46.5	41.9	37
32.8	28	28.4	55.5	54.6	58.2	59	56.9	48	46.8	44.7	39.9	35.1
30.8	26.6	28.5	54.9	54.5	57.3	58.4	55.6	47	45.5	43.4	38.5	33.8
31	29.3	29.2	53.7	53.6	58.3	57	54.7	46.4	43.9	41.8	36.6	32
29.8	27	28.5	53	54.4	57.9	56.6	54	45.4	41.7	39.9	35	31.5
27.3	26.5	28.4	51.7	54.1	58	56.1	53	44.7	40.2	38.9	33.9	30.5
27.8	27.3	28.3	53.8	53.1	57.3	57.1	52.6	43.6	39.1	37.6	32.6	28.8
26.6	26.6	28.4	52.7	52.8	56.7	57.1	51.7	43.4	38.5	37	32	28.2
35.8	28.4	28.5	50.5	53	56.3	58.9	54.4	48	51.8	46.7	41.6	35.3
27.2	27.4	28.4	49.9	52.3	62.2	59.2	54	47	50.1	45.1	40	33.8

33.3	29	54.2	53.7	67.1	59.2	55.8	46.7	45.3	44	43	39.5	32.6
32.8	29.1	52.7	56	67.9	59.5	54.8	46.3	43.5	43.3	42.3	38.6	32.5
32.5	29	51.8	56.5	68	59.4	53.9	46	42.5	43.2	41.3	38	32
33.1	29.1	52	56.3	69.3	58.9	53.6	46	42.4	43	41.2	38.1	31.9
34.2	29.3	51.5	56.4	67.5	58.6	53.5	46.2	43.9	43.1	43.1	39.5	33.1
35.8	29.5	52.5	55.8	65.9	59.5	53.9	47	45.2	43.8	44.3	40.9	34.3
35.8	29.4	60.7	55.4	63.9	61.4	53.9	47.8	46.8	45.8	44.6	41.3	34.8
34.8	29.3	57.2	55.7	63.7	62.1	54.9	49.6	47.8	47	44.4	40.5	33.7
33.7	29.1	54.4	54.6	63	60.6	55.3	51.9	48	48.1	45	38.4	31.7
31.7	28.8	52.7	53.6	65.3	60.2	54.6	51.8	46.5	48.2	44.4	36.6	30.3
30.3	28.6	51	53.6	63.3	60.1	53.8	50.7	45.3	46.5	43	35.2	29.5
29.5	28.6	50.7	53.7	61.7	60.5	54.1	49.1	44.6	44.8	41.5	34.3	29
29.1	28.6	51.2	52.8	62.9	63.3	53.3	47.6	43	42.8	39.7	33.5	28.7
28.9	28.6	51.1	53.1	62.8	62.9	52.7	46.6	41.5	41.1	38	33	28.4
28.5	28.5	53.3	53.5	63.1	60.8	51.8	45.8	40.1	39.6	36.7	32.4	28.2
28.2	28.5	54.1	55.8	63	59.2	52.3	45.9	40	39	36.4	32.2	28
28.2	28.5	53.2	55.5	63.6	58.9	52.5	45.9	41.1	38.9	36.3	32.2	28
29.1	28.5	54.1	55.3	63.7	58	53.1	46.2	41.4	39.3	36.4	32.8	28.1
29.1	28.6	51.9	55.5	64.3	57.7	53.4	46.7	42.6	40.3	36.6	32.7	28.7
28.9	28.6	51.4	55.8	64.1	58	53.5	47.9	46	45.4	40.8	33.9	28.5
28.5	28.6	51.5	55.4	63.6	58.2	53.1	47.3	45.2	45.3	41.2	33.1	28.1
28.4	28.5	53.6	55	62.9	57.7	52.6	47.1	44.8	45.9	42.1	33	28
28.8	28.5	52	55.1	61.9	58.3	53.5	47.5	45.9	46.4	41.7	34.1	28.4
28.7	28.6	51.9	56.6	62.2	59.2	54.3	49.4	46.9	46.6	40.7	34.3	28.6
29.1	28.5	55.1	56.8	61.7	59.1	55.2	49.5	46.8	46.1	40.7	34.5	28.8
29.1	28.6	55.4	55.5	62.9	58.7	54.9	49.2	45.3	44.9	39.7	33.4	28.6
28.9	28.6	53.9	55.4	63	58.9	55.6	47.5	43.5	43.5	38.2	32.5	28.5
28.5	28.5	52.8	55.5	62.5	59.6	55.8	46.6	42.2	42.3	37	32	28.2
28.3	28.5	52.1	54.8	63	58.9	54.9	46.3	41.8	41.9	36.3	31.9	28.2
28.3	28.5	51.9	54.6	63.4	58.2	54.4	46	41.3	41.4	36	31.9	28.1
28.3	28.6	51.7	55	62.8	57.8	54.6	45.9	40.5	40.6	35.8	32.1	28.1
28.5	28.6	50.2	54.7	63.1	57.6	54.4	45.4	40.4	40.5	35.6	32.5	28.3
28.4	28.5	48.9	54.6	62.8	57.5	54.3	45.4	40.4	40.4	35.6	32.5	28.1
28.4	28.5	48.9	55.5	62.1	57.4	53.9	46.6	40.9	41.1	36.3	32.9	28.3
28.4	28.5	48.8	54.9	62.3	58	54.4	46.6	41.1	41.4	36.6	32.7	28.1
28.2	28.5	50.1	55.3	61.8	58	54.4	46.6	40.9	40.3	35.9	32.4	28.1
29.4	28.5	51.6	56.5	62.6	57.8	54.5	46.7	41.3	39.6	35.6	32.4	28.1
29.1	28.6	50.8	55.1	62.9	58.1	53.9	46.7	40.4	38.9	35	32.2	28.5
28.5	28.6	50.2	54.8	61.9	57.8	53.8	46.7	39.8	38.2	34.5	31.8	28.1
28.2	28.5	49.5	55.5	61.8	58.6	53.7	46.4	39.7	37.8	34.2	31.7	28.1
28.1	28.5	49.1	54.8	61.4	58.6	53.8	45.5	39.2	37.9	34	31.7	27.9
28.1	28.6	48.8	53.8	62.1	58	54.1	45.5	39.2	37.9	34.2	31.7	28
28.1	28.6	50.5	53.8	62.2	57.8	54.2	46.7	38.9	37.6	34.4	31.6	27.9
28	28.6	50.4	54.1	61.3	58	53.8	46.5	38.5	37.3	33.7	31.4	27.9
28.1	28.5	51.6	54	61.6	57.9	53.9	47.1	38.4	37.2	33.3	31.3	27.8
28.2	28.5	49.9	55.2	62.7	58	54.3	47.2	38.3	37.2	33.3	31.4	27.9
28.2	28.5	50.4	54.3	62.5	57.1	53.6	46.9	38.7	37.6	33.5	31.4	27.9
28.6	28.6	48.7	54.6	62.3	57.5	53.6	46	38.8	37.9	33.7	31.3	27.9
28.4	28.6	48.5	55.6	61.6	58.1	53.7	45.9	40.4	40	35.6	31.8	28.2
28.3	28.5	48.3	55.1	62.1	58.1	54.1	46.7	41.7	41	36.3	32.4	28.1
28.2	28.5	51	54.9	62.1	58.2	53.9	47.6	41.3	41.4	36.1	32.5	28.1
28.4	28.6	52.9	54.4	62.9	58.1	53.7	46.5	40.4	39.9	35.2	32.1	28.1
28.2	28.6	51.4	54.2	62.9	58.3	53.3	45.9	39.3	38.5	33.9	31.1	27.5
27.9	28.5	49.9	56.6	61.7	57.7	53.3	45.5	38.9	38.4	33.6	29.6	27
27.5	28.6	47.3	55.2	59.1	56.3	53.2	45.5	39.4	38.7	33.1	28.7	26.8
27.2	28.5	47.3	55.1	57.8	56.5	53.3	45.5	40.3	38.5	32.9	27.6	26.6
26.6	28.5	47.2	56.6	58.8	55.9	53.1	45.5	40	38.3	32.1	27	26.1
27.6	28.6	53.5	55	57.9	55.2	53.7	45.5	39.7	38	31.8	26.7	26.1
27.4	28.6	52.6	53.6	56.8	55	53	45.7	39.6	38.1	32.4	27.9	27.2
27.2	28.7	50.5	52.9	55.8	54.7	52	44.6	39.9	38.3	32.6	28	26.9
26.8	28.5	50.2	52.5	56	54.5	51.7	44.4	39.8	38	32.7	27.7	26.3

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
26.6	28.5	49.6	52.9	55.4	54.9	52.4	45.1	39.9	38.4	32.9	27.7	26.2
28.8	28.5	49.3	51.9	56.4	56.1	52.7	46.3	40.4	38.7	34.1	29.2	26.7
29.6	28.5	47.6	52.9	56.1	56.5	53	46.6	44	41.6	37.5	33.4	28.8
29.9	28.4	48.5	53.7	56.7	57	53.1	47.2	45.7	43.4	39.1	34.6	29.3
30.6	28.5	50	52.4	57	57.3	54.5	47.3	46.5	44.5	40.3	35.7	30
30.4	28.5	51.8	51.4	57	59	56.2	47.1	46.5	44.8	39.9	35.2	29
29	28.5	53.4	52.5	56.9	57.5	55.6	46.8	45.6	43.4	38.5	33.8	28.4
28.4	28.5	53.1	53.6	56.6	56.8	54.5	46.3	43.9	41.9	36.7	32	27.3
28.8	28.9	52.1	52.3	57	56.1	53.7	45.4	41.7	39.9	35.1	31.2	27.2
28.8	28.9	51	53.1	56.5	55.7	53	44.6	40.2	38.9	33.9	30.5	27.7
27.7	28.7	50.9	52.7	56.4	55.1	52.3	43.6	39.1	37.6	32.6	28.8	27
27.3	28.5	51	52.1	56.1	55.7	51.7	43	38.5	36.9	31.9	28.1	26.9
27.2	28.4	50.6	51.7	55.4	55.7	51.2	42.5	37.5	36.2	31.4	27.3	26.9
28.2	28.5	48.9	51.3	55.2	55.5	51.2	42.1	37.4	36.2	31.1	27.1	26.9
27.9	28.4	49.1	51.9	55.7	58.4	53.4	45.8	48.6	43.7	38.6	32.5	27.7

28.9	52.6	52.6	49.5	47.7	46.8	47.4	65.7	58.4	67.6	56.7	52.6	54.9	51.1	54.1
28.9	49.3	50	46.6	46	54.1	49.8	65.9	56.4	63.4	56.7	51	53.8	51.5	50.6
29	48.4	50.5	50.2	50.8	53.7	49.4	62.8	61.5	67.6	58.1	51.4	51.3	48.8	50
28.9	44.3	46.9	48.6	54.2	53.4	52.3	66	67.1	63	57.4	51.4	52	48.4	50.5
29.1	44.3	47.7	45.2	48.3	50.4	52.4	61.8	62.9	62.2	56.7	55.4	51.2	46.4	51.1
29.3	47.8	47.9	50.1	50.2	52.3	51.7	63.6	57.4	59	61.1	52	52.8	50.4	48.6
29.3	47.3	51.1	57.3	50.9	49.2	50.4	62.3	57.1	53.3	62.7	52.3	49.3	48.6	50.8
29	51.3	55.4	49.9	50.5	47.7	49.1	62.5	57.1	53.9	61.6	53.9	50.7	51.6	52.1
28.8	55.8	62.5	44.1	52	51.5	48.6	63.1	54.6	56	60.1	51.4	54.1	51.1	51.4
28.6	51.5	45.9	49.8	51.9	48.8	49.8	65.6	55.3	58.7	60.2	51.9	54.5	51.1	48.3
28.6	48.4	48.4	47.3	46.4	48.1	48.9	64	54.2	55.7	57.1	53	52.2	50.8	49.6
28.5	43.8	46.6	46.4	48.7	50.6	48.9	60.8	52.8	58.3	63.4	51.6	52.5	53.6	47.2
28.5	40.7	44.1	49.1	50.5	47.2	45.1	62.9	54.7	51.8	63.9	53.1	51.9	48.6	47.4
28.5	45.2	47.5	46.2	47.8	44.4	48.6	63.2	53.1	51.4	60.7	61	50.1	49.6	48.5
28.5	46.9	46.7	46.8	50.2	46.8	51.9	64.7	51.1	50.5	56.6	52.7	50.2	48.7	46.6
28.4	41.6	46.8	49.5	50.2	48.3	53	63.5	57.6	55	57.3	51	49.7	49.5	46.8
28.5	48.8	52.5	45.1	47.3	52.7	49.9	63.5	56.4	53.2	57.8	50.4	49.8	48.3	48.3
28.5	52.9	50.2	54.2	53.2	50.7	50.9	63.8	56.1	50.4	56.7	49.6	48.9	48.5	50.3
28.5	48.1	42.1	48.3	49.7	50.8	47.6	64.9	58.2	50.2	57	52	48	47	48.1
28.5	43.5	50.3	37.7	47.9	54.5	49.1	63.8	55.2	51.4	56.8	51.8	53.3	49.2	50.9
28.5	48.4	42.1	46.4	52.8	51.2	48.3	63.7	53	52.2	56.6	51.7	50.4	48.4	49.8
28.5	47.7	46	50.6	55	46.2	50.2	62.4	54.5	52.5	56.2	51	49.9	49.8	47.7
28.5	48.6	48.3	47	47.9	47.8	51.3	61.1	52.9	54	59.9	53.6	52.2	50.8	49.9
28.5	47.5	51.6	47.3	49.3	52.5	50.9	63.4	51.3	51.4	57.8	51.6	49	52.6	51.3
28.5	49.9	44.9	53.5	51.2	51.7	53.8	62.1	50.4	52.8	59	50.5	52.6	50.3	52.6
28.5	46.5	49.5	50.3	49.2	52.4	48.5	64.8	54.5	52.7	57	50.8	51.8	54.2	52.5
28.5	48.4	51.5	52	49.9	48.7	49.6	62.6	54.3	56.9	60	48.4	49.5	52.6	49.5
28.5	51.2	51.7	46.4	48.3	48.7	50.8	62.3	53.9	50.9	58.4	54	50.4	53.9	50.9
28.5	49.3	46.1	47.6	49.7	46.6	49.3	63	56.4	52.5	56.2	52.3	52.9	50.4	51.4
28.5	51	42.7	50.1	47.6	48.7	51.7	63.9	54.6	53.7	57.5	51	48.5	48.5	51.2
28.5	46.2	48.6	46.9	50.5	47.9	50.6	62.9	54.4	51.9	56.1	53	50.9	49.9	53.7
28.5	43.7	47.7	45.5	48.5	49	51.2	62.7	55.3	52.2	57.1	49.6	48.5	51.2	49.9
28.5	46.5	48.3	44.7	50	48.2	46.3	63.7	54.7	49.5	54.1	52	53.4	52.8	48.6
28.5	45.4	45.3	45.6	47.6	53.2	50.5	61.6	52.9	53	56.8	49.7	51.3	51.8	46.9
28.5	45.1	42.6	42	51.8	49	49.8	62.3	54.3	52	58.7	50.5	48.1	52.2	48.7
28.5	44.8	44.5	41.9	48.5	43.8	52.3	61.8	49	50.5	56	49.7	50	54.2	49.3
28.5	45.2	44.4	50.7	51.1	51.7	52.3	63.1	53.6	52.3	57.2	52.4	50.8	49	51.3
28.5	45.7	50.6	46	49.6	52.6	50.1	63.7	54.1	51	55.6	52.9	50.4	50	50.6
28.5	45.1	45	50.6	47.3	49	47.1	63.5	53.1	53.9	58	51.6	51.7	49.8	50.8
28.5	46.8	43.7	43	50.9	51.1	52.2	62	52.8	51.6	59.2	50.3	50.7	50.9	49.7
28.4	44.4	45.2	44.8	49.3	47.9	50.8	62.3	51.4	48	56.8	51.5	51.8	50.7	50.4
28.4	41.9	46.4	47	49.7	45.8	45.5	63.1	54.6	50.7	56.1	49.7	51.4	49.9	50.8
28.5	43.2	44.3	48.8	49.6	48	46.7	61.9	55.5	51.6	53.7	52.4	51.5	50.9	50
28.5	43.4	44	46.8	49.5	49.3	49.6	61.6	51.4	49	58.4	49.7	51	49.7	50.6
28.5	39.6	50.8	48.8	51	49.6	49.7	62.2	53.1	51.5	56.2	52	50.7	50.7	49.9
28.5	37.9	47	42.1	46.6	53.6	48.7	63.3	54.6	52.3	56.4	51.4	52.1	50.5	50.4
28.5	46.4	47.4	45.6	47.2	52.2	46.4	62.1	56.3	50.3	55	51.2	50.1	49.4	48.5
28.5	47.1	47.4	47.3	45	50.4	48.8	62.2	55	49.9	58.4	49.2	53.6	50.9	51
28.5	44.8	46.6	43.9	48.5	52.2	48.2	62.7	52.1	51.2	53.7	55.1	51.9	48.2	51.5
28.5	43.2	37.5	45.1	49.5	53.4	50.5	61.8	54.8	52.7	56.1	53.9	50.8	50.5	51.4
28.5	44.4	43.5	53.6	48	50.9	51	62.3	52.8	50.4	57.6	50.8	50.1	50.7	50.2
28.5	41.6	47.7	51.2	45.1	46.5	50.1	63.6	55	50.7	57	52.2	50.6	50.6	50.5
28.5	45.6	43.2	42.7	48.5	48.7	48.2	62.8	54.1	52.7	57.4	53.7	51.9	49.8	49.7
28.5	40.8	51.9	45.3	47.3	51.5	57.2	61	56.1	58.4	54.7	49.9	50.8	50.2	49.7
28.4	45.2	46.2	44.1	47.5	54.7	50.3	50.6	54.6	52	53.1	48.1	50.6	49.5	49.4
28.5	44.4	44.8	40.6	49.4	47	49.8	52.8	55.3	50	53.4	51.8	52.6	51.7	49.3
28.4	46.3	39	46.6	51.5	50.4	54	59.3	51.6	43.6	54.2	49.2	51.1	50.6	49.6
28.4	42.8	40.5	54.7	54.8	53.9	47.1	57.2	52.3	48.4	50.7	50.1	51.3	49.1	51.1
28.5	42.5	48.9	47.2	47.7	50.3	46.2	52.5	50.9	49.3	49.5	50.8	49.1	49.4	49.1
28.5	44.4	51.8	48	49.6	50.8	48.7	51.7	53.7	47.8	51.8	50.9	50.1	48.1	48.4
28.5	43.2	47.2	43.2	45.5	45.7	50.1	50.1	52.9	50.5	50.5	49.2	47.3	48.4	48.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.4	41.2	44.1	48.3	45.5	47	50.7	53	51.2	48.8	53.4	52.1	51.4	49.6	47.4
28.4	43.4	40.8	42.9	48.5	48.8	48	54.6	52	47.9	53.5	48.2	51.4	49.7	48.6
28.4	45.3	48.2	43.4	43.1	45.1	52	51.9	50.1	48.7	56.6	50.2	49.3	49.8	49.3
28.4	39	47.9	41.6	49.6	50.2	51.6	54.4	52.3	49.3	54.6	53.4	50.1	50.7	50.4
28.4	38.3	43	45.9	49.1	46.9	43.1	54.8	53.3	48.9	56.9	53	51.1	52.7	51.7
28.4	45	49.4	47.9	48.2	44.7	47.7	53.7	51.4	50.8	59.7	49.6	49.4	51.7	49.7
28.4	44.5	46.4	50.4	46.6	45.3	49.9	51.2	54.9	51.3	53.3	51.6	49.6	51.7	50.7
28.4	51.8	50.6	53.3	47.1	50.1	50.8	48.3	53.5	49.5	55	51.2	48.5	50.6	48.9
28.5	51.8	47.3	46.6	49.4	49.9	47.4	53.6	56.1	50.4	53.2	50.4	46.9	50.2	48.2
28.7	47	44.8	45.8	47.6	46	51.2	53.2	52.1	48.2	53.4	51.1	48	49	48.2
28.5	40.3	45.2	46.2	45	51.1	47.9	55.7	52.8	47.6	52.9	49.4	51.1	48.3	47.4
28.3	50.6	48.2	45.4	47.9	48.4	48.5	52.9	51.7	48.2	53	54.4	48.8	48.8	46.5
28.3	40.6	48.8	47.6	42.3	48.4	48	51.5	49.3	52	53.7	49	50	49.4	45.7
28.4	41.7	51.6	37.3	40.7	47.7	49.7	52.4	49.3	53.2	51.7	50.1	52.2	49.6	51.7
28.4	44.3	46	47.7	46.2	49.9	48	52.2	53.7	50.1	60.9	54.8	54.2	50.1	44.7

45.8	43	41.6	39.3	39.3	39.3	40.4	38.5	38.7	38.3	38.1	39.2	37.2	36	34.8	32
44.7	43.8	39.8	38	38.5	37.5	37.3	37.1	37.8	38.7	36.7	37.9	36.1	33.7	33.8	31.4
44.6	42.7	41.5	38.7	38	36.6	37.2	37.8	37.4	39.7	36	35.8	35.6	34.1	33.2	30.7
46.6	41.8	42.6	39.8	38.8	39.1	40.7	38.1	37.6	38.9	39.1	39.3	37.4	36.1	35.9	32.6
46.2	43.6	43.6	40.2	39.4	40.9	42.4	39.2	39.3	39.2	39.4	42	39.7	38.2	37	34.3
49.2	43.5	44.8	39.7	41.2	42.9	44.2	42.7	41.3	39.9	39.6	40.8	40.3	39.8	38.4	35.3
51.9	45.2	45.9	41	42.3	43.8	44.4	44	42.7	41.3	40.4	40.4	38.2	37.2	36.6	34.1
50.4	48	49.7	42.8	44.3	43.5	44.3	42.6	44.2	44.1	41.8	40	37.8	36.6	35.3	33.3
50	49.1	49.9	44.2	43.7	42.8	42.9	42.5	45.4	45.4	43.3	39.4	35	33.2	31.8	29.5
47.1	46.3	48.1	43.8	42	41.1	40.5	39.9	44.1	43.7	42.2	38.1	33.2	31.9	30.7	28.5
47.1	47.7	45.2	42.4	39.7	40.4	38.5	38.6	40.5	41.8	39.4	36.7	33	30.5	28.9	28.5
45.9	44.5	44.1	40.4	40.4	39.3	37.7	37.2	38.8	39.6	37.4	34.8	32.4	29.9	28.4	27.7
45.4	43.3	41.7	38.8	38.1	37.1	36.2	36	36.2	37.2	35.4	33.1	31.3	28.8	27.5	28
45	44.8	39.2	37.9	37.1	35	34.9	34.9	35.2	34.5	33.1	31.6	30.6	28.6	27.6	27.3
47.2	43.5	37.1	37.5	35.9	32.8	33.5	32.8	33.8	33.9	31.6	30	30	28.3	26.7	26.3
49.3	43.3	38.2	36.3	37	34.1	37.1	34.1	33.2	33.8	32.7	31.5	30	28.3	27	26.7
48.9	43.4	38.9	38.9	36.9	35.2	37	35.2	35.3	34.2	33.2	31.1	30.7	30.5	28.4	26.5
48.6	43.9	42.3	40	39.4	37	38.2	37.1	36	34.6	33.6	31.1	30.4	28.7	27.2	27.8
48	43.3	44.3	43.1	42.4	43.4	44.8	43.7	43.7	41.9	38.6	37.6	35.6	32.6	31.2	29.6
46.5	44.8	45.2	41.3	41.2	40.9	40.3	40.7	39.7	39.4	38.4	35.8	33.1	29.4	27.6	27
45.2	41.8	42	41.1	39.6	39.7	40.2	40.9	41.9	41.2	40.7	36.5	31.5	28.3	27	27.1
44	43.2	42.5	41.4	41.2	40.4	41.1	42.6	42.2	40.9	40.4	37.8	33.2	30.9	29.7	27.9
47.6	44.3	45.4	44.7	44	44	41.9	42.8	42.6	40.4	37.9	36.8	33.4	31.7	31	28.6
48.7	44.4	45.6	45.2	41.1	42.4	41.6	42.2	42.7	40.3	37.7	34	31.7	30.2	29.5	27.7
48.2	44.2	46.4	46.2	42.9	42.1	42	41.4	41.9	39.8	38.8	35.1	32.3	31	30.5	29
46.7	42	44.5	46.1	39.5	38	38.4	40.7	39.7	36.5	37.2	32.4	30.4	28.5	27.2	27.5
45	41	41.9	39.9	38.8	36.6	36.1	38.2	38.7	35.6	34.7	31.7	28.6	27.3	26.3	27.3
46.8	41.6	41.3	39	38.5	35.5	35.5	37.3	37	34.7	32.9	30.8	30	28.2	26.8	26.3
45.3	41.9	43.3	39	38.9	35.3	35.7	36.6	38.3	35.4	32.9	30.4	29.2	27.6	26.3	26.3
46.6	41.7	41.2	39	38.4	35.5	35.2	35.9	37.4	35.6	32.7	30.7	29.6	28.3	26.7	27
47.1	42.2	42.6	37.1	37.7	33.9	33.3	35.5	35.8	34.4	32.5	29.7	30.1	28.7	27.2	27.3
45.4	43.1	40.8	36	37.5	33.5	35.6	35.8	36.8	34.9	32.7	30.2	29.5	29.1	27.9	27.1
46.3	45	41.7	37.9	36.6	37.1	35.7	37.7	35.9	34.5	32.7	31.1	30.8	29	27.4	27.4
47.5	44.8	43.3	39.1	38.5	37.3	35.5	39.9	38.3	36.5	34.9	31.8	31.6	30.2	28.1	27.5
45.9	43	41.5	37.6	37.2	36	35.2	36.7	36.5	35.1	33.2	31.1	29.6	28.8	26.6	26.9
45.9	43.7	42	40.4	38.3	35.4	34.5	34.5	35.4	34.1	31.7	30.2	29.6	28.3	27	27.1
46.3	43.9	43.6	40.1	39	35.2	34.5	34.4	35	33.8	31.8	30	30.1	28.5	27.3	28.8
42.6	41.8	42.9	39.2	37	34.3	32.9	33.4	34.4	33	31.3	29.6	29.1	28.1	26.4	26.3
43.8	43.5	44.3	39.2	37.6	32.6	32.2	33.5	33.7	32.8	30.6	28.7	29.2	27.3	26	26.5
44.4	43.1	42	39.4	37.5	32.7	32.3	32.8	33.6	31.7	29.5	28.6	28.9	27.7	26	26.6
45.4	40.9	41.4	38.1	36.1	32.7	32.2	33.4	34.6	32.9	30.1	29.3	29.3	28	26.2	26.7
49.6	43.5	41.7	39.3	36.9	32.2	32.4	32.9	33.4	32.7	31.2	28.5	29.9	27.7	26.1	26.4
47.2	44.3	42.3	40.3	37.4	32.3	31.8	31.9	33.6	32.9	30.2	28.2	29.7	27.8	26.3	26
46	44.7	42	39.1	36.6	31.1	31.9	32.4	32.4	32.2	29.3	27.9	28.7	27.1	25.9	26.4
47.6	44.3	43.6	38.3	36.6	31.7	31.5	32.5	32.9	32.1	28.9	27.4	28.4	27.5	26.3	26.6
44.9	45.3	43.3	38.4	36.9	32.3	32.6	33.4	32.8	32.5	29.1	28.1	29	26.9	25.9	26.4
46.1	43.9	42.7	38.9	36	32.6	32.5	33.8	34	32.5	30	28.6	28.9	27.3	26.2	26.4
45.3	43.1	40.5	37.3	36.5	34.8	35	35.5	36.3	34.8	33.2	29.7	29.6	28	26.6	27.1
46.8	44	41.9	38.3	36.6	37.7	38.1	37	38.1	35.4	33.2	31.4	30.5	29	26.7	27.2
46.5	47	42	37.7	37.1	38.3	38.1	36.6	38.2	40.4	35.6	32.2	31.3	30.2	27.9	27.5
46.1	46.3	41.7	37.9	37	35.9	36.7	34.7	35.6	38.2	32.5	30.1	29.6	28.6	26.9	26.8
46.9	43.1	40.6	38	37.4	34.6	33.5	34	34.8	33.7	31.1	29.3	29	27.9	26.8	26.5
44.7	43.1	41.2	36.9	36.2	32.1	33.5	33.1	33.1	30.8	29.4	27.2	28.2	27.7	24.2	24.9
44	42.3	40	37.5	34.4	34.2	34.8	35.7	34	32	30.9	27.8	28.7	25.8	23.7	22.6
46.3	43.8	41.3	38.5	34.6	35.5	35.9	36	33.8	32	30.1	27.7	25.8	24.1	22.9	22.6
44.9	43.3	40.5	37.7	35.6	36.1	35.7	35.3	34.4	31.1	30.1	27.5	25.8	23	22.3	21.5
44	43.2	38.9	38.6	36.5	35.4	35.8	36.1	33.1	30.9	28.8	26.5	24.2	22.1	21.8	20.9
48	43.4	41.1	37.4	34.6	34.6	35	34.9	32.8	31.3	29.3	26.7	26.5	23.5	23.5	23
46.1	41.9	40.9	40.3	35.8	36.3	36.3	35.7	33.6	31.8	29.5	27.2	25.9	24.3	23.2	22.7
44.2	40.2	39	35.9	34.8	33.8	35.5	35.3	33	31.3	30.5	29.1	25.7	24.3	23.4	22.3
44	41.2	39.4	39.3	35.6	34.9	35.4	34.5	34.4	31.2	29.3	28.3	25.3	23.7	22.8	21.4

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
46.1	40.9	41.9	40.3	36.7	34.7	35.9	35.3	33.5	32.8	30.8	29.3	27.4	25.7	24.4	23.4
45.9	43.5	41.8	41.5	37.8	41.5	40.8	38.5	37.1	35.6	34.7	33.6	31.7	31.2	29	27.8
47.1	43.4	41.3	40.9	39.6	42.5	43.1	41.9	38.2	37.4	36.4	36	34	32.3	30.3	28.8
49.5	44.8	41.9	42	40.5	43.1	41.8	42.2	38.9	37.4	36.3	35.7	34.8	33.3	30.2	28.5
51.3	43.6	41.8	42.5	42.3	46.7	43.5	45.1	41.8	39.9	39.1	37.7	37	35.1	32.2	29.3
54.5	44.2	40.3	41.2	41.2	41.5	39.9	40.2	38.2	36.8	34.5	33.5	32.7	30.9	28.4	26.4
49.3	43.6	40.7	42	40.5	38.9	40.4	39.4	36.8	36.2	34.3	32.3	31.5	29.8	27.7	25.8
46.8	44	38.3	38.9	39.3	37	37.5	37.2	35.6	34.4	31.5	30.4	29.5	28	25.8	23.4
46.4	43.4	38.1	35.8	34.8	34.3	34.9	34.6	33.8	31.7	30.2	28.1	28.4	27.2	25.7	25.3
44.9	40.7	39.9	37	35.1	33.1	34.5	34.2	33.2	31.5	29.2	27.8	28	26.3	24.6	23
45.7	38.8	38.3	37.4	34.5	33.1	33.2	32.9	31.7	30.7	28.7	25.9	25.1	23.3	22.6	22
43.7	39.4	38.5	36.2	34.4	32.1	34.2	33.6	31.5	30.2	28.5	25.8	25	23.6	23.1	22.4
43.4	36.6	38.8	35.6	33.5	30.6	32.3	31.7	30.9	30.1	27.7	25.4	24.1	22.8	22.1	21.2
47.6	46.9	44.5	46.2	51	48.8	44.4	44	42.8	39.2	39.5	36	34.6	33.1	29.7	27
43	38.5	35.8	35.7	33.9	33	32.3	32.7	32	29.9	28.6	26	23.9	22.9	22.4	22.4

29.2	26.9	24.9	24.2	23.7	24.6	54.5	53.8	50.2	51.1	51.7	50.1	65.3
29	27.9	25.4	24.4	23.9	24.7	53.3	53.6	50.2	49.2	53.6	49.8	66
28.4	26.8	25	23.9	24	24.7	51.2	52	50.2	50.6	54	49.8	65.5
30.5	28.3	25.7	24.8	24	24.5	49.7	51.5	49.2	53.5	53.9	51.7	65.7
32.6	29.1	26.6	25.3	24.1	24.6	47	48.8	49.1	52.5	53.2	53.2	65.9
34.2	30.7	27.7	25.5	24	24.5	47.3	48.6	49.4	50.9	52.8	52	64.1
31.7	29.2	26.4	24.8	24	24.6	47.9	50.6	56.1	51.6	51.8	51.9	63.8
30.4	27.6	25.3	24	23.8	24.6	50.4	55.4	55.5	50.8	50.3	50.9	62.7
26.6	24.9	23.6	23.4	23.7	24.7	55	61.6	52.6	52.3	51.4	50.2	63.2
25.9	23.9	23.2	23.2	23.6	24.5	55.2	60	49.9	52	50.7	49.7	65.2
25.9	23.5	23.1	23	23.7	24.6	52.8	55.9	49.7	51.9	49.7	49.8	64.8
24.8	23.4	23.1	23.1	23.6	24.5	50.4	52.8	48.4	49.5	50.3	49.6	64.3
25.5	23.2	22.9	23.2	23.7	24.5	47.3	49.9	49.4	50.2	49.7	49.4	63.3
24.5	23.1	22.9	23.2	23.6	24.6	45.4	47.9	48.1	50.1	48.2	48.5	63.4
23.9	22.8	22.8	23.1	23.5	24.5	46.8	47.9	47.3	51.1	47.4	51.6	64
24.1	22.9	22.8	22.9	23.6	24.6	46.8	48	48.7	50.2	48.4	53	64.2
24.2	23	22.8	23.2	23.8	24.5	48	51.8	48.8	50.3	52	52.6	64
26.4	23.1	23	23.1	23.6	24.7	51.9	50.8	52.6	52.8	51.2	51	64.1
25.7	23	22.8	23	23.6	24.6	51.8	50.6	52.3	51.3	52	51	64.7
24.4	23	22.9	23.1	23.8	24.5	50.2	49.9	50.2	50.6	53.9	49.5	64.6
23.9	22.7	22.8	23	23.8	24.6	48.5	49.4	46.9	51.7	52.9	49.2	64.2
25	23.1	22.7	22.9	23.6	24.5	48.8	46.6	50	54.7	51.6	50.3	63.9
25.4	23.7	23.1	23.1	23.7	24.6	48.8	47.6	50.6	53.9	50	51	62.9
25	23.5	23.1	23	23.6	24.6	48.1	50.7	48	51.5	51.8	51.2	62.9
26	24	22.9	23.2	23.7	24.6	49.9	50	52.7	52	52.5	53.5	63
24.5	23.1	23.2	23	23.7	24.6	50.1	49.6	52.2	50.2	52.4	52.8	64.2
25.4	22.8	22.9	23.1	23.7	24.6	48.7	50.8	52.2	50.2	51.9	50.5	64
24.6	22.6	22.6	23	23.7	24.6	50.5	51.4	51.8	50	49.9	50.8	63.2
24.5	22.8	22.8	23	23.6	24.5	50.5	51.4	49.3	49.8	48.9	50.9	63.1
24.4	22.9	22.8	22.9	23.6	24.6	50.6	48.6	49.6	49.7	48.9	51.5	63.5
24.5	23.1	22.9	23	23.7	24.5	50.3	48.3	49.6	50.6	49	51.1	63.4
24.7	23.3	23	23.1	23.8	24.6	48	48.4	48.1	49.8	49.1	52	63.5
24.3	22.8	22.9	23	23.7	24.6	46.6	48.3	47.1	50	49.1	50.6	63.5
24.8	23.1	22.8	22.9	23.7	24.6	46.1	48.3	46	50	52.3	50.1	63.4
24.1	22.6	22.8	23	23.7	24.6	46.3	46.4	45.6	51.1	52.1	50.5	62.8
24.3	23	22.8	23	23.8	24.6	45.8	45.7	43.3	51.4	50	52.4	62.4
27.4	23	22.8	23	23.7	24.7	45.5	44.5	49.5	51.3	50.8	53	63
24.1	22.8	22.9	23	23.6	24.6	45.8	49.3	49	50.5	52.4	52.2	63.3
24	22.9	22.6	23	23.5	24.4	45.9	49.3	50	49.6	52	50.6	63.6
24	23.1	22.7	23.1	23.6	24.5	47.3	47.5	49.6	50.4	51.6	51.1	63.5
24.2	22.9	22.7	23	23.6	24.5	45.9	45.6	47	50.2	51.6	51.8	62.7
24	22.9	22.6	23	23.8	24.6	44.9	46.1	47	50.7	49.4	50.5	63
24	22.9	22.6	23	23.9	24.6	43.8	46.5	48.5	50.3	48.5	48.2	63.1
23.9	22.7	22.5	22.8	23.7	24.5	44.3	45	48.8	50.4	49.5	49.6	62.3
24.8	22.5	22.6	23	23.7	24.6	43.4	50	49.6	50.4	49.8	49.9	62.5
24	22.8	22.8	23	23.6	24.6	41	48.6	47.6	50.4	52.9	50.5	63.2
23.8	22.8	22.6	23	23.6	24.6	45.3	48.2	45.6	48.5	53.3	49	62.8
25.7	22.9	22.8	23	23.7	24.6	46.9	48.3	47.2	48.1	52.5	48.7	62.6
24.5	22.7	22.6	23.1	23.5	24.6	46	47.4	46.5	48.1	52.2	48.7	62.5
24.2	22.5	22.6	23	23.6	24.6	45.7	46.6	45.4	49.4	53	50	62.5
24.1	22.9	22.9	23	23.7	24.5	44.6	44.1	52.7	48.9	52.6	51.1	62.2
24.2	23.1	23.1	23.2	23.8	24.6	44.4	46.5	52.9	48.4	52.1	50.5	63.2
23	22.1	22.4	22.8	23.7	24.5	44.9	46.2	51.5	48	50.5	50.4	63.5
22.1	21.9	22.3	22.8	23.7	24.6	44.6	50.8	48.2	48.1	50.7	56	63.4
22.7	22.6	22.6	23.2	23.7	24.6	45.1	49.7	46.7	48.1	54.2	55.9	61.3
21.2	21.7	21.9	22.8	23.6	24.7	45.8	47.9	44.6	49.8	53.8	53.1	57.6
20.3	20.7	22	22.6	23.5	24.5	46	45.6	45.4	51.3	51	54.4	58.2
23.7	22.8	22.8	23	23.7	24.6	45.3	42.8	53	54.1	53.8	52.6	58.5
22.3	22.2	22.6	23.1	24	24.7	44.4	47.9	53	53.6	52.2	49.8	57.5
21.6	21.7	22.3	22.9	23.7	24.6	44.4	51.4	50	51.3	51.8	48.8	55.1
20.7	21	21.7	22.7	23.6	24.5	43.8	51.6	48.8	49.9	50.7	50.2	53.1

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
21.9	21.8	21.9	22.8	23.6	24.5	43.8	48.9	48.5	48.1	48.3	50.6	52.7
25.5	25	22.7	22.9	23.8	24.5	43.8	46.5	46.9	48	49.6	50.7	54.9
26.5	25.4	23	23	23.6	24.5	45.8	47.3	45.4	47.5	47.8	51.5	54.1
26.1	25.8	22.9	22.9	23.6	24.5	44	48	43.9	49.3	49.4	52.1	54.5
27	26.8	23.2	23	23.6	24.5	41.7	47.3	45.5	49.4	49.3	51.7	54.9
23.9	23.2	22.2	22.9	23.7	24.6	44.7	48.7	47.4	49.2	47.8	49	54.6
23.9	23.1	22.6	22.8	23.6	24.5	45.7	48.7	50.4	48.2	46.7	49.4	54.1
22	21.7	22	22.8	23.7	24.6	50.4	50.1	52.7	47.7	49.2	50.7	52.6
24.8	24.6	24.1	24	24.6	24.7	51.7	50.1	52.4	48.6	50.1	50.1	53.2
22.5	22	22.4	23.1	23.8	24.5	51.8	48.2	49.8	49.1	49.1	50.8	54.2
21.5	21.7	22	22.6	23.6	24.6	49	47	47.5	47.8	50	50.6	54.9
23.4	22.3	22	22.7	23.5	24.4	49.7	47.6	47	47.7	50.1	49.4	54.5
22.4	21.3	21.8	22.6	23.6	24.6	49.6	48.7	47.5	47.1	49.2	49.6	53.6
24.7	23.4	22.5	22.8	23.7	24.6	46	51.2	46.9	44.7	49.2	50	52.8
23.8	22.4	22	22.6	23.6	24.6	44.1	51.2	45.4	44.2	48.6	48.6	53

58	66.9	57.9	53.6	54.5	52.9	53.7	48	45.6	42.7	39.7	40.8	40.9
58.4	67	57.4	53.2	54.8	52.5	53.5	46.5	44.4	42.3	39.2	40.1	40.2
60.7	66.8	57.9	52.4	54.1	51.4	51.9	45.6	44.2	41.3	39.1	39	38.5
65.9	66.7	58.1	52	52.4	50	51.5	46.3	43.7	42.4	39.5	38.7	38.9
66	65.2	57.6	54.8	52.4	48.9	51.5	46.4	43.7	43.4	40.5	39.4	40.6
63.8	62.8	60.4	54.7	53	50	50.7	48.6	43.8	44.3	40.3	40.9	42.2
61	61.1	62	53.5	51.9	49.5	50.6	51	44.8	45.8	40.8	42	43.5
58.8	57.8	62.2	54.1	51.1	50.9	51.8	51	47.4	48.8	42.2	43.7	43.6
57.8	56.6	62.2	54.8	53.1	51.4	52.2	51	48.6	49.7	43.6	44.1	43.8
56.3	58.3	60.9	52.3	54.3	51.5	51.3	50.1	48.5	49.5	43.9	43.6	42.8
55.8	57.4	60.7	53.5	53.7	52	49.8	48.8	47.7	48.5	44.1	42.7	41.7
54.5	58.6	62.5	52.5	53.5	52.8	49.7	47.8	47.5	46.7	42.8	41.1	40.9
54.6	57.4	63.5	53.5	52.6	52.8	48.5	47	45.9	45.1	41.3	40.9	39.8
53.9	54.7	64.1	59.4	52.1	50.8	48.4	46.3	45	43.3	39.8	39.3	38.2
53.5	52.8	61.3	58.8	51.3	49.9	48.4	46.9	44.6	41.1	38.6	38	36.4
56.4	54.3	59.1	56.1	50.7	49.7	47.5	48.6	44.3	39	37.9	37.2	34.6
56.7	54	58.3	53.7	50.5	49.7	48.1	48.9	44.1	39.1	38.3	37.2	35
57.2	53.6	58.1	51.8	50	49	49.8	49	43.9	41.4	39.5	38.8	36.3
57.9	52.3	57.3	51.6	49.3	48.9	49.5	49.2	44	43.7	42.5	41.8	42.4
57.2	51.7	57.2	52.1	51.9	48.9	50.4	48.2	44.3	45.6	43	42	42.6
56	52.4	57.5	52.5	51.8	49.3	50.4	47.1	44.3	44.2	41.5	41.3	41.3
55.6	52.7	57.1	52	50.9	50.1	49.9	46	43.4	43.1	41.6	41.1	40.7
54.4	53.7	59.3	53.1	51.9	51	50.1	47.1	44.3	44.9	44.1	43.3	43.2
53.1	53.3	59.3	52.3	51.6	52.2	51	48.3	44.6	45.4	45	43.3	43.6
52	53	59.5	52.3	52.3	51.8	52.4	49	44.5	46.1	46	42.8	42.5
53.5	52.8	58.5	51.9	52.9	53.7	52.8	48	44	46.3	46.8	42.8	42.5
54.1	56.6	59.4	50.9	51.6	54.2	52.1	47.2	42.8	45	45.8	41	40
54.5	55.9	59.3	53.3	50.9	53.7	51.6	46.8	42	43.6	43	39.6	38.2
56.2	54.1	58.6	53.6	52.8	53.5	51.3	46.8	42.1	43.2	40.9	39.3	36.8
56	53.8	57.8	52.6	51.7	51.8	51.4	46.5	42	42.8	40	38.7	36.2
55.5	53.6	57.3	52.8	51	50.2	53.2	47	42.4	43	39.3	38.9	35.6
55.6	52.9	57.5	52.7	51	51.1	53.1	47.3	43.2	42.4	38.3	38.1	34.6
56.1	52.5	56.9	52.4	52.4	52.3	51.3	46.4	44.5	41.6	37.5	37.5	36.3
55	52.5	56.9	51.4	52.9	52.4	50	47.4	45	42.8	38.7	38.2	37.1
55.1	52.8	58.7	51.2	51.4	52.9	49.4	47.3	44.7	42.8	38.7	38	37.1
53.4	52	58.1	50.6	50.1	54.1	49.3	46.9	43.9	42.3	39.8	38.2	36.2
53.1	52.7	57.4	52.2	51	53.5	50.8	46.5	44.2	43.4	40.2	38.8	35.9
54.4	51.7	57.5	52.8	51.3	51.4	51.1	46.2	43.5	43.5	40	38.5	35.3
53.9	53.5	57.7	52.9	51.9	50.7	51.3	44.4	43.3	44.2	39.6	37.9	34.7
54.4	54.1	58.9	52	51.6	50.7	50.5	44.4	43.6	43.5	39.5	38.2	33.7
52.9	52	58.9	52	52.1	50.9	50.5	45	43.1	42.9	39.4	37.5	32.9
54.6	51	57.5	51	51.7	50.8	51	48.9	43	42	39.1	37.1	33.1
56	51.8	56.6	51.9	52.2	50.9	51	49.1	44	42.2	40.1	37.6	32.6
55	50.8	57.5	51.8	51.7	50.6	50.9	47.7	44.5	42.8	39.9	37.5	32.4
53.1	51.1	57.4	52.2	51.4	51.2	50.9	48	45.2	43.2	39.4	36.7	31.8
54.4	51.7	57.1	51.5	52.2	51.6	50.5	47.3	45.1	43.4	39	36.9	32.2
56.3	51.7	57	52.2	51.8	50.3	50.5	46.2	45	43.6	39.2	36.9	32.6
56.6	52.2	58.1	51	52.9	50.8	50.9	46	44.3	42.8	38.6	36.6	34.4
54.6	51.1	57.6	54.3	52.9	50.4	51.2	46.6	44	41.9	38.5	37	37.1
54.5	52.1	56.3	55.1	52.4	50.6	51.5	47	46.3	42.2	38.5	36.9	38.5
54.4	51.8	57.1	53.8	51.5	50.9	51.4	46.6	47.1	42.3	38.2	37.4	37.8
55.1	51.5	57.4	52.5	51.1	50.9	51.2	46.9	45.9	41.7	38.3	37.5	36.3
55.4	52.5	57.5	53.4	52.1	50.9	50.7	46.5	44.5	41.6	38	37.3	35.2
56	57.7	57.6	53.4	52	50.3	50.4	45.6	43.5	41	37.7	36.4	34
56.2	56.3	55.8	51.4	51.1	50.4	50	45.8	43.6	41.2	38.3	35.4	35.4
55.6	54	54.5	51.8	52.4	51.3	50.3	45.8	43.7	41.2	38.4	35.6	35.9
56	52	54.4	50.9	52	51.6	49.9	45.6	44	40.9	39.2	36.4	35.9
53.8	48.8	54.2	50.5	52	50.8	50.8	47.4	43.5	40.8	38.1	36	35.7
52.1	49.4	52.2	51	51.3	50.2	50.2	47.3	43.4	41.3	39.6	35.8	36
53.1	49	51.8	51	50.7	49.4	49.7	46.4	42.4	40.7	39.3	35.6	36
53.4	50.3	51.8	50.8	50.1	48.8	48.9	45.2	41.7	39.8	39	35.7	34.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
52.9	50.6	53	51.7	50.4	49.5	48.9	45.7	41.6	41.3	40	36.5	34.9
52.7	49.7	53.7	51.7	51.5	50	49.1	46.3	43.1	41.7	41	37.5	40.2
51.9	49.7	55.9	50.4	50.8	50.1	49.5	46.9	43.6	41.7	41.1	39	41.9
52.4	49.1	55.8	52.9	50.5	50.6	50.3	48.9	44.4	42.1	41.9	40.2	43
53.5	50.1	56.8	53.1	50.9	52.5	51.6	50.5	44.8	42.1	42.3	41.9	45.9
52.4	50.8	59	53.1	50.8	52.2	51.2	53.4	44.5	41.9	42.4	41.6	45.3
54.6	51.2	58.8	51.9	50.5	52.9	50.7	53	44.1	41.4	42.8	41.7	43.3
54.4	50.9	56.3	52.4	49.8	51.8	50.5	50.9	44.3	40.7	41.6	40.7	41
55.6	50.9	55.3	51.6	49	51.3	49.7	48.9	44.2	39.3	39.8	39.7	38.8
55.4	50.5	54.4	51.4	48.1	50.4	49	47.5	43.3	39.8	37.7	37.2	36.6
54	49.2	53.8	50.7	50.3	49.8	48.4	46.3	41.8	39.7	37.9	36.1	34.8
52.9	49.4	54.3	53.7	50.1	49.6	48.2	46	40.2	39	37.1	35.2	33.7
52.1	51.1	54.1	53.5	50.5	49.7	47	44.7	39.8	39.5	37	34.8	32.7
50.6	53	53.4	51.3	51.5	50	51.5	47.4	46.4	44.3	45.8	50.6	48.3
51.7	52.5	57.4	52.6	52.7	50.1	50.9	47	45.4	43.2	44.5	49	46.6

43.2	41	40.2	39.9	39	39.6	37.5	36.2	36	33.4	30.7	28.1
41.7	39.5	39.4	39.2	38.7	39.6	37.4	36.1	35.4	32.8	30	27.9
39.4	38.4	38.5	39.5	37.3	38.4	36.6	34.8	34.4	31.8	29.4	27.6
40.3	38.2	37.8	39.7	38.6	38.9	37.1	35.7	35.5	32.4	30.2	28.1
42	38.9	38.9	39.4	39.2	41	38.9	37.4	36.5	33.7	31.9	28.7
43.5	41.7	40.9	39.7	39.5	41	39.9	39	37.8	34.8	33.5	30.1
44.3	43.3	42.2	40.8	40.1	40.8	39.7	38.8	37.7	34.8	33.5	30.2
44.4	43.2	43.7	43.4	41.4	40.5	38.8	37.9	37	34.3	32.3	29.3
44.5	43	44.8	44.8	42.7	40.5	38.2	37	35.9	33.6	31.1	28.3
43.2	42.5	44.8	44.9	42.8	39.7	36.4	34.9	33.8	31.4	28.8	26.4
41.6	41	44.2	44.1	42.2	38.7	34.6	33.2	32	29.9	27.4	25
39.9	39.5	42.2	42.7	40.7	37.5	33.7	31.7	30.4	28.9	26.2	24.1
38.6	38.4	40.4	41.1	38.9	36.1	32.9	30.7	29.2	28.3	25.9	23.7
37.2	37	38.2	39	36.9	34.3	31.9	29.7	28.3	28.1	25.4	23.5
35.8	35.7	36.5	36.8	34.9	32.7	31	28.9	27.8	27.5	24.8	23.2
36.5	34.2	35	35.2	33.2	31.6	30.6	28.8	27.2	26.8	24.3	23
37.1	35.1	35	34.4	33.2	31.5	30.7	30.1	28.2	26.8	24.3	23
37.9	36.6	35.7	34.6	33.6	31.3	30.6	29.8	27.9	27.7	26.1	23.1
43.7	42.6	42.5	40.8	37.6	36.6	34.7	31.9	30.6	29.3	26.1	23.2
43.7	42.7	42.4	40.8	38.3	36.5	34.6	31.8	30.4	29	25.8	23.2
41.8	41.3	41.7	41	39.9	36.6	33.8	30.4	28.8	27.7	25	23
41.2	42.4	42.1	40.9	40.4	37.3	33.1	30.5	29.2	27.9	24.9	23.1
41.9	42.8	42.5	41	40.1	37.4	33.5	31.4	30.5	28.4	25.3	23.5
41.8	42.7	42.8	40.6	38.9	36.9	33.2	31.3	30.5	28.4	25.2	23.5
42.2	42.4	42.7	40.5	38.8	35.6	32.7	31.1	30.6	28.7	25.7	23.9
41.7	41.7	42.1	39.9	38.4	35.1	32.1	30.7	30	28.6	25.6	23.8
39.8	41	40.9	38	37.8	33.6	31	29.4	28.4	28.1	25.7	23.3
37.8	39.5	39.5	36.6	36	32.3	30	28.4	27.3	27.5	25.1	23
36.8	38.4	38.4	35.7	34.4	31.6	30.1	28.4	27.1	26.8	24.8	22.8
36.2	37.3	38.6	35.9	33.6	30.9	29.6	28.3	26.7	26.9	24.7	23
35.4	36.6	37.7	35.4	33	30.7	30	28.6	27.1	27.2	24.6	23
35.2	35.9	36.8	35.2	32.9	30.3	30.1	29.1	27.8	27.5	24.8	23.3
35.7	37.3	36.7	34.7	32.7	30.9	30.5	29	27.6	27.3	24.5	23.1
35.6	39.3	37.7	35.9	34.2	31.5	31.3	29.7	28	27.5	24.7	23.1
35.9	39.1	37.8	35.9	34.2	31.7	31.3	29.7	27.9	27.5	24.6	23
35.2	37.6	36.8	35.4	33.4	31.1	30.3	29.1	27.3	27.3	24.4	22.9
35	35.9	36.1	34.7	32.5	30.7	30.1	28.8	27.3	28.4	27	23.1
34.6	34.9	35.4	34.2	32.1	30.3	29.9	28.5	27.2	28.2	26.5	23
33.5	34.1	34.8	33.5	31.5	29.8	29.6	28.3	26.7	27.1	25.1	22.9
33.1	33.7	34.3	32.9	31	29.2	29.3	27.7	26.3	26.9	24.5	23.1
32.4	33.7	34.4	32.7	30.2	29.2	29.3	27.9	26.2	26.7	24.3	23
32.7	33.2	34.4	33	30.9	29.2	29.8	28	26.2	26.8	24.3	23.1
32.5	33	33.8	33	31	28.8	29.9	27.9	26.4	26.4	24.2	23
32.3	32.5	33.6	32.8	30.3	28.5	29.7	27.8	26.3	26.4	24.2	23
32	32.6	33	32.7	29.7	28.1	29.1	27.5	26.3	26.7	24.7	22.8
32.3	33.2	33.1	32.5	29.2	28.1	29	27.4	26.2	26.7	24.6	22.8
32.5	33.7	33.6	32.8	29.7	28.5	29.2	27.3	26.2	26.6	24.3	22.9
34.7	35.2	35.9	34.4	32.8	29.4	29.6	27.8	26.4	27	25.4	23
37.4	36.5	37.4	35.1	33.1	30.8	30.2	28.8	26.6	27.3	24.9	22.9
38	36.9	38.3	39.3	34.9	31.7	31	29.8	27.6	27.4	24.7	22.8
38	36.3	37.7	40.2	34.8	31.8	31	29.9	27.7	27.5	24.5	22.8
36.9	35.1	36.2	38	33.2	30.6	30.1	28.9	27.4	27	24.5	23.1
35	34.4	35.4	35.8	32	29.7	29.3	28.2	26.8	26.7	24.3	23
34.7	35	34.6	33.5	31.4	28.8	30.1	28.4	25.6	25.5	23.6	22.7
35.6	35.9	34.1	32.4	30.7	27.9	28.1	26.2	24	23.7	22.8	22.8
36.3	35.8	34.6	32.2	30.7	28.1	27.2	25	23.5	23	22.5	22.3
35.9	36	34	31.5	30.1	27.4	26	23.7	22.6	22	21.7	21.8
36	35.9	33.5	31.3	29.5	27	26.6	23.5	23.4	22.8	23.4	22.7
36	35.7	33.4	31.7	29.6	27.2	26.2	24	23.3	22.9	23.1	22.5
36.1	35.8	33.6	31.7	30.4	28.5	25.9	24.2	23.4	22.7	22.5	22.3
36	35.4	34.2	31.5	30	28.6	25.9	24.2	23.3	22.4	22	21.9

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
35.9	35.3	34.1	32.5	30.6	29.4	27.1	25.4	24.2	23.1	21.8	21.8
39.9	37.9	36.4	34.9	33.9	32.8	30.8	30.2	28.1	26.9	24.7	24.3
42.1	40.7	37.6	36.8	35.7	35	33	31.6	29.6	28.1	25.9	25.1
42.4	41.8	38.6	37.2	36.2	35.5	34.4	32.9	30.1	28.5	26.1	25.7
43.1	44.3	40.9	39.1	38.2	37.1	36.3	34.4	31.5	29.1	26.8	26.6
43	44	40.8	39.1	38.1	37	36.2	34.4	31.5	29	26.6	26.3
41.2	42	39.2	37.7	36.1	35.1	34.2	32.5	29.8	27.5	25.1	24.6
40.7	40.4	37.9	36.7	34.9	33.5	32.7	31	28.6	26.5	24.4	23.7
38.8	38.8	36.6	35.3	33	31.7	30.9	29.1	26.9	25.5	24.4	24.2
36.6	36.6	35.1	33.4	31.4	29.8	29.6	28.2	26.3	25.2	24.5	24.2
35.5	35.3	34	32.3	30.1	28.6	28.7	27.2	25.1	23.8	23.2	22.9
34.5	34	32.8	31.3	29.4	27.1	26.8	25.1	23.8	22.8	23.2	22.4
34.1	33.7	31.8	30.7	28.8	26.4	25.8	24.3	23.4	22.6	23	22.2
44	43.6	42.4	38.8	39	35.5	34.2	32.7	29.3	26.6	24.4	23.3
42.4	42	40.7	37.3	37.4	33.9	32.5	31	27.9	25.5	24.2	22.7

25.4	24.4	23.9	24.6	53.3	52.1	49.1	49.2	49.4	48.6	63.9	55.5	62.5
25.5	24.5	23.9	24.6	51.3	51.5	47.7	47.3	49.5	47.9	65.3	56.8	64.5
25.3	24.3	23.9	24.7	49.7	50.4	47.8	47.9	52.7	48.8	63.9	56.7	64.1
25.6	24.6	24	24.7	47.1	48.9	47.7	49.2	52.7	49.6	63.4	60.8	64.7
26.2	25.1	24	24.6	45.6	47.5	47.1	50.3	51.2	51.5	63.6	63.8	62.8
27.2	25.4	24.1	24.6	45.6	47.1	47.3	49.7	51.7	51.5	63.3	61	60.9
27.2	25.4	24.1	24.6	46.8	47.9	49.1	50.1	50.3	50.5	62.7	58.8	57.8
26.6	25	24	24.7	47	48.6	52.6	49.3	48.4	49.6	62.3	57.8	55.8
25.8	24.4	23.9	24.7	50.2	55.7	49.3	50.1	49.4	48.6	62.6	56	54.5
24.5	23.7	23.8	24.7	52.8	56	49	50.6	49.3	48.3	62.6	55.2	56.7
23.7	23.4	23.7	24.6	50.4	52.8	48.4	49.1	48.3	48.1	64.3	54.6	55.6
23.4	23.2	23.7	24.6	47.4	49.9	47.2	48	48	48.2	62.6	53.4	56.6
23.2	23.2	23.7	24.6	44.6	47.3	47.5	49.1	48.2	47	62.2	53.6	54.7
23.1	23.3	23.7	24.6	43.6	46	46.8	47.9	46.3	46.7	62.7	53.1	52.5
22.9	23.2	23.6	24.6	44.5	46.6	46.6	49.4	45.3	48.2	63	52	51.4
22.9	23.2	23.6	24.6	44.3	46.6	46.8	49	45.2	51.4	63.3	52	51.5
22.9	23.2	23.8	24.6	44	46.4	46.8	48.3	48.4	50.5	63.2	55.6	53.2
23	23.1	23.7	24.7	47.9	49.6	47	48.4	50.7	50	63.3	56.1	51.6
23	23.1	23.7	24.7	50.1	47.3	50.2	50.3	50.5	49.2	63.8	56.1	50.9
23	23.1	23.8	24.6	47	47	46.4	48.6	50.6	48.6	64	56.1	50.5
23	23.1	23.8	24.6	45.7	46.2	44.6	49	51.7	48.4	63.7	54.3	50.8
22.8	23	23.8	24.6	47.8	45.4	46.2	51.6	49.2	48.3	62.9	53.9	52
23	23.1	23.7	24.6	47.7	45.9	47.9	51.2	47.8	49.7	61.8	53.1	52.3
23.1	23.1	23.7	24.6	47.7	47.7	46.4	50	47.6	50.7	61.7	52	52.1
23.1	23.2	23.7	24.6	46.7	47.4	48	49.6	51.4	50.9	62.3	50.7	51.9
23.2	23.1	23.7	24.6	47.9	46.4	51.2	49.4	50.9	50.5	62.4	51.6	51.8
23.1	23.2	23.7	24.6	47.8	49.7	50.5	48.9	49.9	49.3	63.1	53.3	52.7
22.9	23.1	23.7	24.6	47.8	50.8	49.2	48.9	48.9	50.1	62.6	52.7	53.4
22.8	23.1	23.7	24.6	49.5	48.6	48	48.6	47.3	49.6	62.3	53.8	52.5
22.9	23.1	23.7	24.6	49.5	46	48.3	48.2	47.9	49.7	62.9	54.9	51.9
22.9	23	23.7	24.6	48.1	46	48.1	48	47.6	50.7	62.7	54.5	52.6
23	23.1	23.8	24.6	45.8	47.1	46.6	48.4	47.5	50.6	62.7	54.3	51.8
23	23.1	23.7	24.6	45.6	46.4	45.5	47.7	48.1	48.5	62.9	54.6	50.5
23	23	23.7	24.7	45.7	46.4	44.7	48.5	48.1	48.3	62.3	53.5	51.2
22.9	23	23.7	24.6	45	44.4	43.4	48.6	50.1	49	62.2	53.3	51.6
22.9	23	23.7	24.6	44.4	44	42.5	49.2	47.4	49.1	61.9	51.2	50.2
22.9	23.1	23.7	24.7	43	43.7	42.6	49.2	47.4	52	61.8	51.4	51.4
22.9	23.1	23.8	24.6	44.8	44.5	47.4	49.1	49.8	50.6	62.6	52.8	50.5
22.9	23.1	23.7	24.6	44.3	47	47.2	48.3	50.3	48.6	63	51.8	51.1
22.8	23.1	23.7	24.5	45.8	45.1	46.9	48.1	48.8	49	62.7	52.9	52
22.8	23.1	23.7	24.5	44.9	44.8	45.8	48.7	49.4	50.6	62.3	51.2	49.7
22.7	23.1	23.8	24.6	43	45.1	45.2	49.3	46.8	48	62.3	51.7	49.5
22.7	23.1	23.9	24.6	43	44.7	46.5	49	47	46.9	62.1	54.7	50
22.7	23.1	23.8	24.6	43	44	47.1	48.9	48.3	46.4	61.4	52.7	49.4
22.6	23	23.8	24.6	41	44.4	47.6	48.8	48.6	47.9	61.7	52.3	49.2
22.8	23	23.8	24.6	39.4	47.3	45.1	48.5	49	48.8	61.9	52.6	50.7
22.8	23	23.7	24.7	39.1	47.4	44.5	47.5	52	47.2	62.1	54.4	50.4
22.7	23	23.7	24.6	44.6	47.2	45.6	46.1	50.9	46.6	62	54.7	49.9
22.7	23.1	23.7	24.7	44.5	46.6	45.1	46.2	51.6	48.1	61.9	53	49.6
22.7	23	23.6	24.6	44.3	43.1	44.2	47.8	51.8	48.4	62	53.2	51
22.9	23.1	23.7	24.6	44.4	42.7	45.5	47.4	50.7	50.1	61.8	53	50.9
23.1	23.1	23.8	24.7	42.7	43.3	51.5	46.6	49.5	49.2	62.2	52.4	50.5
23	23.1	23.8	24.6	42.7	44.1	48.2	46.7	48.7	48.8	62.7	54.2	50.7
22.7	23	23.8	24.6	42.5	45.1	46.3	47	48.7	49.7	61.4	53.9	51.6
22.7	23.2	23.8	24.6	41.6	47.6	44.6	46.2	50.2	53.1	57.6	54.4	54
22.5	23	23.7	24.7	44.2	45.6	42.6	48.2	50.8	51.3	54.9	53.4	51.9
22.1	22.9	23.6	24.7	44.5	42.8	42.6	46.9	50	51.4	55.4	53.1	48.7
22.8	23	23.7	24.6	43.5	41.3	45.3	51.3	50.9	49.8	57.3	52.2	48.2
22.7	23.1	23.9	24.7	43.1	41.1	50	50.9	50.8	48	55	50.9	48.1
22.7	23.1	23.9	24.7	43.4	46.8	48.8	49.9	50.8	47.1	53.1	51.6	47.3
22.4	23	23.8	24.6	42.9	48.9	46	47.7	48.3	49	51.5	52.6	48.4

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
22	22.9	23.7	24.6	42.2	46.5	46.2	46	46.9	49.1	51.2	51.5	49
22.5	22.9	23.8	24.6	40.5	43.9	44.6	46.1	47.8	49.2	51.8	51.9	48.5
22.8	23	23.8	24.5	43.9	43.9	44	45.2	46.4	49.1	52.3	50.7	47.8
22.9	22.9	23.7	24.6	41.7	46.8	42.5	45.4	45.9	50.4	52.4	50.7	48.2
23.1	23.1	23.7	24.5	39.8	45.2	43	47.6	47.8	48.4	54.5	51.6	48.3
23.1	22.9	23.7	24.6	38.3	45.5	44.4	47.2	45.9	47.7	53.7	51.6	48.2
22.7	22.9	23.7	24.6	44.2	47.3	46.9	47.1	45.4	47.5	52.6	51.2	50.1
22.6	22.9	23.7	24.6	44.2	46.3	48.3	46.6	45.5	49.3	50.5	53.5	49.9
23.5	23.6	24.3	24.7	49.4	48.2	49.8	47.1	48.8	48	50.5	53.3	49.1
23.5	23.6	24.2	24.7	49	46.2	47.5	47.8	47.2	48.1	52.5	53.4	49.2
22.9	23.2	24	24.6	45.6	45.3	46.6	46	47	49.1	52.8	52.9	48.2
22.3	22.8	23.7	24.6	45.1	45.6	45.8	46.4	48.9	48.8	53.6	52.2	47.3
22.1	22.8	23.7	24.5	46	46.4	45.6	44.7	48.5	48.1	52.4	50.6	48.2
22.6	22.8	23.7	24.6	43.7	47.9	43.5	42.6	47.6	48	51.6	49.2	50.9
22.3	22.7	23.7	24.6	43.1	50	43.6	42.8	47.5	47.9	52.5	49.8	51.8

56.9	52.4	52.3	51.6	51.6	46.6	44	41.3	39	39.8	39.8	41.8	39.5
56.6	51.5	53.6	51.4	51.9	45.4	43.8	40.7	38.2	39	38.6	39.4	38.1
56	51.5	52.4	49.9	50.7	44.8	43.1	40.8	38.3	38.4	37.3	38.1	37.8
57.3	51.4	51.8	48.9	50.5	45	42.2	40.9	38.6	38.2	37	37.9	37.7
56.8	50.5	51.5	46.9	50.2	45.5	42.2	42.1	39.1	38.4	38.6	39.6	38
57.2	53.1	51.5	47.9	49.6	46.4	42.4	43.2	39.4	38.9	40.2	41.7	39
60.2	52.2	50.5	48.7	48.9	48.7	43.5	44	39.2	40.9	41.8	43	41.7
61.4	51.9	50.2	48.7	50.6	50.2	44.9	45.7	40.9	41.7	43.3	44.1	42.7
60.4	52.2	50.5	50.5	51.3	50.1	47	48.8	42.1	43.6	42.8	43.2	42.5
59.1	51.6	52.8	50.9	49.6	48.5	47.1	48.5	43.4	42.7	41.8	41.6	41
58.9	52.2	52.8	50.2	49	47.4	46.9	46.7	42.7	41.1	40.8	39.9	39.6
58.6	51.7	52.4	50.7	48.3	46.1	45.9	45.1	41.3	40.3	39.8	38.6	38.3
62.4	50.5	52	50.5	47.6	45.9	44.4	43.3	39.8	39.2	38.2	37.2	36.9
61.3	53.8	50.9	49.9	47.5	45.3	44.1	41.1	38.6	38	36.4	35.8	35.6
58.7	56.1	50.1	49	47.4	45.3	43.8	39	37.9	36.8	34.5	34.4	34
58	53.6	49.7	48.7	46.7	46.7	43.3	38.3	37	36.2	34.1	34.4	33.9
57.4	51.8	49.6	48.8	46.8	47.6	43.3	38.5	37.1	36.7	34.3	36.5	34.1
57.1	50.5	49.2	47.9	47.9	48	43.2	38.7	38.2	37.1	35	36.7	35
56.8	50.1	48.3	47.8	48.6	47.9	43.2	41.3	39.4	38.8	36.3	37.4	36.1
56.3	51.4	48.5	47.8	48.6	47.1	43.2	43.7	41.5	41.1	41.3	41.6	41.3
56.3	51.3	50.9	48.1	49.5	46	42.8	42.9	40.9	40.3	40.3	40.7	40.9
56.2	50.9	50.3	47.4	48.3	44.8	42.5	42.4	41	40.2	39.6	40.1	40.8
56.2	51.1	50.3	50.1	48.2	44.6	42.7	43	41.3	41	40.8	41.1	42.2
58.2	51.1	50.2	50.3	49	47	43.9	44.7	44.1	42	42.4	41.5	42.3
58.4	51	49.5	50.8	51	48	43.9	45.3	44.5	41.9	41.8	41.6	41.7
57.6	50.9	51.7	50.4	51.4	47.2	42.8	44.8	45.8	40.9	40	39.8	41
57.5	49.6	50.3	52.8	50.6	45.9	41.8	43.2	43	39.6	38.2	37.8	39.4
58.6	48.9	50.2	52.7	50.6	45.3	41.2	42.2	40.9	38.9	36.7	36.3	38.3
57.1	52.5	50.2	51.8	50.5	45.7	41.5	42.1	39.8	38.7	35.9	36	37.3
56.8	51.3	50	49.8	50.6	45.5	41.5	41.8	39.1	38.2	35.6	35.4	36.4
56.4	51.1	49.3	49.6	51.2	46.1	41.5	42	38	37.9	34.5	34.2	35.8
56.6	50.9	49.6	49.7	51.3	45.7	42.1	41.2	36.8	37.5	33.9	34.2	35.5
55.3	50.9	49.5	51.1	49.7	45.2	42.6	41.1	36.7	36.9	34	35.2	35.8
55.1	50.3	51.4	51.2	48.2	46.2	44.4	41.5	37.5	36.8	36.2	35.1	37.3
56.2	50	49.4	51.8	48.2	46.1	43.5	41.9	37.6	37.3	36.2	35.2	37.6
56.8	49	48.8	51.8	48	45.5	43.4	41.6	37.9	37.3	35.7	34.7	35.9
56.3	49.6	49	51.1	48.9	45.6	43.5	41.7	39.5	38	35.3	34.6	35
56.3	51.7	50.3	50.3	50.4	44.2	42.5	43	39.4	37.6	34.7	33.5	34.1
55.6	52	50.1	49.9	50.3	43.7	42.4	43	39	36.9	33.4	32.6	33.7
57.6	50.6	50.4	49.9	50	43.9	42.3	42.4	39.1	37.5	32.8	32.3	33.1
57.5	51.1	50.9	50.2	49.7	44.1	41.8	41.9	38.5	36.5	32.5	31.8	33.1
56.6	49.7	50.6	49.8	50	45.1	41.5	41.4	38.4	36.6	32.4	32.2	32.9
54.8	50.4	51.4	49.9	50.2	47.8	43	41.8	39.2	36.9	32.1	31.9	32.3
54.8	50.1	51.1	49.9	49.6	46.7	43.4	41.8	39.3	36.6	31.5	31.8	32.2
56	50.5	50.1	49.5	50.1	46.3	44	41.8	38.6	36.4	31.4	31.5	32.2
56.3	50.6	50.7	50.1	49.6	45.8	43.9	42.9	38.3	36.3	31.6	31.5	32.2
55.4	51	50.8	49.3	49.3	45.6	44.1	42.5	38.5	36.1	31.9	32	33.1
55.2	49.9	50.8	49.8	49.2	45.4	43	41.3	37.6	35.9	32.4	32.1	33.4
55.6	49.8	51.9	48.6	50.3	45.6	43	40.9	37.7	36.4	34.6	34.7	35.3
55.6	53.7	51.4	49.1	51	46	43.8	41.5	37.6	36.4	37.2	37.5	36.2
55.9	51.9	50.4	50	50.5	46	46	41.7	37.3	36.7	36.3	36.9	35.2
56.8	51.7	50	50.3	50.2	45.9	44.3	40.9	37.8	36.7	35.2	35	34.4
56.4	51.7	50.1	50	49.9	45.3	43.4	40.7	37.2	36.4	33.5	34.2	33.6
55.7	51.4	51.1	49.7	49.5	44.4	42.7	40.4	36.9	35	33.5	33.9	33.7
54.2	49.7	50.6	49.6	48.9	44.5	42.7	40.3	37.3	34.6	33.9	34.6	35
53.6	49.5	50.8	49.6	49	45.1	42.7	40.5	37.7	34.7	35.3	35.4	35.2
52.7	49.7	51.1	50.6	48.8	44.3	43.1	39.7	38.1	35.4	35.3	35	35.2
52.2	49.7	50.7	49.5	49.7	44.3	43	39.6	37.6	35.2	34.9	35.3	35.1
50.8	49.6	49.8	48.9	49.3	46.4	42.3	40.3	37.6	35.1	35	35.4	35.3
50.5	50	49.6	48.4	48.8	45	41	39.6	37.5	34.8	34.6	35.6	35.3
51	49.6	48.5	47.7	48.2	44.2	40.7	39.1	37.2	35.2	34.5	35.4	34.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
50.5	50	48.5	48.8	47.9	44	40.9	39.4	39	35.5	34.5	35.2	34.9
52.7	49.9	50.4	49	48.2	44.9	41.3	41.1	39.5	36.2	34.8	35.8	35.1
53.4	48.8	49.6	49.4	48.2	46	42.2	41.1	40.5	37.3	40.1	39.9	38.1
54.8	50.5	49.5	49.2	48.1	47.1	43.7	41	41.1	38.7	41.6	41.8	40.8
54.3	52.4	50.2	50.1	50	48.5	43.7	41.7	41.3	40.2	43.1	41.8	41.7
56.8	50.8	49.4	51.3	50.2	50.5	43.7	40.6	41	40.9	43.3	41.1	42
56.1	50.9	49.1	51.6	50.2	51	43.3	40.6	41.5	40.6	41	40.5	40.5
55.3	50.6	48.9	50.6	49	48.8	43.6	39.3	39.8	39.7	38.9	38.8	38.8
54.2	50.4	47.8	50.4	48.5	47.5	43.3	38.6	37.7	37.3	36.6	36.7	36.6
53.2	50.5	47.4	49.2	48.4	45.9	41.8	38.1	37.1	35.9	34.8	35.5	35.3
52	49.8	48.2	48.5	47.6	45.5	40.2	38.9	37.1	35.2	33.7	34.2	33.9
53	49.9	48.8	48.6	46.8	44.3	39.5	38.4	36.4	34.4	32.7	34.1	33.6
53.2	51.2	49.4	48.1	46	43.6	38	38.6	35.9	34	31.3	33.1	32.6
52.2	50	49	48.8	45.7	43.4	37.7	37.7	35.2	33.6	31.3	32.9	32.4
52.4	50.6	51.8	49.8	49.7	46	44.2	41.9	43.1	47.4	45	40.9	40.6

39.4	38.9	38.4	39	37.1	35.8	35.4	32.7	29.8	27.4	25.1	24.2
38.4	38.7	37.3	38.5	36.6	34.7	34.4	31.8	29.4	27.5	25.2	24.3
37.8	38.5	36.5	36.9	36	34.3	33.7	31.1	28.8	27.1	25	24.1
37.5	39	36.5	36.7	36	34.4	33.8	31.1	28.5	27	25	24
37.7	39	38.6	39	37.2	35.7	35.5	32.4	30.2	28.1	25.6	24.6
38.4	39	39	40.7	38.9	37.5	36.5	33.7	31.8	28.7	26.2	25
40.9	39.6	39.2	40.5	38.9	37.8	37	34.3	32.3	29.3	26.6	25
42	40.8	40.1	39.8	38.2	37	36	33.7	31.1	28.3	25.8	24.4
43.6	43.4	41.5	39.7	36.5	34.9	33.8	31.4	28.8	26.4	24.5	23.7
44.2	44.1	42.2	38.7	34.6	33.2	32.1	29.8	27.2	25	23.7	23.4
42.2	42.7	40.7	37.5	33.7	31.7	30.4	28.9	26.3	24.1	23.3	23.2
40.4	41.1	38.9	36.1	32.9	30.7	29.3	28.2	25.4	23.7	23.2	23.1
38.2	39	37	34.3	31.9	29.6	28.2	28	25	23.4	23	23.1
36.5	36.8	34.9	32.7	31	28.9	27.8	27.5	24.8	23.2	22.9	23.1
35.1	35.2	33.2	31.3	30.4	28.4	27	26.8	24.3	23	22.8	23.1
34	34.4	32.8	31.2	30.1	28.4	27	26.6	24.1	22.8	22.7	23
34	34.1	32.9	31.1	30.1	28.3	27	26.5	24	22.9	22.8	23
34.9	34.1	33	31.1	30.4	29.2	27.5	26.7	24.2	22.8	22.8	23
35.5	34.3	33.5	31.1	30.4	29	27.3	27.3	25.4	22.9	22.8	23
40.8	39.8	37.6	36	33.7	30.4	28.8	27.8	24.9	23	22.8	23
40.6	40	38.3	35.7	32.4	29.2	27.8	27.3	24.3	22.7	22.7	23
41.5	40.6	39.9	36.6	32.1	29.2	27.7	27.3	24.2	22.6	22.6	22.9
41.9	40.6	38.8	36.9	33	30.5	29.2	27.8	24.8	23	22.8	22.9
42.4	40.3	38.1	35.3	32.3	30.6	29.7	27.8	24.9	23.3	22.9	23
42	39.9	38.2	35.1	32.1	30.7	29.9	28	25.2	23.6	22.9	23
40.7	38	37.8	33.6	31	29.4	28.4	27.8	24.9	23.3	23	23
39.5	36.7	36	32.4	29.6	28.2	27.2	27.5	24.7	23	22.9	23
38.1	35.6	34.4	31.4	29.5	27.8	26.8	26.8	24.7	22.7	22.7	22.9
38	35.4	33.4	30.7	29.4	27.9	26.6	26.4	24.6	22.7	22.7	23
37.6	35.4	32.9	30.6	29.3	27.9	26.5	26.5	24.4	22.7	22.7	22.9
36.5	34.7	32.6	30.1	29.6	28.2	26.6	26.8	24.4	22.9	22.8	22.9
36.4	34.7	32.5	30	29.6	28.6	27.1	26.9	24.5	23.1	22.8	23
36.1	34.3	32.5	29.9	29.7	28.7	27.2	26.9	24.2	22.8	22.8	22.9
36.3	34.7	32.7	30.9	30.5	29	27.6	27.2	24.5	22.9	22.8	22.9
36.9	35.4	33.5	31.2	30.2	29.1	27.1	27.1	24.2	22.7	22.8	22.9
36	34.5	32.5	30.6	29.8	28.6	27	27	24.2	22.8	22.7	23
35.4	34.1	32	30.2	29.8	28.5	26.9	27.1	24.2	22.7	22.7	23
34.8	33.4	31.5	29.8	29.4	28.3	26.7	27.1	25.1	22.9	22.8	23
34.2	32.9	30.9	29.1	29.2	27.6	26.3	26.8	24.5	22.8	22.7	23
33.7	32.2	30	28.8	29	27.6	26.1	26.6	24.1	22.9	22.7	23
33.8	32.3	30	28.7	28.9	27.6	26	26.5	24	22.8	22.6	23
33.7	32.6	29.9	28.8	29.1	27.7	26.1	26.4	24	22.8	22.6	22.9
33.4	32.5	30.3	28.4	29.7	27.7	26.1	26.1	23.9	22.9	22.6	23
32.8	32.4	29.7	28.1	29.1	27.3	25.9	26.2	23.9	22.8	22.5	22.9
32.7	32.1	29.1	27.6	28.6	27.3	26	26.1	23.8	22.6	22.6	22.9
32.7	32.1	29	27.7	28.5	27	26	26.4	24.2	22.6	22.5	22.9
32.8	32.4	29.1	28	28.8	27.1	26	26.3	23.9	22.7	22.6	22.9
33.5	32.4	29.6	28.4	28.8	27.2	26	26.2	23.8	22.7	22.6	22.9
36	34.5	32.8	29.4	29.5	27.8	26.4	26.7	24.6	22.7	22.6	22.9
37.3	35	33	30.8	30.3	28.8	26.6	27	24.3	22.6	22.6	22.9
36.3	38.1	33.2	30.6	30	28.9	27	27	24.2	22.6	22.7	23
35.3	35.8	32	29.7	29.4	28.2	26.8	26.6	24.1	22.7	22.8	22.9
34.1	33.4	30.5	28.2	28.6	27.8	25.1	25.4	23.3	22.3	22.5	22.9
33.9	32.5	30.4	27.7	28.1	26.2	24.1	23.7	22.3	21.9	22.3	22.8
33.5	32	30.1	27.5	26.8	25	23.4	23	22	21.8	22.2	22.8
34	31.5	29.9	27.5	26	23.8	22.6	22	21.6	21.8	22.1	22.9
33.5	31.1	29.3	26.8	25	22.8	22.1	21.3	20.8	21.2	22	22.7
32.9	30.9	28.8	26.6	24.6	22.5	21.9	21	20.9	21.1	21.8	22.7
33	31.2	29.3	26.8	25.9	23.4	23.1	22.5	22.5	22.2	22.6	22.9
33.1	31.3	29.6	27.1	25.7	24	23.1	22.3	22	21.9	22.4	22.9
33	31	29.5	27.8	25.5	23.9	22.9	21.7	21.2	21.4	22	22.8

NM2 KWAQN 1020 El Centro Street. South Pasadena. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
33.6	31.4	29.6	28	25.4	23.9	22.8	21.7	21.1	21.2	21.9	22.8
33.8	32.5	30.6	29.5	27.1	25.4	24.2	23.1	21.8	21.8	22	22.8
36.4	35	34	32.9	30.9	30.2	28.1	26.9	24.7	24.4	22.5	22.9
37.5	36.1	35.5	34.6	32.9	31.4	29.3	27.9	25.6	24.6	22.6	22.8
38.7	37.3	36.2	35.5	34.3	32.9	30.1	28.5	26.1	25.7	22.9	22.9
39.2	37.6	36.1	35	34.2	32.5	29.8	27.5	25.1	24.6	22.6	22.9
37.9	36.7	34.9	33.5	32.7	31	28.6	26.5	24.4	23.7	22.4	22.8
36.6	35.4	33	31.7	30.9	29.2	26.9	24.7	23	22.5	22.2	22.8
35.1	33.4	31.4	29.8	29.6	27.9	26.1	24.4	22.8	22.4	22.3	22.8
34	32.3	30.1	28.7	28.5	27	25.2	23.8	23.3	22.9	22.8	23.2
32.7	31.3	29.2	27.1	26.8	25.2	23.8	22.8	22.2	22.2	22.3	22.8
31.8	30.6	28.8	26.4	25.8	24.3	23.2	22.4	22.2	22.1	22.1	22.7
31.2	30.2	28	25.7	24.8	23.4	22.6	21.8	22.5	21.7	21.9	22.6
31.1	30.3	27.9	25.6	24.5	23.1	22.4	21.7	22.8	21.6	21.9	22.6
39.3	36	36	32.6	31.1	29.7	26.7	24.7	23.8	22.6	22.2	22.7

23.8	24.6	0.9	No	No
23.8	24.6	-0.1	No	No
23.9	24.6	-0.1	No	No
23.9	24.5	0.2	No	No
23.9	24.6	0.1	No	No
24	24.6	0.7	No	No
24	24.5	0.2	No	No
23.8	24.6	0.2	No	No
23.8	24.6	0	No	No
23.6	24.5	0.9	No	No
23.6	24.5	0.6	No	No
23.6	24.5	0.8	No	No
23.6	24.5	0.8	No	No
23.6	24.5	0.4	No	No
23.5	24.5	0.6	No	No
23.5	24.5	0.3	No	No
23.6	24.5	0	No	No
23.6	24.6	0.1	No	No
23.6	24.6	4.6	No	No
23.6	24.5	2.8	No	No
23.8	24.5	1.1	No	No
23.6	24.5	0.7	No	No
23.6	24.5	0.6	No	No
23.6	24.6	0	No	No
23.5	24.6	1.7	No	No
23.6	24.5	0.7	No	No
23.7	24.6	1.4	No	No
23.6	24.5	0.3	No	No
23.7	24.5	0.1	No	No
23.6	24.5	0.2	No	No
23.7	24.6	0.7	No	No
23.6	24.5	0	No	No
23.7	24.6	-0.1	No	No
23.6	24.6	0.3	No	No
23.6	24.5	0.8	No	No
23.7	24.6	0.6	No	No
23.7	24.6	1.7	No	No
23.6	24.6	0.2	No	No
23.6	24.5	0.1	No	No
23.6	24.5	0.3	No	No
23.6	24.5	0.8	No	No
23.6	24.5	2.1	No	No
23.7	24.5	0.5	No	No
23.7	24.5	0.7	No	No
23.7	24.5	0.6	No	No
23.7	24.5	0.2	No	No
23.6	24.6	0.8	No	No
23.6	24.6	-0.2	No	No
23.6	24.6	-0.1	No	No
23.6	24.5	0.5	No	No
23.6	24.5	2.6	No	No
23.7	24.6	3.5	No	No
23.7	24.5	0.5	No	No
23.7	24.5	0.7	No	No
23.6	24.5	2.8	No	No
23.6	24.6	0.6	No	No
23.5	24.6	0.7	No	No
23.5	24.5	0.3	No	No
23.6	24.6	1.1	No	No
23.8	24.6	0	No	No
23.6	24.5	0.7	No	No

NM2 KWAQN 1020 El Centro Street. South Pasadena. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.6	24.5	0.4	No	No	
23.6	24.5	0.4	No	No	
23.6	24.5	0.7	No	No	
23.6	24.5	-0.2	No	No	
23.6	24.5	0.8	No	No	
23.6	24.5	1.5	No	No	
23.6	24.5	0.7	No	No	
23.6	24.5	0.6	No	No	
23.7	24.6	0.2	No	No	
24	24.6	1.1	No	No	
23.7	24.5	0.8	No	No	
23.6	24.4	1.5	No	No	
23.5	24.4	0.4	No	No	
23.6	24.5	19.9	No	No	
23.6	24.6	19	No	No	

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
1	Calibration Change	11/19/2021	1:54:21 PM															
2	Calibration Change	11/19/2021	1:54:39 PM															
3	Run	11/19/2021	1:54:57 PM															
4		11/19/2021	1:54:57 PM	50.5	61.5	56.9	55.4	89.5	11.4	54.2	52.8	58.6	59.3	56.8	54.8	44.6	41.1	44
5		11/19/2021	1:54:58 PM	49.1	60.7	55.3	52.5	89.5	12.7	51.6	53.7	58.3	57.8	56.2	54.0	44.2	40.4	39.7
6		11/19/2021	1:54:59 PM	48.9	61.5	52.5	50.6	89.5	14.8	50.7	51.6	56.4	58	57.1	52.8	44.6	41.1	38.1
7		11/19/2021	1:55:00 PM	49.9	65.1	50.5	50.0	89.6	12.9	49.8	50.8	63	58.3	57.1	54.0	46.6	41	39.8
8		11/19/2021	1:55:01 PM	50.5	68.6	51.3	50.1	89.5	11.8	49.1	54.2	58.4	58	58.1	54.9	45.5	41.4	42.7
9		11/19/2021	1:55:02 PM	48.9	61.5	50.0	49.3	89.5	12.8	49.9	53.8	57.5	56.7	56.6	51.5	46.6	39.5	37.6
10		11/19/2021	1:55:03 PM	50.4	71.1	50.3	49.6	89.6	12.2	48.9	54.7	58	56.8	58.3	51.6	47.3	41.5	41.6
11		11/19/2021	1:55:04 PM	48.3	60.7	50.1	48.9	89.6	12.4	52.1	54.4	57.6	57.8	56	50.7	43.4	41.7	40.5
12		11/19/2021	1:55:05 PM	47.5	59.7	48.9	48.2	89.6	13	51.6	55.2	58.1	56.3	54.8	49.9	42	39.2	40.5
13		11/19/2021	1:55:06 PM	47.7	60.7	48.2	47.8	89.6	13.6	49.4	54.7	57	57.5	55.5	49.9	43.8	39.4	38.9
14		11/19/2021	1:55:07 PM	52.9	65.1	51.9	48.0	89.5	8.5	45.0	56.1	56.1	57.2	56.9	49.0	43.1	41.7	49.8
15		11/19/2021	1:55:08 PM	54.4	65.1	53.9	52.0	89.6	7.3	47.5	53.2	56.7	57.8	56	49.0	43.1	41.3	52.4
16		11/19/2021	1:55:09 PM	47.9	64.5	53.6	51.1	89.6	13.9	51.8	55.1	57.9	60.2	54.2	50.2	43.2	41.3	39.3
17		11/19/2021	1:55:10 PM	49.4	63.2	51.0	50.1	89.6	13.1	53.1	54.1	56.9	60.8	55.7	50.5	44.5	42.5	41.6
18		11/19/2021	1:55:11 PM	50.4	68.3	50.4	50.0	89.5	11.5	51.0	52.8	57.1	58	55.3	50.7	45.1	43.5	43.4
19		11/19/2021	1:55:12 PM	49.1	70.7	50.3	49.6	89.6	12.8	50.3	52.6	58	59.7	57	50.2	44.2	43.4	40.4
20		11/19/2021	1:55:13 PM	49.4	60.7	49.6	49.4	89.6	12.7	51.0	56.4	56.4	59.8	56	51.1	44.4	43.4	41.1
21		11/19/2021	1:55:14 PM	49.6	61.5	49.6	49.4	89.6	12.4	49.7	55.8	59.1	58.7	57	50.9	43.5	42.5	41.6
22		11/19/2021	1:55:15 PM	48.5	60.7	49.7	48.9	89.6	13	50.5	55.5	57	58.2	56.4	49.6	44.4	43.5	39.6
23		11/19/2021	1:55:16 PM	48.2	60.7	48.9	48.5	89.6	12.5	49.9	54.1	57.7	58.7	54.9	48.8	43.7	43.2	39.6
24		11/19/2021	1:55:17 PM	47.6	58.4	48.5	47.8	89.5	13.2	50.0	56.6	58.2	57.3	54.6	49.0	42.1	42.6	39.8
25		11/19/2021	1:55:18 PM	47.4	62.1	47.8	47.3	89.6	13.6	50.5	55.9	59.2	57.7	54.1	48.1	41.4	43.1	38.4
26		11/19/2021	1:55:19 PM	47.8	58.4	47.9	47.7	89.7	12	49.3	56.2	58.8	58	53.3	47.7	41.6	42.3	40.6
27		11/19/2021	1:55:20 PM	47.1	58.4	47.8	47.3	89.6	12.7	55.6	53.7	55.9	56.8	53.5	47.2	40.7	40.9	40.6
28		11/19/2021	1:55:21 PM	46.7	59.7	47.5	46.9	89.5	13.7	52.9	55.6	56.6	58.9	53.7	47.0	41.8	40.4	39.1
29		11/19/2021	1:55:22 PM	47.9	71.7	47.8	46.9	89.7	12.5	52.0	57.8	56.3	57.1	52.1	45.8	41.4	40.4	41.6
30		11/19/2021	1:55:23 PM	48.0	75.7	48.2	47.2	89.7	12	49.4	54.7	57.6	57.6	52.3	46.2	41.3	41.9	40.6
31		11/19/2021	1:55:24 PM	55.5	84.8	55.1	47.5	89.6	5.3	53.0	50.9	58.7	57.1	51.9	45.6	48.2	49.9	49.7
32		11/19/2021	1:55:25 PM	53.0	87.2	54.9	52.6	89.6	8.4	55.9	54.9	57.6	57.5	53.2	46.3	44.1	43.4	47.9
33		11/19/2021	1:55:26 PM	50.8	69.5	54.1	52.4	89.6	10.5	52.2	53.7	57.1	59.7	53	47.9	43.8	43.5	44.9
34		11/19/2021	1:55:27 PM	48.3	61.5	52.5	50.3	89.7	11.6	48.4	52.4	56.9	57.7	52.2	49.2	42.1	40.3	41.7
35		11/19/2021	1:55:28 PM	48.5	67.1	50.3	49.2	89.7	11.5	48.3	54.7	57.1	56.3	52.6	48.0	40.8	40.1	41
36		11/19/2021	1:55:29 PM	48.0	58.4	49.2	48.5	89.8	11.5	52.1	53.4	56.7	56.6	51.1	45.3	40.5	40.1	42.3
37		11/19/2021	1:55:30 PM	48.1	63.2	48.5	47.9	89.7	11.4	48.1	53.3	57.1	57.3	51.2	45.5	40.4	39.6	43.3
38		11/19/2021	1:55:31 PM	48.9	64.8	49.2	48.2	89.6	11.6	49.9	52	55.8	58	52	45.6	43.6	39.6	43.8
39		11/19/2021	1:55:32 PM	49.1	60.7	49.3	48.7	89.6	10.3	49.6	55.8	57.7	57.3	51.8	45.0	40.8	38.3	44.8
40		11/19/2021	1:55:33 PM	48.0	68.1	48.8	47.7	89.8	12	54.7	53.7	57.2	58.1	52.7	46.0	44.2	41.9	40.8
41		11/19/2021	1:55:34 PM	48.2	69.9	48.7	48.0	89.6	11.9	52.7	53.7	55.9	57.7	53.5	46.9	40.9	38.6	42.9
42		11/19/2021	1:55:35 PM	48.0	60.7	48.8	48.0	89.6	10.8	54.5	53.3	56.5	56.6	51.5	46.9	42.2	39.9	43
43		11/19/2021	1:55:36 PM	47.2	59.7	48.0	47.5	89.6	13.3	53.5	52.6	55.5	56.6	51.8	47.3	43	40.4	40.2
44		11/19/2021	1:55:37 PM	48.2	59.7	48.0	47.3	89.6	12.7	55.3	51.9	60.1	56	51.3	46.4	41.4	42	42
45		11/19/2021	1:55:38 PM	48.9	61.5	48.6	48.0	89.7	11.9	52.5	54.7	58	58.8	51.5	46.4	42.5	41.7	43.1
46		11/19/2021	1:55:39 PM	48.5	59.7	48.6	48.5	90.0	11.8	55.3	58.2	60.7	57	51.2	48.4	44.4	43.3	41.4
47		11/19/2021	1:55:40 PM	52.5	81.8	51.9	48.6	89.7	8.5	45.0	60.5	57.8	57.3	51.3	47.4	46.6	48	47.3
48		11/19/2021	1:55:41 PM	48.9	62.1	51.6	50.1	90.0	11.2	60.1	52.8	60.2	55.8	53.4	48.3	44.7	44.2	41.2
49		11/19/2021	1:55:42 PM	49.2	71.7	50.1	49.3	89.7	11	58.5	52.6	58.7	57.1	51.9	47.2	43.8	44.3	42.4
50		11/19/2021	1:55:43 PM	48.8	69.7	49.6	49.1	90.1	11.3	55.8	55	58.9	56.8	51.1	47.1	43.9	43.6	43
51		11/19/2021	1:55:44 PM	53.5	82.5	52.8	49.1	89.7	7.5	53.9	55.3	57.1	57.5	50.3	47.3	46.2	46.7	47.8
52		11/19/2021	1:55:45 PM	49.6	73.4	52.5	50.6	89.8	12.6	56.5	55.9	58.3	57.6	52.1	47.8	43.9	43.1	42.7
53		11/19/2021	1:55:46 PM	49.4	72.5	51.1	50.0	89.6	13.7	57.7	54.3	61.6	57.2	54.1	46.8	44	43.9	42.7
54		11/19/2021	1:55:47 PM	49.9	77.8	51.2	49.6	89.8	12.5	53.7	59.6	60.4	62.2	54.1	47.7	43.7	44.1	44.5
55		11/19/2021	1:55:48 PM	47.9	58.4	49.6	48.6	89.8	15.5	55.1	60.1	58.9	60.7	58.1	46.9	43.5	41.8	39.8
56		11/19/2021	1:55:49 PM	47.5	59.7	48.6	48.0	89.8	14.9	63.3	54.1	59	60	54.4	47.4	43.4	42.2	39.4
57		11/19/2021	1:55:50 PM	48.6	60.7	48.4	47.9	90.1	14.9	49.6	55.7	59.8	62.4	52.9	48.2	43.7	43.3	40.7
58		11/19/2021	1:55:51 PM	50.2	67.3	49.8	48.5	89.7	13.3	51.2	55.1	59	60.5	55.4	48.6	43.8	44.2	43.8
59		11/19/2021	1:55:52 PM	49.7	62.1	49.9	49.4	90.0	15.6	53.2	53.6	60.3	63.3	53.7	50.3	44.7	43.5	42.4
60		11/19/2021	1:55:53 PM	50.5	67.1	50.3	49.8	90.0	13.7	50.2	51.2	64.1	60.5	52.1	51.4	44.5	44.5	43.5
61		11/19/2021	1:55:54 PM	50.8	70.9	50.9	50.2	90.0	13.5	49.6	54	63.5	61.3	54.5	49.0	45.2	43.9	43.6
62		11/19/2021	1:55:55 PM	57.4	81.4	56.9	50.1	90.0	7.2	47.0	55.7	62.1	62.3	53.8	48.1	49.2	51.1	51.4
63		11/19/2021	1:55:56 PM	49.9	67.7	56.7	53.9	90.1	12.8	48.5	52.3	61.2	60.6	52.7	47.6	43.2	42.7	43.7
64		11/19/2021	1:55:57 PM	49.5	68.9	53.8	51.6	89.8	11.9	51.4	54.9	59.9	60.8	52.3	47.9	42.5	42.3	41.8
65		11/19/2021	1:55:58 PM	48.0	66.0	51.5	49.7	90.1	13.9	49.4	53.3	58.4	60.3	50	47.0	43	40.8	41.3
66		11/19/2021	1:55:59 PM	47.0	58.4	49.7	48.2	90.0	16	51.5	52.4	60.2	60.7	50.7	46.5	42.1	40	40.1
67		11/19/2021	1:56:00 PM	46.9	58.4	48.2	47.4	90.0	16.9	49.6	55.8	59.2	62.5	51.3	46.4	42.1	39.9	39.4
68		11/19/2021	1:56:01 PM	47.1	65.4	47.4	47.0	90.0	17.1	50.5	52.8	56.7	64.4	52	46.6	42.8	41	39.2
69		11/19/2021	1:56:02 PM	48.2	67.3	47.8	47.3	89.8	14.5	49.7	52.6	62.5	60.3	52	47.3	43.1	41	41.5
70		11/19/2021	1:56:03 PM	47.8	71.2	48.0	47.6	90.1	13.7	53.7	57.7	59.7	60.2	52.2	46.6	42.3	40.6	41.3
71		11/19/2021	1:56:04 PM	50.1	81.7	49.9	47.7	90.0	13.7	55.1	57.3	59.8	62.3	52	47.6	43.6	43.2	40.9
72		11/19/2021	1:56:05 PM	50.4	77.8	50.4	49.1	90.1	16.4	53.5	56.1	60.8	62.2	52.5	48.6	46.5	44.2	42.8
73		11/19/2021	1:56:06 PM	48.4	59.7	49.5	48.8	90.0	13.6	49.9	62.4	68.1	59.3	51.8	48.8	45.3	43	39.8
74		11/19/2021	1:56:07 PM	49.6	68.3	49.5	48.6	90.1	11.5	59.8	55	60.6	59.4	52.4	48.9	45.1	44.8	41.9
75		11/19/2021	1:56:08 PM	50.7	71.1	50.3	49.5	90.0	12.3	51.1	51.8	60.3	58.9	54.4	51.5	45.6	45.4	42.4
76		11/19/2021	1:56:09 PM	52.5	83.6	52.4	50.2	90.1	11.5	50.9	55.4	60.4	60.8	54.6	52.1	47.6	47	46.2
77		11/19/2021	1:56:10 PM	50.5	62.1	51.7	51.1	90.1	13.3	51.4	57.5	59	62.2	54	51.5	46.4	45.9	42
78		11/19/2021	1:56:11 PM	50.3	61.5	51.1	50.6	90.1	12.3	53.0	56.2	60.7	60.5	54.3	50.1	45.9	45.3	42.6
79		11/19/2021	1:56:12 PM	50.0	60.7	50.6	50.2	90.0	13.5	51.5	56.3	62.6	58	54.4	49.5	45.7	45	42.3
80		11/19/2021	1:56:13 PM	50.9	64.1	50.8	50.3	90.1	15.2	50.4	57.8	63.8	60.7	53.9	50.5	47.1	46	43.6
81		11/19/2021	1:56:14 PM	50.1	61.5	50.8	50.3	90.1	14.6	55.5	56.7	66.5	61.8	53.2	49.5	46.1	45.2	42.2
82		11/19/2021	1:56:15 PM	50.6	62.1	50.5	50.2	90.1	14.4	51.0	57.6	62.6	63.9	53.8	49.1	46.7	45.9	42.8
83		11/19/2021	1:56:16 PM	53.5	66.0	52.9	50.6	90.2	13.5	52.9	57.2	62.8	63	54.9	52.4	51.1	48.4	43.8
84		11/19/2021	1:56:17 PM	54.4	67.5	53.8	53.1	90.1	12.3	49.9	60.9	62.9	66.2	57	58.8	52.8	48.1	43.1
85		11/19/2021	1:56:18 PM	53.9	67.3	54.3	53.6	90.1	13.5	48.2	62.2	62.2	65.5	57.7	52.7	50.7	48.8	46
86		11/19/2021	1:56:19 PM	53.7	66.9	53.8	53.4	90.1	14.6	58.7	65.6	60.8	64.5	60.9	54.0	50.4	48.1	44.4
87		11/19/2021	1:56:20 PM	54.7	66.7	54.4	53.8	90.0	14.9	56.3	67.7	63.4	67.8	63.6	54.5	51.2	49.7	45.4
88		11/19/2021	1:56:21 PM	55.5	69.9	55.7	54.4	90.1	13.9	61.8	62.1	62.7	66.7	64	56.0	54.7	50.6	43.3
89		11/19/2021	1:56:22 PM	49.0	61.5	54.7	52.0	90.1	14.5	59.6	57.8	66.3	64.6	55.3	48.7	46.4	44.1	40.3
90		11/19/2021	1:56:23 PM	48.5	60.7	51.9	50.1	90.2	14.1	50.6	53.6	61.1	61.3	53.3	46.1	45.5	43.5	41.3
91		11/19/2021	1:56:24 PM	46.9	60.7	50.1	48.3	90.1	14.7	51.8	55.4	60.2	59.2	52.7	46.0	43.3	40.6	39.7
92		11/19/2021	1:56:25 PM	47.6	67.5	48.9	47.7	90.1	17.7	48.8	56.2	62.8	60.6	54.2	46.3	44.5	41.1	40.1
93		11/19/2021	1:56:26 PM	45.5	56.7	47.7	46.4	90.1	18.5	50.8	69.3	63.3	57.9	54.1	44.9	41.3	39.1	38.1
94		11/19/2021	1:56:27 PM	49.0	77.6	48.4	46.2	90.1	15.8	55.3	58	66.4	60.2	54.3	47.5	44.3	41.2	42.1
95		11/19/2021	1:56:28 PM	48.5	60.7	48.4	48.0	90.1	13.8	50.0	58.9	64.6	60.8	53.8	48.3	45.6	40.1	40.7
96		11/19/2021	1:56:29 PM	47.5	60.7	48.4	47.8	90.1	14.4	52.7	54.3	59.8	59.4	53.3	46.0	43.7	40	40.8
97		11/19/2021	1:56:30 PM	47.0	59.7	48.0	47.2	90.1	14.5	53.8	57.4	59.4	58.8	53.9	46.2	42.1	39.2	40.9
98		11/19/2021	1:56:31 PM	45.3	56.7	47.2	46.1	90.1	16.4	53.9	58.2	61	58.7	53.7	45.2	41.5	39.3	37.3
99		11/19/2021	1:56:32 PM	46.1	59.7	46.2	46.0	90.2	14.3	52.1	56.9	61.6	56.8	54	45.8	42.7	40.2	38.3

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
100		11/19/2021	1:56:33 PM	47.2	58.4	46.9	46.2	90.1	13.6	52.7	57.1	58.1	58.4	54.5	47.9	43.6	42	38.9
101		11/19/2021	1:56:34 PM	48.0	58.4	47.7	46.9	90.1	12.3	49.2	53.1	58.8	58.1	53.6	47.5	44	42.5	40.6
102		11/19/2021	1:56:35 PM	50.4	64.5	49.8	47.7	90.1	10.5	47.2	55.2	57.1	57.8	52.3	48.8	45.8	45.6	43.3
103		11/19/2021	1:56:36 PM	51.9	62.7	51.2	49.9	90.2	10.7	48.9	55	59.9	58.9	54.3	51.6	48	47.2	44.1
104		11/19/2021	1:56:37 PM	55.1	68.9	54.2	51.2	90.1	9.3	52.5	54.3	61.3	59.9	56.7	54.1	49.8	51.3	47.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
39.2	28.3	28.8	56.9	57.1	60.6	59.9	57.9	56	46.8	54.5	44.3	41.5
36.3	28.1	28.3	55.5	55.7	59.9	59.9	57.6	55.5	46.2	52.5	43.6	40.5
34.2	28.6	28.5	53.7	54.9	59.3	58.8	57.1	54.8	45.1	48.7	41.5	38.2
36.8	29.2	28.6	51.9	52.7	62.1	58.7	57.3	54.1	46.2	45.5	40	37
38	31.7	29.6	51	53.7	62.1	58.7	57.9	55.7	47.2	43.3	41.9	37.7
35.5	29	28.8	50.9	53.8	59.9	57.8	57.7	54	46.4	42	41.4	37.4
40.9	34.6	29.7	49.8	55.3	58.9	57.3	58	52.9	47.2	41.7	41.1	39.6
37.7	28.5	28.3	51.8	54.6	59.1	58.2	57.9	51.9	47	42.2	41.1	39.5
36.4	27.2	28.4	52.7	55.9	58.3	57.4	56.5	51.2	44.9	41.1	40.9	38.4
35.4	27.5	28.5	51.3	55.4	58.3	57.7	55.8	50.6	43.9	40.2	40.6	37.3
41.5	32.4	29.8	50.5	55.7	57.6	58.1	56.5	50	43.8	41	48.6	40.1
37.6	29.5	28.7	48.2	55.7	57	57.9	56.6	49.5	43.3	41.3	51.6	40.1
35.7	28.3	28.6	51	55.3	57.8	59.6	56.2	50	43.3	41.4	51.3	38.5
38.2	30.3	28.7	52.4	55.1	57.5	60.5	55.8	50.7	44.2	42	47.6	38.2
41	30.6	28.7	52.6	54.4	57.4	60.6	56	50.6	45	43	44.9	40.3
37.4	30.1	28.8	51.4	53.6	58.1	60.2	56.7	50.6	45.1	43.6	44	40.5
37.7	28	28.5	51.4	55.5	57.5	59.8	56.8	51.3	44.8	43.3	42	38.3
40.4	28.5	28.5	51	56.1	58.7	59.8	56.9	50.9	44.4	43.2	41.9	39.9
34.3	27.7	28.6	50.9	56.6	58.6	59.3	57.5	50.9	44.4	43.3	41.9	39.6
36.9	28.1	28.8	51	55.6	58.3	58.7	56.4	50	44.3	43.5	40.4	37.3
33.6	27.3	28.5	50.9	56.4	58.4	58.9	55.4	49.6	43.9	43.2	40.3	37.2
33.9	27.3	28.8	50.8	56.6	59.7	58	54.8	48.9	42.8	43.3	39.7	35.4
37.4	29.1	29	50.2	56.8	59.2	58.4	54.3	48.4	42	43.6	40.3	36.7
36.8	30.3	29.2	55	56.2	58.5	58.1	53.7	48.1	41.8	42.5	40.7	37.1
36.2	29.1	28.6	54.7	56.2	57.2	58.8	53.9	47.7	41.8	41.6	40.6	37
39.4	32.2	29	53.9	57.3	57.4	58.8	53.9	47	42	41.2	41	38.5
39.9	33.9	29.4	52.9	57.3	57.5	58.6	52.8	46.5	41.4	42	41.2	40
45.7	40.9	33.1	53.3	55.5	58.4	57.9	52.5	46.3	48	49.5	49.4	45.5
46.2	42	37.8	55.3	54.6	59	57.6	52.9	46.3	47.8	49.4	49.6	47
43.1	39.6	33.3	55.1	54.9	58.2	59.3	53.4	47.5	46	46.8	48.8	46.4
39.4	32.6	29.9	53.4	54	57.8	59.6	52.8	48.7	44.6	45.2	47	44.7
41.6	39.5	31.9	50.7	54.7	57.4	58.2	53	48.9	43.2	42.8	44.5	42.5
40.4	31.9	28.5	51.9	54.2	57.5	57.5	52.5	48.1	41.8	41.3	42.9	41.7
40.1	28	28.4	51.8	53.8	57.3	57.7	51.7	46.5	41.1	40.7	43.4	40.9
41.2	29	28.4	50.1	53.7	57.3	57.7	52.1	46.2	43.5	40.2	44.2	41.4
41.8	28.4	28.6	50.9	55.2	57.5	57.6	52.1	45.8	43.1	39.8	44.9	41.7
38.4	31.4	29.4	53.8	55	57.4	58	52.6	45.8	44.3	41.6	44.1	41.3
39.2	29.3	28.6	53.3	54.4	57.4	58	53.3	46.6	44.2	41.6	43	40.1
39.6	28.1	28.5	54	53.8	57	57.8	53.1	46.9	43	40.8	43.6	40
36.4	30.9	28.5	54.1	53.8	56.7	57.3	52.4	47.3	42.9	40.2	42.7	39.3
39.2	29.9	28.4	55.3	52.9	59	57.4	51.8	47.4	42.6	41.5	42	39.1
41.2	30.8	28.7	54.5	54.3	59.2	58.7	51.8	46.9	42.4	41.7	42.8	40.8
37.2	28.6	28.4	55.1	57.7	60.1	57.5	51.9	47.9	43.9	42.9	42.7	40.3
41.2	33.7	29.3	54.4	60.8	60	57.9	51.5	47.7	45.9	47.2	46.9	41.3
37	29.5	28.8	59.1	58.5	60.2	57.3	52.9	48.1	46	46.9	46.2	40.5
38.1	29.3	28.7	59	56	59.6	57	52.8	48	45.2	45.6	43.8	39
38.7	29.2	28.7	58.4	55.1	59.4	57.2	52.5	47.6	44.4	44.7	43.6	38.8
44.9	41.1	33.7	57.2	55.6	59	57.8	51.5	47.5	45.8	45.9	47.1	44
41	31.2	29	56.6	56.2	58.8	58	51.8	47.6	45.4	45.8	46.8	43.8
39.6	29.9	28.8	58.2	55.9	60.7	57.5	53.8	47.7	44.5	44.8	45	42.6
39.7	30.3	28.5	56.9	59.1	61.1	60.9	54.1	47.6	44.6	45.2	45.5	41.8
34.2	27.1	28.3	55.6	61.1	60.5	61.1	57.1	47.5	43.8	43.7	43.3	39.7
34.3	28.1	28.3	62.9	58.9	59.7	61	57.2	47.4	43.7	42.6	41.6	37.2
34.5	27.9	28.7	60.4	56.7	60.6	62	55.2	47.9	43.7	43.1	40.7	35.6
39.9	30.1	28.7	56.6	56.1	59.9	62.2	55.2	48.5	43.8	44	43.1	39.1
39.1	28.7	28.4	54	55.9	60.2	62.9	55.1	49.9	44.4	43.8	43.2	39.4
41.5	30.6	28.6	53.7	54.9	63.3	62.3	53.9	51.1	44.6	44.3	43.6	40.9
42.6	39.7	34	51.6	54.1	64	61.4	54.1	50.9	45.1	44.8	43.8	42.4
48.9	49.7	46.5	50.3	55.6	63.2	62.1	54.1	49.9	48.8	50.7	50.9	48.5
41.4	37.6	33.8	49.6	55	62.6	62.4	54	48.8	48.8	50.5	50.8	48.4
42.6	39.5	33.8	50.6	54.7	61.8	61.6	53.2	48.1	46.2	47.4	47.8	45.5
39.3	33.1	29.5	50.4	54.8	60.7	61.1	52.6	48	44.2	44.8	45	43.7
36	27.5	28.4	51.6	53.7	60.1	61	51.3	47.5	43.6	42.7	43.1	41.5
36.4	28	28.4	51.1	55.6	60.1	62.3	51.4	46.9	42.8	41.2	41.3	38.8
36.3	30.1	28.7	50.7	55	59.7	63.8	51.7	46.8	42.8	40.9	40.3	37.4
39.3	31.7	29	50.3	53.9	61.6	63.6	52.1	47.2	43	41.1	40.8	38.8
39.8	31.2	28.6	53	56.9	62	61.8	52.4	47	43	40.9	41.3	39.9
43.3	34.9	30.5	54.8	58.2	60.6	62.3	52.2	47.4	43.3	42.5	41.8	43.6
40.6	33	30.3	54.4	57.3	60.9	62.6	52.7	48.4	46.2	44.1	42.6	42.6
35.4	32	29.8	54.1	61.4	67.5	62.3	52.4	48.8	45.4	43.3	41.7	40.5
38.3	32.2	29	59	61.1	65.5	60.7	52.7	48.9	45.4	44.4	41.7	38.8
38.4	32	28.9	58.7	57.9	63.1	59.9	53.8	50.9	45.6	45.1	42.5	39.1
38.6	32.4	29.4	55.4	55.7	62.1	60.8	54.6	51.9	47.2	46.8	46.2	39.4
34.7	27.7	28.4	53.4	57.6	60.8	61.8	54.2	51.6	46.9	46.4	45	38.1
38.5	31	28.4	53.4	56.6	61.2	61.8	54.4	51.7	46.7	46.2	43.6	38.1
37.3	28.2	28.4	53	56.9	62	60.9	54.5	50.6	46.2	45.7	43	38.3
36.1	29.3	28.4	52.5	57.9	63.3	60.8	54.5	50.6	46.9	45.8	43.7	37.4
36.2	29.6	28.4	55.4	57.9	65.6	61.5	54.3	50.2	46.8	46	43.8	36.9
37.9	28.7	28.6	55	57.3	65.8	63.4	54	49.9	46.7	45.7	42.9	37.7
40.3	30.3	28.6	54.4	58.4	64.3	63.8	54.7	52	50.5	47.8	43.6	39.5
38.3	30	28.6	52.4	60.3	63.5	65.5	56.2	57.2	52	48	43.5	39.3
42.3	37.9	29.6	51.1	62	63.3	65.6	57.5	56.9	51.9	48.7	45.6	42.2
38.2	31.3	28.5	57.3	64.5	62.8	65.6	60.4	54.7	51.1	48.4	44.8	40.8
40.1	30.9	28.5	57.4	67.1	63	67.4	62.8	55.1	51.2	49.3	45.4	40.1
38.7	29.8	28.5	61.2	66.5	63.1	67.2	64.9	55.8	54.5	50.6	45	39.8
35.1	27.9	28.5	61.2	63.8	65.5	67.1	62.8	55.3	52.9	49.8	44	39
35.8	27.5	28.3	59.2	61.1	65.5	65.3	59.6	52.3	49.9	47	42	37
36.4	28.5	28.4	55.7	57.9	63.2	63.1	56.7	49.5	47.7	45.1	41.6	36.8
35.5	28.2	28.4	53.7	56.8	62.9	61.7	54.8	47.8	46.5	43.4	40.4	36.3
31.1	27	28.3	51.5	68.7	63.8	60.8	54.6	46.7	44.3	41.5	40.5	35.6
39.1	34.1	29.7	54.7	66.4	65.7	60	54.5	47	44.4	41.2	41.2	38
39.3	29.1	28.5	54.2	63.1	65.9	60.7	54.2	47.9	45.2	40.8	41.2	38.8
37.5	29.3	28.4	52.7	60.8	64.9	60.6	54.4	47.8	45.2	40.6	41.1	38.7
35.9	27.2	28.4	53.8	57.9	62.6	59.9	54	46.8	44.2	40.1	41.8	38.1
31.5	26.5	28.3	54.7	59.1	61.6	59.5	53.8	46.5	43	39.7	40.5	36.6
31.9	26.2	28.4	53.7	57.7	62.7	58.8	54.2	45.8	42.6	40	39.1	34.3

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000

31.9	27.1	28.4	53.5	57.9	61.2	58.5	54.8	47.5	43.4	41.5	38.8	32.7
35.2	27.1	28.3	52.8	56.8	59.5	58.5	54.4	47.5	43.8	42.2	40.2	34.6
37.9	29.9	28.4	50.3	55.5	59	58.2	53.5	48.5	45.3	45	42.7	37.4
39.9	31.2	28.8	49.4	55.5	59.5	58.9	54.1	50.8	47.2	46.5	43.7	39.2
41.1	31.1	28.6	51.5	55.5	61.1	59.8	56	53.5	49	50.3	46.4	40.5

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
33.3	29.1	55.5	55.8	59.8	59.4	57.5	55.4	46.2	52.5	43.5	40.6	32
31.9	29	53.4	54.6	58.7	58.6	56.6	54.5	44.9	48.7	41.5	38.3	30
30.3	28.6	51.8	52.7	57.2	57.9	56.6	53.4	44.7	45.5	39.7	36.1	28.9
29.6	28.6	49.9	51.4	57.8	58	56.9	53	44.2	43.3	39.4	35.6	28.6
31.4	29.5	49.5	51.3	60	57.8	57	53.8	45.4	42.1	39.8	36.7	29
31.2	29.4	49.3	52.4	58.5	56.9	56.9	52.8	45	40.6	39.6	36.1	30
34.2	30	49.1	53.6	58.1	56.7	56.9	51.9	46.1	40.3	39.6	36.6	29.9
32.7	29.3	49	53.4	57.7	57.2	56.5	51.1	45	41.2	40.4	38.4	30.5
30.5	28.7	51.3	54.5	57.2	56.6	55.5	50.3	43.4	40	40.2	37.3	28.8
28.8	28.5	49.7	54.3	57.2	55.8	55.1	50	43.5	39.7	39.3	35.8	27.8
31.4	29.5	47.6	54.4	56.4	56.9	55.6	49.5	43.1	39.8	39.9	36.5	28.2
31.4	29.5	47.3	54.2	56.3	57.3	56.1	48.9	43	40.7	48.7	38.6	30.2
30.3	29	47.3	53.5	56.4	57.4	54.9	49.1	43	41	47.6	36.5	28.9
30.6	29	50.3	54.4	56.8	59.4	54.7	50	43	41.3	44.9	36.9	29.1
30.8	28.7	51.4	53.2	56.6	58.9	55.3	50	43.8	42.1	44	37.8	29.3
31.3	28.9	50.5	52.1	56.7	58.9	55.2	50.1	44.4	43	42	38.3	30.1
30.1	28.8	50.3	53.1	56.7	58.8	55.9	50.4	44.3	43.1	41.1	37.3	29
29	28.7	50.2	54.5	56.7	58.5	56	50.7	43.8	42.7	41.3	38.2	28.7
29.1	28.7	49.2	55.4	56.9	58.3	56.4	50	43.8	42.9	40.4	37.1	28
28.3	28.8	50	54.5	57.6	58.2	55.3	49.3	43.9	43.2	39.9	36.4	27.4
28.3	28.8	49.7	54.4	57	57.7	54.8	48.9	42.8	42.8	39.7	35.4	27.6
27.6	28.8	49.6	55.6	58.5	57.2	54.3	48.4	41.9	42.1	38.9	34.4	27.2
28.9	29	49.6	55.4	58.5	57.2	53.7	47.9	41.7	42.6	38.6	34.4	27.3
29.8	29.3	49.4	54.4	56.9	56.9	53.3	47.4	41.1	41.7	40.3	36.6	28.3
29.7	29.2	53.2	54.9	56.2	57.2	53.3	47	41.1	40.9	39.5	36.1	29.3
32.1	29.1	52.8	54.4	56.3	57.7	52.7	46.3	41.1	40.5	39.5	36.3	29.3
33.9	29.4	51	55.6	56	57.4	52.3	46	41.1	40.4	40.1	37.8	30.2
40.3	32.3	49.4	53.1	57.1	57	52	45.6	41	41.2	40.1	38.4	32.6
42.4	37.6	53.5	53.1	57.7	56.6	52.1	45.9	45.8	46.8	46.6	43.2	38.7
41.8	37	53.3	53.8	57.2	57.3	52.6	45.9	44.6	45	46.7	44.7	40
40.8	35	50.7	52.9	56.4	58.2	52.3	47.5	43.2	42.8	44.5	42.1	37.5
39.5	32.9	49.3	52.9	56.5	57.1	52.3	48.1	41.7	41.3	42.6	41.4	36.5
38.7	32.1	49.3	53.3	56.7	56.7	51.7	46.6	40.9	40.6	42.1	40.9	35.7
35.7	30.2	49.8	52.3	56.1	56.6	51.3	46	40.6	40	42.1	40.1	32.6
32.6	29.1	49.4	51.9	56	57	51.1	45.6	40.3	39.1	43.1	40.6	30.6
30.6	28.7	49.5	53.2	56	57.2	51.8	45.1	41.9	39	43.6	40.3	29.4
31.2	29.3	49.6	53.8	56.6	57.2	51.8	45.2	41.4	38.7	42	39.7	29.2
31.3	29.2	52.3	53.6	56.4	57.2	52.4	45.7	42.4	39.8	42.3	39.2	29.7
29.9	28.8	52.1	53	56.4	56.9	52.1	46.4	42.1	39.6	42.8	39.3	28.8
30.8	28.6	53.3	52.8	55.7	56	51.8	46.3	42.1	39.6	41.3	37.6	28.3
30.8	28.5	53.8	52	55.6	56.3	51.3	46.5	42	40.2	40.6	37.4	30.1
30.7	28.7	53.1	52.6	58.1	56.5	51.5	46.4	41.8	41.1	41.8	39.2	30.2
30.5	28.6	53.6	54.3	57.9	56.8	51.1	46.7	42.4	41.7	41.9	38.5	29.3
33.5	29.3	51	58.2	58.9	56.8	50.7	47.2	43.9	42.8	41.6	38	29
32.7	29.1	50.9	56	58.8	56.2	51.3	47.7	45.1	45.4	43.8	38.7	31
31	28.9	57.3	54	58.8	55.9	52.1	47.4	44.3	44.6	42.8	38.2	29.9
29.9	28.8	56.8	52.8	58.7	56.2	51.4	47.1	44	43.9	42.7	37.8	29.3
39.6	32.8	55.4	54.4	58	56.7	50.8	47.1	44	44	42.8	38.5	29.5
38.9	32.1	54.7	55.2	57.6	57.1	50.7	47.2	44.4	43.9	44.5	41.6	35.5
35.9	30.5	56.3	54.6	58.2	56.8	51.7	47	44	44.1	43.6	40.8	33.2
33.6	29.6	55.2	54.6	59.7	57.5	53.5	46.9	43.7	43.7	43.4	39.7	31.3
31.2	28.9	54.2	59	59.4	59.8	54.1	46.9	43.5	42.5	41.6	37.2	29.2
29.2	28.5	55.6	56.4	58.9	60.4	55.3	47	43.3	42.2	40.3	35.6	28.5
28.5	28.7	56.7	55.7	59.2	60.3	54	47.3	43.4	42.3	40	34.9	27.7
29.8	28.8	54	55.3	58.9	60.8	54	47.9	43.4	43.1	40.7	35	28.2
29.8	28.8	53.2	53.7	58.5	60.8	53.9	48.3	43.8	43.4	42.1	38.3	29
30.5	28.7	51.6	52.8	60.2	61.2	52.7	49.8	44.2	43.7	42.7	39.4	29.1
38.6	32.9	50.4	53	63	60.9	52.7	49.8	44.4	43.9	43	40.5	30.3
49	45.9	48.4	53.1	62.4	61.1	53.7	48.8	44.5	43.2	42.9	41.1	39
48.9	45.7	48.3	53.5	61.8	61.1	53.1	48	46.2	47.4	47.9	45.5	45.2
45.2	42	48.2	53.1	60.7	60.7	52.6	47.7	44.2	44.8	45	43.8	42.5
42.5	38.7	49.1	53.7	59.3	60.2	51.3	47.3	43.6	42.7	43.1	41.6	39.1
39	35.3	50.4	52.5	59.3	60	50.9	46.8	42.7	41.2	41.3	38.9	35.3
35.2	32.3	49.9	52.9	59.2	60.6	50.9	46.4	42.3	40.4	40.2	37.4	32.2
32.2	30.3	49.4	53.7	57.8	62.4	51	46.4	42.2	40.4	39.5	36	30.5
32.3	29.5	49.3	52.6	57.7	61.6	51.6	46.6	42.5	40.7	39.5	37.1	31.3
32.3	29.1	49.7	53.2	60.2	60.6	51.8	46.4	42.5	40.6	40.6	38	30.9
34.5	30.1	53.1	56.4	59.6	60.1	51.8	46.7	42.5	40.7	40.7	38.8	30.8
34.2	30.5	53.2	55.9	59.8	61.8	51.8	47.4	43.2	42.2	40.8	40.5	32.8
33	30.3	51.9	55.7	60	60.6	51.8	48.3	45	43	40.6	38	32.2
33	29.8	51.4	57.9	63.1	59.9	52	48.3	44.8	42.9	40.3	37.2	30.4
32.9	29.4	55.4	55	61.5	59	52.1	48.7	45.3	44.4	41.7	38.3	32
33.3	29.5	53	53.9	60.8	58.9	53.9	51	45.6	45	41.9	37.9	31.9
32.2	29.2	51.2	55.9	59.6	60.7	53.9	51.2	46.4	45.9	43.3	36.5	30
31.2	28.7	52.4	55.3	59.7	60.6	53.7	50.6	46.1	45.6	43	36.6	29
31.2	28.5	51.3	55.6	59.5	59.2	53.9	49.9	45.7	45.2	42.5	37.4	29.6
29.8	28.4	50.8	56.2	62	58.9	53.9	50	45.9	45.3	42.2	36.3	29.2
29.8	28.4	48.8	56.6	63.1	60.3	53.5	49.7	46.1	45.3	42.7	35.9	28.8
29.7	28.5	53	56.5	63.7	61.2	53.3	49.4	46.3	45.2	42.5	36.2	29.1
30	28.6	52.4	56.8	63.1	62.6	53.6	49.3	46.6	45.8	42.9	37.8	29.1
30.1	28.6	51.1	56.4	62.1	63	54.5	52.1	50.6	47.6	43.1	38.4	29.9
37.2	29.4	49.3	60.3	62.1	64.7	55.8	54.7	51.1	48	43.3	38.9	30
35.6	29.1	49.2	62.1	61.6	64.7	57.4	53.8	50.3	48.2	44.5	39.3	33.4
33.4	28.7	56.3	64.4	61.4	64.7	59.9	54.2	50.8	48.3	44.4	39.2	32
32	28.6	56.8	63.8	62.1	66.4	62.6	53.9	50.9	49.3	44	39	30.6
30.6	28.6	59.2	61.1	63	65.3	59.6	52.3	50	47	42	37	29.1
29.1	28.5	55.7	57.9	63.2	63.2	56.7	49.5	47.7	45.2	41.5	36.2	28.2
28.5	28.4	53.7	56.5	61.5	61.2	54.7	47.7	45.4	42.9	40.3	36	28
28.7	28.4	51.1	56	60.9	60.6	54.2	46.7	44.4	41.5	39.5	35.6	28.1
28.3	28.4	50.8	56.2	62.7	59.3	54	45.6	42.8	40.2	38.9	33.3	27.5
33.8	29.6	50.6	63.1	62.4	59.1	53.8	45.6	42.5	40	38.5	32.6	27.3
32.1	29.1	51.9	60.8	65	59.9	53.8	47	43.5	40.3	40.9	37.6	30.5
30.8	28.8	51.2	57.9	62.7	59.9	53.4	46.6	44.2	40	40.7	38	29.6
29.6	28.5	51.9	57.1	61	58.8	53.4	46.3	42.9	39.5	40.6	36.6	28.2
28.2	28.5	53.5	57.6	59.5	58.7	53.4	45.6	42	39.1	38.8	34	27.2
27.2	28.4	52.4	56.6	61.1	57.8	53.7	45.5	41.9	39.3	38.4	32.7	26.6

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000 1/1 LZSmax 16000 1/1 LZSmin 8.0 1/1 LZSmin 16.0 1/1 LZSmin 31.5 1/1 LZSmin 63.0 1/1 LZSmin 125 1/1 LZSmin 250 1/1 LZSmin 500 1/1 LZSmin 1000 1/1 LZSmin 2000 1/1 LZSmin 4000 1/1 LZSmin 8000

26.9	28.4	52.6	56.9	59.3	57.3	53.9	45.9	42.6	40	38.3	32.3	26.6
27.1	28.4	50.3	55	58.7	58.2	53.5	47.1	43.1	41.4	38.8	32.2	26.9
29.2	28.4	48.5	53.8	57.9	57.7	52.8	47.4	43.7	42.2	40.2	34.5	27
30.8	28.7	48.4	54.7	57.8	57.6	52.7	48.4	45.3	45	42.7	37.5	29.1
30.9	28.6	48.1	54.3	59	58.4	54.2	50.5	47.2	46.5	43.6	38.8	30.2

NM3_KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
29	53	52.6	53.1	52.4	51.6	47.7	53.8	54.6	56.7	55.9	50	53.4	52.2	52.2
28.6	50.8	48.7	52.5	48.1	52.5	48	52.5	53.4	54.3	54	51.4	52.2	51.1	52.8
28.5	51.5	50	45.7	50	46.9	48.9	50.8	52	54.4	55.1	50.4	53.1	51.5	52.6
28.5	47.6	45.9	44.8	50.2	45.1	48.2	51.6	59	57.4	55.7	54.3	52.3	52.2	53
28.5	48.4	49.2	45.8	44.9	44.8	48.8	54.2	58.7	54.5	56.1	53	51.1	53.2	54.5
29	42.8	43.1	46.6	48.1	50.4	48.8	48.7	51.5	54.1	53.8	51.1	51.5	51.4	52.9
29	45.6	45.4	47.1	40.7	48.7	48.9	53.1	51.2	52.6	55.1	51.9	49.1	54.9	53.8
28.7	42.4	45.1	43.5	51.6	51.6	46	53.9	52.8	55.9	55.5	52.1	51.8	53	51.8
28.5	40.4	41.1	50.9	47.4	47.7	51.5	53.8	51.3	52.9	53.3	51.7	49.9	50.6	50.6
28.5	45.6	45.7	45	53.9	48.9	48.6	48.4	54.8	55.1	52	53	49.9	50.5	51.4
28.5	47.5	44	43	50.2	49.9	49.2	50.5	49.6	51.5	54.1	53.6	51.7	51.8	52.2
29	48.1	43	40.9	49.7	51.6	50.1	49.1	53.1	53.4	54.4	52.9	49.6	52.2	51.5
28.7	38.4	46.4	48.6	49.2	51.8	48.6	53.6	50.1	53.8	54.6	50.3	55.3	50.6	51
28.7	40.7	38.8	46.8	46.4	46.6	50.1	52.7	53.4	49.2	54.7	55	58.1	50.1	50.7
28.6	39.1	47.8	50.9	52.3	49.9	50.2	54	51.1	51.9	55.9	51.8	55.3	50.4	52
28.6	42.1	46.3	45.5	44.9	48.7	47.2	54.4	52	52.9	54.5	54.8	53.1	53.3	50.9
28.6	43.6	46.8	40.3	42.7	49.6	49.9	52	51	50.5	55.5	52	56.8	49.5	52.7
28.6	45.9	48.1	48	46.4	53.1	43.8	48.5	55.6	50.6	55	53.5	53.1	54.8	51.4
28.6	46.3	42.3	48.1	53.7	48.4	49.6	54	53.1	50.5	56.2	52.5	52.3	52.6	52.3
28.5	46.1	42.1	47.4	52.6	53.8	48.7	53.4	54.1	53.3	54.2	49.8	52.8	51.7	48.7
28.6	41.9	39.6	48.6	48.1	50.3	46.9	52.8	54	51.6	55.4	50.6	51.2	51.1	49.8
28.6	43.2	46.3	47.2	50.8	51.1	49.8	57.2	52.5	54.4	52.9	52.4	52.7	50.1	50.2
28.7	43.6	41.7	47.2	54.1	51.5	50.3	50.7	55	54.3	52.7	50.6	53.3	50.4	47.9
28.7	45.1	43.1	47.1	49.9	53	50.2	49.9	53	51.9	52.6	52	50.6	48.9	47.8
28.8	43.6	38.2	49.2	49	51.1	47.2	52.2	52.5	53.1	54	51.4	50.4	49.3	49.5
28.8	45.6	42.7	49	53.3	50	45.5	48.5	51.3	51.9	54.9	53.5	52.6	47.5	48.6
28.8	52.9	50.4	48.6	54.3	54.2	47.1	51.6	53.2	52.8	54.2	51.4	52.8	47.1	48.8
29.2	47	48.1	40.6	51.8	53.2	47.7	50.9	54.8	53.8	54.8	49.1	48.7	47.4	47.3
31.7	46.4	44.4	49.8	42.3	49	47.6	55.5	53.3	50.4	55.4	49.9	50.4	49.5	49.8
35.1	41.9	45.6	41	49.1	44.1	49.3	51.7	55.2	51.2	56.1	53.6	53	48.3	47.5
32.6	45.9	53.9	48.4	52.4	47.4	45.7	50.9	54.3	52.1	56.4	53.2	52.2	48.3	48.9
31.7	48.8	51.4	43.1	48.4	50.2	45.4	52.4	53.9	49.8	53.7	50.7	47.9	47.2	49.3
30.2	49.1	38.4	47.6	47.5	52.2	48.3	54.8	53.7	53.9	53.6	50.8	49.1	45.6	48.7
29.1	39.3	42.8	48.4	49.3	48.2	48.1	50.2	52.8	50.3	54.8	51.4	48.5	47.8	46.9
28.7	40.2	44.2	43.2	49.3	46.4	43.2	50.8	52.1	52.6	55.5	51.4	51.6	46.4	47.5
28.5	43.9	47.3	45.9	47.2	50.1	50.8	53.8	54.5	49.7	55.3	49.8	50.9	47.1	49.4
28.7	41.7	44.4	44.4	51.8	51.7	50.5	51.1	53.4	51	55.1	51.4	48.8	48.6	47.5
28.8	42.2	47	41	46.2	50.3	48	54.4	50.1	52.8	54	51.1	50.3	47.3	49.7
28.6	44.4	50.8	47.7	49.7	48.5	48	51.3	53.5	52.3	54.8	48.4	49	47.1	44.9
28.5	51.6	46.2	50	48.8	46.9	47	49.9	51.7	51.5	54	48.6	49.4	48.7	46.6
28.4	50	49.9	48.7	49	47.8	45.4	48.4	57.8	52.5	54.8	50	50.8	46.3	46.8
28.5	47.6	49.9	49.2	48.5	45.9	48.7	53.6	55.6	54.2	55.3	52.4	50	47.5	47.5
28.5	51.6	48.9	45.1	46.3	50.6	51.3	49.9	54.4	55.5	54	49.8	50.5	47.1	47
28.5	51.1	48.5	45.1	49.2	54.4	49.7	53.5	51.6	55.4	56.1	49.2	50.4	47.4	46.4
28.9	50.5	48.4	53.6	56.5	59.3	46.1	49.8	54.1	57	53.3	47.7	50.3	47.7	48.6
28.7	54.2	38.4	55.8	49.6	48	51.5	49.3	55.2	54.8	53.2	50.3	47.2	47.3	47.1
28.6	39.9	55.2	49.4	41.5	48.6	47.5	53.2	56.3	52.6	52.6	51.5	49	46.6	46
28.7	49.5	55.4	49.8	45.1	48.7	50	50	54.6	52.2	53.4	55.3	50.4	47.3	46
30.4	50.6	52.7	49.8	51.8	51.5	50.7	53.6	50.8	56.4	54	53.5	50.7	48.6	46.7
29.5	54.6	48.5	51.1	52	51.6	49.3	49.3	53	60.5	52.2	52	51.9	49.8	49.1
28.9	49	52.5	50.6	50.2	49.2	50.7	51.9	54.8	55.2	57.5	55.8	56.6	49.1	49.8
28.5	49	56.2	46.1	53.8	46.6	56	57	55.3	53.4	57.4	52.1	54.6	57.8	50.4
28.4	51	48.2	59.7	60	50.3	47.7	52.6	54.2	56.9	56.6	50.2	55	53.4	47.5
28.4	50.9	48.2	51.9	52.5	49.7	47.2	51.9	52.9	58.1	56	54.4	58.2	47.7	47.9
28.5	51.5	59	44.6	51.8	50.3	51.9	54.7	51.9	57.6	55.5	51.4	58.7	47.3	52.4
28.5	53.3	45.4	48.2	50	50.4	47.9	51.5	54.5	55.5	56.2	48.9	62.1	46.5	51.4
28.5	44.5	45.2	49.1	47.7	49	51.1	52.5	54	63.9	56.6	51.9	57.6	48	48.6
28.7	46.6	48.7	43	45	47.7	50.9	52.1	54.3	62.7	52.9	54.4	57.2	50.4	50
33.2	44.2	46.7	42.5	44.7	48.5	51.6	50.6	58.9	59	55.2	60.7	51.5	51.2	50
42	44.7	44.9	45	50.1	48.7	48.3	50	60.1	55.9	54.5	59.4	51.8	48.3	47.8
38.7	45.8	41.6	44.1	52	47.4	47.1	52	58.8	54.9	55.7	58.4	47.9	49.4	46.7
35.3	43.5	44.5	45.6	47.6	51	50	52.7	53.8	54.7	56.2	56.6	52.1	46.7	44.7
32.3	43.6	46.5	45.5	49.9	48.8	48.3	52	56.2	55.8	53.1	55.8	56.5	44.4	44.9
30.3	45.1	45.6	46.2	45.5	47.1	50.1	49.2	58.4	52.8	53.8	59.2	55.5	45.9	45.7
29.4	42.3	48.9	47	50.6	51.2	48.9	51.1	56.3	51.7	61.7	61	52.7	49.2	45
29.1	47.1	45.2	48.2	49.1	48	45.6	48.1	52.3	60.8	60.3	52.3	54.3	48.3	44.9
28.7	37.8	45.6	48.6	50.5	43.7	47	49.9	54.8	58	60.1	49.5	51	49.5	47
28.7	45.7	42	51.2	55.9	49	47.1	50.4	50.8	58.4	57.6	52.4	51.1	48.5	45.4
29.8	42.1	43.4	50.7	55.3	53.6	49.7	51.5	53.5	57.9	62.7	52.7	50.8	48	46.8
29.8	45.8	50.6	50.7	53.4	50.4	57.7	66.5	63	56.5	58.8	51.3	52.9	46.1	46.1
29.1	51.8	49.4	50.3	54.3	55.4	53.2	50.3	57.1	57.8	56	50.3	55.2	47.8	46
29	38.2	48.2	57.1	58.6	47.9	47.9	51.3	55.4	54.6	54.4	53.7	53.5	49.9	50.2
29	42.6	53.3	49.5	43.9	48	46.8	52.7	59.6	54.6	53.3	55.8	54.7	51	47.9
28.7	49.4	51.1	47.8	47.6	49.9	50.3	51.1	55.1	57.5	56.7	55	60.9	50.5	48.7
28.5	43.7	41.9	50.2	55.5	54.3	47.6	55.2	52.2	58.3	56.9	52	56.4	49.3	48.5
28.4	40.8	43.8	50.2	49.9	49.1	51.1	53.5	53.5	59	55.8	51.3	53.7	50.7	49.3
28.4	44.9	46.5	46	53.1	53.9	48.6	54.4	51.7	62.5	55.8	53.2	54.3	50.4	50
28.4	44.5	46.8	45.7	48.4	56.6	51.5	52.3	55.4	65.3	54.3	55.5	59.6	51	47.2
28.4	46	47.8	51.3	53.4	52	51.8	52.6	62.6	56.6	58.8	57.1	56.7	48.8	48.9
28.5	42.6	48.8	51.4	48.7	53.1	51.9	56.9	58.4	55.6	63	55.9	54.5	51.8	50.3
28.5	45.9	50.6	46.1	54.1	53.4	54.7	59.3	54.1	57.6	63.6	61.1	57.7	53.4	52.9
28.5	48.6	46.9	48.4	49.7	53.8	60	60.2	57.2	54.8	63.6	59.9	57.6	54.7	51.7
28.7	45.1	42.5	48.4	51.6	56.6	58.3	55.4	56	57.5	61.5	59.8	58.6	59.3	53.3
28.6	41.2	45.1	57	56.8	62.6	57.5	57.6	58.4	58	63	58.8	66.9	60.9	52
28.5	39.9	51.5	59	63.3	65.6	58.2	60.2	54.4	56.7	60.1	59.7	63.2	65.4	50.9
28.5	52.4	47.2	61.3	59.1	56.8	53	61.5	62.6	59.7	59.3	62.7	60.5	53.7	48
28.3	50.1	51.9	54.3	53.4	54.3	50	58.7	58.4	55.1	59.5	56	55.2	51.6	46.8
28.4	43.2	49.1	43.9	53.3	50	52.9	58.7	52.2	54.5	55.6	54	51.4	50.7	46.1
28.4	48.5	47.1	47.5	45.8	45.1	52.1	58.4	48.7	54.4	57.9	54.3	53.6	50.7	48.9
28.3	42.1	47.3	44.9	48	48.9	62.5	63	55.2	53.9	55.7	52	53.3	51.8	46.6
28.3	45.6	45.2	48.8	64.4	66	47	57.4	62.4	54.3	55	55.7	53.9	52.6	45.8
28.8	43.7	40	54.4	56.3	51.6	53.9	53.9	65.8	52.9	55.3	57.4	54.7	51.6	44.8
28.5	45.7	44.2	45.6	56.4	52.2	50.6	52.2	58.9	51.8	53.5	56	55.5	51.6	46.8
28.5	46	39.1	46.3	51.5	49	51.1	57.5	57	52.9	54.1	52.7	54	53	45.5
28.4	47.3	48.2	53.1	51.9	49.4	51	56.8	53	51.2	56.2	50.2	55.1	52.3	45.2
28.4	45.6	46.5	47.8	57.5	52.8	48.2	61.6	53	51.3	53.2	51.2	52.4	53	44.6

NM3_KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125

28.3	45.6	48.2	49.9	51.6	51.9	56.2	55.7	54.3	52.6	51.8	50.6	52.6	52.1	48.6
28.3	49	46.6	50.3	50.1	48.4	50.6	57.3	50.6	51	55.3	50.7	52.5	52.1	45.3
28.3	47.8	46.5	42	48	45.5	48.3	57	48.9	53.2	55	50.1	53	49.8	46.4
28.4	42.4	46.5	43.6	51.5	48.2	51.4	54.9	52.7	53.5	55.6	51.1	53.5	51.5	47.3
28.6	41.4	41.6	48	49.2	50.8	51.5	54.9	55.6	54.7	54.8	51.8	53.9	54.1	51.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
49.9	52.4	52.4	44	42.1	39.3	36.6	35.3	38.5	34.5	33.2	35.8	43	36.7	32.6	29.6
48.7	50.3	51.1	43.2	41.4	39.1	35.5	35	37.8	32.8	32.3	32.6	37.5	33.3	31.3	28.9
51.2	50.1	50.2	43.7	42.2	39.4	36.7	36.7	38.1	33.5	33.7	32.2	33.9	31.4	26.5	28.8
50.5	50.4	51.4	44.9	44.1	40.5	36.6	35.3	38.2	34.8	34.2	33.7	36.4	33.8	32.1	28.2
50.6	51.6	51.4	45	43.6	40.6	36.9	36.6	38.1	33.6	33.4	34.8	41.2	34.8	33.1	30.7
50.9	47.2	47.3	44.9	44.7	40	37	34.1	37.4	31.8	30.3	32.6	35.1	32.8	29.9	28.2
52.4	47.9	48	45	44.6	43	38.2	35.2	38	35.2	34	34.9	39.6	37.7	36.3	32.7
49.6	49.1	45.6	42.6	39.9	37.7	37.6	37.8	38.7	33.4	34.2	34.3	37.8	35.3	31.5	29.8
49.6	48.5	44.5	41.1	39	36.8	34.1	33.6	36.7	31.6	32.8	32.9	38.9	33.5	30.9	28
49.6	45.9	45.7	42.8	41.7	37.9	36.8	34.2	36.9	32.5	33.1	32.9	35.9	33.3	29.1	26.8
51.3	46	45.2	39.7	40.5	36.8	38.1	37.3	38.4	34.4	36.2	49	40.9	38.2	36.8	32.7
49.7	45.2	45.5	42.1	38.6	38.1	37.9	35.7	38.4	35	35.7	52.1	38.4	34.7	32.3	29.1
46.8	45.9	46.8	41.8	39.1	38.6	38.4	36	38.5	33.8	35.2	34.4	34.6	32.3	31.3	28.3
50.8	47.5	46.9	41.3	39.9	41.3	37.9	37.9	38.8	36	35.7	34.6	39.1	35	33.1	29.5
51.1	46.9	45.9	42.2	41.2	40	40	39.1	40	36.2	35.9	36.2	41.4	38.9	35.4	30.5
51.4	46.9	45.3	40.8	41.2	37.6	38.9	38.7	39.9	37	35.5	34.9	36.3	34.2	31.8	30.1
51	47.4	47.5	41.9	40.1	39.4	40.9	39.4	39.9	36.1	35.4	34.9	37.8	35.1	31.6	29.4
48.6	47.2	47	41.5	39.4	38.6	39	38.1	38.9	35.8	35.4	34.9	38.9	37.6	35.5	32.5
50.4	46.4	45.5	41.6	40.1	39.1	40	39.1	39.8	36.2	34.5	33.2	37	31.1	29.2	25.6
48.5	45.5	44.3	40.4	38.9	38.4	39.4	38.8	39.7	36.7	34.3	34.8	35.6	34.9	30.7	28
47.7	45.8	43.9	40	37.3	37.1	37.6	37.3	39.6	35.7	35.4	34.7	34.8	30.6	27.7	26.3
48.1	44.3	43.5	40.4	38.2	35.6	36.3	37.4	40	36.1	33.3	31.9	35	32	27.5	24.9
46.6	45	43.3	41.5	37	36.2	37.5	38.8	39	34.9	33.6	32.8	38.6	34.5	32.2	29.4
45.8	42.7	43.5	40.1	35.8	35.7	35.6	36	38.3	32.7	33.2	33.6	38.7	32.9	31.8	30.5
47	43.7	42.4	40.3	37.2	37.1	36.8	35.3	37.3	32.9	33.4	33.5	35.9	33	30.5	29
48.4	41.4	41.2	38.7	38.8	34.9	37.3	35.6	37.6	33.9	35.1	35.3	38.5	37	33.7	31.6
46.3	42.2	41.4	39	38.2	35.7	36.1	35	39.9	34.5	34.1	34.6	37.7	36.6	35.5	34.3
46.1	41.1	40.5	39.8	39	43.7	46.6	49.2	46.1	43.9	45.2	43.7	48.3	41	36.9	37
45.2	41.1	42	38.7	41.6	37.8	37.8	38.2	40	41.6	43.6	44.2	44.1	41.8	43.5	40.8
45.8	41.7	45.3	40.4	38.8	37.2	39.1	36.5	39.8	38.4	40.1	37.6	42	39.7	38.1	36.1
46	42.1	47.2	38.8	38.5	37.1	36.7	33.6	37.8	34.1	34.2	36	39.5	35.9	34.1	32.8
45.5	43.6	46	38	37.1	35.8	34.8	33.5	37.3	33.9	34.2	35.6	38.2	37	36.3	37.1
45.1	41.3	41.6	38.1	37	34.6	34.9	33.9	37.6	33.2	34.2	34.8	40.5	37.5	34.8	34.4
44.3	41.7	41.7	37.8	36.5	34.1	35.5	33.8	37.3	32.1	33.9	33.6	42.3	36.7	35.3	31
45.4	41.8	41.3	37.7	38.9	40.8	37.3	36.7	34	33.3	33.2	33.1	43	37.6	37	32.3
44.4	41.4	39.9	37.9	37.3	34.5	36.8	34.4	32.5	34.2	35.8	36.5	43.6	39.5	36.6	31.1
47.7	42	40.8	37	37.7	38.6	39.7	38.4	36.8	36.3	34.1	33.9	38.1	35.9	32.5	30.7
49.7	42	42	38.2	38	35.6	36	34.5	33.7	33.1	33	34.7	41.8	36.8	33.9	30
49	42.4	41.9	39.1	37.3	37	38	36.3	35.3	34.5	35.3	36.3	41.1	37.5	34.3	29.1
46.1	41.4	44.3	40.8	39.7	37.2	36.4	36.3	36.1	33.6	34.8	34.8	36.6	32.8	31.5	29.3
46.8	41.6	43.1	38.9	36.7	36.2	37.5	39.1	37	35.8	34.9	33.6	40.2	36.9	34.1	29.8
45.3	43.1	42.4	38.3	38.5	37.5	37.4	37.6	37.5	35.6	35.3	35.4	41.4	38.9	35.8	30.8
44.7	44.2	45.4	39.8	40.8	38.7	40	39.2	39.4	36.6	36	34.2	38.3	34.5	31.5	28.6
45.1	43.7	43.5	40	41	39.2	43.1	42.2	42.4	42.1	43.1	43.1	41.4	38.1	35.5	33.7
47.7	43.8	44.7	40.9	39.9	39.3	40.5	40.6	39.9	37.5	36.4	36	36.7	34.1	31.4	28.9
46.7	43	43.7	39.4	39.1	38.2	39.6	40.5	39.7	37	37.4	36.1	39	35.7	32.5	29.6
46.4	43.1	42.4	40.4	40.7	38.1	39.1	39.6	39.5	37	36.9	37.1	40.1	36.5	32.7	28.9
45.3	42.4	43.5	40.5	39.9	41.4	41.5	42.3	42.6	42.1	41.5	44.3	43.7	42.6	41	40.7
46.1	43.8	45.5	39.7	40.5	39.2	38.3	37	38.7	35.6	37	35.9	38.9	37.2	36.4	32.9
44.5	43.1	43	39.7	40.5	38.6	38.1	40.3	40.7	38.6	37.7	37	40.1	36.7	35	32.2
46.7	44.6	42.7	38.9	38.9	39.1	39.1	40.3	40.2	37.7	39.7	40.4	39.4	38.2	34.2	32.1
45.7	43.3	43.3	39.7	39.7	38.3	37.8	37.5	37.8	35.8	34.5	33.8	35.9	31.9	28.2	25.7
45.1	42.2	44.1	39.9	38.4	38.3	39	38.3	38	36.4	35	33.9	35	31.2	28.6	27
45.8	42.6	44.9	41	39	39.4	38.4	37.7	39.8	37.5	35.2	34.1	37.8	31.4	28.9	26.7
49.7	43.5	45	39.5	39.2	39.3	38.6	39.2	40	38.7	38.3	37	41.1	36.9	34.8	31.3
47.1	43.6	48.4	42.3	40.7	39.4	38.6	38.7	39.7	37.1	36	35.4	39.9	37.2	32	30.5
45.6	44.7	49.3	42.5	40.5	38.9	39.4	39.8	40.5	38.5	36.9	37.3	40.7	39.5	35.3	32.1
47.5	43.1	45.9	41.7	40.4	41.1	39.7	39.1	40.2	38.3	38.4	38.6	39.5	38.9	37.1	37.2
46.1	43.3	44.9	39	40.7	43.8	44.9	46.7	46.6	45	49.2	47.2	44.2	43.6	44.8	43.3
46.4	42.8	44.3	39.9	40.2	38.7	38.8	37.4	37.7	38.3	38.2	38.5	40	38.4	35.6	35.3
48	43	43.5	40.9	38.3	37.3	37.5	37.5	37.6	37.2	36.7	37.6	37.6	38.3	38	36.8
43.4	42.1	44.3	40.5	39.3	37.8	36.9	36.7	36.3	34.7	36.6	36.1	37.1	37.2	33.4	31.8
46.3	42.1	42.9	40.1	38.6	36.6	37.4	35.1	35.9	33.9	34.4	35	36.3	33.6	30.6	26.5
46.4	42.4	43.2	38.2	37.7	36.2	37.2	35.5	35.9	33.6	34.1	34	36.4	34.6	28.9	28.4
46.7	41.7	42.6	39.5	39.3	37.1	36.8	36.8	36.6	35	34.3	34.1	35.2	33.1	30.6	29.2
47.6	43.1	41.9	39.8	38.4	38	38.1	37.1	36.9	35.9	36.6	35.6	38	36.4	33.4	32.2
45.4	40.8	43.3	39.5	37.7	38.2	36.3	36.3	36.3	34.6	35	35.7	38.2	35.9	33.6	34.7
46.1	42	44.7	40.1	40.1	38.1	37.5	37.9	39	37.2	35.5	34.6	37.6	42.7	38.4	36.2
47.1	43.5	45.3	41	40.9	41.3	41.5	40.3	40.3	38.5	37.7	37.4	41	37.5	35.1	33
48.4	44.1	44.9	42.3	40.3	40.3	39.9	38.5	39.1	36.6	36.5	34.8	33.8	32.1	30	29.3
47.4	43	45.3	41.9	39	40.4	40.4	40.4	40.8	38.1	36.8	37.2	37.2	35.8	33.3	30.3
50.1	44.6	48.1	45.3	41	40.6	41.4	41.8	41.5	38.9	37.4	37.8	37.3	35	32.9	33
48.5	46.5	49.8	44.6	42.2	41.9	43.2	42.6	44.2	41.3	43.1	41.4	39.5	35.4	33.3	31.4
46.5	45.9	47.3	45.8	43.2	40.5	40.3	41.7	42.1	39.1	37.7	36.1	37.8	32	29	27.1
47.2	45.5	46.9	44.1	42.3	40.1	41.2	41.6	40.9	38.9	37.6	36.8	39.5	36.3	31.4	31.2
47.4	45.5	44.6	43	41	40.9	41	41	41.4	38.5	37.3	37.2	37.9	35.1	31.1	29
47.6	46.2	46.3	43.6	41.7	42.8	42.6	41.3	42	40	38.5	37	40.2	32.9	30.8	28.3
47.5	45.5	45.3	43.1	40.7	42.3	40.7	40.9	41.5	38.9	37.7	36.8	37.5	32.9	30.7	29.3
45.8	45.2	44.2	42.6	39.9	42.7	42.6	42.4	41.6	39.4	38	37.4	38.3	36	31.5	28.4
47.1	45	46	49.1	47.3	45.4	45	45.6	43.3	40.8	39.1	38.3	40	37.9	35.1	31.4
49.6	53.3	55.2	52.1	49.4	48.2	45.9	45.3	42.7	40.2	38.3	37.5	38.9	35.3	33.4	29.9
50.2	50	47.4	45.2	44.8	46	46.4	45.4	44	41.9	41.6	41.9	39.6	37.3	37.9	37.3
52.7	51.5	47.9	45.8	46.2	44.3	46	44.8	43.7	40.9	39.8	39.1	40.1	35	33.3	30.2
51.1	51.5	47.5	48.1	47.5	45.8	46.1	45.9	46	42	40.7	39.5	41.6	36.9	35.7	31.4
48.3	49	53.5	50.3	52.8	49.2	44.2	48.2	45.3	42.3	39.6	37.4	38.1	36	33.7	30.6
46.5	45.8	45.2	40.7	43.8	40.6	39.8	40.7	40.1	38.2	36.6	35	35.1	31.8	30.5	26.9
44.1	40.1	42.3	40	42	39.2	38.8	38	37.8	39.9	36.3	35.4	36.8	32.9	30.9	27.1
43.3	40.9	41.6	39.7	40.6	38.8	36.7	35.8	36.7	35.6	34.5	33.4	36.6	33.5	31	28.1
45.1	42.8	42.4	39.1	40.8	40.3	38.7	37.2	36.1	35.1	33.3	36.2	35.6	32.9	29	29.2
43.3	39.7	40.9	38.6	37.8	35.9	35.2	33.8	34.4	34	31.8	36	30.4	27.8	25.4	24.8
45.6	41.5	44.7	41.3	37.5	40.9	39.5	37.9	36.9	35.3	36.2	37.2	38	35.9	32.9	32.7
45.1	41.8	43.8	43.5	37.7	43.3	37.8	35.9	35.3	35.1	35	34.6	37.5	37.3	33.8	30.2
44.6	39.9	42.5	41.4	36.9	41.5	36.6	35.4	35.3	35.3	35.5	35.2	37.1	35.4	30.6	29.9
45.2	39.2	41.8	42.7	37.6	37.4	36.1	34.9	34.3	33.5	34.2	33.3	38.7	33.2	31	26.7
42.8	39.1	41.7	39.9	37.1	35.9	36.6	35	35.2	33.8	31.9	32.8	32.7	28.9	25.5	24.2
42.7	40.3	41.8	39.7	38.3	37.6	36.8	35	35.8	35	32.8	33.7	34.1	29.1	25.9	24.6

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
45.4	40.8	44.5	42.5	40.2	38.1	37.7	36.8	37.8	36.5	34.3	34.6	33.3	28.9	26.3	25.5
44.7	41.8	43	43.1	39.1	39.9	38.7	37.9	38.6	36.8	36	35.7	35.6	32.9	28.8	27.6
43.3	42.6	45	44.7	40.5	41.6	40.6	41.4	41.9	39.5	38.3	38.2	39.1	34.9	32.1	30.9
44.2	43.7	48.3	46.6	43.7	43.1	42.9	42.3	42.9	41.3	39.7	38.7	39.4	37.4	33.9	32.4
50.7	46.7	50.6	48.4	45.2	44.8	45.6	45.7	47.9	46.1	43.6	41.4	41.2	38.6	34.6	33.2

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
24.9	22	22.8	23.4	24.1	24.7	51.6	53.4	52.1	52.6	56.5	52.2	54.1
25.3	22	22.1	22.7	23.5	24.5	52.4	52.6	53.9	52	55.2	50.9	54.3
25.4	22.4	22.5	22.9	23.6	24.6	51.6	50.4	51.5	50.7	53.3	49.7	52.9
25.9	23.6	23.5	23.1	23.7	24.6	51.6	50.2	48.9	50.9	50.3	49.1	52.2
28.3	26.2	25.9	25.2	24.5	24.8	49.7	49	47.1	49.6	47.6	49.1	53.5
25.4	23.6	23.3	23.7	23.9	24.7	48.7	48.8	46.9	48.4	49.8	49.2	53.1
31.5	29	28.8	25.9	24.2	24.7	46.1	45.9	48	48.1	49.4	50	52.8
25.4	22.3	22	22.7	23.5	24.4	46	46.1	46.6	50.6	51.6	48.7	53.8
23.4	21.5	22	22.7	23.7	24.5	43.8	45.4	50	50.7	50.3	50.9	53.9
23.8	22.1	22.2	23	23.7	24.5	45	45.1	50	52.7	49.4	50.3	53.7
28.6	27.9	26.1	25.2	25	24.9	46.8	45.4	47.6	52.7	50	49.7	51.5
25.7	24.7	23.7	23.4	23.9	24.6	48	44	45.4	51.6	51.1	50.7	51.6
24.3	23.3	22.9	23.2	23.7	24.5	47.3	46.4	47.7	50.8	51.7	50.3	53.1
27.4	24.7	24.1	23.6	23.9	24.5	43.8	44.7	47.7	49.9	51.3	50.6	53.6
27.9	24.5	23.4	23.2	23.9	24.7	42.9	47.2	50.3	51.6	50	50.4	53.9
27.1	24.7	23.4	23.5	24	24.7	41.8	47.3	49.4	50.6	49.9	49.6	54.6
24.4	22.3	22.2	23	23.7	24.6	43.8	47	47.4	48.1	49.9	49.8	54.4
25.5	22.7	22.2	23	23.8	24.6	45.8	48.2	47.2	46.5	52.4	49.1	53.2
23.1	22.4	23.2	23.1	23.9	24.6	46.3	48.3	48.3	52.7	52.2	49.1	53.7
24.7	22.7	22	23.5	24	24.8	47.3	45.7	48.3	52.5	53.2	49.3	53.1
23.6	21.8	21.9	22.9	23.8	24.7	45.6	43.1	48.3	52.3	52.2	49.1	53.3
22.6	22.7	22.3	23.4	24.2	24.7	43.8	45.1	48.3	50.8	51.7	49.5	56.7
26.5	22.3	22.4	23.8	24.3	24.8	43.9	45.1	48.1	53.4	51.8	50.1	55.8
28.1	23	22.7	24	24.5	25.1	45.4	44.3	47.6	53.3	53.5	51.3	53.3
26.5	22.7	22.3	23.1	23.7	24.5	44.4	42.5	48.8	50.7	52.2	49.6	52.4
29.5	27	25	23.9	24	24.7	45.2	43	49.2	52.7	51.9	48.6	52.2
31.6	27.6	27.2	24.8	24.2	24.8	51.7	48.8	49.7	54	53.9	47.7	52.2
39.1	34.8	31	29.6	27.9	26.7	51.7	48.7	48.5	54.1	54.3	47.9	51
38	35.6	36.3	36.5	30.4	27.4	49.2	48.1	49.2	52.7	53.2	48.4	54.5
35.6	35.2	32.9	30.2	27.6	26.5	47.7	47.5	48.7	49.8	50.9	49.1	54.5
29.9	26.7	25.3	24.7	25.5	25.3	45.5	52.4	48.1	51.8	48.6	49.1	53.1
37.5	33.5	30.8	28.8	26.2	25.2	48.1	53.6	48	51.4	49.7	47.3	52.9
30.4	23.4	22.7	23.1	23.7	24.5	49.2	51	47.1	49.9	51.5	47.9	54
24.8	21.8	22	22.7	23.7	24.4	48.5	47.1	48.4	49.6	51.6	48.2	54
26.4	21.9	22.1	22.7	23.6	24.5	45	45.3	48.1	49.6	49.7	47.9	52.3
24.8	22.5	22.8	23.3	23.8	24.6	43.8	46.9	45.9	49.4	50.2	49.9	53.3
27.8	26.2	25.5	24.5	24.6	25.1	43.7	46	45.9	51.2	51.1	50.4	53.1
25.8	23.2	22.7	23	23.7	24.5	43.6	46.7	44.8	51.1	51.3	50.2	54.4
24.9	22.4	22.4	22.8	23.6	24.6	43.8	50	46.5	49.8	50.5	49.1	53.4
29.3	23	22.2	22.8	23.8	24.6	50.5	49.6	48.7	49.7	49.6	48.7	52.3
27.4	24	22.6	22.8	23.5	24.5	50.5	49.5	49.3	49.7	48.8	47.3	50.6
27.4	25.4	24.4	23.5	23.9	24.6	49.3	50.8	50.1	49.4	47.6	48.1	53.1
25	23.5	22.7	22.9	23.6	24.5	50.9	49.2	48.9	48.8	49.5	50.5	52.6
32.2	27.2	25.1	24.5	24.4	24.8	52.2	49.5	47	49.3	53.2	50.6	53.8
25.8	24.2	24	23.6	23.8	24.7	51	49.6	53.3	55.3	58.9	50.3	52.3
25.7	23.6	23.1	23.3	24	24.6	53.6	48	55.8	54.9	56.8	50.8	51.2
26	23.6	23.2	23.3	23.9	24.6	52.8	54	54.2	52	53.4	50.4	52.3
38	36.3	33.4	30.6	28.5	26.4	49.5	55.7	51.6	48.4	51	49.9	52.2
27.6	25.6	25.5	24.1	24.1	24.7	50.2	56.2	51.2	50.9	51.4	50.7	52.8
26.8	23.9	23.9	23.5	24	24.6	53.5	53.4	51.3	51.7	51.8	50.2	52.6
27.3	24.6	23.2	23.1	23.7	24.5	53.6	52.6	52.7	51.8	51.1	51.2	52
23.3	21.5	21.9	22.7	23.5	24.5	51	55.1	50.1	53.6	49.8	54.9	55.9
24.6	22.3	22.4	22.7	23.6	24.4	50.9	55.1	58.8	59.2	50.2	54.3	55.3
23.6	22.4	22.8	23.2	24.1	24.5	51.1	51.9	58.9	58.4	49.9	51.3	53.5
27.5	23.4	22.8	23.3	24.1	24.5	52	57.8	55.5	55.5	50.3	51.5	54.6
25.8	22.6	22.2	22.7	23.6	24.6	52.9	57	51.8	53.9	50.6	51.5	54.4
28.1	23.9	23.4	23.4	24	24.5	52.3	53.2	50	51.4	51.2	51.4	52.9
35	36.1	33.5	31	28.9	26.5	49	49.9	49.6	49.2	49.4	50.9	53.4
43.6	43.6	46.5	44.5	40.5	35.2	47.5	49.8	46.5	47.1	48.4	51.6	52
33.9	32.2	32	31.6	27.8	26	45.9	47.8	45.3	49.8	48.8	51.3	51.6
36.3	33.6	33.8	31.2	27.9	25.8	45.8	46.1	45.3	51.6	48.5	49.7	53.1
29.6	28.3	26.3	25.1	24.4	24.9	45.5	44.5	46.2	50.7	50.7	50.1	52.6
23.2	22.3	22.6	22.7	23.5	24.6	44.3	46.2	45.7	50.2	50.8	49.9	52.7
24.4	22.3	22.4	22.6	23.6	24.6	45.2	46.4	46.2	49.4	49.5	49.9	51.9
27.1	24.5	23.5	23.3	23.9	24.6	44.8	47.9	47.4	50.1	50.6	50.1	51.1
29.2	26.3	24.6	23.8	24.1	24.7	46.8	47.8	47.9	50.8	50.3	49.1	51.1
28.9	25.5	23.2	23.2	23.8	24.5	45.3	46.3	48.7	50.2	49	47.6	50.2
32.3	27.2	27.1	26.4	25.6	25.3	45.1	46	51	55.3	49.2	48.4	50.5
29.5	27.9	27.3	26.4	25.1	25	44.4	43.9	50.8	56	52.8	49.1	51.6
28.4	26.9	26.4	25.3	24.8	25	45.4	49.3	50.9	54.9	52	57.2	65.8
29.4	26.9	25.3	24.2	23.9	24.7	50.6	49.8	50.8	54.9	54.8	57.3	65.2
29.2	26.2	24.2	23.7	24	24.7	50.5	50.2	56.2	58.1	54.4	54.8	61.1
29.6	27.4	25.3	24.8	24.4	24.9	46.5	53	55.4	56.8	51.3	51.8	57.5
23.8	22.3	22.2	22.7	23.6	24.5	48.8	53.9	52.6	52.9	50.3	50.2	55.2
29.3	23.1	22.5	22.8	23.5	24.5	48.9	51.1	50.6	54.7	53.6	50.2	54.6
24.9	22.5	22.2	22.8	23.5	24.6	46.1	47.8	50.9	54.1	53	50.5	54.6
26.2	23.7	22.8	22.6	23.5	24.6	45	46.4	50	53.5	53.7	50.3	54.5
26.8	23.9	22.7	22.9	23.7	24.5	45.8	47.2	48.3	52.3	55.9	51.2	54.2
25.2	23.4	22.8	23	23.8	24.7	45.6	48	50.7	53	55.7	52	53.6
27.8	24.1	23	23	23.7	24.6	45.6	49	51.6	52.7	54.1	52.3	56.3
27.1	24.6	23	23.2	23.8	24.6	45.9	51.3	51.6	53.6	54.8	54.5	58.4
34.8	33.2	30.3	25.5	24.1	24.6	47.9	49.1	49.4	52.9	53.8	58.4	59.8
28.5	25.7	23.8	23.1	23.6	24.6	48	47.8	49.1	52	56.2	58.6	59.7
28.4	25	23.1	23	23.7	24.5	46.2	45.6	55.3	55.7	60.9	58.9	58.3
27.2	23.8	22.8	22.9	23.7	24.6	43.5	50.5	58.7	62.3	64.7	59.1	59.4
24.2	22.7	22.5	22.8	23.7	24.5	50.8	50.7	60.4	61.5	64.3	57.8	61.4
23.7	22.3	22.2	22.7	23.5	24.4	51.2	51.3	60.4	60.2	60.9	55.4	60.8
25.5	22.5	22.3	22.7	23.6	24.6	50	51.2	57.4	57	58.1	53.5	59.6
24.9	22.4	22	22.7	23.5	24.6	48.9	49.9	53.4	54.9	54.9	53.3	59.2
22.7	21.8	22.1	22.8	23.3	24.4	47.5	48.4	50.8	51.5	51.3	61.8	62
29.6	30.6	27.9	25.6	24.6	24.9	46.2	48.3	48.9	63.5	65	61.2	61.8
26.2	22.9	22.7	23.1	23.8	24.6	45.7	46.3	53.4	63.5	63.7	57.2	59.7
26.5	23.2	22.6	22.9	23.7	24.5	45.7	44.4	52.3	60.4	59.8	55.5	56.8
23.3	21.5	22	22.8	23.6	24.6	46	44.1	49.5	58.4	56.7	53	57.1
21.5	21.6	22.1	22.7	23.4	24.5	47.1	47	52.1	55.2	53.3	52.2	57.2
21.1	21.4	21.8	22.6	23.6	24.6	46.5	48	51.3	56.8	52.7	51.7	60.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
22.8	21.9	21.9	22.6	23.5	24.6	46.3	48	50	56.4	52.9	54.9	60.3
22.8	21.6	22.2	22.7	23.5	24.5	48.2	47.3	50.6	54.2	51.8	55.1	57.9
27.5	23.6	22.6	22.9	23.6	24.6	48.2	46.9	49.8	52.1	50.4	52.4	57.9
28.9	24.7	23.7	23.4	23.9	24.7	48	47.1	46.6	51.2	48.9	51.6	57.2
29	24.5	23.3	23.2	23.8	24.6	45.4	46.4	47.6	51	50.2	51.5	56.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
54.2	58.6	57.6	52.5	54.2	54.5	53.8	49.7	52.9	52.7	47.5	44	42
54.5	57.4	57.1	52.6	54.1	53.8	53.2	49.6	52.5	52.1	46.4	43.2	41
53.9	56	55.9	51.6	53.4	52.3	53.2	50.7	51.6	52	44.7	42.3	40.2
58.5	57.1	55.9	53.3	53.4	52.6	53.1	51.1	50.6	51.5	44.8	43.9	40.5
59.7	56.6	56.2	54.1	52.4	52.8	54.5	51	52.1	53	46	45.1	42
58.1	54.8	55.9	52.8	52.4	52.8	53.9	51.3	50.9	50.9	45.1	44.6	40.4
55.4	54.6	56	52.3	51.3	54	54.4	52.1	49.1	49.6	45.7	46.1	42.9
53.6	55.5	55.8	53.2	51.7	53.9	53.4	52.3	49	48.3	45	44	42.8
53.1	55.1	55	52.1	51	53.4	52.4	50.6	49	46.8	43.3	42	40.3
54.1	55.3	54.3	53.1	50.5	51.9	51.7	50.2	48.7	45.9	42.8	41.4	38.5
53.7	54.5	54.5	54.3	51.8	51.8	52.3	50.9	47	45.8	42.6	41.3	38.2
53.3	53.5	54.5	53.3	51.5	52.2	52.1	50.9	46.4	45.8	42.1	40.9	38.1
52.7	53.8	54.7	53.5	54.3	52	51.6	50.2	46.1	46.6	41.9	39.9	38.6
53	53.7	56.1	54.1	57.1	51.4	51.4	50.2	47.4	47	42	39.7	40.9
53	52.4	56	54.1	57.1	50.8	52.3	51	47.2	46.6	42.2	41	40.5
52.5	52.8	55.8	54.6	55.9	52.8	51.5	51.4	47.2	46.5	42	42	40.2
52.1	52.8	55.6	53.9	56.7	52.5	52.5	51.5	47.8	47	42.1	40.9	39.5
55.4	51.6	55.5	54.4	56.1	53.9	52.3	51.1	47.4	47.2	41.9	40.2	39
54.7	51.5	56.1	53.1	54.2	54.3	52.5	51.3	47.4	47	41.9	40.2	39.2
55.5	52.8	56.2	52.8	53.1	53	52	49.9	46.8	45.9	41.4	40.1	39.3
54	52.7	55.7	51.2	53.2	52.3	50.3	49	46.4	44.9	41.1	39.3	38.6
53.9	54	54.8	52.2	52.9	51.3	50.4	48.4	45.8	44.2	40.7	38.4	37.6
55.1	54.6	54	51.9	53.8	50.8	50.1	48.7	45.6	44.1	41.5	38.3	36.6
54	54	54	52.5	53.1	51	49.1	47.2	45	44	41.3	37.4	36.4
53.7	53.2	53.8	51.6	51.9	50.6	49.3	46.9	44.2	43.5	40.7	37.3	37.2
53.2	53.3	55.6	53.1	52.4	49.2	49.8	47.9	43.7	42.7	40.4	38.3	36.5
53.2	53.3	54.9	53.1	53.1	48.2	49.3	47.8	42.5	42	39.4	38.3	35.8
54.4	54.2	54.8	52.3	52.6	47.9	48.7	47.5	42.4	41.5	40.1	39.3	43.5
54.5	53.7	55.6	50.6	50.8	49.2	49.3	46.5	42.2	41.9	40.2	41.5	43.4
55.2	52.2	56.1	52.7	52.8	49	49.4	45.9	41.7	44.5	40.4	40.9	40.9
55	52.3	57	53.7	52.5	48.7	48.8	46.3	42.2	46.6	40.1	39.7	38.9
55.2	52.7	56	52.8	52	48.6	49.8	46.1	43.3	46.9	39.4	38.8	38
54.4	53.4	54.7	51.8	50.1	47.9	49.1	45.8	43.2	45.9	38.7	37.7	36.6
54	52.4	55.5	51.7	49.7	47.6	48.7	45.5	42.1	43.7	38.2	37.4	35.5
53.5	52.8	55.3	51.9	51.1	48	47.9	45.5	42.1	42.9	38.1	38.5	40.6
54.2	52	55.4	51.7	51.1	47.7	48.9	45.5	42.1	41.8	38.2	38.5	40
54.9	51.5	55.4	51.4	50.7	48	48.8	46.9	41.9	41.1	38.1	38	39
53.6	52.1	55.2	52.6	50.4	48.2	49.7	49	42.1	41.7	37.9	38.3	38.9
53.5	52.7	55.3	50.7	50.4	47.8	48.9	49.4	42.4	41.9	38.7	37.8	38
53.3	52.6	55.2	49.6	49.7	48.4	47	48.8	42.5	43.9	40.6	39.2	37.3
57.1	52.9	54.8	50.3	50.9	48.3	47	47.3	42.1	44.1	40.2	39	37.1
57.5	53.7	55.6	52.3	50.5	48.1	47.7	47	43	43.7	39.3	38.4	37.3
55.8	55.3	54.8	51.2	51	47.9	47.4	46	43.8	44.9	39.7	40.1	38.2
55.2	55.4	55.7	50.5	51	47.4	47.2	45.4	43.8	44.6	40	40.8	38.9
54.5	56.8	55.6	49.7	51.1	48	48.3	47.3	44.3	44.6	40.8	40.8	39.2
55	56.7	54.5	50.1	49.8	48	48.2	46.9	43.8	44.3	40.8	40.4	39.2
56.3	55.4	54.5	51.4	49.3	47.6	47.7	47	43.4	44.1	40.5	40.5	38.7
56.4	53.8	54	54.5	49.8	47.8	46.7	46.6	43.3	43.7	40.8	40.3	40.8
55.5	55.9	54.1	54.5	50.8	48.4	46.7	46.4	43.6	44.9	40.6	40.5	40.3
53.3	59.3	54.1	54	51.7	49.6	49	46.1	43.8	44.8	40	40.7	39.9
54.2	59.2	56.4	55.4	55.5	49.9	50	46.3	44.2	43.9	40	40.5	39.7
55.3	57.2	57.6	54.8	55.7	56.4	50.4	46.3	44.1	43.6	39.7	39.9	38.9
55.4	56.6	57.1	53.2	55.5	56.6	49.8	45.8	43.7	44.2	40	39.6	38.8
54.7	58.2	56.6	54.2	57.5	54.3	48.4	45.8	43.2	44.9	40.9	39.3	39.2
53.6	58.3	56.4	53.7	58.9	51.4	52	48.8	43.2	45	40.6	39.3	39.4
54.1	57.5	56.4	52.4	61	49.2	52.1	48.7	43.7	47.7	41.8	40.2	39.8
54.7	62.6	56.9	51.7	60.9	48.1	50.7	47.8	44.5	49.2	42.3	40.6	39.3
54.7	63.6	56.8	54.2	59.1	50.1	50.1	47.3	44.6	48.9	42.1	41	40.4
58.2	62.4	55.9	59.6	57.7	51	50.1	47.2	44.1	47.3	42.1	40.9	43.5
59.6	60.4	54.8	60.4	54.8	51.2	50.1	46.9	43.3	45.9	40.5	41.4	43.6
59.4	58.7	55.7	59.2	53.3	49.7	48.7	47.7	43.5	44.9	40.7	40.3	41
59.2	56.4	56.1	58.6	51.9	49.5	47.5	47.4	43.1	44.6	40.9	39.4	38.9
56.8	56.3	56.1	57.5	55.3	48	46.2	46.3	43.1	44.3	40.7	39.6	38.5
58	55.5	55.2	58.4	56.4	46.5	45.7	46.7	42.4	43.6	40.3	38.7	37.5
57.9	54	60.5	61.5	55.2	48.9	45.6	47	42.3	43.3	39.5	39.1	37.2
56.4	59.9	61.6	59.1	54.5	49.5	46	47.4	43	43.1	39.8	39.2	37.8
55.3	60.1	60.6	56.2	53.9	49.4	46.7	47.3	42.8	43.1	40	38.7	38.1
54.3	58.9	59.9	53.3	52.6	49.1	46.3	46.3	41.9	44.2	39.9	39.5	38.4
53.8	59.5	61.4	53.9	51.5	49	46.6	47.1	43.3	45.1	40.7	41.1	41
61.7	57.6	61.9	52.6	52.8	48.5	46.7	47.9	44	45.4	41.8	40.5	40.4
61.5	57.9	59.4	51.8	54.6	47.9	46.4	48.1	43.8	45.3	42	40.5	40.6
59	58	57.6	53	55	49.5	49.3	49.5	44.4	47.5	44.6	40.5	41
59.3	56.3	56.2	55.3	54.9	50.7	49.5	49.7	45.8	49.3	45.1	42	41.9
58.9	57.5	56.4	55.3	59.4	50.7	48.7	48.7	46	48.8	45.6	42.8	41.5
56.5	58.5	57.2	54.7	59.3	50.4	48.8	48.1	46.2	48.3	45.6	43.2	40.9
54.2	58.9	56.2	53.2	57.7	50.7	49.5	47.6	45.7	47.2	44.5	42.2	40.9
54.3	61.6	56.3	53.3	55.6	50.9	50.1	48	46.3	46.5	44	42.1	42.2
54.8	64.3	56.6	55.3	58.6	51.1	50	48	45.9	46.3	43.6	41.7	42.4
60.9	64.2	58.2	56.9	58.7	50.4	48.9	47.4	45.9	45.5	43.3	41	42.9
60.4	61	62	56.5	57.3	51.1	50.2	47.1	46.1	45.8	48.8	46.8	44.8
59.1	58.3	63.5	60.1	57.4	53.1	52.1	49.1	52.3	53.7	52	48.5	47.2
57.3	58.4	63.7	60.6	57.8	54.6	52.3	50.4	52.3	53.3	50.3	48.3	47.1
57	58.1	63.7	60.7	59	58.9	53	52.4	51.6	50.4	47.7	46.7	46.4
58.2	57.9	63	60.6	65.7	60.7	53.1	52.4	52	49.2	48.2	47.4	45.8
58.3	57.6	63	59.7	65.6	65.1	52.2	51.4	51.3	52.6	50.2	52.4	49.1
62.1	59.2	62	62.9	64.4	63.4	51.4	49.7	50.2	52.1	49.1	50.8	47.5
62.8	58.5	60	61.2	62.2	59.8	49.4	47.7	47.8	49	45.8	47.6	44.5
59.6	56.4	59.8	58.7	59.2	56.5	48	45.8	44.7	46.1	43.1	45.1	42
56.6	55.4	58.2	56.4	56	53.8	48.8	45.1	43.5	43.8	41.2	43.4	41.7
55.1	54.6	58.4	55.4	54.7	52.3	48.3	44.9	42.6	42.9	39.8	41.2	39.6
61.7	54.7	56.5	55.4	54.5	52.6	47.2	45.2	41.4	44.1	40.9	39.5	40.3
64.6	54.3	55.6	56.8	54.9	52.5	46.4	45.2	41.9	44.3	42.8	38.3	42.7
64.2	53.8	55.6	57.2	55.2	52.2	46.8	45.4	41.6	43.8	42.7	38.2	43
61.4	53.1	55	56	54.9	52.8	46.1	45.5	40.6	43	42.4	37.6	41.8
59.1	52.7	56	54.3	55.2	52.6	46.3	45.1	39.7	42.3	42.3	37.8	39.5
56.2	52.3	55.2	52.1	54.7	53	45.6	43.5	40.2	42.1	40.7	38	37.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500

55	52.6	54.3	51.6	53.5	53.1	47.6	44.8	40.7	43.9	42.1	39.6	38.2
54.2	52.3	54.8	51.5	53.1	52.5	47.2	45	41.6	43.8	42.7	39.8	39.3
52.3	52.9	55.2	50.7	53.4	52	46.7	44.5	42.3	44.6	44.3	40.3	41
52.6	53.8	55.7	51.6	53.6	51.5	47.3	44.5	43.4	47.5	46.1	43	42.5
55	54.6	56	51.7	54.1	53.4	51.2	50	46.3	50	48	44.7	44.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
37.5	37.9	54.3	37.4	37.1	37.7	42.2	39.7	34.7	32.7	32.1	25.2
37.2	37.1	52.2	36.5	36	37	41.5	38.6	33.9	31.7	30.4	24.2
36.9	37.1	48.2	34.6	34.5	34.9	39.2	36	32.1	31	28.3	23
36.7	36.3	44.6	34.9	34.6	34.1	37	34.3	31.8	28.8	26.7	23.8
37.4	37	41.8	34.5	34.1	34.6	40.1	34.9	32.7	30.3	28	25.9
37.4	36.1	39.8	33.8	33.5	34.4	39.4	34.3	32.4	30.1	28.1	25.7
38.1	35.4	39	35.2	33.7	34.9	39	36.5	35.4	31.8	30.5	29.1
39.1	37.9	38.9	34.2	34	34.4	39.1	36.8	34.5	31.2	29.6	26.9
37.3	36.3	38.2	33.6	33.8	34.3	39.1	35.7	32.9	30.3	27.4	24.6
36.6	35.2	37.5	32.7	33.5	33.5	38.7	34.5	31.9	29	25.4	22.9
37.9	36.9	38	33.9	35.5	47.8	40	37.1	35.3	31.5	27.7	26.8
37.9	36	38.4	34.9	35.8	51.2	39.9	37	35.2	31.5	27.6	26.8
38.3	36.1	38.5	34.5	35.8	51	38.9	35.6	33.4	30	26.5	25.6
38.1	37.4	38.7	35.4	36.1	46.9	38.8	35.1	33.3	29.7	27.3	25.5
39.7	38.8	39.7	36.1	36	43.1	40.8	38.1	34.8	30.4	28	24.8
39.7	38.9	40.2	36.8	35.9	40.1	40.6	38.2	35	31.5	28.6	25.4
40.5	39.3	39.8	36.5	35.7	37.6	38.2	35.7	32.8	29.9	27.1	24.5
40.3	39.3	39.7	36.2	35.8	36.4	38.9	37	35	32.3	25.9	23.3
40.1	39	39.8	36.3	35.5	35.3	39.5	36.9	34.3	31.5	25.6	23.3
40.2	39.1	39.9	36.8	35	34.8	37.4	35	31.8	28.8	24.9	22.8
39.5	39	39.8	36.4	35.2	35.4	36.4	34.9	31.6	28.5	25	22.8
38.4	37.9	40.2	36.4	35	34.4	35.5	32.8	29.7	27.2	23.9	22.6
37.9	39.5	40.4	36.5	33.9	33.1	38	34	31.3	28.7	26.2	22.7
37.3	37.8	39.5	35.4	33.7	33.4	38.7	34.2	32.1	29.7	27.5	22.9
36.9	36.8	38.8	33.9	33.7	33.6	38.4	33.8	31.7	29.7	27.3	23
37.8	36.9	38	34.1	34.4	35.1	38.1	35.8	33.4	31.3	29.6	26.6
36.7	35.5	39.8	34.8	35	35.2	38.6	37.1	35.4	34.2	31.6	27.5
46.5	48.9	45.8	43.4	44.8	43.3	48	40.9	37	36.8	38.5	33.9
46.2	48.7	45.7	43.4	45.2	45.1	47.7	42.4	43.4	40.9	39.1	35.9
42.9	45.1	43.2	42.8	44.5	44.4	46.2	41.9	42.6	40.2	38.5	35.8
40.9	41.8	41.7	40.7	42.5	41.5	44.3	40.8	40.5	38.2	37.1	35.5
38.8	38.5	39.5	37.8	39.2	38.9	41.9	38.3	37.8	37.3	37.1	33.8
36.7	36.1	38.3	35.7	36.7	37.1	40.8	38.1	36.7	36.5	36.3	33
36.1	34.8	38	34.3	35.5	35.9	42.1	37.5	35.7	35.2	33.5	29.4
37.4	36.6	37.6	33.4	34.3	34.7	43.3	37.8	37	33.6	30.2	26.3
37.3	36.2	35.7	34.1	35.4	36.1	43.8	39	37	32.2	28	24
39.8	38.4	36.5	36.4	35.2	35.4	42.9	38.7	36.3	31.7	27.7	25.7
39.9	38.5	36.5	36.3	34.9	35.2	41.9	37.6	34.8	31.7	27.9	25.7
38.9	37.2	35.8	35.2	35	36.1	42	37.8	34.8	30.5	26.5	24.2
37.4	36.6	35.9	34.4	35.1	35.8	40.9	37.1	34	29.6	29	23.3
37.5	38.4	36.8	35.3	35	35	40	36.7	34	29.9	29	23.8
37.6	38.2	37.4	35.7	35.3	35.1	41	38.4	35.6	30.6	28.2	25
39.4	38.8	38.9	36.3	35.9	35.1	40.9	38.1	34.8	30.3	27.5	24.9
42.2	41.5	41.6	41.5	42.7	42.7	41.2	38.4	35.6	33.5	32	27.2
42.3	41.6	41.8	41	41.8	41.8	41	37.6	34.9	32.8	31	26.4
41.2	41.4	40.7	39.2	39.3	39.1	39.6	36.3	33.4	31.1	28.5	25.2
40.2	40.4	40.1	37.9	38.2	38.2	40.2	36.3	33.2	30.3	26.9	24.2
41.4	42	41.7	41.4	40.8	43.3	43.1	42.1	40.1	39.8	36.2	35.2
40.5	41.3	41.6	41.2	40.6	43	42.9	41.7	39.8	39.5	35.9	33.9
39.2	40	41.4	39.5	39	40.2	41.5	39.8	38.8	36.9	32.8	30.7
39.3	41.3	41.2	39.2	40.2	41.3	41.3	39.5	37.1	35.2	30.5	28.2
38.7	39.5	39.7	37.5	38.3	38.7	39.1	37.2	34.8	32.7	28.2	25.7
38.8	38.5	38.4	36.7	36.4	36.4	37.5	34.9	31.9	29.7	25.9	23.6
38.9	38.3	39.4	37.3	35.6	35	37.4	32.9	30.2	28.2	25.1	22.9
38.6	39	39.9	38.4	37.6	36.5	40.3	36.2	34	30.7	27.1	23.3
38.8	39	39.9	38.2	37.6	36.6	40.3	37.1	34.1	30.9	27.1	23.4
39.3	39.7	40.4	38.3	36.9	37.1	41.4	38.9	34.7	31.9	27.9	23.9
39.6	40	41	38.7	37.9	38.8	40.5	39.7	36.7	35.9	33.3	35.1
44.5	46.2	46.3	44.5	48.7	46.6	43.8	43.2	44.3	42.7	43	42.9
44.5	46.2	46.2	44.5	48.6	46.5	43.7	43.2	44.3	42.7	42.9	42.8
41.7	42.9	42.9	41.8	45	43.3	42	41	40.9	39.7	39.5	39.2
39.5	40.1	40.3	39.3	41.7	40.5	39.6	39.3	39.2	38	37.7	36.5
38.2	38.2	38.2	37.1	39.2	38.4	38.3	38.1	36.5	35.2	34.5	33.3
37.9	36.6	36.9	35.4	36.8	36.5	37.3	36	33.7	31.8	30.8	29.6
37.3	36.6	36.6	34.9	35.5	35	37	34.8	31.3	30	28	26.5
37.8	37	37	35.9	36	35.5	37.1	35.7	33.1	32	29.5	26.7
37.7	37	36.7	35.4	36	35.7	38.1	35.9	33.8	35	29.9	26.6
37.4	37.8	38.4	36.6	35.7	35.7	38.9	42.7	38.6	36.9	32.1	26.8
40.9	39.8	40.2	38.4	37.4	37.2	40.9	41	37.3	35.3	31.2	28.1
40.2	39	39.5	37.3	37	36	39.2	38.4	35.2	33.3	29.7	27.7
40.5	40	40.5	37.9	36.7	36.8	37.4	36.2	33.8	31.4	30.1	27.6
41.1	41.2	41.2	38.7	37.2	37.6	38.1	36.4	34.2	32.4	30	27.4
42.9	42.3	44.1	41.1	42.9	41.3	39.6	36.1	34	32.8	30.5	28
42.5	42.2	43.3	40.4	41.7	40.1	38.7	35	32.9	31.4	29.2	26.9
41.5	42.1	42.6	39.6	39.7	38.3	39.5	35.8	31.5	31.1	29.3	24.6
41.4	41.8	41.7	39.2	38.6	37.5	39.3	35.9	31.7	31.1	29.2	23.9
42.2	41.6	41.9	39.6	38.3	37.3	40.4	35	31.1	29.7	27.1	23.7
42	41.6	42.2	39.8	38.4	37.1	40.7	34	31.1	29.6	27.2	23.9
42.2	41.9	41.7	39.6	38.2	37.3	38.7	35.6	31.5	29.5	27	23.9
44.5	44.9	42.8	40.4	38.8	38.1	39.8	37.2	34.1	30.8	27.4	24
45.6	45.3	42.9	40.4	38.8	37.9	39.7	36.8	34	30.7	27.5	24.4
46.5	45.6	43.6	41.5	41	41.2	40.4	37.8	37.6	36.6	34	32.5
46.1	45.3	43.8	41.3	40.5	40.4	40.1	36.5	36.2	35	32.5	30.7
46.3	45.7	45.5	41.6	40.5	39.8	41.5	36.7	35.6	32.6	30.4	28.3
46	47.8	46	42.4	40.5	39.5	40.8	36.6	35.3	31.8	29.3	26.5
44.8	47.1	45.1	41.9	39.8	38.3	39.3	36	34.2	30.9	27.9	24.9
42.3	44.1	42.6	40.3	38	36.5	37.5	33.9	32.5	28.9	26	23.6
40.3	41.3	40.3	39.7	36.9	35.7	37.8	33.8	31.7	28.1	25.4	22.9
40	39.6	38.6	37.6	35.5	36.2	36.4	33.2	30.9	29.3	25.7	22.8
38.1	37.4	37	36.1	34.2	37.4	36	32.9	29.8	28.5	25	22.5
39.5	37.9	36.8	35.5	35.8	37.3	37.1	34.6	32.2	32.3	29.2	30.3
38.3	37	36.3	35.2	35.1	36.6	37.5	36.4	33.2	30.8	27.7	28.3
38.1	36.5	35.9	35.6	35.8	35.6	37.3	36.4	32.9	31.2	27.8	25.8
37.2	35.6	35.5	35.2	35.2	35.4	39.4	35.9	32.4	29.8	26.3	24.3
36.8	35.2	35.1	34.5	34.5	34.1	37.6	34.2	30.9	28	24.6	22.9
36.9	35.2	35.6	34.7	33.1	33.7	35.9	32	28.3	26.1	22.9	22.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630 1/3 LZSmax 800 1/3 LZSmax 1000 1/3 LZSmax 1250 1/3 LZSmax 1600 1/3 LZSmax 2000 1/3 LZSmax 2500 1/3 LZSmax 3150 1/3 LZSmax 4000 1/3 LZSmax 5000 1/3 LZSmax 6300 1/3 LZSmax 8000

37.5	36.3	37.3	36	33.9	34.3	34.4	30.1	26.8	25.5	22.5	21.9
38.4	37.4	38.3	36.6	35.5	35.3	35.3	32.2	28.4	27.2	22.7	21.8
40.1	40.7	41.2	38.8	37.7	37.6	38.6	34.5	31.5	30.3	26.5	23
42.1	41.9	42.3	40.5	39.1	38.4	39.4	36.5	33.3	32	28.6	24.3
44.6	44.8	46.6	45.1	42.9	40.8	40.8	38.1	34.3	32.7	28.8	24.3

NM3_KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
24.6	24.4	24.2	24.7	50	52.6	50.5	52	55	51	52.9	53.2	57.5
24	24.1	24.2	24.7	50.6	50.5	51.5	49.8	53.3	49.4	52.9	53.6	55.7
23	23.3	23.8	24.6	49.8	50.2	48.9	49.2	50.4	49	51.7	52.4	54.9
23.6	23.3	23.8	24.6	49.6	47.9	46.8	49.6	47.7	47.8	51	52	54.8
25.7	25	24.4	24.8	48.7	47.4	46	47	46.2	47.7	51.6	58.1	54.7
25.5	24.8	24.4	24.8	46	45.8	45.6	45.6	45.9	48.2	50.9	55.1	53.8
28.9	26.3	24.5	24.8	45.3	44.8	46.6	45	47.9	48.8	50.9	53.3	53.4
26.7	24.9	24	24.7	43.9	45.2	44.8	45.1	49	47.2	52.1	52.6	53.1
24.4	23.7	23.7	24.6	42.2	42.9	44.4	48.7	48.9	46.9	51.9	51.8	53.7
23	23.1	23.7	24.6	42.3	43.8	47.6	48.8	48.8	49.1	51.3	52.6	54.2
25.2	24.7	24.7	24.8	44.3	44.1	45.5	50.8	48.6	48.4	50.3	51.1	52.7
25.2	24.7	24.7	24.8	46.8	43.1	43.3	49.8	49.3	49.3	49.5	51.7	52.7
24.3	23.9	24.2	24.7	43.9	43.8	43.2	49.8	50.6	48.3	49.2	51.1	52.7
24.7	24	24.1	24.6	41.8	42.1	46.2	47.8	49.1	49.3	51.9	50.8	51.4
23.7	23.4	23.9	24.7	40.4	41.9	47.7	48.5	48.7	49.6	52.6	51.7	51.3
23.8	23.6	24.1	24.7	40.4	46.6	47.4	48	49.1	48.1	52.9	51.7	51.1
23.4	23.5	23.9	24.7	39.8	45.7	44.5	45.5	48.1	48	52.9	51.2	51.2
22.7	23.3	23.8	24.7	43.8	45.8	44.2	45.6	49.6	46.5	50.6	50.8	50.8
23.2	23.2	23.9	24.7	43.6	45.4	47.2	45.6	50.3	46.2	50.6	53.3	50.7
22.7	23.5	24	24.8	45.6	43.1	46.9	51.4	50.5	48.3	52.2	53.2	50
22.3	23.5	24	24.8	43.8	41.1	47	50.1	50.9	47.6	52.6	52.9	51.8
22.3	23.4	24.2	24.8	42.7	41.3	47.2	49.7	50.2	47.7	52.9	52.7	52.2
22.4	23.8	24.4	24.8	42.9	43.2	47.3	50.8	51.2	49.1	53.3	52.8	52.9
22.7	24.2	24.7	25.1	43.9	42.5	46.8	50.7	51.4	49.7	51.4	52.4	52.6
22.6	24	24.5	25	43.3	40.1	47.2	49.5	51	47.7	50.6	52.5	51.9
24.7	23.9	24.2	24.8	44.1	39	47.7	48.7	50.3	47	50.2	52	52.3
27.1	24.8	24.3	24.8	44.8	43.2	48.5	52.1	49.3	46.5	50.3	51.3	51.2
30.3	28.7	27.1	26.2	49.2	48.1	45.3	52.7	53.2	46.4	50.2	53.1	52.4
36.1	36.3	30.4	27.5	47.5	45.7	45.3	48.9	50.9	46	50.1	53.6	51.8
35.6	35.6	29.9	27.4	44.7	45.3	45.7	47.7	47.8	48.2	52.9	53.6	51
34.2	33	28.6	26.7	44.6	45.5	45	49.2	47.2	47.3	50.7	53.8	50.7
31.8	30.3	27.1	25.8	44.9	51	45.5	49.6	47.1	46.2	51.7	54	50.7
30.7	29.1	26.5	25.4	48.1	47.2	45.2	48.4	48.8	46	52.7	53.6	50.7
27.4	26.3	24.9	24.9	45.1	45.2	46.3	48.4	49.8	47.6	52	53	50.8
24.9	24.5	24.2	24.6	42.8	44.1	45.5	48.2	47.5	45.5	51.1	52.5	51.2
23.3	23.5	23.8	24.6	42.8	44.8	45.2	47.6	48.1	45.4	51.2	52	50.7
25	24.2	24.4	25	41.7	44.1	44.8	47.1	48.9	49	51.8	53.3	50.6
24.9	24.2	24.3	25	41.9	45.8	42.6	48.7	50.4	48.9	51.6	51.6	50.8
23.7	23.5	23.9	24.7	42.5	46.1	42.8	47.9	49.3	48	52.1	51.1	51.9
22.9	23.1	23.8	24.6	43.8	47.9	46.1	48.6	47.8	47.3	50.6	52.1	51.2
22.7	23	23.7	24.6	49.3	47.4	47	48.5	47.6	46	49.1	51.9	51.2
23.8	23.3	23.8	24.6	48.3	49.2	48.9	48.8	46.5	46.1	49.4	55.8	51.5
23.7	23.2	23.7	24.6	48.3	48.7	47	46.6	46.8	47.5	50.5	54.6	53.5
25.1	24.4	24.4	24.8	50.5	48.5	45.9	47.7	49.3	49.4	51.8	53.3	54.5
24.7	24.1	24.2	24.7	49.3	48	44.9	48.6	52.7	48.2	50.4	53.1	54.8
24.2	23.8	24.1	24.7	51	44.5	53.5	52.1	53.5	48.2	49.9	53.6	55.3
23.6	23.5	24	24.7	49	44.3	51.7	48.4	51.1	48.6	49.6	53.8	53.5
32.3	29.6	27.7	26.1	48.8	51.8	50.7	46.5	49	48.9	50.7	55	52.6
31.2	28.5	27	25.7	49.5	53.4	49.9	46.6	50.2	49.4	50.8	53.1	52.2
28.8	26.4	25.5	25.1	50.2	51.1	48.9	49.2	50.9	49.3	50.5	52.2	55.4
26.6	24.9	24.6	24.8	51.1	50.4	50.1	50.7	49.9	49.6	49.7	53.4	57.2
24.5	23.7	24	24.6	50	52.7	48	49.5	48.1	50	52	53.5	55.4
23.1	23.1	23.7	24.5	49.6	51.9	47.9	53	48.4	51.3	53.4	54.4	55.5
23	23.3	24	24.5	50	50	55.6	55.5	48.7	49.2	52.4	53.5	56.3
23.1	23.4	24.2	24.6	51	50	51.9	53.7	48.8	49.2	51.8	52.4	56.7
23	23.4	24.1	24.6	51.1	53.2	49.9	51.4	49.8	49.4	52.7	52.3	55.5
23.4	23.4	24	24.6	49	49.9	49	49.2	48.9	49.5	52.1	53.3	57
32.8	29.8	27.8	25.9	47.5	48.1	46.6	47	47.9	49.7	52	53.6	62.4
45.8	43.9	39.9	34.7	45.9	47.8	44	45.6	47.9	50.3	50.6	53.8	60.4
45.6	43.8	39.7	34.5	45.2	46.1	43	45.6	48.1	49.6	50.1	58.3	58
41.7	40	36	31.2	44.9	43.7	44.2	50	46.9	48.1	51	58.2	56.3
38.5	36.6	32.7	28.6	44.2	44	44.5	48.9	47.7	48.2	51	56.7	55.4
34.7	32.9	29.4	26.7	43.2	43.4	44.3	49.2	49.5	48.3	51.3	55.8	55.4
30.8	29.3	26.7	25.5	44.1	45.4	44.9	47.3	47.9	48.3	50.4	56.4	53.9
27.5	26.3	25	24.9	42.6	45.9	45.7	47.1	48.3	49.2	50.3	56.5	52.5
25.9	24.8	24.5	24.8	43.7	46	46.3	48.9	49.1	47.2	49.3	54.3	52.3
24.9	24.1	24.2	24.7	42.2	45.2	47.3	48.6	46.5	46.1	49.3	54.1	58.5
26.3	25.8	25.3	25.2	42.2	43.6	48.8	49.3	46.1	46.7	49.5	52.5	57.7
27.3	26.6	25.4	25.1	43.3	42.6	49.6	55	47.9	46.7	48.6	51.3	57.7
27.2	26	25.2	25.1	42.9	44.1	50.1	53.9	50.6	48.9	50.9	53.9	55.9
26.3	25.3	24.7	24.9	45.4	46.9	48.9	52.2	50.8	54.8	61.2	59.1	56.8
26	24.8	24.3	24.8	46.6	48.6	50.9	55.1	51.3	51.8	57.6	56.8	56
25.8	25	24.5	24.9	44.6	47.8	52.7	53	49.5	49.1	55.2	57.3	55
25.1	24.5	24.2	24.8	44.3	51.2	50.3	50.4	48.6	49.5	52.9	56.5	54.4
23.5	23.5	23.9	24.6	46.2	47.8	49.4	50.5	50.1	48.3	53.4	54.2	56.2
22.9	23.1	23.7	24.6	43.7	45.5	50	51.8	50.9	49.1	53.7	52.8	57.1
22.8	22.9	23.6	24.6	43.3	45.5	47.9	52.2	50.6	49.3	53.8	52.6	59
22.8	22.9	23.6	24.6	44.2	46.1	46.8	50.2	53.5	48.9	53.1	52.9	61.2
22.9	23	23.8	24.7	44.1	46.3	46.3	49.6	53.7	50.2	52.4	55.2	61
23	23.1	23.8	24.7	44	45.2	48.5	50.4	53	51	52.2	59.2	58.3
23.1	23.2	23.8	24.6	42.8	49.2	48.7	51.1	52.6	51.4	56.4	56.6	57.1
29.7	25.2	24.1	24.6	46	47.8	48.2	51	51.8	54.5	58.4	56.1	56.4
28.1	24.5	23.9	24.6	46.2	45.3	46.4	50.6	53.6	57.7	57.6	56.3	56.5
25.9	23.7	23.7	24.6	43.5	44.7	49.2	50.9	56.4	57.6	57.4	55.9	56.6
24.3	23.3	23.8	24.6	41.3	44.7	54.3	55.8	60.5	57.6	57.4	55.9	56.9
23.4	23.1	23.8	24.6	41.9	48.5	58.8	60.2	61	55.4	59.3	55.5	56.9
22.9	22.9	23.7	24.6	50	47.6	57.4	57	58.1	52.7	59.5	59.7	56.5
22.5	22.8	23.7	24.6	47.1	49.9	53.5	54.9	54.9	51.2	58.8	56.6	55.2
22.4	22.8	23.6	24.6	47	48.5	50.8	51.5	51.3	52.4	58.6	53.4	54.6
22.1	22.8	23.6	24.6	45	47.2	48.1	49.7	49.8	52.4	58.6	53	53.8
27.6	25.4	24.3	24.8	44.6	46.3	48.1	48.8	49.6	57.3	59.6	54.1	54.1
26	24.5	24.1	24.7	43.9	43.5	48.4	60.4	59.9	55.5	56.9	61.8	53.2
24.3	23.7	24	24.6	43.9	43.1	49.5	58.4	56.7	53	54.4	61.4	52.4
23.3	23.2	23.8	24.6	44.5	41.6	47.3	55.3	53.3	51.9	54.3	59.1	52.2
22.6	23	23.7	24.6	46	40.8	48.2	53.2	50.9	50	55.7	56.2	51.3
22.3	22.8	23.6	24.6	45.3	46.1	49.4	53.9	51.3	49.8	56.2	54.4	51.3

NM3_KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
22	22.7	23.6	24.6	45.6	46	48.8	54.3	51.8	49.7	57.9	53.9	51.2
22.2	22.7	23.6	24.6	46.1	46.8	49.8	52.1	49.5	52.5	56.9	52.3	50.7
22.5	22.8	23.6	24.6	47.5	45.8	46.6	49.8	47.7	50.2	57.2	50.5	51.3
23.3	23.2	23.8	24.7	45.5	46.5	45.1	49.4	45.4	50	55.6	49.6	51.7
23.4	23.2	23.8	24.7	43.6	44.1	45.2	50	49	50.3	55.4	52.2	53.2

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
57	51.6	53.6	53.6	53.2	49	52.5	52.1	46.4	43.3	41.1	37	37.1
55.2	51.1	52.7	52	52.5	48.9	51.2	51	44.5	42.1	39.8	36.1	35.9
54.9	50.4	52.4	51.4	52.7	48.9	50.3	50.6	43.8	41.9	39.6	36	35.6
54.7	50.6	52.4	51.5	52.7	50.4	49.7	50	43.3	41.6	39.1	36.1	35.5
54.9	52.8	51.6	51.7	52.8	50.2	50.2	51	44.5	43.2	40.1	36.4	35.3
54.6	51.7	51.1	51.8	52.9	50.2	49	49	43.7	42.4	39.4	36.4	34.9
54.4	51.6	50.1	52.1	52.9	50.4	48.3	48.4	44.7	44.1	39.8	36.2	34
54.1	51.6	50.2	53.3	52.3	50.2	48	46.7	43.3	41.9	40.3	37.3	35.5
53.3	51.3	50.2	51.6	51.1	49.8	48.5	45.3	42.1	40.4	38.5	35.6	34.7
52.7	50.7	48.9	50.7	50.8	49.5	47	45.5	42	40.4	38.1	35.7	34.4
53.3	52.9	50.2	51.2	51.3	49.6	46.2	44.9	41	40.6	37.3	36.3	34.4
53.3	52.4	50.1	51.4	51.4	49.9	45.5	45.2	40.9	39.5	37.2	37.1	35.4
53.2	50.9	49.8	50.8	50.6	48.5	45.5	45.4	41.3	39.1	37.4	37.7	35.6
54.1	50.6	54.4	50.3	50.3	48.4	46	46.5	41.4	39	38.3	37.8	36
54.2	52.7	55.9	50.1	51.1	49.8	46.1	46.1	41	39.4	39.6	37.8	37.3
54	52.6	54.1	50.3	50.6	50.5	46.6	45.2	41.2	40.7	38.7	38.9	38.4
53.1	52.7	54.4	50.6	51.6	50.7	46.4	45.7	41.2	40.2	38.5	39.3	38.7
54.8	52.7	54.1	50.5	51.4	49.7	46.8	46.5	41.4	39.6	38.5	39.6	38.5
55.1	51.7	53	52.8	51.8	49.8	46.7	45.9	41.3	39.6	38.4	39.4	38.5
54.6	51.2	52.2	52	50.3	49	45.9	44.9	40.5	39.3	38.5	39.5	38.6
54.7	50.6	51.9	51.3	49.8	48.1	45.8	44.2	40.2	38.1	37.5	38.3	37.9
53.5	50.9	50.6	50.5	49.7	47.8	44.8	43.5	40.1	37.8	36.5	37	36.8
53.1	50.8	52.3	50	48.9	47.2	44.6	43.3	39.8	37.4	36.1	37.2	37.8
52.4	51.3	51.5	49.3	48.2	46.4	43.6	43.2	40.4	36.4	35.7	36.3	36.8
52.7	50.7	50.9	49	48.2	46.3	43.5	42.6	40.1	36.4	35.9	36.3	35.8
53.3	51.5	50.6	48	48.4	46.8	42.4	41.7	39.3	36.9	35.5	36.4	35.3
53.4	51.5	52.2	47.4	48.4	46.6	41.7	41.5	39.1	37.7	35.4	36.3	35
53	50.5	50.5	46.7	47.7	46.3	41.5	40.8	38.6	37.5	35.4	36.1	35
53.3	49.4	49.8	47.5	47.6	45.5	41.2	40.9	39.1	39.1	40.8	43	45.2
54.9	50.7	50.1	48.3	48.2	44.8	40.8	41.4	38.9	39.4	38.9	40.9	41.8
55.9	52.6	51.8	47.6	47.7	45.5	41.4	44.5	39.4	38.8	37.9	38.8	38.5
54.5	51.5	50	47.4	48.6	45.4	41.7	45.9	38.5	37.7	36.6	36.7	36.1
53.9	51	49.3	46.5	48.5	44.8	41.9	43.7	38	37.1	35.4	35.5	34.9
53.6	50.7	48.8	46	47.5	44.7	41.6	42.7	37.7	36.4	34.6	35.4	34.2
54.1	50.3	48.9	46.6	47.4	44.2	41.5	41.7	37.6	36.8	34.4	34.7	34
54.9	50.3	50.6	46.5	47.8	44.8	41.4	40.4	37.5	37.7	37.5	36.4	35.2
55	50.1	49.6	46.6	47.9	44.8	41.4	40.5	37.2	37.4	36.6	36.3	34.9
54.2	50.7	49.1	47.4	48	46.8	41.4	40.7	37.5	37.8	37.1	37.7	36.1
54.5	49.4	49.3	47.1	46.7	48.7	41.7	41.3	37.7	37.1	36.8	37.5	35.8
53.9	48.5	48.7	46.9	46.4	47.2	41.5	41.5	38.7	37.6	36.6	36.7	35.6
53.8	48.9	49.5	46.9	46.2	46.7	41.6	43.2	39.1	37.7	36.4	36.7	36
53.8	48.9	49.9	46.9	46.9	46	41.6	42.6	38.5	37.5	36.4	36.9	37.7
54.2	50.3	49.6	47	46.8	45.1	42.5	42.6	38.6	38.1	37.2	37.7	37.8
54.2	49.5	50	46.8	46.6	44.7	42.9	43.6	39	40	38.1	39.4	38.8
54.4	48.3	49.8	47.1	46.5	45.1	43.2	44	39.7	40.1	38.8	41.1	40.8
53	48.1	48.2	47	47.3	46.3	43.1	43.6	39.7	39.3	38.3	40	40.4
52.6	49.4	48.4	46.2	46.4	46.4	42.9	43.1	39.9	39.2	38.1	39.4	39.9
52.9	50.9	48.3	46	46	45.6	42.7	43.2	39.9	39.8	38.4	39.4	39.8
52.5	53.7	49.3	47.1	45.8	45.2	42.7	43.3	39.9	40	39.5	39.2	39.2
52.7	52.8	50.1	48.1	46.2	45	42.6	43.7	39.4	40.1	39	38.6	39.1
52.6	51.9	51.4	48.3	49.1	44.5	42.7	42.8	39.2	39.5	38.7	38.5	39.5
56.5	53.2	54.8	49.3	49.2	45.7	43.4	42.4	39	39.4	38.5	38.1	38.3
56.4	51	54.5	54.3	48.4	45	42.7	43.2	39.4	38.8	38.2	38.2	38.2
55.8	51.2	54.8	51.4	47.6	45.1	42.5	44	39.7	38.7	38.3	38.4	37.7
55.7	52.1	57.6	49.2	48.3	45.7	42.4	44.4	39.8	38.9	38.8	38.2	38
54.7	50.2	57.7	47.6	50.7	47.5	43.1	44.8	39.9	39.3	39.2	38.4	38.6
55.5	50.7	59.2	47.4	49.2	46.4	43.1	47.5	41.4	40.1	38.9	38.5	38.6
54.5	50.5	57.8	47.7	49	46.2	43.5	47.3	41.4	40.1	39.1	39.3	39.1
54.7	54.3	54.8	49.6	49.6	46.5	43.2	45.9	40.4	39.7	40.2	39.3	38.5
54.5	59	53.1	49.5	48.6	45.9	42.8	44.9	40	40.1	41	41.7	42.8
54.5	58.5	50.8	48.9	47.4	46.6	42.6	43.9	40	39	38.9	39.5	40.1
54.5	57.1	50.6	48	45.6	45.4	42.3	44.1	40.4	38.4	37.8	38	38.2
54.4	55.9	51.9	46.3	45.3	45.2	41.9	43.2	39.9	38.7	37.3	37.6	36.6
53.6	57	54.9	45.1	45.1	45.7	41.6	42.7	39	38.1	36.7	37.3	35.9
53.7	58.4	53.4	45.7	44.8	45.9	41.7	42.8	38.7	37.9	36.5	36.9	35.9
59.9	56.2	53.1	48.1	44.7	45.8	42.1	41.7	38.9	38.5	36.9	36.9	36.4
59.5	53.3	52.3	48.1	44.9	46	41.5	42.4	39.5	38	37.7	36.8	36.4
58.4	51.4	51.5	48.4	45.6	45.8	41.3	43.1	39.5	37.9	37.9	36.6	36.5
58.8	52.6	50.4	48.3	45.4	45.8	41.9	44.2	39.7	39.2	38.1	37.3	37.3
59.5	51.7	50.7	46.9	45.9	46.6	43	44.7	40.4	39.8	39.6	39.7	38.7
57.6	50.8	52.5	46.2	45.9	47.5	43.1	44.4	41.2	39.5	39.8	39.6	38.6
55.8	50.8	53.6	47.2	46	47.5	42.9	45.2	41.9	39.7	40.5	40.4	40.1
54.5	53.2	52.9	49.2	48.3	48.7	44.2	47.5	44	40.4	40.4	41	41.1
54.9	54.5	54.9	50.3	47.9	47.4	45.3	47.9	44.5	41.6	40.7	41.3	41.6
55.8	53.2	57.6	49.6	48.2	47	45.5	47.2	44.5	42.2	40.4	40.7	41.7
55.5	52.1	55.6	49.9	48.4	46.9	45.2	45.8	43.5	41.5	40.1	40.9	41
54.9	51.5	54.6	50	49	47.2	45.3	45.4	43.2	41.4	40.9	41.2	41.1
54.8	52.8	54.6	50	48.3	47.2	45.3	45.5	43	40.9	42	41.2	40.9
54.6	55.4	57.3	49.4	48.1	46.3	45.1	44.6	42.8	40.1	42.3	41.3	40.9
58.4	55.7	55.5	49.4	48.5	46.3	45	44.4	42.8	40.3	42.2	42.2	41.9
61	56.3	55.5	51	49.9	46.7	44.9	45.9	48.8	47	44.8	44.5	44.8
62.5	58.7	56.4	51.6	51.7	48.4	50.8	50.4	47.7	46.3	46.4	45.6	45.1
62.3	59.6	57.7	54.3	51.8	49	50.1	48.9	46.5	45.4	45.2	45.6	44.8
61.9	58.7	57.8	57.7	52.2	51.4	51.3	48.1	46.8	46.6	44.9	45.9	45
61.4	57.6	64.2	60.9	51.3	49.6	49.5	48.2	46.9	46.7	45.7	44.8	45.5
59.8	59.8	62.2	59.9	49.4	47.7	47.8	49.1	45.8	47.6	44.5	42.3	44.1
58.9	58.7	59.2	56.5	48	45.8	44.7	46.1	43.1	45.1	41.9	40.4	41.3
57.3	56.4	56	53.9	46.9	44.4	42.8	43.8	41.2	42.7	40.1	38.4	38.6
57.4	54.9	54.5	52.1	46.6	44.4	42.5	42.8	39.9	41.2	39.6	38.1	37.4
56.3	53.7	53.9	51.7	47.1	43.8	41	41.7	39	39.5	37.7	36.6	35.6
55.3	53.4	53.8	51.8	46.3	43.9	40.9	41.5	39	38.3	37.6	36.3	35.1
54.5	55.5	53.8	51.9	45.4	44.7	41.3	43.8	40.9	37.8	39.7	37.8	36.3
53.7	56.1	54.1	51.6	45.4	44.4	40.5	43	41.8	37.3	41.8	37.1	35.5
54.1	54.1	54.1	51.7	45.5	44.6	39.6	42.1	41.8	37.2	39.5	36.4	35.1
54	52	54.3	51.9	45.1	43.5	39.1	41.7	40.8	37.1	37.5	36.3	34.7
53.7	51.3	53.3	52.5	44.6	42.7	39.4	41.5	40	37	37.1	36.2	34.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
52.6	50.9	52.7	52.2	44.4	43.2	39.8	42	40.2	37.6	37.8	36.9	35.2
53.3	50.6	52.3	51.9	45.9	44.4	40.3	42.7	41.6	39.1	37.9	37.2	36.3
53.5	50.1	52.7	50.7	45.4	43.7	41.2	43	42.6	39.3	39.4	38.2	37.4
54.4	49.7	52.1	50.3	46.2	43.3	42.1	44.5	43.9	40.3	40.9	40.1	40.6
54.5	50.3	53.4	51.3	47.2	44	43.2	47.2	45.6	42.8	42.4	42	41.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
52.3	36.5	36	37	40.6	38.6	33.9	31.7	30.5	24.3	24	24
48.3	34.5	34.1	34.9	39.3	36	32.2	30	28	23	23	23.3
44.6	33.9	33.7	33.4	36.8	33.8	29.5	28.8	26.2	22.6	22.6	23
41.8	33.9	33.6	33.4	35.8	33	29.1	28.2	25.6	22.5	22.6	23
39.8	33.7	33.5	33.2	36.9	33.9	31.6	28.4	25.7	23.1	23.1	23
38.4	32.7	31.8	33.3	37.3	32.8	31	28.9	26.4	24.5	24.3	24.2
37.9	32.5	31.6	33.2	37.3	33.8	31.2	29	26.4	24.5	24.3	24
38	33.5	33.3	34	38.1	35.7	32.9	30.3	27.4	24.6	24.4	23.7
37.3	32.5	33	33.5	37.7	34.4	31.8	29	25.4	22.9	23	23.1
36.9	32	32.6	32.4	37.1	33.2	30.1	27.6	24.1	22.1	22.5	23
37	32.6	33.1	33.5	37.5	34.1	30.7	28	24.7	22.5	22.5	23
37.8	33.6	35.1	47.8	38.9	35.6	33.4	30	26.5	25.3	24.3	23.9
38	34	34.4	47	36.8	33.5	31.2	28	25	24.1	23.4	23.5
38.3	34.1	35.4	43.1	36.7	33.6	32.2	29	25.2	24.3	23.4	23.4
38.7	35.2	35.4	40.1	38.5	34.6	32.8	29.3	26	23.6	22.9	23.1
39.4	35.7	35.4	37.6	38.2	35.7	32.8	29.7	27.1	24.5	23.3	23.3
39.5	36.2	35	36	37.5	34.7	31.6	28.4	25.7	23.3	22.7	23.1
39.2	35.7	35.3	35.3	37.9	35.6	32.4	29.9	25.5	22.8	22.4	23
39.2	35.8	34.9	34.1	37.4	34.2	31.9	28.8	24.1	22.5	22.4	23
39.6	36.3	34.4	33.8	36.4	33.8	30.4	27.7	23.4	22.1	22.2	22.9
39.5	35.9	34.4	34.4	35.4	32.8	29.6	27.2	23.9	22.1	22	23.1
39.1	35.1	33.9	33	34.8	32.1	28.4	25.9	23	21.9	22	23
39.5	35.4	33.7	32.7	34.8	32.2	28.1	25.6	23.1	22.3	22.2	23.2
38.8	33.8	33.3	32.9	38.1	33.2	31.4	28.4	25.2	22.2	22.2	23.3
37.9	33.2	33.3	33.3	36.7	32.6	30.8	29	26.7	22.6	22.4	23.5
37.6	33.2	33.2	33.4	36.7	33.1	30.9	29.2	26.7	22.8	22.5	23.5
37.7	33.5	33.8	34.2	37.1	35	32.2	30.3	27.1	24.8	23.5	23.5
38.6	33.9	34.3	34.2	36.8	35	33.3	32.6	30.1	26.6	26	24.3
43	40.8	41.9	40.7	44.9	38.9	35.6	35.2	36.7	32.9	29.5	28.1
41.3	40.7	41.9	41.5	43.9	40.4	40.5	38.2	36.5	33.9	33.6	33.1
39.6	37.8	39.2	38.8	41.9	38.3	37.5	35.5	34	32.1	30.8	29.7
38.3	35.8	36.8	37.1	39.9	37.6	36.5	34.9	33.3	30.9	29.5	28.5
37.8	34.3	35.3	35.9	39.4	37.3	35.6	35.2	33.6	29.5	27.4	26.3
37.5	33.1	34.4	34.5	40.1	36.6	34.8	33.1	30.2	26.3	24.9	24.5
35.7	32.9	33.7	33.8	41.9	37.1	35.7	32.3	28	24.1	23.3	23.5
34.1	33	33.5	33.7	42.6	36.8	35.6	31.2	26.5	23.1	22.8	23.1
33.8	33.3	33.6	33.8	40.5	36.8	34.6	30.5	25.9	23.2	23.1	23.4
34.8	34.5	33.8	33.7	40.9	36.6	33.7	30.1	26.2	24.1	23.6	23.5
34.8	34.4	34.1	35.3	40.9	37	34	29.6	25.4	23	22.9	23.1
34.6	33.9	34.4	35	38.7	34.9	32.4	28.7	24.8	22.6	22.5	22.9
35.8	34	34.2	34	38	34.6	32	29.3	28	23.3	22.3	22.9
36.5	35	34.7	34.1	39.8	36.6	34.2	29.9	27.4	23.5	22.6	22.9
37.4	35.6	35.2	34.5	39.4	36.1	33	29.3	25.9	23.9	23.1	23
38.9	36.3	35.8	34.5	38.8	35.5	32.2	28.7	25.5	23.7	22.8	22.9
40.5	39.2	39.3	39.1	38.9	35.8	33.1	30.8	28.5	25.2	24	23.7
39.9	37.9	38.1	37.4	38.6	35.5	32.6	30	26.9	24.2	23.5	23.4
39.5	37.3	37.3	37	39.2	35.3	32.2	29.2	26	23.7	23.2	23.2
39.6	37.3	37.3	37	39.3	36.2	32.5	29.2	26.3	23.7	23.3	23.3
40	38.6	38.7	39.9	40.9	39.4	37	36.2	32.4	30.5	28.2	26.2
40	38.3	38	38.3	40.2	37.9	36.6	34.5	30.1	27.8	26.4	24.8
39.7	37.5	38	38.7	39.1	37.3	34.8	32.7	28.2	25.7	24.5	23.7
38.4	36.5	36.4	36.4	37.5	34.7	32	29.7	25.9	23.6	23.1	23.1
38	36.3	35.6	35	35.9	32.9	30.1	28.2	25	22.9	22.6	22.9
38.3	36.2	35	34.5	36	32	29.4	27.2	23.9	22.2	22.3	22.7
39.3	37.3	35.4	34.5	37.2	32.1	29.5	27.5	24.2	22.5	22.5	23
39.5	37.6	36.6	35.7	38.9	35.9	32.5	29.7	25.8	22.9	22.5	23
39.8	37.7	36.5	35.7	40.1	37.2	33	30.7	26.3	22.6	22.4	22.9
39.9	38.1	36.8	36.9	39.4	38.3	34.5	31.5	27.7	23.9	23.3	23.3
39.2	37.8	37	37.1	39.6	37.4	35.4	35.7	33.3	35.4	33.5	30.1
42.9	41.8	45.1	43.4	42	41	41	39.7	39.6	39.2	41.7	40
40.4	39.3	41.7	40.5	39.6	39.3	39.3	38	37.8	36.6	38.5	36.6
38.2	37.1	39.2	38.4	38.3	38.1	36.6	35.2	34.5	33.3	34.7	32.9
36.9	35.4	36.8	36.6	37	35.7	33.8	31.9	30.8	29.6	30.9	29.3
36.3	34.3	35.3	35	36.3	34.9	31.4	30	28	26.5	27.6	26.4
36.3	34.3	34.5	34	35.5	33.2	30.1	28.7	26.6	25	25.5	24.7
36.5	34.8	34.4	34.6	35.5	34.3	31.4	30.1	28	25.7	24.8	24.1
36.4	34.8	35.2	34.9	36.7	35.2	32	30.7	27.9	25.2	23.7	23.5
36.3	34.8	35.2	34.8	37.2	35.4	32.5	33.2	28.2	24.9	23.4	23.4
38.1	36.3	35.3	34.8	37.5	38.5	35.2	33.3	29.7	26.6	26.1	25.5
39	36.8	36.3	35.3	36.6	35.6	32.6	31.2	28.8	26.6	26.2	25.4
38.7	36.8	36.2	35.1	36.1	34.9	31.2	29.4	27	25	24.7	24.2
40.5	37.9	36.7	36.8	36.9	35.2	32.9	31	29	26.5	24.9	24.1
41.1	38.6	37.1	37.2	36.6	35	32.4	31.4	29	26.2	24.7	24
42.6	39.6	39.8	38.2	36.7	33.5	30.9	29.2	26.8	24.7	23.5	23.5
41.6	39.1	38.6	37.3	38.4	33.6	30.8	29	25.6	23.5	22.9	23.1
41.4	38.6	37.7	37.1	38.4	35	31.1	29.7	27	23.1	22.5	22.9
41.4	38.7	37.8	36.9	37.2	33.6	30.4	28.8	26.4	23.1	22.5	22.7
41.4	39.1	37.9	36.8	38.7	32.9	30.4	27.9	25.7	23.2	22.5	22.6
41.2	39.1	37.7	36.9	37.9	33.3	30.6	28.8	26	23.6	22.7	22.8
41.6	39.2	38	37.2	38.6	35.7	31.6	28.9	25.9	23.6	22.8	23
42.6	40	38.3	37.4	38.8	35.5	33.2	30.1	27.1	24	22.9	23
42.7	40.2	38.6	37.8	38.8	36.3	33.8	30.2	27.1	24.4	23	23
43.3	40.9	40.1	39.6	38.5	35.6	34.6	32.7	30.5	28.3	25.9	23.7
43.7	40.9	40	39.4	39.5	35.5	34.4	31.8	29.3	26.5	24.4	23.3
45.2	41.7	39.8	38.3	39.4	36.1	34.2	30.9	27.9	24.9	23.4	23
42.6	39.8	38	36.4	37.2	33.9	32.3	28.9	26	23.6	22.9	22.9
40.3	39.3	36.9	35.7	36.8	33.2	31.3	27.8	24.6	22.9	22.5	22.7
38.5	37.7	35.5	34.4	36.4	33.1	30.9	27.2	24.2	22.5	22.3	22.7
37	36.2	34.2	33.6	35.6	32.9	29.8	28.2	24.7	22.4	22.1	22.7
35.6	34.9	32.8	35.6	33.3	30.3	27.6	26.4	23.6	22.1	22	22.7
35.4	34.7	32.7	34.8	32.9	29.7	27	25.8	23.3	22	22.1	22.7
35.7	34.8	34.6	35.5	37.1	34.7	31.4	30.3	26.8	25.8	24.3	23.7
35.4	35	34.9	35.3	36.9	35.3	31.6	29.8	26.2	24.3	23.2	23.2
34.7	34.1	34.5	34.1	37.2	34.2	30.9	28	24.6	22.8	22.5	22.9
34.7	33.7	33.1	33.3	35	31.4	28.4	26.1	22.9	22	22.2	22.8
35	33.8	32.8	33.3	34.4	30.1	26.8	25.1	21.8	21.6	22	22.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000 1/3 LZSmin 1250 1/3 LZSmin 1600 1/3 LZSmin 2000 1/3 LZSmin 2500 1/3 LZSmin 3150 1/3 LZSmin 4000 1/3 LZSmin 5000 1/3 LZSmin 6300 1/3 LZSmin 8000 1/3 LZSmin 10000 1/3 LZSmin 12500

35.6	34.5	33	33.7	33.1	29.4	26.5	24.9	21.7	21.6	21.9	22.6
37.3	36	33.9	34.2	34	29.3	26.4	25.4	22.4	21.7	21.9	22.6
38.2	36.6	35.5	35.2	35.2	32	28.1	27.2	22.7	21.7	22.1	22.6
41.3	38.8	37.7	37.6	38.5	34.7	31.6	30.3	26.4	22.9	22.4	22.8
42.3	40.5	39.1	38.3	38.7	36.4	32.8	31.4	27.7	23.9	23.2	23.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
24.1	24.6	23.6	No	No	
23.8	24.5	21.1	No	No	
23.7	24.5	18.5	No	No	
23.6	24.5	14.1	No	No	
23.7	24.5	13.7	No	No	
24.1	24.7	7.3	No	No	
24	24.7	4.4	No	No	
23.7	24.5	4.9	No	No	
23.7	24.5	1.4	No	No	
23.7	24.5	-0.1	No	No	
23.7	24.5	3.5	No	No	
24.2	24.7	4.4	No	No	
23.9	24.6	7	No	No	
23.9	24.5	3.2	No	No	
23.8	24.6	1.6	No	No	
23.8	24.6	0.2	No	No	
23.7	24.5	0.6	No	No	
23.7	24.6	-0.1	No	No	
23.7	24.6	0.1	No	No	
23.7	24.5	1.9	No	No	
23.9	24.7	0.6	No	No	
23.8	24.7	0.3	No	No	
24	24.7	0.4	No	No	
23.9	24.7	0.1	No	No	
24.1	24.7	0.3	No	No	
24	24.7	4.6	No	No	
23.9	24.7	4.9	No	No	
24.2	24.7	14.8	No	No	
26.4	25.6	17.4	No	No	
28.6	26.7	9.4	No	No	
26.9	25.8	10.6	No	No	
26.2	25.4	9.9	No	No	
25	24.9	5.3	No	No	
24.2	24.6	0.5	No	No	
23.8	24.5	7.5	No	No	
23.7	24.5	4.3	No	No	
23.8	24.6	4.9	No	No	
23.9	24.7	0.9	No	No	
23.7	24.6	4.9	No	No	
23.7	24.6	0.7	No	No	
23.6	24.5	0.7	No	No	
23.6	24.5	0.7	No	No	
23.6	24.5	0.2	No	No	
23.6	24.5	11.8	No	No	
24	24.7	9.4	No	No	
23.9	24.6	4.9	No	No	
23.9	24.6	3.1	No	No	
23.9	24.6	11.9	No	No	
25.4	25.1	5.2	No	No	
24.6	24.8	5.4	No	No	
24	24.6	8.7	No	No	
23.7	24.5	5	No	No	
23.6	24.4	2	No	No	
23.6	24.4	0	No	No	
23.8	24.4	2.4	No	No	
23.8	24.5	0.2	No	No	
23.8	24.5	0.9	No	No	
24	24.5	0	No	No	
28	25.9	3	No	No	
36	31.2	11.5	No	No	
32.7	28.7	11.7	No	No	
29.4	26.7	7.3	No	No	
26.7	25.5	6.3	No	No	
25	24.9	3.7	No	No	
24.4	24.7	0.2	No	No	
24.1	24.7	1.4	No	No	
23.9	24.5	2.6	No	No	
23.8	24.5	10.3	No	No	
24.9	25	7.6	No	No	
24.7	24.9	4.7	No	No	
24.2	24.7	4.2	No	No	
24.1	24.7	1.3	No	No	
24.1	24.7	11.2	No	No	
23.9	24.6	7.5	No	No	
23.6	24.5	5.4	No	No	
23.5	24.5	1.6	No	No	
23.5	24.5	0.1	No	No	
23.5	24.5	0.6	No	No	
23.6	24.5	0	No	No	
23.7	24.6	0.5	No	No	
23.7	24.6	1.2	No	No	
23.7	24.5	3.3	No	No	
23.7	24.6	0.1	No	No	
23.6	24.5	0.2	No	No	
23.7	24.5	6.6	No	No	
23.7	24.5	7.7	No	No	
23.6	24.4	4.2	No	No	
23.6	24.5	3.3	No	No	
23.5	24.5	3.3	No	No	
23.4	24.4	2.6	No	No	
23.4	24.4	7.7	No	No	
23.9	24.6	4.9	No	No	
23.7	24.5	2.5	No	No	
23.7	24.5	1.8	No	No	
23.5	24.5	0	No	No	
23.5	24.5	-0.2	No	No	

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.5	24.5	0.6	No	No	
23.5	24.5	0	No	No	
23.5	24.5	0.3	No	No	
23.5	24.5	-0.2	No	No	
23.7	24.6	0.7	No	No	

105		11/19/2021	1:56:38 PM	55.7	68.6	55.3	54.2	90.2	8.8	52.4	58.4	61.8	59.4	54.1	56.8	50.9	51.7	47.9	
106		11/19/2021	1:56:39 PM	53.6	66.9	55.0	54.1	90.1	12.2	51.1	56	65.2	60.3	57.7	53.8	48.9	49.5	45.5	
107		11/19/2021	1:56:40 PM	50.8	63.2	54.1	52.2	90.2	11.7	53.4	65	62	59.2	54.5	49.8	45.1	46.6	43.5	
108		11/19/2021	1:56:41 PM	50.3	66.9	52.2	51.2	90.1	10.6	58.6	53.9	61.6	57.8	53.9	49.3	45.3	45.7	43	
109		11/19/2021	1:56:42 PM	50.3	62.1	51.2	50.6	90.2	11.1	51.7	57.3	57.4	58.4	52.8	48.6	45.6	44	44	
110		11/19/2021	1:56:43 PM	49.7	60.7	50.6	50.1	90.2	12.2	54.1	56.3	57.9	57.2	57.4	47.4	45.1	43.6	43.2	
111		11/19/2021	1:56:44 PM	49.6	60.7	50.1	49.8	90.1	10.5	54.6	52.8	60.1	58.3	54.5	45.6	44.4	42.8	44.4	
112		11/19/2021	1:56:45 PM	49.7	60.7	49.8	49.7	90.2	11.2	50.3	55	55.3	58.1	52.2	45.4	44.8	43.2	44.2	
113		11/19/2021	1:56:46 PM	49.7	60.7	49.8	49.6	90.2	11	51.4	54.5	58.5	58.2	52.9	45.4	44.8	43.9	44.1	
114		11/19/2021	1:56:47 PM	51.4	63.7	51.0	49.8	90.6	9.9	49.8	53.1	58.7	58.6	53.6	46.2	46	44.5	46.4	
115		11/19/2021	1:56:48 PM	51.9	63.2	51.7	51.0	90.3	9.9	52.2	54.6	55.9	59.4	52.8	47.0	45.5	45.6	46.4	
116		11/19/2021	1:56:49 PM	51.5	64.5	51.9	51.5	90.2	11.2	57.3	53	60.8	59.9	53.9	46.8	45.7	46.3	45	
117		11/19/2021	1:56:50 PM	49.9	67.5	51.5	50.5	90.1	12.4	51.5	55.1	60.3	59.5	53.4	48.0	44.5	44.4	42.9	
118		11/19/2021	1:56:51 PM	49.1	62.1	50.5	49.7	90.2	13	52.7	56.4	60.3	58.2	54.6	47.3	45	44.2	41.6	
119		11/19/2021	1:56:52 PM	49.7	63.2	49.9	49.6	90.1	13.1	52.7	56.2	60.6	59.3	53.1	50.2	45.3	44.6	41.5	
120		11/19/2021	1:56:53 PM	49.4	60.7	49.7	49.5	90.2	12	51.4	55.1	61.5	58.1	53.5	46.2	44	43.5	43.5	
121		11/19/2021	1:56:54 PM	49.4	68.0	49.6	49.2	90.2	13	51.1	55.3	61.7	59.5	53.3	46.2	43.8	43.4	43.1	
122		11/19/2021	1:56:55 PM	49.4	66.9	49.9	49.3	90.2	13.2	50.1	56.4	60.6	60.2	53.5	45.6	43.8	43.8	42.9	
123		11/19/2021	1:56:56 PM	49.0	63.2	49.5	49.0	90.4	15	49.0	56.4	59.5	61.6	54.2	46.3	42.7	42	42.2	
124		11/19/2021	1:56:57 PM	47.8	63.2	49.0	48.3	90.2	15.6	50.5	55.3	60.4	62	53.9	44.9	42	41.3	41	
125		11/19/2021	1:56:58 PM	49.8	62.7	49.5	48.3	90.1	13	53.9	53.5	62.8	57.9	54.8	45.3	43.8	42.1	44	
126		11/19/2021	1:56:59 PM	51.5	63.7	50.9	49.5	90.2	12.7	51.5	56	61.3	62.3	55.8	47.6	46.1	45.4	45.3	
127		11/19/2021	1:57:00 PM	55.5	67.7	54.7	51.0	90.2	9	51.0	55.7	60.4	63.5	55.2	50.2	51.8	49.5	49.1	
128		11/19/2021	1:57:01 PM	57.5	70.0	56.6	54.7	90.3	8	53.7	58.3	58.4	63	57.5	53.0	54.1	53.7	49.9	
129		11/19/2021	1:57:02 PM	58.0	70.0	57.5	56.6	90.3	8.5	53.3	58	62.3	61.7	56.5	53.5	53.8	55	50.5	
130		11/19/2021	1:57:03 PM	55.0	69.2	57.5	56.0	90.2	14	51.7	57	65.6	61.8	55.2	53.1	50.4	51.4	46.9	
131		11/19/2021	1:57:04 PM	52.5	63.2	56.0	54.1	90.2	15.3	57.0	56.9	71	61.1	53.9	51.5	48.2	48.3	44.7	
132		11/19/2021	1:57:05 PM	50.9	62.7	54.1	52.4	90.1	14.8	49.3	56.7	68.8	59.4	55.3	49.2	46.4	46.7	42.9	
133		11/19/2021	1:57:06 PM	51.7	71.9	52.3	51.9	90.3	12.5	56.9	54.3	65	59.5	55.4	48.9	48	46.6	43.5	
134		11/19/2021	1:57:07 PM	50.0	62.1	51.9	50.7	90.1	14.1	49.1	53.9	63.9	59.2	54.5	48.3	47.1	46.1	40.6	
135		11/19/2021	1:57:08 PM	48.8	60.7	50.7	49.6	90.4	14.8	55.3	54.6	63.3	57.6	55	47.6	45	43.6	41	
136		11/19/2021	1:57:09 PM	48.8	62.1	49.6	49.1	90.4	15.4	55.2	53.1	63.9	59.8	53.9	47.1	43.1	42.5	41.9	
137		11/19/2021	1:57:10 PM	46.9	56.7	49.1	47.8	90.3	15.7	56.3	54.8	64.4	57.2	54.1	46.5	42.3	41.2	38.6	
138		11/19/2021	1:57:11 PM	47.6	58.4	47.8	47.6	90.2	14.6	52.8	57.6	62.3	57.9	55.2	45.4	42.7	40.4	40.1	
139		11/19/2021	1:57:12 PM	47.0	56.7	47.7	47.2	90.4	14.7	48.2	54.7	61.3	57.5	53.5	45.7	42.8	40.2	39.7	
140		11/19/2021	1:57:13 PM	46.9	58.4	47.2	46.8	90.4	14.7	53.8	54.9	61.2	57.3	56.1	45.9	41.9	39.8	39.4	
141		11/19/2021	1:57:14 PM	45.1	56.7	47.1	45.9	90.4	15.9	52.0	56.8	58.8	58.9	55.1	45.2	41.5	38.6	35.9	
142		11/19/2021	1:57:15 PM	46.1	53.7	46.2	45.6	90.4	15.1	55.7	57.2	59	57.5	53.2	45.4	42.5	38.8	38.2	
143		11/19/2021	1:57:16 PM	48.0	59.7	47.5	46.1	90.4	14	54.2	62.2	58.5	59.1	52.8	45.7	43.5	40.6	41.9	
144		11/19/2021	1:57:17 PM	51.7	66.2	50.9	47.5	90.3	12.7	53.5	54.6	58.2	62.2	54.9	47.8	46	45.3	45.6	
145		11/19/2021	1:57:18 PM	52.6	64.1	52.1	50.9	90.4	16.6	55.3	53.2	57.8	68.5	62.9	49.6	45.7	45.5	46.1	
146		11/19/2021	1:57:19 PM	52.1	65.1	52.2	51.5	90.6	16.4	54.5	55.6	60.5	66.9	61.2	49.9	45.7	44.8	45.1	
147		11/19/2021	1:57:20 PM	53.7	66.9	53.5	52.2	90.3	12.6	56.6	55.5	59	65.5	63.7	48.9	46.4	47.1	47.6	
148		11/19/2021	1:57:21 PM	52.0	66.0	53.1	52.5	90.6	12.8	52.5	58.1	58.7	62.6	60	48.3	43.4	43.9	46.6	
149		11/19/2021	1:57:22 PM	48.7	59.7	52.4	50.5	90.6	13.4	52.7	60.3	57.4	60.7	54.1	47.2	43	42.9	42.1	
150		11/19/2021	1:57:23 PM	51.5	63.2	51.4	50.2	90.3	11.1	52.3	59.3	59.9	60.4	52.3	48.4	44.5	45.5	45.7	
151		11/19/2021	1:57:24 PM	50.5	62.1	51.4	50.7	90.4	13.5	56.0	55.9	58.5	61.3	54.5	49.9	43	43.8	44.6	
152		11/19/2021	1:57:25 PM	48.2	59.7	50.7	49.4	90.3	17.3	56.6	53.7	61.8	63.5	54.9	46.1	42	40.9	41.1	
153		11/19/2021	1:57:26 PM	47.1	58.4	49.5	48.0	90.4	15.4	59.7	55.6	63.2	61.6	52.2	46.0	41.1	40.8	39.5	
154		11/19/2021	1:57:27 PM	47.0	59.7	47.9	47.2	90.6	17.8	55.7	59.6	60.7	61.3	54.7	46.2	41.2	39.6	39.3	
155		11/19/2021	1:57:28 PM	49.9	64.1	49.4	47.5	90.4	16.9	55.9	56.3	63.3	64.7	55.7	46.2	42.7	41.8	43.1	
156		11/19/2021	1:57:29 PM	51.0	63.7	50.4	49.4	90.6	16.6	55.3	52.3	64.1	65.7	57.8	46.3	43.2	43.5	45.4	
157		11/19/2021	1:57:30 PM	52.3	63.7	51.7	50.4	90.4	17.1	48.3	54.2	58.8	69.9	59.2	47.5	44.7	44.9	46.9	
158		11/19/2021	1:57:31 PM	53.5	67.7	53.3	51.7	90.6	17.4	48.6	56.5	57.1	70.3	55.7	48.1	46.1	47.6	47.5	
159		11/19/2021	1:57:32 PM	51.8	67.3	52.6	52.1	90.6	20.3	53.3	53.3	56	72.9	54.6	47.9	44	46.2	45.2	
160		11/19/2021	1:57:33 PM	51.2	62.7	52.1	51.6	90.6	15	52.7	55.7	58.4	69.7	54.5	49.1	44	45.3	44.7	
161		11/19/2021	1:57:34 PM	50.1	63.7	51.8	50.5	90.4	12.7	49.4	52.9	64.2	58	52.4	46.2	42.5	42.3	45.1	
162		11/19/2021	1:57:35 PM	49.4	60.7	50.5	49.8	90.6	11.4	50.6	54.3	61.7	59.1	50.9	45.3	42.2	41.9	43.7	
163		11/19/2021	1:57:36 PM	50.0	62.1	50.2	49.9	90.6	11.9	50.8	54.4	58.6	60.9	52.3	46.7	42.8	42.4	43.8	
164		11/19/2021	1:57:37 PM	50.5	68.1	50.7	50.0	90.6	11.8	51.0	53.1	54.8	59.3	52.2	46.3	44.5	45.5	44.5	
165		11/19/2021	1:57:38 PM	53.1	79.8	52.2	50.1	90.6	10.4	49.2	57.9	57	63.1	54.6	47.7	46.3	47	46.3	
166		11/19/2021	1:57:39 PM	52.3	68.7	52.3	52.1	90.4	10.5	49.8	55.1	55.1	60.4	53.9	50.2	45.9	46.8	46.3	
167		11/19/2021	1:57:40 PM	54.1	79.2	53.6	52.2	90.4	8.1	52.5	54.3	56.7	60.4	54.4	49.1	46	48.6	48	
168		11/19/2021	1:57:41 PM	50.8	63.7	53.4	51.9	90.6	13.9	49.9	54.7	57	63.2	53.5	48.3	45.2	46.2	43.8	
169		11/19/2021	1:57:42 PM	50.8	62.7	52.0	51.3	90.6	12.2	51.9	55.6	61.5	62.1	52.7	47.2	44.3	45.2	44.3	
170		11/19/2021	1:57:43 PM	51.8	62.1	51.7	51.3	90.6	12	55.9	54	57.5	63.6	52.9	48.5	45.6	45.4	46	
171		11/19/2021	1:57:44 PM	51.8	66.0	52.1	51.3	90.6	13.3	56.0	54.6	57.4	62.7	55.1	52.0	47.6	45.6	44.4	
172		11/19/2021	1:57:45 PM	50.6	65.1	52.3	50.7	90.6	13.3	52.9	53.8	59.6	63.2	54.3	50.8	45.4	45.6	42.9	
173		11/19/2021	1:57:46 PM	50.2	62.1	50.7	50.1	90.6	12.6	57.3	53.3	58.2	61.1	56.4	47.2	44.5	44	43.7	
174		11/19/2021	1:57:47 PM	51.0	62.7	50.9	50.6	90.6	13.4	58.8	54.5	58.4	62.4	55.5	49.3	45.7	46	43.8	
175		11/19/2021	1:57:48 PM	51.7	64.5	51.5	50.9	90.6	14.3	50.0	54.8	59.6	64.2	58.2	51.3	46.2	46.1	43.5	
176		11/19/2021	1:57:49 PM	52.0	63.2	51.8	51.5	90.6	12.7	50.2	56.4	58.7	64.2	59.6	51.6	46.5	46.9	43.8	
177		11/19/2021	1:57:50 PM	51.3	64.8	51.9	51.4	90.4	13.5	50.9	54.9	61.4	61.4	58.9	51.9	45.3	45.8	43.6	
178		11/19/2021	1:57:51 PM	52.7	65.7	52.3	51.4	90.6	12.3	50.5	55.8	62	62.5	59.7	52.8	46.3	46.2	45.3	
179		11/19/2021	1:57:52 PM	57.5	85.2	56.2	52.3	90.4	9.7	54.4	54.3	56.5	63.6	61.7	56.3	49.2	47.5	51.8	
180		11/19/2021	1:57:53 PM	60.2	73.2	59.2	55.9	90.6	12.1	61.2	54	59.7	63.2	70.3	64.1	54.8	46.5	45.2	
181		11/19/2021	1:57:54 PM	60.6	75.4	60.4	59.1	90.6	11.4	56.1	56.5	64.4	66.6	67.4	65.9	58.7	48.9	48.7	
182		11/19/2021	1:57:55 PM	62.4	83.8	61.8	60.0	90.6	9.8	56.6	56.9	66	66.2	68.9	66.6	60.3	50.6	50.9	
183		11/19/2021	1:57:56 PM	67.7	83.6	66.5	61.4	90.3	8.2	63.5	54.8	63.7	66.2	70.6	72.7	65.8	57.5	55.1	
184		11/19/2021	1:57:57 PM	58.4	74.5	66.2	62.9	90.7	11.8	62.8	57.4	66.2	64.5	64.9	64.3	56.2	48.3	46.2	
185		11/19/2021	1:57:58 PM	53.1	65.4	62.8	59.3	90.4	13	58.1	63.1	59.3	60.4	64.2	54.0	47.9	45.6	44.9	
186		11/19/2021	1:57:59 PM	51.4	63.7	59.2	56.1	90.6	12.6	64.7	57.5	60.6	62.2	60.1	49.7	46.5	45.2	43.7	
187		11/19/2021	1:58:00 PM	50.3	62.7	56.0	53.4	90.6	11.2	63.1	58.6	59	58.5	58	48.9	45	43	44.1	
188		11/19/2021	1:58:01 PM	48.5	61.5	53.4	51.0	90.6	12.2	58.8	54.8	57.1	57.9	55.6	47.2	44	42.2	40.8	
189		11/19/2021	1:58:02 PM	47.3	56.7	50.9	49.0	90.6	14	59.3	56.1	56.2	57.7	54.9	46.7	43.1	41.1	38.9	
190		11/19/2021	1:58:03 PM	48.5	60.7	49.0	48.7	90.7	11.8	51.3	57.4	59	56.3	55.1	46.3	43.5	41.8	41.1	
191		11/19/2021	1:58:04 PM	48.9	60.7	48.9	48.6	90.6	11.6	52.6	57.3	55.6	57.1	55.7	46.3	42.7	40.8	42.7	
192		11/19/2021	1:58:05 PM	48.9	62.1	49.1	48.8	90.7	17.3	56.6	56.2	58.1	58.2	56.8	47.8	43.8	41.3	40.5	
193		11/19/2021	1:58:06 PM	48.3	60.7	48.8	48.4	90.6	14.2	55.9	62.5	66.4	61.5	57.7	46.8	44	42.3	40.3	
194		11/19/2021	1:58:07 PM	49.7	63.2	49.4	48.5	90.6	12.2	54.8	64.5	59	56.8	58.2	47.9	45	41.7	41.9	
195		11/19/2021	1:58:08 PM	49.8	64.5	50.0	49.1	90.6	11	53.2	53.9	57.8	57.8	55.6	45.9	43.8	40.4	43.2	
196		11/19/2021	1:58:09 PM	48.1	58.4	49.6	48.7	90.6	13.8	52.8	57.7	56.1	57.4	56.5	48.8	44.8	39.6	39	
197		11/19/2021	1:58:10 PM	49.2	62.7	49.2	48.5	90.6	14.9	54.7	59.1	59	57.7	59.3	49.9	44.9	39.3	40.4	

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000	
198		11/19/2021	1:58:11 PM	51.6	64.8	51.0	49.2	90.6	11.7	59.0	62	62.5	57.3	59.7	54.5	49.3	40.1	40	
199		11/19/2021	1:58:12 PM	52.5	66.0	52.1	51.0	90.7	12.1	58.0	53.2	59.5	59.8	59.3	57.4	49.3	39.9	40	
200		11/19/2021	1:58:13 PM	52.3	65.1	52.5	52.1	90.7	11	55.0	56.5	56.5	58.6	58.1	57.2	49.8	41.4	41.3	
201		11/19/2021	1:58:14 PM	56.0	72.2	55.7	51.9	90.6	9	61.9	56.5	57.7	58.2	58	60.4	53.1	46.3	43.8	
202		11/19/2021	1:58:15 PM	53.9	71.2	56.4	54.1	90.6	9.9	59.0	56.5	56.7	58.1	60.4	59.3	51.8	47.7	42.2	
203		11/19/2021	1:58:16 PM	48.9	59.7	54.0	51.6	90.6	11.4	57.1	54.6	56.8	55.1	56.5	48.3	42.3	43.9	41.7	
204		11/19/2021	1:58:17 PM	51.5	66.0	52.0	50.4	90.6	10.9	55.9	52.8	54.6	57.3	56.8	47.1	42.8	44	45.8	
205		11/19/2021	1:58:18 PM	51.0	62.7	52.0	51.4	90.6	8.8	56.9	54.5	61.2	54.3	55.1	48.3	41.9	43.2	45.8	
206		11/19/2021	1:58:19 PM	49.0	59.7	51.4	50.0	90.6	10.3	58.6	55.6	54.8	56.1	52.1	44.0	41.2	43.5	43.7	
207		11/19/2021	1:58:20 PM	51.7	71.5	51.6	49.6	90.6	7.2	53.7	51.3	58.6	54.4	49.9	45.0	41.1	44.2	46.7	
208		11/19/2021	1:58:21 PM	49.0	61.5	51.6	50.1	90.4	10	57.4	52.3	56.7	54.5	51.2	45.2	41.4	42.5	43.6	
209		11/19/2021	1:58:22 PM	48.3	59.7	50.0	49.0	90.6	9.8	59.1	55.7	57	55.6	49.3	43.8	40.5	41.7	42.7	
210		11/19/2021	1:58:23 PM	51.5	68.7	51.4	48.1	90.6	7.9	58.2	55.3	55.5	56.3	49.9	44.1	41.3	42.3	46.3	

39.6	29.5	28.5	53.1	57.6	62.2	60	56.1	56.1	50.2	51.2	47.5	40.7
39.6	29.3	28.5	52.6	57.4	64.8	60.6	56.8	55.4	50.2	51.1	47.2	39.8
38.9	28.2	28.3	52.9	64.3	64.8	60.1	56.8	54.5	49.3	50.1	46.2	40.3
38.4	30.6	28.5	58.4	62.2	63.2	59.3	55.4	52.1	47.2	48.1	44.5	38.9
40.5	32.5	28.7	56.7	59.3	62.1	58.8	54.6	50.6	46.2	46.8	44.1	40
38.8	31.1	28.6	56	58.4	59.9	58.7	56.5	49.3	45.9	45.2	43.8	39.7
39.8	31.3	28.5	55.4	56.6	60.1	58.1	56.4	48.2	45.4	44.2	44.1	39.7
40.2	31.1	28.5	53.7	55.3	59.6	58.4	55.4	46.9	44.9	43.5	44.2	40
39.1	31.1	28.5	51.9	55	58.4	58.5	53.7	46	44.9	43.7	44.2	39.9
42.6	32.6	28.5	52.1	55	58.9	58.6	53.6	46	45.8	44.2	45.9	41.9
43.4	30.9	28.4	51.9	55.1	58.6	59.2	53.5	46.9	45.8	45.3	46.4	43.2
43.3	31.3	28.6	56.3	54.4	59.8	59.8	53.9	46.9	45.7	46.1	46.3	43.8
40.5	31.4	28.6	55.6	54.9	60.5	59.8	53.7	47.6	45.7	45.9	45.4	43
37.3	30.4	28.5	53.7	55.9	60.6	59.7	54.6	47.6	45.2	45	44	41.5
37.3	30.4	28.4	53.7	56.5	60.8	59.4	54	49.6	45.4	44.9	42.6	39.4
40.3	30.9	28.5	52.7	56.3	61.6	59.6	53.7	49.3	45.2	44.7	43.2	39.8
40	31	28.6	52.3	55.6	61.8	59.4	53.8	47.6	44.3	43.7	43.2	40.1
40.1	29.8	28.5	51.5	56.7	61.7	60.1	53.6	46.8	44.3	44.1	43.6	40.7
39.9	29.2	28.5	50.4	57.2	61.3	61.3	54.4	46.5	43.7	43.6	43	40.4
37.8	28.3	28.5	50.5	56.4	60.5	62.2	54	46.1	43.1	42.5	42.2	39.6
41.8	29.9	28.6	53.4	55.1	62.3	61.6	54.5	45.6	43.5	42.1	43.6	41.2
42.3	33.4	29.2	53.1	55.9	62.5	61.6	55.5	46.9	45.4	44.6	44.7	42.1
46.2	37.2	30.2	52	56	61.4	63.2	55.8	49.6	50.8	48.5	48.2	45.4
45	36.5	30.1	53.5	58.7	60.7	63.3	56.9	51.9	53.1	52.4	49.3	45.7
45.4	36	30.8	53.4	58.1	61.9	63.1	56.8	53.2	53.6	54.2	50.1	45.5
42.6	34	30.5	53.5	58.1	64.5	62.4	56.9	53.3	53.4	54.2	49.9	45.2
40.6	31.8	29.2	56.1	57.5	69.5	62.5	55.8	53.3	51.7	52.5	48.2	43.6
38.2	30.9	30.5	55.1	58.1	69.5	61.5	55.2	52.2	49.8	50.3	46.3	41.8
41.5	36.7	31.3	56	56.5	69	60.4	55.4	50.5	48.2	48.4	44.4	41.6
34.9	28.9	29	55.2	55.6	66.9	59.9	55.5	49.5	48.1	47.2	43.8	41
36.5	30.6	29.4	54.7	54.9	65.2	59.3	55.3	48.9	47.4	46.4	42	38.2
40.3	28.9	28.6	55.6	54.3	64.2	59.5	55	48.2	45.9	44.8	42.2	39.9
35.6	28.6	28.4	56.6	54.6	64.6	59.5	54.3	47.6	44.3	43.4	41.8	39.3
38.3	28	28.5	55.8	56.7	64.2	58.3	55.2	46.9	43.4	42.1	40.5	38.2
38.2	27.7	28.4	54.4	56.5	62.9	58	54.9	46	42.9	41.2	40.4	38.6
37.3	28.2	28.3	53.7	55.7	62.2	58	55.6	46	42.9	40.5	39.7	38
33	26.7	28.4	52.8	56.4	61.8	58.6	55.8	46	42.2	40.1	39.7	37.8
35.8	27.1	28.3	55	57.5	60.2	58.5	55.2	45.6	42.4	39.2	38.3	35.9
38.5	27.5	28.3	54.8	60.9	59.6	58.9	54	45.7	43.2	40.2	41	38.1
41.6	29.1	28.3	54.7	60.6	59.4	61.4	54.8	47.5	45.3	44.7	44.5	40.7
40.7	29	28.4	55	57.8	58.5	67.5	61.4	49	45.7	45.4	45.7	41
38.2	29.5	28.3	55.2	56.3	59.9	67.4	61.7	49.8	45.8	45.1	45.7	40.7
42.7	32.2	28.5	56.7	56.1	59.7	67.7	63.2	49.7	46.4	46.7	47.2	42.2
44.7	31.2	28.5	55.8	57.8	59.4	65.9	63	49.2	46	46.4	46.9	44
38.8	30.2	28.8	53.9	59.5	59	64.3	61.3	48.6	44.5	44.9	46.8	44
42.6	32.4	28.6	53.5	59.7	59.7	62.3	58.1	48.6	44.4	45.1	45.5	42.5
42.1	30.1	28.4	55.3	59.7	59.4	61.7	55.4	49.9	44.5	45.2	45.6	42.8
39.7	29.1	28.4	56.5	57.7	61.5	63.1	55.3	49.4	43.4	44.2	44.8	42.1
38.6	29.5	28.4	59	56.8	63.2	63.1	54.8	47.6	42.6	42.4	43.2	41.4
37.1	29.6	28.3	58.3	59.2	62	61.7	54.3	46.7	41.8	41.4	40.9	39.4
41.5	31.8	28.4	57.3	59.4	63.2	63.8	55.6	46.4	42.3	41.5	42.4	40.9
43	30.2	28.4	56.9	57.3	63.9	65.1	57.6	46.5	42.9	42.9	44.4	42.5
40.8	30.7	28.5	55.3	55.1	63.7	68.9	58.7	47.2	44.3	44.4	46.2	42
43.3	31.3	28.6	52.1	56.2	61	70	58	47.9	45.8	47.1	47.7	42.6
43.3	30.3	28.6	52.7	56.6	59.3	72.1	56.7	48	45.3	46.4	46.6	43.5
43.2	29.1	28.4	52.9	55.5	58.3	72.3	55.5	48.7	44.6	46.3	45.8	43.3
43	27.6	28.3	52.9	55.1	62.7	70.3	54.9	48.7	44.1	45.7	46.2	44
42.6	28.6	28.4	51.2	54.9	62.6	66.5	53.5	47.2	43.1	43.7	44.8	42.9
43.4	30.4	28.7	51.8	55.4	61.8	63.4	52.4	46.5	43.1	42.9	44.6	43.3
40.4	32.7	28.7	51.6	54.3	59.9	62.1	52.6	46.6	44	44.6	45	43.3
45.4	39.8	32.3	51.1	57	57.5	62.7	54	47.5	45.8	46.3	46.1	44.5
43	33.8	28.9	50.8	56.8	57.2	62.5	54.1	49.4	45.8	46.7	46	44.6
46.4	40.2	30.6	52.4	55.9	57.2	61.4	54.4	49.4	46	48.1	47.7	45.8
39.8	35	30	51.9	55.4	57	62.7	54.2	49.2	45.9	47.9	47.1	45.5
43.4	31.3	28.9	52.3	55.6	60.3	62.8	54	48.7	45.6	46.8	45.6	43.5
43.6	30	28.3	55.2	55.8	60.9	63.4	53.2	48.3	45.4	45.8	45.6	43.9
41.3	30.3	28.4	56.2	55	58.3	63.3	54.8	51.2	47.4	46.1	45.5	43.7
39.6	30.7	28.5	55.5	54.5	59.6	63.7	54.7	51.7	47.5	46.7	45.3	42.4
39.8	28.4	28.4	56.5	54.2	59.2	63.2	56	50.6	45.7	45.1	43.9	40.4
40.3	28.6	28.4	58.6	54.9	58.8	62.5	56.2	49.2	45.6	45.6	44.1	40.6
40.2	29.4	28.5	57.8	55.1	59.5	63.7	57.6	51	46	46	43.9	41.3
39.9	29	28.4	54.6	56	59.5	64.6	59	51.7	46.5	46.6	43.9	40.2
38.3	29.3	28.5	52.4	56.3	61.2	63.9	59	51.9	46.4	46.8	44.4	40.2
42.3	32.7	28.9	51.6	55.9	62	62.7	59.6	52.4	46.2	46.3	44.8	41.4
49.4	42.2	32.2	53.8	56	61.5	63.4	61.7	55.9	48.5	47.6	51.7	48.9
44.1	37.6	29.9	60.3	54.7	59.7	63.5	68.9	62.7	53.3	46.8	49	46.4
46.1	37.7	30.1	60	56.3	63.8	65.8	69.1	65.4	57.5	48.2	48.5	46.3
49.5	41.7	31.7	58.2	57.1	65.9	66.2	69.1	66.2	59.4	49.9	50.4	49.4
49.7	42.3	34.1	61.8	56.4	64.7	66.5	70.7	71.5	64.5	56.1	54.1	49.6
43.8	35.9	29.8	63.9	57.6	65.6	66.6	69.7	71.3	64.5	55.8	53.5	49.3
41.4	29.6	28.5	61.6	62.4	65.6	65.1	67.8	68.1	60.9	52.6	50.3	46.4
40.3	28.9	28.3	63.9	60.9	62.6	63.2	65.4	64.1	57	49.6	47.7	43.9
40.8	30.3	28.6	63.8	59.4	61.7	62.2	62.9	60.1	53.4	47.4	45.6	41.9
38.5	28.3	28.4	63.7	58.9	60.3	60.1	60.6	56.3	50	45.2	44.8	41.2
36.7	28.2	28.4	61.5	57.7	59.2	59.2	58	52.8	47.3	43.5	42.7	39.8
39.4	27.8	28.4	60.1	57.8	59.4	58.4	56.4	50.1	45.1	42.1	41.2	39.5
41.5	30.4	28.4	56.6	57.9	58	57.5	55.9	48.2	44.2	42.1	42.2	40.8
39.9	28.3	28.4	56.2	57.4	57.9	58.3	56.6	47.7	43.9	41.6	42.3	41.2
37.1	27.8	28.4	56.7	62.4	65.7	60.6	57.7	47.8	44.1	42	41	39.9
40.4	30.5	28.5	56.5	65.1	65.2	60.3	58.1	47.9	44.8	42	41.7	40.3
42.6	36.2	28.7	55.1	62.8	62.5	58.9	58	47.7	44.8	41.8	43.1	42.4
35.7	26.9	28.3	54.2	59.5	60.2	57.9	57.1	48.4	44.6	40.8	42.6	41.7
36.4	30.4	28.5	54.6	59.3	59	58	58.5	49.5	44.8	40.1	40.8	38.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
38.3	27.9	28.4	58.4	62	62.5	58.3	59.9	53.5	48.3	40.1	40.8	38.2
37.5	28.1	28.3	59.2	61.3	61	59.7	59.7	56.3	49	40.1	40.4	38.1
38.5	28.1	28.4	57.7	58	60.3	59.5	59.9	57.3	50	40.9	41	38.6
40.5	28.6	28.4	61.4	57.6	58.5	59.2	58.9	60.2	52.6	45.7	43.4	40.1
38.8	30.3	28.4	60.7	57.3	58.2	58.6	60	61.6	54.1	47.4	44	40.7
38.7	28.5	28.4	59.7	56.4	57.3	58	59.5	58.8	51.2	46.5	42.3	39
44.2	35.1	28.4	58	55.6	56.9	57.2	57.8	55.1	47.8	45	45.6	43.6
43.8	33.2	28.7	58.2	54.8	60.8	57.2	57.3	52	45.5	44.7	45.9	43.9
40.8	32.5	28.8	58.4	55.4	59.3	56.5	56.1	50	43.6	43.9	45.8	43.8
45.3	35.3	28.4	57.8	55.3	58.2	55.6	53.9	47.2	42.2	44.1	46.6	45
42.1	29	28.3	57.6	53.5	58.4	55.1	52.1	46.2	41.9	44.1	46.6	45
41.5	28.5	28.3	58.9	54.9	58.3	55.4	51.5	45.5	41.5	43.1	44.8	43.3
45.6	36.9	28.7	59.7	55.7	56.7	56.2	50.2	44.6	41.5	42.7	46.1	45.5

30.8	28.6	51.5	54.7	60.7	59.3	54.7	53.5	49	50.3	46.4	39.8	29.9
29.9	28.6	51	56.5	61.5	59.3	54.6	54.3	49.3	50.1	46.1	39.5	29.5
29.6	28.5	50.5	56.7	63.1	59.4	55.4	52.1	47.2	48.1	44.5	38.9	28.6
30.2	28.5	52.1	59	62.2	58.3	54.5	50.5	46.1	46.8	43.5	37.9	28.1
31.7	28.6	54.1	57.8	59.8	57.7	53.2	49.2	45.7	45.2	43.7	38.8	30.2
31.4	28.6	53.8	56.6	58.6	57.7	53.5	48.1	45.3	44.3	43.4	39.1	31.2
31.4	28.6	53.6	54.5	58.4	57.5	55.4	46.8	44.7	43.4	43.4	39	31.2
31.2	28.6	51.8	54.5	57.3	57.3	53.7	45.9	44.6	43.2	44	39.6	31.2
31.2	28.5	50.7	53.2	57.1	57.8	53	45.5	44.5	43.2	44	39.4	31.1
32.3	28.5	50.3	53.8	58.2	58.1	53.1	45.6	44.8	43.7	44.1	39.5	31.1
32.2	28.5	50.6	53.2	56.8	58.4	53.1	45.9	45.5	44.1	45.7	41.7	31.4
31.8	28.5	52	53.5	56.8	58.9	53	46.5	45.5	45.3	45.4	42.9	31.2
32.2	28.6	53.4	53.5	59.6	59.3	53.2	46.8	44.9	45	44	41.6	31.1
31.4	28.6	52.4	54.2	59.8	58.7	53.5	47.1	44.8	44.5	42.7	39.4	30.5
30.8	28.5	52.7	55.8	59.7	58.5	53.3	47.6	44.9	44.5	41.9	37.8	29.8
31.5	28.5	51.9	55.2	60.2	58.4	53.2	47.6	44.4	43.7	42	38.2	30.6
31	28.5	51.3	54.9	60.9	58.2	53.1	46.7	43.9	43.4	42.6	39.4	30.2
31.1	28.5	50.4	55	60.6	58.7	53	46	43.7	43.5	42.8	39.8	30.2
30.2	28.5	49.5	55.6	60.1	59.7	53.6	46	43.1	42.5	42.2	39.6	29.5
29.5	28.5	49.2	55.1	59.8	61.2	53.6	45.3	42.4	41.7	41.5	38.4	28.8
29.7	28.5	50.1	53.6	60.4	59.4	53.9	45.3	42.3	41.6	41.5	38.7	28.8
32.5	29	51.6	53.6	61.4	59.4	54.5	45.6	43.4	42.1	43.7	41.1	29.7
36.2	29.9	51	55.2	60.8	61.4	55	46.8	45.4	44.6	44.8	41.7	32.5
37	30.2	51.2	56.5	59.3	62.4	55.4	49.6	50.8	48.6	48.2	45	36.1
36.1	30.6	52.5	55.6	58.8	62.2	56.1	51.8	52.9	52.4	49.2	45	35.8
36.2	30.9	52.1	57.1	61.9	61.9	55.7	52.5	51.7	52.5	48.2	43.6	34.7
34.7	30.4	52	56.5	64.5	61.4	54.5	52.2	49.8	50.3	46.3	41.9	33.2
33.1	30.7	52.4	56.6	69	60.1	54.5	50.5	48.1	48.4	44.4	39.8	31.9
36.3	31.4	52.3	55.2	66.9	59.4	54.7	49.5	47.8	47.2	43.8	39.2	31.7
35.2	30.8	52.5	54.2	65.3	59.3	54.7	48.8	47.4	46.4	42.1	38.2	32.5
32.7	30.1	52.3	53.9	64.2	58.3	54.7	48.1	46	44.8	41.5	37.3	31.2
31.2	29.4	54.1	53.3	63.5	58.3	54	47.5	44.4	43.5	41	37	29.9
29.9	28.9	54.8	53.6	64.1	58	53.7	46.9	43.1	42.2	40	37.4	29
29.1	28.6	54.2	54.5	63	57.9	53.8	45.9	42.8	41.2	39.6	36.9	28.4
28.6	28.6	51.7	55.4	61.8	57.3	53.9	45.6	42.6	40.5	39.7	38	28
28.4	28.5	51.6	55	61.4	57.2	54.1	45.7	42.2	40	39	37.2	27.7
28.2	28.4	51.8	54.9	59.8	57.4	55.1	45.4	41.8	39.2	37.6	35.2	27.3
27.3	28.4	52.2	56.1	59	57.9	54	45.2	41.6	38.9	37	34	27
27.4	28.4	54.2	56.6	58.9	57.6	53.2	45.3	42.3	39	38.2	35.7	27.1
28.7	28.4	53.7	57.8	58.1	59	52.9	45.7	43.2	40.3	41	37.6	27.4
28.9	28.4	53.5	55.4	57.9	61.3	54.9	47.5	45	44.7	44.5	40.3	28.6
29.4	28.4	54.3	55.1	58.1	66.7	59.5	48.8	45.2	44.8	45.2	39.3	28.6
31.5	28.4	53.9	54.4	59	65.9	61.4	49.1	45.8	44.9	45.3	39.3	29.4
31.4	28.5	54	55.5	58.7	64.2	61.3	48.5	44.5	44.9	46.4	41.8	30.9
31.7	28.8	52.9	57.1	58	62.3	58.2	47.7	43.7	43.8	44.4	41.3	30.4
32	28.6	52.6	58.1	57.9	61	55.5	47.4	43.5	43.8	44.1	40.6	30.3
31.9	28.6	52.8	57.7	58.6	61.1	54.8	48.2	43.4	44.2	44.8	42.1	30.8
30.8	28.5	54.4	55.5	58.7	61.3	54.8	47.6	42.5	42.4	43	40.4	29.8
29.9	28.4	56.7	55.4	61.3	61.6	53.3	46.5	41.6	41.4	41	39.4	29.1
29.9	28.4	56.1	55.3	60.6	61.1	53.2	46.1	41.3	40.3	39.9	38.2	29.6
31.4	28.4	56.2	57.3	61.1	61.6	54.3	46.1	41.3	40.3	40.2	38.2	29.5
30.8	28.4	55.3	54.7	63.3	63.7	55	46.3	42.3	41.6	42.5	41	30.4
30.7	28.5	52.2	54.4	61	65.2	56.4	46.2	42.9	42.8	44.3	41.2	30.3
31.7	28.6	49.9	54.2	59	68.2	56.6	47	44.3	44.4	46.2	41.2	30.7
31.1	28.6	50.8	54.3	57.3	69.6	55.5	47.4	44.5	45.5	45.8	42.6	30.3
30.3	28.5	51.3	53.9	57.1	70.4	54.8	48	44.1	45.7	45.1	42.6	29.5
29.5	28.4	50.9	53.8	58.5	66.6	53.5	47.2	43.1	43.8	44.8	42.6	28.4
28.7	28.4	49.9	53.9	61.9	63.4	51.9	46.1	42.5	42.7	43.9	41.9	28
29.7	28.6	50.5	53.6	59.9	62	51.4	46.1	42.5	42.4	43.8	42.6	28.7
32.2	28.7	49.8	53.1	57.4	60.4	52	46.2	42.6	42.4	43.9	41.5	29.6
38.5	31.6	49.7	53.1	57	60.9	52.2	46.1	43.7	44.6	43.6	40.9	31.5
37.9	31.1	49.6	55.8	55.7	61.3	53.7	47.5	45.4	46.1	45.4	43.4	35.7
39.3	30.4	48.5	54.6	55.6	60.7	54	49.1	45.7	46.6	46	43.1	35.6
39.3	30.8	50.3	53.9	56	60.5	53.4	48.7	45.4	46.8	45.4	42.8	36.6
36.5	30	50.3	54.8	56.9	62.2	53	47.7	44.7	45.8	44.7	42.3	34
34	29.3	51.6	54.5	58.3	61.9	52.7	47.7	44.6	45.5	44.8	43.3	32
31.9	28.7	54.3	54.2	56.9	62.3	52.7	48.2	45.3	45.3	44.8	42.2	31
31.7	28.6	53.9	53.3	57.8	63	54.3	50.7	45.7	45.1	43.3	40.4	30.4
30.4	28.5	53.7	53.5	58	61.8	54.4	48.8	44.9	44.5	42.7	39.7	29.3
29.3	28.5	56.1	53.8	57.7	61.4	55.4	48.7	45.1	44.5	43.5	39.7	28.9
29.3	28.5	54.6	53.8	58.2	62.6	55.7	49.1	45.5	45.3	43.5	40	28.8
29.3	28.5	52.3	54.4	58.8	63.6	57.5	50.9	46	46	43.6	39.4	29.1
29.5	28.6	51.2	55	58.3	62.3	58.5	51.2	45.6	45.9	43.4	38.9	28.5
31.9	28.8	50.5	54.4	61.2	62.3	58.7	51.7	45.5	45.7	43.3	39	29.7
41.4	31.8	51.1	54.6	58.9	62	59.2	52.3	46.2	46.3	44.8	41.4	31.9
39.1	30.7	53.7	53.9	58.7	62.9	61.7	56.3	48.5	46.4	46.9	44.7	38
38.5	30.3	58	54	59.7	63.1	67.5	62.8	53.5	46.7	47.2	44.9	37.6
41.6	31.6	56.8	56.4	63.9	65.6	67.9	64.6	56.9	48.2	48.1	45.3	37.7
42.2	33.6	57.4	55.2	63.9	65.4	67.9	65.6	58.8	49.7	50	48.6	41
41.5	32.8	61.7	56	63.7	65.2	67.5	68.1	61	52.6	50.3	46.4	38.6
38.6	31.1	59.8	56.5	62.7	62.7	65.4	64.1	57.1	49.6	47.7	43.9	35.1
35.1	29.6	59.3	59	61.3	62.2	63	60.1	53.4	47.4	45.6	41.9	32.3
32.9	29	62.3	58.6	60.1	60.2	60.6	56.3	50.1	45.2	44.8	41.1	30.8
30.8	28.6	61.3	56.6	58.6	58.6	58	52.9	47.3	43.5	42.7	39.5	29.5
29.5	28.5	60.1	56.1	57.1	58.2	56.3	50.1	45.2	42.1	40.7	38	28.6
28.7	28.4	56.6	55.2	56.9	56.9	55.6	48.1	44.2	41.8	40.3	37.8	28.1
29.7	28.4	54.6	56.7	56.1	56.7	55.4	47.1	43.3	41.2	40.8	38.6	28.2
29.7	28.4	54.2	56.6	56.5	56.3	55.4	46.8	43.1	41	41	39.9	28.7
28.7	28.5	55	56.5	57.4	58.2	56.7	47.1	43.6	41.2	40.3	38.3	27.9
30.1	28.5	55	62.8	62.5	58.5	56.6	46.8	43.7	41.7	40.8	38.2	28.1
35.5	28.8	53.7	59.5	60.2	57.8	56.6	46.6	44.2	40.9	41.6	40	29.6
34.7	28.6	53	58.2	58.2	57.3	56.3	46.7	44.1	40.1	40.7	38.9	31.5
31.6	28.6	52.9	57.8	57.8	56.7	56.3	48.3	44.4	39.6	39.8	37.7	30.5

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
30.8	28.5	53.3	58.1	58.5	57.3	58.5	49.3	44.8	39.5	40.1	37.4	29.3
29.3	28.4	57.7	58	59.6	57.5	57.9	53.6	48.2	39.7	40	37.6	28.5
28.7	28.4	56.1	56.6	58.5	58.6	58.2	56.1	49	39.9	40.2	37.4	28.2
28.6	28.4	56	56.4	57.9	58.1	58.1	56.5	49.1	40.8	40.7	38.3	28.2
30	28.4	59.7	56.4	57.1	57.9	58.2	58.8	51.2	45.8	42.2	38.8	28.6
29.7	28.4	58	55.1	56.7	56.4	57.7	55.1	47.8	45	41.8	38.5	28.7
34.7	28.4	56.8	53.7	55.6	56.4	57.1	52	45.4	43.9	41.2	38.7	28.7
34.7	28.6	56.5	53.6	55.2	55.5	56	50.1	43.6	43.7	45.4	43.6	33.5
34.9	28.9	56.7	53.5	56.9	55.4	53.9	47.3	42.3	43.6	44.5	42	32.6
35.3	28.7	55.8	53	57.1	54.8	51.9	46.1	41.4	43.5	44	41.5	31.1
35.2	28.5	54.6	52.3	57.2	54.3	51.4	45.5	41.4	43.1	44.8	43.3	32.4
32.4	28.4	57	52.4	56.7	54	50.1	44.5	40.8	42.3	43.5	42	30.4
36.4	28.6	58.1	54.5	55.8	54.9	49.5	44.2	40.6	41.5	42.6	40.6	29.7

28.6	40.5	45.4	52	49.9	46.3	54.3	58.5	59.3	54	55.1	56.1	56.4	52	49.9
28.5	40.8	44.5	47.1	51	50.4	54.9	58.2	57.6	53.4	58.6	54.3	53.4	52.3	52.7
28.4	38.1	48.4	46.5	52	49.5	61.9	63.2	61.2	55.3	57.2	51.9	52.4	53	50.3
28.4	43.6	44.6	52.8	58.9	58.9	53	53.8	60.1	55.1	55.5	49.9	52.4	49.9	49.7
28.5	45.9	44.8	55.4	51.1	50.9	53.8	53.3	55.2	54.1	54.5	48.4	53.6	49.7	47.6
28.6	50.9	52.3	52	51.8	50.1	53.7	52.8	53.2	53.1	55	49.1	53.3	55.9	46.2
28.5	51.8	46.2	52.1	51.3	51.4	49.7	49.2	51.5	57.5	53.5	48.9	55.1	53.8	46.4
28.5	39	51.7	50.1	49.4	41.3	50	49.9	51.2	52.1	54.7	50.6	53.3	50.8	45.1
28.5	40.8	49	42.9	46.9	51.7	46.5	50	55.4	51.2	54.3	49.7	55.7	49.5	45.8
28.5	34.8	40.3	49.7	47.5	50.1	52.5	54.7	51.8	51.6	55.8	47.3	54.3	51.4	45
28.5	47	45.2	49.8	48.1	47.2	51	55.9	49.1	53.3	57.7	50.4	53	51.6	44.9
28.5	44.4	43.4	50.2	47.4	49	49.9	56.7	50	53	55.9	51.4	56.7	51.3	47.6
28.5	38.7	43.4	50.5	46.5	48.2	51	54.4	57.6	55.6	53.4	53.8	55.9	51.8	46.3
28.5	42.1	55.4	49	46.5	51.4	54.2	53.5	57.9	54.9	55.3	53.1	53	52	50.5
28.4	33.4	50.5	48.9	46.7	49.8	53.2	52.6	57.5	53	54.3	51.8	56	50.6	46.6
28.5	38.8	47.4	49.5	49.6	51.5	52.3	56.3	59.5	54.5	54.7	51	55.1	52.2	45.6
28.4	42.6	51.3	46.2	48.1	50.8	50.7	54.7	58.2	52.1	55.6	51.3	55.2	50.6	47.9
28.5	38.7	46.8	44.9	47	51.8	53	55.1	58.4	55.7	55.5	48.9	57.4	48.2	46.7
28.5	37.7	50.6	48.2	51.6	50.8	54.5	54.1	55.6	56.1	52.6	47.9	60	50.6	47.1
28.5	42.9	44.6	43.5	51.1	48.8	50	49.7	55.8	56.2	55.9	49.8	60.8	49.5	49.7
28.5	45.3	43.5	49.2	52.2	47.4	48.4	53.9	61.5	54.3	52.6	50.7	56.9	50.9	48.4
28.5	40.7	44.6	50	48.2	46.9	45.4	53.3	59.9	55.5	59.6	51.9	51.7	50.4	53.5
29	45.2	49.2	47.2	52	46.4	54.8	58.4	52.8	53.4	61.9	58.2	53.7	50.6	51.4
29.9	46.8	48	48.5	52.3	45.1	53.4	54.7	54.6	53.3	54.9	61.5	54.9	53.9	54.1
29.9	37.6	47.9	48.7	54.7	53.9	49.9	52	53.6	58.5	59.3	54.5	56.1	51.7	51.8
30.4	42.1	51	49.3	43.8	50.8	52.5	53.3	50.9	64.9	58.7	53.5	56.1	52.5	51.8
29.7	47	44.5	53.8	55.9	54	52.7	56.1	57.2	69.1	56.2	50.1	58.4	49.3	50.8
29.2	48.3	48.7	53.4	49.6	51.7	52.6	56.8	56	68.6	55	50	55.3	49.1	52.4
30.2	47.1	48.2	52.8	50.9	54.5	50.1	51.6	51.1	65.6	55.2	51.2	56.5	49.7	52.5
29.9	42.3	42.1	53.3	50.3	45.9	46.2	51.1	50.7	63.2	54.9	52.6	55.3	49.8	51.9
29.4	42.8	48.4	50.3	52.1	50.7	47.5	50.2	52.6	63.1	54.7	48.5	54.8	49	52.4
28.9	47	47	51.1	49.9	50.5	47.9	52.7	55.8	62.4	53.6	50	53.8	50.1	49.1
28.6	45.5	48.8	52.2	48.7	48.1	45.1	53.3	51.1	63.8	55.3	51.2	52.5	49.1	51.9
28.5	43.2	53	53.2	51.1	50.2	46.8	54.4	53	61.1	53.6	50.6	54.4	49.5	52.7
28.4	46.8	49.3	48.3	53.5	53.1	50.3	51.4	53.8	59.6	53.8	49.5	52.9	49.8	48.8
28.4	48.5	49.5	48.2	51.1	50.6	51.1	52.3	56.3	58.8	53.5	52.1	52.5	54.2	48.8
28.4	43.6	49.6	49.6	51.5	50	49.2	49.2	58.7	50.1	53.4	50.6	55.9	53	48.6
28.3	40.7	49	48.8	52.5	52.6	47.6	55	53.1	51.1	53.9	52.6	53.5	50.9	49.1
28.3	45.1	46.6	53.6	53.3	53.9	55	57.1	54.9	51	54.3	52.6	52.8	50.9	47
28.3	43.8	48.2	51.6	57.6	56.3	49.3	51.9	53.3	52.9	54.2	59.5	55.3	50.1	50.5
28.3	48	45	46.7	56.7	52.6	49.1	55.5	52.1	52.2	57.7	67	56.2	56.2	61.7
28.3	51	48.3	51.4	50.5	44.6	52.2	55	57.9	51.3	55.7	66.2	57.6	58.2	55.9
28.4	45.9	51.2	46	46.9	48.8	52.1	56.4	55.7	51.6	58.8	61.8	63.3	59	62.2
28.4	49.1	49.6	53.2	48.9	43.6	56.7	56.9	53.1	50.7	55	59	57.1	59.2	54.4
28.5	51.2	51.6	46.2	45.1	52.2	55.8	54.2	53.9	52	58.1	58.8	52.6	53.1	49.2
28.6	47.8	50.3	47.3	55.2	52.6	55.2	52.8	53.2	55.9	55.6	53.4	55.8	49.7	48.1
28.5	48.2	47.3	48.6	53.8	51.9	55.6	55	52.6	54	58.6	56.1	56.1	51.8	48.8
28.4	48.6	45.2	45	55	51	50.4	52.8	55.9	57.7	58.8	59.9	57.3	50.7	51.3
28.4	48.9	52.9	51.1	47.1	50	49.2	59.5	60.2	54.3	61	51.1	53.8	50	48.7
28.3	52.7	47.8	48.8	51.8	52.1	52.1	59.7	49	53.4	57.3	55.2	53.6	49.7	50.1
28.4	53.9	57.7	48.8	48.2	48.4	59.3	58.8	54.4	54.5	60.1	59	60.6	53.2	51.5
28.4	54.5	45.1	42.5	46.8	48.9	49.2	54.4	58.1	64.1	56.6	52.6	64.2	54.2	49.6
28.4	54.4	47.9	48.1	49	44.5	45.6	54.6	49.4	57.9	67.9	65.1	55.7	55.4	56.6
28.5	55.1	51.2	41.8	49.5	51.5	43.8	52	47.5	50.2	56.7	67.5	65.4	52.4	51.2
28.5	51.1	46.4	40.2	53.4	50.2	49.7	55.1	52.9	52.2	70.9	66.4	54.5	50.4	51.2
28.4	44.1	40.3	47.3	53.5	48	49.9	53	46.8	51	72	53.9	53.7	50.8	50.3
28.3	48.7	49.4	46.9	50.3	52	48.1	52.4	52.4	62.8	54.5	53.4	54.9	49.8	47.9
28.3	48.6	44.9	42.2	48.4	49	49.2	53.1	54.8	61.2	54.5	55	55.2	48.4	46.9
28.4	48.2	47.2	51.3	50.7	48.7	46.9	52.8	54.8	53.9	59.1	54	51.7	48.1	47.8
28.5	47	42.7	46.8	52.7	49.4	43.9	52.1	50.4	52	55.7	52	52.6	47.8	48.2
28.6	42	37.6	46.3	50.9	47.8	55.2	51.8	49.1	52.6	61.5	52.4	56.1	49.6	49.5
29.9	45	41.7	46.1	45.6	47.5	50.4	52	50.1	51.8	60.6	53.6	55.4	51.8	48.1
29.7	47.8	39.2	44.8	53.7	50.6	50.8	51	51.3	53.7	57.9	56.1	53.9	50	50.2
30	46.7	37.4	47.8	50.8	48.5	47.1	49.2	49.7	51.8	59.6	59.3	55.1	50.4	47.9
29.3	46.1	47.3	46.7	50.3	48.5	49.5	52.4	54.1	59.9	56.7	54.7	58.7	50	46.9
28.7	46.1	46.5	46.2	53.4	49.1	48	46.4	48.7	59	61.1	57.6	51.5	49.1	48.4
28.5	44.1	47	46.2	51.3	51	46.7	49.7	51.6	50.3	57.4	60	51.5	52	49.7
28.5	46.7	48.8	49.1	51.6	48.2	50.1	51.7	50.7	58.1	62.1	60	54.3	49.9	51.1
28.4	54.2	53.6	50.5	49.7	43.9	48.3	51.4	50.6	57.7	60	53.2	54.5	50.2	51.5
28.4	50.5	48	51.6	51.9	48	45.8	50	54.9	55.5	58.8	54.8	53.1	51.2	48.6
28.4	50.1	51.2	45.7	51.5	50.8	49.1	49.5	53.9	56	62	57.5	55.8	53.3	51.1
28.5	54.8	50.8	45.8	47.3	51.5	50.1	50.6	56.4	53.4	62.7	58.7	55	56	55
28.4	56.8	49.5	45.5	51	52.2	50.5	51.5	55	55.9	59.7	53.3	54.4	52.2	54.8
28.6	36.7	47.9	42.6	51	51.5	48.8	53.7	53.5	60.9	61.8	53.1	52.3	51.7	56.4
28.7	38	46.8	49.6	49.7	50.6	47.1	53.6	50.5	56.5	63	52.8	50.5	53.5	57
30.2	47.8	43.6	52.3	53.3	49.9	46.2	50.3	49.6	54.8	61.1	58.6	54.2	51.2	63.2
29.9	45.9	35.6	51.5	50.5	48.7	50	52.8	59.8	56.9	59.5	57.5	63.3	51.9	60.5
29.9	46.3	47	51.5	50.8	51.8	50.4	52.2	52.7	66.6	61.3	55.9	63.5	58.5	62.3
31.3	59.7	49.4	52.8	51.6	54.4	51.7	45.9	50	63.5	55.6	53.2	65.2	55.4	61.3
31.1	53	53.5	57	47.1	50.1	51.1	49.6	54.3	65.3	62.9	52.3	63.1	55.7	61.7
29.7	55.7	54.6	49.6	55.5	50.5	60.6	60.1	55.7	60.3	60.5	53.6	57.9	51.9	63.4
28.9	61.1	58.8	52.3	56.8	56.4	51.8	50.7	53.3	57.8	58.3	50.6	59.8	54	55.1
28.6	58.9	54.9	58.5	52.8	48	50.4	48.9	52.4	57	54.9	53.3	54.5	54.9	51
28.5	48.9	59.7	58.3	57.1	52.3	45.9	50.3	53.8	53.9	51.6	51.6	50.4	53.1	51
28.4	62.2	55.6	55.5	53.5	50.7	51.9	51.2	51.7	52.8	55.4	52	53.1	50.3	49.8
28.4	59	57	46.4	52.7	50.8	51.2	53.1	55	53.9	54.6	51.4	49.9	50.3	51
28.3	53.8	54.5	43	48.2	54	53.6	50.4	49.9	51.9	54.2	52.1	50.3	47.5	52.7
28.3	54.8	51.9	49.7	53	51.2	54.2	48.6	51.1	54.3	54.3	50.2	50.9	54	52
28.4	50.8	47.3	49.8	52	49.2	51.9	53.1	61.6	53.7	56.6	57.6	54.6	55	53.1
28.4	48.8	53.1	46	51.6	54	62.8	59.8	61.7	56	56.4	49.5	50.5	52.7	52.4
28.5	51.4	50.5	51.6	59	60.5	43.7	52	52.7	53.5	56.4	51.1	52.1	52.1	53.3
28.4	54.2	49.3	50.8	56.4	47.5	50.1	49.7	52.3	52.7	54.5	50	50.3	46.7	50
28.4	50.1	42.9	48.6	52.6	55.5	52.5	50.5	56.8	53.5	53	50.2	50.2	48.6	52.7

NM3_KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.4	48.2	48.5	45	54.3	51.9	51.9	52.6	60.5	55.8	55.7	52.4	51.3	50.7	54.2
28.4	45.4	47.2	55.4	52.5	57.8	56	53.4	52.1	55.3	58.7	49.5	52.1	51	53.7
28.4	52.7	53.6	50.3	58.3	48.4	49.6	50.8	52.4	54.9	52.4	49.9	56.9	49.3	50.8
28.4	54	55.2	50.9	50.3	48.6	49.4	51.9	49.1	54.3	55.6	50.1	51.8	50.9	53.4
28.4	51.7	45.3	56.5	54.5	52.1	51.5	51.2	51.4	55.2	54.4	48.6	54.2	54	57.2
28.3	53.3	53.9	51	52.3	52.9	49.7	46.9	51.6	53.1	51.3	51.5	52.4	49.2	55.1
28.3	58.1	54.2	45.2	51.4	48.7	49.4	47.7	51.2	49.8	55.3	50	51.3	49.1	51.8
28.4	57.2	51.7	50.5	49.6	48.4	49	57.6	58.7	50.5	53.9	49.6	51	50.4	51
28.7	54.4	44.6	47.8	48.2	50.2	50.1	50.9	48.3	52.3	53.9	47.1	49.9	47.4	50.2
28.5	55.1	53.4	48.9	47.6	52.2	47.1	48	50.5	55.5	52.8	48.2	47	43.6	45.6
28.4	51.9	50.7	43.4	48.4	48.7	44.1	53.7	51.1	52.4	51.9	48.9	50.2	48	46
28.3	56.7	49.7	51	45.5	50.7	48.3	49.5	53.6	53.1	52	49.6	47.4	45.9	44.8
28.3	51	49.6	52	50.5	49.7	48.1	52.2	49.9	50.3	54.3	47.7	46.7	46.3	45.7

47.3	48.6	54.4	52.1	45.5	46.5	45.7	45.5	48.1	46.9	45.5	42.1	40.5	37.5	33.5	31.6
49.1	46.6	51.4	47.2	43.9	45.6	43.8	44.4	46.2	44.1	42	39.8	39.8	37	34.4	31
47.5	44.4	46.1	44.1	40.3	41.1	40.1	41.5	42.6	41.3	39.9	37.4	39.5	36	33.6	30.3
47.8	42.8	46.6	43.6	40.1	41.3	39.7	39.1	41.9	40.8	39.2	36.9	37.8	35.8	32.9	30.3
46.1	42.1	45.5	43.1	41.5	40.4	41	38.9	39.5	39.4	39.9	38.7	39.7	38	35.3	31.8
47.2	40.6	44	42.5	40.1	40.8	40.1	37.6	38.5	39	39	38.7	37.4	35.9	33.8	30.8
46.1	41.6	42.2	39.4	40.1	39.8	38.5	37.5	37.6	38.6	39.4	38.4	40.4	37.5	34.1	30.8
44.1	40.8	41.8	40.3	40.7	40.5	38.8	38.4	37.8	38.8	39.6	39	39.9	38.1	34.5	31.2
45.6	40	41.9	40.6	39.2	39.7	40.4	39.3	39.1	38.5	39.7	39.1	38.5	36.8	33.2	30.5
46.7	41.8	42	40.1	41.1	40.6	41.5	40.5	39.6	39.2	40.2	40.4	43.3	39.9	37.3	34
45.8	43.1	42.5	41.5	40.6	40.7	41.2	41.6	40.6	40.6	40.7	39.6	44.1	41.4	37.2	32.9
46.4	41.4	42.9	42.1	40	40.7	41.7	43.1	41.2	40.1	39.8	38.1	42.1	40.9	37.9	33.2
46	42.3	43.1	43.7	39.5	39.9	40.2	40.2	39.4	39.2	38.4	37	38.7	38.2	34.5	32
44.3	43.4	42.6	42.2	40	39.5	40.8	40.2	38.9	38.6	38.3	36.5	35.2	34.2	32.2	30.7
43.6	43.9	45.6	46.9	40.7	40.8	40.4	40.8	39.8	38.4	38.1	36.3	35	34.4	31.9	30.7
44.6	42.1	42.3	39.8	38.9	39.5	38.5	39.7	38.1	38.5	37.8	37.6	40.2	37.8	34.7	32.6
45.3	42.2	41.7	40	38.7	39.2	39.2	39.3	38.1	38.4	38.8	38.1	38.4	37.7	34.8	31.2
47.5	40.5	41.1	39.6	39.7	38.3	38.9	38.9	39.3	38.4	37.7	38.4	37.9	38.9	33.4	29.3
51.1	41.1	42.6	40.6	38.5	37.8	37.9	37.7	36.8	36.5	37	36.3	38.7	37.4	34.8	30.6
47	40	41	39.8	38.4	37.1	36.9	36.8	37	36.2	36.1	35.4	37.1	35.6	32.4	28.3
49	42	40	40.6	39.5	39.3	37.8	36.9	37.7	36.4	37.3	37.2	41.7	39.6	36.1	32.3
46.1	42.7	44.5	42.2	41.4	41.9	40.8	40.5	40.7	40.3	39.8	40.7	41.2	39.2	37.3	34.5
47.9	43.3	46.1	44.9	45.8	46.2	47.5	45.3	44.4	44.6	44.4	43.7	44.4	43.2	41.6	37.1
48.4	47.4	48.5	48.7	48.5	48.9	50.3	50.8	47.7	47.8	46.4	44.5	44	42.2	40.3	36.8
49.9	48.2	49.2	48	47.7	49.1	49.7	52.2	48.6	48.5	47.6	44.6	43.7	42.5	40.6	36.5
47.3	50.6	48	45.1	45.4	45	47.1	48.6	47.2	44.6	43.6	41.3	41.5	40.4	37.1	33.8
47.1	48.7	46.6	44.5	43.7	43	43.4	44.6	44	42.3	41.2	39.8	39.4	38.2	35.2	31.2
45.7	45.4	45.3	42.6	41.6	41.5	41.3	43.3	42.1	40.3	39	38.1	36.8	35.8	32.7	30.1
46.5	45.5	43.9	43.3	42.5	43.6	43	43.2	42.1	40.7	39	37.2	39.5	38.9	35.4	35.8
46.8	43.8	43.1	42.9	42.1	43.5	42.4	42.8	41.6	39.3	37.3	35.5	33.9	32.3	29.4	27.1
47.4	43.6	42.2	41.5	39.4	40.5	40.3	39.8	38.9	37.2	36.2	34.8	36.9	34.2	29.8	28.1
48.6	43.1	44.2	39.3	38	38.8	38.5	38.1	38.1	36.5	36.9	35.1	38.6	37.9	34.8	30.6
44.8	41.6	42.9	39.4	38.2	36.8	38.1	37.1	36.8	35.3	33.3	32.6	35.1	33.5	29.4	27.9
45.6	42	40.4	39.5	39.4	37.4	38.1	36.6	36	34.8	34.3	33.3	37.4	36.6	32.1	28.8
45.4	42	40.9	39.2	37.7	39.3	37.3	36.5	35.1	34.6	34.1	34.2	35.9	36.6	31.7	28.6
45.3	41.3	41.4	40	37.2	37	37	35.9	34.9	33.5	32.7	33.1	36.8	35.2	30.4	29.4
44.7	41.8	40.6	38.8	36.7	36.1	36.7	34.9	33.9	32.5	31.8	30.3	31.1	30.2	26.9	25.9
43.6	41.3	41.6	37.4	38.5	36.4	38.2	35.2	34	33.4	32.6	32.1	35	34.7	27.5	25.9
44.1	40.6	41.5	39.5	37.9	38.5	38.8	36.1	35.6	34.8	35.3	36.4	38.8	36.4	32.6	28.9
46.3	42.9	43.1	41.8	38.8	39.7	43.8	39.7	41.7	39.7	40	40.2	41.9	39.4	35.6	32.1
49	44.6	46.1	42.9	41.8	41.2	41.1	40.4	41.7	40	40.8	40.9	42.2	38.7	34.3	30.2
47.8	44.9	45	45	40	40.8	42	39.1	40.5	40	40.7	41.5	38.9	36.2	31.9	28.6
50	42.8	45.4	43.3	40.1	40.5	43.2	42.2	43.1	42.3	42.8	43.6	42.2	41	36.3	33.3
45.8	44.8	43.8	41.7	37.7	38.8	38.9	39.1	40.1	38.8	39.5	39.4	44.5	42.6	38.7	34.3
45.1	43.6	42.4	39.6	38.1	38.6	38.1	37.9	39.4	37.5	37.6	36.2	38.4	37.1	32.7	29.9
46.2	43	45.1	41.7	39.2	39.6	40.4	39.8	42.1	40.2	40	39.4	42.9	40.4	36	34.4
44.9	47.1	44.5	40	38	37.2	39.8	38.6	39.8	38.9	37.6	37.8	42.4	40.4	35.2	32.5
45.9	42.3	41.1	40	37.7	37.4	36.9	36.2	36.7	35.3	34.6	33.8	39.1	37.2	34.3	30.7
44.4	42.2	41.9	38	37	36.3	36.5	36.4	36.8	35.7	34.6	33	36.5	35.7	34.1	29.7
46.2	42.9	41	38.5	37.4	36.2	36	34.9	35.8	34	33	32.5	36.8	33.7	32.5	30.3
45.8	42.4	41.7	38.5	37.6	37.5	37.6	36.8	37.7	36	36.6	36.7	40.4	38.7	35.5	33.1
46.4	42.6	42.3	40.3	38.6	38.5	38.9	38.2	39.5	38.2	39.4	38.4	43.1	40.6	37.5	33.6
46.1	43.9	42.3	39.1	38.8	39.3	41.5	40.3	40.5	38.9	42.9	42.6	40.6	38.9	34.7	31.6
47	46.2	42.5	40.6	40.9	41.2	42.8	44.3	42.3	40.4	41.9	42.2	43.6	41.7	36.6	31.9
46.4	43.4	44.2	40.2	38.8	38.3	40.1	39.7	43.3	39.4	39.4	39.4	42	41.6	36.5	32.6
45.1	46.9	43.7	41.3	39.7	38.5	38.6	39.7	42.3	39.4	37.6	37.6	42.9	41.3	36.9	32.7
45.6	44	41	38.6	39.1	36.8	37.8	36.6	38.6	36.9	36.5	37.2	43.8	40.7	35.9	30.6
44	41.7	41	38.8	37.6	37	36.8	36.4	38.4	37	36.8	35.9	41.7	40.9	36.2	31.6
47.4	42.8	42.5	39.5	38.6	37.1	38.5	37.5	38	37.8	37.2	36.5	41.8	40.8	38.4	33.4
43.1	42.6	42.1	39.4	39.3	40	40.3	40.4	41.2	40.7	39.1	38.2	41.2	37	35.8	33
46.6	43.4	43.4	41.2	40.9	41.2	42.4	41.8	42.5	42.8	44.1	40.5	40.4	42.3	39.6	39.1
44.8	46	46.2	43.9	41.5	40.4	41.1	41.9	42.6	41.7	40.5	40.6	43	40.9	36.7	33.9
45.9	44.8	45.3	41.5	40.2	41.5	42.1	42.4	44.8	44.9	43	44	41.7	41.7	41.4	40.3
47.3	43.6	43.6	41.4	39.6	39	41.3	41.2	41.7	40.5	39.2	37.1	40.5	37	33.1	33.3
46	43.6	42.3	40.8	40.9	39.8	39.9	41	40.3	39.5	37.8	36.7	42	41.7	37.4	32.4
44.6	45.7	43.5	42.4	39.2	41.9	41.1	41.5	40.7	39.1	39.4	38.8	43.7	41.7	37.5	33.3
47.5	49.3	45.6	44.8	43.3	42.3	42.5	41.6	41.3	40.2	39	38.1	41	39.4	35.5	32.5
48.9	48.8	43.7	43.7	40.6	40	40.4	41.3	42.1	39.3	39.5	38.2	37.2	37.2	34.2	31.7
52.9	42.7	42.6	40.7	39.7	39.4	39.5	40.1	39.6	37.8	37.8	37.3	41.1	37.6	34.2	30
51.1	44.7	45.5	42.6	40.4	41.3	41.6	41.8	41.6	39.1	39	38.3	40.2	38	35	31.1
53.6	47.2	46.5	44.3	42	41.4	41	41.6	42.1	40	39.5	38.4	38	37.5	34.5	33.1
55.1	49.4	46.2	43.8	41.9	42.3	41.6	42.9	43	40.2	39.4	37.7	39.9	38	33.6	30.3
54.4	48.3	46.4	46.3	40.9	40.6	39.5	41.6	41.9	39.8	39.1	36.9	40.2	36	32.5	29.7
56.3	48.4	45.8	48.2	42.2	41.3	40.5	40.9	42	41	40.6	39.2	41.6	40.6	35.6	32.4
54	50.4	51.4	51.9	42.8	45.5	43.9	41.9	42.9	42.9	47	48.9	44.5	45	44.9	42.9
68.6	59.2	55.8	58.2	50.1	51.7	45.7	43	41.5	40.2	40.5	39.5	40.7	40.1	39.1	38.7
65.8	64.3	58.8	58.8	54.4	53.5	51.5	44	43.6	44.3	43.6	44.1	44.3	42.9	41.2	38.6
67.9	62.5	60.8	61.6	56.2	56.7	53	44.1	45.9	46.7	44.9	46.3	46	45	47.4	43.6
69.6	66.1	68.9	67.3	60.2	62.8	57.8	53.2	50.6	53.7	51.8	49.7	48.7	47	44.3	42.2
60.3	61.5	60.6	56	52.5	53.4	50.1	44.2	43.7	42.6	42.2	41.4	41.1	41.1	38.7	36.8
59.1	51.9	49.7	45.9	42	44	43.6	42.1	41.3	39.2	38.2	37	42.8	39.2	34.9	31.8
56	46.9	44.2	40.9	40.7	42.4	42.6	41.7	40.9	38.4	38	36.7	40.6	38.1	34.3	30.8
52.2	45.7	46.4	40	38.7	41.2	41.1	39.5	38.2	36.5	35.2	35.3	43	38.6	34.4	30.6
49.8	43.1	43.1	39.6	38.3	39.3	40.3	39	37.8	35.7	34.4	34.4	38.2	36.1	32.7	29.8
50.1	42.1	42.1	40.5	37.9	38.9	38.4	37.2	36.9	34.8	34.1	32.7	35.2	34.7	31.4	27.2
50	42.2	42.2	39.9	38.2	39.6	38.8	37.8	37.8	35.4	34.9	34.1	38.5	37.6	32.6	29.4
46.7	40.7	41.9	40.6	38.3	38.6	38.2	36.6	36.4	35.5	35.6	33.6	40.9	38.9	36.2	32.2
49.8	43.6	43.8	41.2	39.4	39.4	38.6	38.2	36.8	35.3	34.7	33.3	38.2	37.5	34.7	31.3
49.6	42	42.1	41.7	38.6	40	38.5	39.3	36.6	35.8	35	34.2	36.6	35.1	30.4	29
53.5	44.3	41.4	43	40.4	40.6	39.2	38.6	36.9	35.4	35.4	34.1	40.2	38.2	33.5	32.1
49.9	42	39.4	41	38.5	39.6	38.4	36.6	35.1	35	35.2	34.9	41.7	39.5	38.1	35.8
54.4	46.1	42.1	42.4	40.9	40.5	37.8	36.2	34.7	33.6	33.3	33.2	35.8	33.8	29.9	25.9
56.4	45.9	42.2	44.3	41.8	40.2	37.4	35.5	33.9	33.3	33.6	33.1	38	33.9	30.7	27.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
58.5	52.3	47.1	47.3	44.4	46.3	41.7	36.4	35	33.9	33.8	34.3	37.2	36.3	31.4	30.7
57	55.1	52.7	51.8	46.9	44.3	40.2	35.8	35	34.3	33.6	34.5	36.9	34.8	31.9	29.7
55.9	50.8	52.5	51.5	48.4	43.4	41.3	37	37.1	35.7	36	35.8	37.6	36.2	32.3	30.4
55.1	55.1	52.4	55.2	48.5	48.6	45.9	43.4	40.5	39.9	39	38.6	39.1	38.8	34.2	31.6
55.4	57.8	54.6	55.7	47.7	47	44.9	45.3	41.3	40.8	38.7	36.3	37.6	36.1	33.1	31.4
50.3	44.6	43.2	40.9	38.5	37.1	36.7	42.7	35.8	34	35.8	34	39.6	36.3	32.8	29.5
52.8	43.3	42	39.9	38.7	37.2	38.3	41.7	36.8	36.9	38.4	39.9	43.1	41.4	38.8	37.9
50.2	45.6	41.4	41.1	37.2	38	37.8	41.5	36.6	36	38.6	37.4	44.4	40.6	39.2	35.7
46.3	42.5	39.4	36.7	36.4	36.3	37.1	42.9	32.7	33.3	35.6	35.6	42.1	37.8	35.3	32.7
44.2	41	40.8	38.3	37	35	37.4	42.7	35.2	37.3	39.7	41	44.4	42.8	40.1	37.7
45.6	41.5	39.6	39.3	37.4	36.3	35.2	41.5	33.2	32.8	37.7	34.6	41.4	40.3	36.1	31.9
42.3	40.4	40	37.4	36.1	35.4	34.9	41.1	31.3	32.3	36.5	32.9	41.1	39.4	35.2	31.8
42.6	39.6	40.4	36.9	37.9	36	35.9	39.5	34	37.4	40.2	40	44.3	42.9	41.1	37.6

26	24.3	23.4	23.2	23.6	24.6	43.5	45	50.8	51	50.2	53.8	58.1
26.3	23.7	22.9	23	23.7	24.5	42.2	45.2	50.8	51	50	54.8	58.5
25.2	22	22.1	22.6	23.5	24.5	41.1	47.9	48.9	52.3	50.6	61.4	62.4
28.3	24.2	23	23.1	23.7	24.6	42.8	47.8	52.3	58.1	57.9	60.4	61.5
30	27	24.3	23.4	23.8	24.6	45.3	45.9	55.8	57.5	56.6	57.1	58.3
28.1	26	23.8	23.3	23.7	24.6	49.9	51.5	53.3	54.6	54	55.4	55.8
28.9	25.8	23.6	23.1	23.7	24.5	51.7	51.4	53	53.2	52.4	54.6	54.2
28.3	25.8	23.5	23	23.8	24.5	50.5	51.3	53	52.1	51.4	52.3	52.2
28.4	25.6	23.5	23	23.5	24.6	46.7	50.3	51.2	50.7	51	51.2	51.2
30.7	25.8	23.5	23.1	23.7	24.6	44	49.5	49.7	49	50.6	52.2	54
28.5	24.7	22.9	22.9	23.7	24.4	46.1	46.2	50	48.8	50.5	51.5	55.5
29.2	25.3	22.9	22.9	23.9	24.6	45.4	45.3	50.6	48.2	49.4	51.5	56.8
29.5	25	23	23.1	23.7	24.7	45.3	45.1	51	48.7	48.8	51.2	56.7
27.6	24.9	22.7	23	23.6	24.6	42.3	53.9	50.1	47.4	50.9	53.8	55
27.9	24.8	22.9	23	23.6	24.4	42.1	54	50.5	46.7	50.8	53.8	54.2
29	24.5	22.9	22.9	23.8	24.5	39.1	51.8	50.2	49.1	51.8	53.4	56
28.2	25.4	23.3	22.9	23.7	24.7	42	51.2	48.9	49.2	51.8	52.7	55.4
26.6	24.9	23.1	22.9	23.7	24.6	42.1	50.6	47.3	48.3	51.9	52.9	55.9
26.2	23.5	22.8	23	23.7	24.5	40.3	50.1	47.8	51	51.3	54.1	55.2
24.7	23	22.5	23.2	23.7	24.5	42.3	50	47.6	51.5	51	54.1	54.1
26.9	24	23	23.1	23.6	24.5	44.3	47.1	48.4	52.3	49.4	52	53.9
30.4	28.3	26	24.5	24.2	24.5	44.2	45.6	49.5	52.4	48.2	50	53.8
34.4	32.1	29.3	26.3	24.8	24.9	44.9	48.6	49.8	51.8	47.7	53.4	57.3
33.3	31.6	29.3	26.2	24.8	24.8	47	48.5	48.5	52.2	47	54.1	57.1
32.5	31.2	29.4	27.1	25.6	25	45.4	48.8	48.9	54.8	52.2	53	56.1
30.2	29	28.2	26.5	25.5	25.1	42.7	50.6	50	53.7	52.3	52.6	54.4
28.2	26.9	25.7	24.3	24.3	24.6	46.1	50.7	53.6	55.5	53.7	52.8	55.8
27.2	26.2	24.7	24.2	27.2	25.5	47.7	48.7	54.6	53.8	53.5	53.1	57.6
33.1	32.4	28.3	27.8	26.3	25.4	48.4	48.9	53.6	52	54.7	52.7	55.8
25.4	23.7	23.3	23.8	24.4	24.7	46.8	48.4	54.9	51.2	53.3	51.4	53.8
26.5	25.5	25.4	24.7	24.4	24.7	44.2	48	52.7	52.1	50.8	49	52.1
25.6	23	23	23.3	24	24.5	46.5	48.2	52.2	51.2	50.8	48.5	52.8
25.6	22.4	22.3	22.8	23.6	24.5	45.8	48.6	52.3	50.7	50.6	48.2	53.5
24.5	22.3	22.5	22.7	23.7	24.6	45.6	52	54	50.8	50.4	47.2	54.4
24.4	21.6	22	22.9	23.4	24.5	46.2	51.2	52	52.9	52.2	49.9	54.5
25	22.1	22.2	22.7	23.6	24.5	48	50.4	49.8	52.8	52.6	51	53.6
22.5	21.5	22	22.6	23.6	24.6	48	50.6	50.6	52.6	50.8	50.6	51.9
23	21.8	22	22.5	23.6	24.5	45.3	49.9	49.5	52.3	52.1	49.8	53.9
24	21.8	22	22.6	23.5	24.5	44.8	48.7	52.9	53.1	54	54	56.4
26.4	22.8	22.3	22.7	23.5	24.6	45.5	49.2	52.2	57.1	55.2	54	56
26.3	22.8	22.1	22.7	23.6	24.6	47.3	47.5	52	58	55.6	51.6	55
26.8	23.9	22.6	22.8	23.6	24.4	50.2	48.1	51.7	56.3	53.4	52	55.3
30.2	26.3	23.5	23	23.6	24.5	49.6	50.6	50.5	53.6	50.3	52.7	56.1
29.3	24.1	22.6	22.9	23.7	24.6	49.2	50.2	52.9	51.6	49	55.5	57
27.5	24.5	23.6	23.6	24.2	24.7	51.1	51.2	51	49.2	51.2	55.8	56.8
30.4	26.1	24	23.3	23.7	24.5	49.8	51.6	49.2	54.5	52.2	56	55.3
27.3	24.5	22.9	23	23.5	24.4	48.9	50.4	49	55.4	52.4	56.5	54.8
26	23.6	22.5	22.9	23.7	24.6	48.9	49.3	48	55.3	52.3	55.2	54.6
27.3	22.9	22.1	22.7	23.6	24.6	49.3	51.9	50	54.1	51.9	52.7	58.8
27.5	22.8	22.2	22.6	23.6	24.5	52.1	51.9	50.4	52.5	51.6	52.3	59.9
30.6	23.7	22.5	22.8	23.5	24.6	53.7	56.4	49.6	51.5	51.7	58.2	59.5
27.9	23.7	22.8	22.8	23.7	24.5	54.2	56.1	48.4	49.8	49.9	57.1	58.8
28.1	25.1	23.3	22.9	23.6	24.6	54.8	52.3	47.7	48.9	49.4	53.8	56.5
28.7	25.8	23.3	23	23.8	24.7	55.6	51.6	47.3	49.4	50.2	50.5	55.6
27.7	23.2	22.9	23.2	23.6	24.5	54.6	50.3	44.6	52.6	50.8	49.8	55
26.7	22	21.7	22.7	23.6	24.4	52.3	47.9	46.4	54.1	50.9	50	54.6
24.3	21.5	21.9	22.5	23.5	24.4	49.5	48.8	47.7	52.5	51.6	49.9	53.3
25.6	22.1	22.2	22.7	23.6	24.5	50.3	48.8	46	51.5	51.9	49.3	53.7
27.7	24.1	23.4	23.3	23.7	24.6	48.7	47.6	50.1	50.6	50.1	49.4	53.1
31	25.2	24.5	23.6	23.8	24.5	48.7	46.8	49.9	52.4	50.4	47.9	53.2
37.5	32.9	32.1	29.2	25.9	25.5	47.4	44.9	48.4	52	49.2	54.4	52.5
32.1	26.9	24.5	23.8	24	24.8	45.4	42	47.4	51.2	48.4	54.7	53
38.3	33.8	31.2	27.2	24.9	24.8	47.1	42.6	47.8	52.6	50.3	52	51.8
32.5	28.3	27.9	25.9	24.9	24.9	47.3	39.9	48.1	52.9	49.9	51.4	51.4
27.9	25.9	24.9	23.7	24	24.6	47.1	46.8	47.4	50.7	49.6	50.5	52.8
27.8	22.8	22.2	22.7	23.6	24.5	47.1	48	46.8	52.9	49.4	49	51.4
27.9	24.3	22.6	22.8	23.4	24.6	45.6	46.8	46.8	53	50.8	48.3	49.8
28.1	24.9	23.3	22.9	23.7	24.7	46.3	48.8	48.7	52.1	50	49.5	51.1
25.8	21.8	22.1	22.7	23.5	24.6	52.5	52.7	50.3	52.1	48.9	50	51.5
25.2	22.9	22.5	22.7	23.7	24.6	52.5	52.7	51.5	51.6	48	48.3	51.5
26.9	23.4	22.7	23	23.6	24.5	51.4	51.3	51.3	52.1	50.4	49.1	50.7
26	23.2	22.5	22.9	23.6	24.5	53.7	51.3	48.8	51.6	52	50.4	50.8
26	23.8	23.2	23.1	23.7	24.5	56.2	51.7	47.2	50.8	52.3	50.4	51.3
29.9	27.3	25.3	23.7	24	24.7	55.7	50.1	46	51.4	52.8	50.4	53.5
38.6	38.5	32.2	28.7	27.1	25.6	51.5	48.7	48.7	50.7	52	49.2	53.5
35.2	32.2	27.7	25.6	24.8	25	48.2	47.2	51.9	52.5	51.8	47.9	53.1
35.6	32	29	25.8	25	25	48.3	45.4	51.7	52.7	49.9	49.4	52.6
38.8	37.7	32.7	28.5	26.1	25.1	47.5	46.1	51.5	51.5	51.8	50.2	52.9
39.6	37.1	34.6	31.3	28.7	26.3	58.1	48.5	53	52.1	53.8	52	52.3
33.6	30.5	28	25.9	24.2	24.7	57.9	52.7	56.3	51	53.1	51.7	49.8
27	23.2	22.7	22.8	23.5	24.6	56.4	54.4	56.3	54.7	51.6	59.7	58.9
26.7	22.3	22.1	22.8	23.6	24.4	60	58.3	53.4	56.4	55.7	59.6	58.1
27.3	24.6	23.6	23.1	23.7	24.6	60	57	57.1	56.4	54.7	56.3	54.8
25.1	22.4	22.4	22.8	23.7	24.5	59	59	58.6	56.6	52.2	53.7	52.1
24.4	23.2	22.7	22.9	23.5	24.5	60.8	58.9	57.7	56.6	53	51.8	51.5
24.6	21.8	22	22.5	23.6	24.4	60.7	58	56.3	54.6	51.2	51.7	53
27.8	24.7	23	22.7	23.6	24.5	59.8	56.6	52.6	53.3	53.8	52.8	53.2
25.1	21.9	22.1	22.7	23.6	24.5	57.2	55.5	49.7	52.7	54.1	54	51.4
24.7	21.8	22.1	22.6	23.6	24.5	55.8	53	50.9	53.1	52.1	54.1	52.6
27.9	24.6	23.4	23.2	23.8	24.6	53.2	52.8	49.3	52.2	53.2	61.8	59.2
34.9	28.3	24.9	23.6	23.8	24.5	51.4	52.8	50.6	58.1	60.1	60.8	56.9
22.8	21.7	22.1	22.6	23.5	24.6	53.5	52.1	50.8	58	57.6	56.7	54.4
26.5	25.7	24.5	23.1	23.6	24.6	53.4	49.9	50.9	56.3	55.6	53.7	51.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
24.6	21.7	22.1	22.6	23.5	24.5	51.5	48.3	49.6	55.1	55	53.3	52.8
24.9	22.4	22.3	22.7	23.6	24.4	49.5	48.2	54.2	55.6	57.2	56.3	53.7
25.1	22	22.1	22.7	23.6	24.6	51.4	53.1	54.2	58	57	53.9	53.2
26	22	21.9	22.7	23.7	24.5	53.3	54.8	52.3	56	53.5	51.7	52.4
27.9	24.2	23.1	22.8	23.6	24.5	53.2	54.3	55.7	54.8	52	51.8	52.1
24.9	23.1	22.8	22.8	23.7	24.4	53.3	53.7	54.5	54.1	52.7	51.3	51.3
33.2	28.8	24.2	22.9	23.6	24.4	57.3	54.3	52.6	53	52.6	50.8	49.5
30.7	27.5	24.7	23.6	23.6	24.5	57.4	53.9	50.8	52.2	50.6	49.7	56.6
30	27.4	24.4	23.9	23.8	24.6	56.9	52.6	51.3	50.8	50.3	50.2	56.5
33.5	28	24	22.9	23.5	24.4	55.4	52.2	50.3	49.7	52.1	50.6	53.9
26.8	22.2	22.1	22.6	23.5	24.5	55.3	52.2	48.3	48.9	52.1	48.2	53.2
25.9	21.4	21.9	22.7	23.5	24.5	55.6	51.6	49.9	48.9	51.1	48.1	53
34.8	31.2	27.3	23.4	23.7	24.5	55.6	50.9	52.2	50.1	50.5	48.7	51.8

58.8	54.8	56.3	55	55.8	53.3	51.5	49.9	48.4	53.5	51.1	45.4	45.8
58.6	54.5	58.1	54.8	55.3	52.8	52.9	49.6	47.7	52.8	50.6	45.3	46.1
60.5	55	58	54.7	54.3	53.1	51.8	48.6	47	52.1	48.8	44.3	45.4
60.1	55.5	57.3	53	53.5	52.6	50.9	48.2	45.4	49.2	46.5	42.2	43.4
60	55.2	56.5	51.3	53.5	51.1	50.1	48.1	44	47.8	44.8	41.5	42.2
57.4	54.4	56.6	49.8	53.9	54.8	48.5	47.2	42.5	46.3	43.8	41.5	41.2
55.5	57.2	54.9	49.5	54.5	55.2	47.3	47.5	42.1	45.2	42.9	40.7	41.2
53.4	56.8	54.7	50.6	54.8	54.2	46.7	46.2	41.5	43.6	41.4	40.7	40.5
55	54.3	55.2	51.2	55.4	52.4	46.2	45.7	41.1	42.5	40.7	40.5	40.4
54.9	53	55.5	49.4	55.1	51.6	45.8	46.7	41.4	42.2	40.6	40.7	40.5
53.2	53.3	57.2	49.9	55.3	51.5	45.3	46.7	42.6	42.7	41.4	40.9	41.1
51.2	53.4	57.1	51.1	55.9	51.9	46.8	46.5	42.6	42.9	41.8	40.8	40.9
56.5	54.8	56.7	53.2	56.3	51.7	46.7	46.8	42.3	43.2	43.3	40.4	40.8
57.5	55.3	55.7	53.2	55.8	52.2	49.9	46.1	43.1	43.1	43	40.2	40.1
57.8	55.1	55.1	53	55.5	51.9	49	45.1	43.7	45	46.1	40.8	40.8
59	54.4	55.6	52.4	56.3	52	47.9	44.8	43.7	44.6	45.7	40.5	40.7
59.2	54.3	55.4	52.2	55.3	52	47.9	45.5	42.9	43.3	42.9	39.5	39.7
59.2	55.1	55.7	51.3	57.1	51.2	47.5	47.2	42.6	42.4	41.5	39.5	39.5
58	55.7	55.5	49.9	59.4	50.6	47.8	50	41.5	42.5	40.7	39.7	38.9
56.7	56.9	55.7	50	60.7	50.2	49.4	49.9	41.1	42.3	40.5	38.8	38.1
60.3	55.6	55	51	60.2	50.8	49.1	48.9	41.8	41.5	40.7	39.5	38.9
60.8	55.6	58.9	51.7	58	50.9	52.5	48.7	42.4	43.5	41.7	40.9	41.2
59.7	55.3	61.3	57.6	55.4	51.5	52.9	47.9	43.2	45.7	44.3	44.8	45.3
57.1	54.5	60.9	60.8	55	53.5	54.2	48.5	46.3	47.6	47.6	47.6	47.9
55	57.9	59.3	60.9	55.9	53.5	52.8	49.3	47.8	49.3	48.2	47.8	48.9
54.4	63.3	59.1	57.6	56.4	53.5	52.7	49.2	50.2	49	47.9	47.6	48.5
56.2	67.8	59.1	55.6	57.8	52.3	51.7	48.3	50.7	48.4	46.2	46.2	46.6
57	68.5	57.7	52.9	57.5	50.3	52.2	47.3	49	47.5	45.4	44.8	44.6
55.8	68.4	56.5	51.6	57	50	52.5	47.1	47.1	45.9	44	43.1	43.6
53.6	66.6	55.5	52.6	56.4	50.1	53.3	46.9	46.1	44.8	43.6	42.8	43.8
52.5	64.8	55.2	52.1	56.3	50	52.7	47.3	45	43.9	43.2	42.4	43.4
55.3	63.9	55	50.7	55.1	50.5	51.9	48.9	44	43.9	42.1	40.7	41.8
55.3	63.7	56	51.8	54.3	49.7	51.5	47.7	43.5	43.7	40.5	39.2	40
53.5	63.6	54.7	51.2	54.2	49.7	52.7	46	42.6	43.4	40.1	39.4	38.3
54	62.2	54.1	50.4	54.3	49.8	52.3	46.3	42.3	42	39.8	39.1	39
55.8	60.8	54.9	51.6	53.7	53.4	50.4	46.1	42.1	41.5	39.9	38.2	39.1
58.2	59.5	53.7	51.9	55.4	53.9	49.9	45.4	42.3	41.4	40.2	37.7	37.7
57.3	56	53.9	52.4	55.6	52.8	49.4	45	42	41.4	39.1	38.2	36.7
55.4	53.9	54.5	52.8	54.5	51.7	48.8	44.4	41.4	41.8	39.2	38.4	38
55.5	53.2	54.8	58.1	55.4	51.3	50.3	45.8	42.4	43	41.2	38.8	39.3
54	53.1	57.5	66.4	56.5	55	60.3	48.5	44	45.2	42.3	41.2	40.8
57.3	52.3	56.3	66.8	57.6	57.9	59.8	48.3	44.9	45.3	44.5	41	41
56.8	52.2	59	66.1	62.4	58.7	61.3	49.9	44.9	45.6	44.3	40.6	41.1
56.4	52.9	57.3	63.9	61.2	59.2	61.3	49.1	44.7	45.3	43.6	40.1	40.6
54.9	51.7	57.5	62	58.9	59.1	58.1	47.3	44.4	44.5	42.3	39.1	39.5
54.4	55	57.4	59.7	56.3	56.1	54.6	46.5	43.9	44.9	41.6	39.1	39.6
53.9	55	58.3	57.2	56.6	53.2	51.7	46.2	46.6	45.1	41.6	39.2	39.5
55.8	57	58.8	59.8	57.2	53	51.2	45.9	46.2	44.6	40.8	38.5	38.2
60	57.2	60.6	59.6	56.7	51.9	51.4	45.8	44.2	42.9	40.1	38.3	37.6
58.2	55.1	60.2	56.3	54.9	50.1	50.1	46.3	43.1	42.4	39.4	37.6	37.2
55.2	54.9	60.3	59.2	59.5	53	51.8	46	43.3	41.9	38.6	37.6	37.4
58.1	62.4	59.3	58.1	63.5	54	50.8	46.6	43.3	42.4	40	38.4	38.1
56	62.7	66.5	64.4	62.5	55.1	55.4	46.6	43.6	42.6	39.8	38.6	39
53.3	59.6	66.1	66.9	64.6	54.9	55	47.1	45.6	42.5	40.3	40.4	40.8
52.8	56.2	70.1	68	64.6	53.4	53.4	46.9	45.2	43.8	40.4	40.2	40.1
51.9	53.9	71.7	65.8	60.8	52.2	51.6	46.8	45.9	44.1	41.2	40.1	39.1
51.8	61.1	70.9	62	58.3	52	50.8	45.8	46.1	43.8	41.2	39.7	38.7
54.2	61.5	66.8	58.6	56.4	50.5	49.2	45.5	44.6	42.2	39.6	39.1	37.5
55.3	61	62.9	57.1	55.7	48.9	48.1	46.9	43.3	42.3	39.7	38.7	37.4
54.9	57.8	61.4	55.2	54.1	48.6	48.4	46.6	43.3	42.6	39.5	39.2	39.5
52.5	55.3	60.9	53.5	55.4	49.4	49.1	46	43.6	43.2	41	41	40.8
51.4	53.7	61.9	53.8	55.6	51.1	49.3	45.9	45.6	45.3	43.1	41.4	40.7
51.4	53.8	60.5	55.3	55.4	50.8	49.7	46	45.3	45.4	43.1	41	41.3
51.4	53.5	59.7	59.1	55.5	50.9	49.9	47.1	45.1	45.3	42.1	40.6	41.1
53.9	58.7	59.7	59.3	58.4	50.8	48.5	47	44.5	44.3	42.1	40.7	40.2
52.9	60.4	60.7	58.1	57	50	48.7	46.2	45.3	43.8	42	40.3	41.5
52	58	60.4	59.6	54.4	52	49.3	47	48.6	45.1	44.4	42.7	42.6
51.4	58	61.3	61	53.8	51.9	50.7	48.7	49.1	45.1	45.1	42.8	42.5
51.2	58.4	61.5	59	54.5	50.9	51.3	52.5	48.5	44	43.3	41.1	40.6
54.2	57.1	60.2	56.4	54.7	51.3	51.2	52.8	45.8	44.7	42.6	40.9	41
54	57.2	61.4	57.6	55.2	52.9	51.2	53.6	47	46.3	44	41.7	41.4
55.8	56.1	62.8	58.6	56.2	55.7	54.1	54.7	49.3	46.4	44.5	41.8	42.3
55.6	55.9	61.9	58.4	56	54.7	54.8	54.7	48.9	46.5	45.8	41.6	42.1
56	59.3	61.5	55.8	53.9	53.2	56.4	55.8	49	46.2	47.7	42.2	41.3
53.8	59.6	62.8	54.7	53.2	53.6	57.4	56	50.1	50.5	51.6	42.7	44.8
52.2	57.2	62.8	57.9	53.7	53.1	61.8	67.1	57.9	54.7	56.5	48.8	50.3
58.5	57	61.9	58.5	62.3	52.5	62.5	67.6	63.3	58	58.8	53.5	52.9
58.4	65	62.3	57.5	63.5	57.8	62.6	67.7	62.8	60.3	61	55.5	55.5
55.8	64.2	60.5	56.4	64.7	56.6	61.9	69.7	65.6	67.9	66.6	59.5	61.5
54.5	65.2	62.5	55	65.6	56.3	62	68.9	65.3	67.3	66.5	59	61.5
56.3	65.2	62.4	53.8	63.1	55.8	64.2	65.5	62.8	64.1	62.7	55.8	57.9
54.7	62.4	61.5	53.8	61.2	54.4	62.1	62.5	59	60.1	58.6	51.9	54
54.6	60.3	59.5	52.9	60	55.2	59.2	59.7	55.2	56.1	54.5	48.2	50.2
54	58.3	57.2	52.9	57.2	55.3	55.9	56.4	51.6	52.4	50.5	44.6	46.8
54	56.5	55.5	53.1	54.8	53.2	53.3	53.5	48.2	48.9	46.8	41.7	43.7
55.3	54.7	55.1	52.4	53.3	51.7	51.7	51.7	45.5	46	43.9	39.8	41.3
54.2	53.6	55	52.3	51.8	50.7	52.5	50.9	43.7	44.1	41.9	39.1	40.4
52.1	54.2	54.8	52.1	51.3	53	52.6	49.6	43.3	43.8	41.5	39.5	39.9
61.4	54.2	56.2	56.8	53.9	54.9	52.7	50.3	43.4	43.8	41.7	39.6	40
63.7	55.8	56.9	56.2	53.6	54.1	53.2	53.1	44.1	42.5	42.8	40.1	40.4
60.4	55.4	56.4	53.5	52.7	53.8	53.4	53.2	44	41.7	42.5	40	40.5
57.4	54.2	56.3	51.7	51.8	52.3	52.8	53.7	45.5	41.7	42.4	40.4	40.5
56.5	54.5	55.7	51.3	51.8	49.5	52.2	55.6	46.1	42.2	43.5	41.5	40.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
60.2	55.8	55.7	52	52.1	50.8	54	57.8	51.3	46.1	46.5	43.5	45.2
59.6	55.8	58.3	51.7	52	51	54.3	57.9	54	51.1	50.9	46.1	45.3
56.4	55.8	58	50.6	56	51.1	53.9	58.4	53.8	52.5	51.9	48.2	44.9
54	55.2	56.1	50.6	55.2	51.1	54.3	56.4	54.5	52.7	55	48.4	48.1
51.9	55.6	55.4	49.9	54.5	53.7	56.5	57.1	58.2	55.5	57.3	49.6	49.4
52.1	55.1	55.2	51	53.7	52.7	56.8	54.7	55.6	53	54.4	47	46.7
52.6	54	54.6	50.8	53.2	50.8	55.3	53.2	51.9	49.4	50.4	43.7	43.2
58	51.8	55.3	50.9	52.9	50.5	53.4	52.5	48.8	46.3	46.8	41.4	40.5
57.2	52	54.2	49.8	51.8	50.4	52.5	51	47.3	44.1	44.1	39.3	38.9
53.8	54.8	54	48.9	50.3	48.6	50.6	48.7	44.4	41.7	41	37.9	37.3
52.6	54.6	53.3	49.2	49.9	47.6	48.3	46.8	42.9	41.2	39.9	37.9	36.3
53.7	54.1	52.6	49.5	49.7	47.6	47	45.8	42.1	40.5	39.3	37.2	36.4
52.5	52.6	53.8	49.9	48.3	46.8	46.2	44	40.9	40.7	38.1	37.6	36.1

45.4	45.4	47.7	46.2	44.8	41.7	41	38.3	34.3	32.9	28.5	24.7
45.3	45.2	47.5	46.2	44.4	41.5	40.5	37.6	34.3	31.8	27	24.2
44.3	44.5	46.7	44.9	43	40.4	40.8	37.6	35.1	31.9	27	23.9
42.1	42.8	44.5	42.8	41.2	38.6	39.3	36.4	33.5	30.6	27.7	23.9
41	40.8	43	41.7	40.6	38.4	39.5	37.5	34.8	31.6	29.3	25.9
41	39.6	41.2	40.3	39.7	38.6	39.1	37.1	34.7	31.4	29	26
40.4	38.6	39.7	39.6	39.6	38.6	39.7	37.3	34.1	31.2	28.8	25.9
39.4	38.4	38.6	39	39.7	38.9	39.9	37.8	34.5	31.2	28.6	25.8
40.2	39	38.9	39	39.8	39.1	39.8	37.7	34.2	31	28.5	25.8
41.2	40	39.4	39	40.2	40.1	42.5	39.3	36.6	33.3	30.2	25.8
41.2	41.3	40.3	40.2	40.6	40.3	43.8	41.1	37.1	33.2	30	25.8
41.6	42.7	41	40.4	40.6	39.7	43.7	41.6	38.1	33.7	29.8	25.5
41.5	42.4	40.9	40.1	40	38.7	42.6	40.7	37.4	33.7	30.6	25.5
41	41.2	40.1	39.5	39.1	37.8	40.5	39.4	35.8	32.4	29.1	25.1
41	41	39.7	39	38.7	37	38	36.9	33.9	31.6	28.7	24.9
40.6	40.8	39.8	39	38.3	37.3	39.7	37.3	34.4	32.4	29.8	25.1
39.4	39.8	38.7	38.7	38.7	37.9	39.5	37.7	34.8	32.2	28.5	25.3
39.6	39.8	39.1	38.9	38.9	38.8	39.1	39.1	34.7	31.7	28.6	25.4
38.9	39	39	38.4	37.8	38	39.1	38.2	34.9	31.1	27.2	25
38.3	38.2	37.6	37.2	37.3	36.9	38.2	37.4	34.2	30.2	26.5	24.1
37.7	37.3	37.7	36.6	37.2	37.2	41	39	35.5	31.5	26.6	24
40.2	39.7	40	39.3	39.2	39.8	41.5	39.6	36.7	33.6	29.5	27.3
46.6	44.1	43.5	43.7	43.5	42.9	43.7	42.5	40.8	36.4	33.4	31.1
49.2	49.4	46.5	46.6	45.5	44	43.9	42.8	41	37.1	34	31.9
49.6	51.4	48	47.9	47	44.4	44.3	42.6	40.7	36.7	33	31.3
49.5	51.5	48.3	47.9	47	44.3	43.5	42.3	40.5	36.4	32.7	31.4
48	49.6	47.3	46	45	42.5	42.3	41	38.5	34.8	31.1	29.8
45.6	47.1	45.5	44	43	41	40.6	39.3	36.7	32.8	29.5	28.2
43.5	45.1	43.6	42.2	40.9	39.2	39.7	38.9	35.8	35.4	32.6	32.1
43.5	43.9	42.6	41.2	39.7	38	39.1	38.4	35.2	34.6	31.7	30.8
42.5	43.1	41.8	40	38.3	36.5	37.4	35.6	32.5	31.5	28.9	27.9
41.2	41.3	40.2	38.4	37.4	35.5	38.7	37.5	34.4	30.8	27.4	26.3
39.7	39.5	38.9	37.3	36.9	35.2	38.2	37	33.7	30.2	26.6	24.5
38.9	38.1	37.6	36.2	35	33.7	37.7	36.4	32.1	29.1	25.9	23.3
38.5	37.3	36.6	35.6	34.9	34.4	37.3	36.9	32.3	29.3	25.2	22.8
37.7	36.9	35.6	34.7	34	33.7	37	36.3	31.9	29.5	25.3	22.3
37.4	36.3	35.2	34.1	33.3	33.6	37	35.9	30.9	29.5	25	22.1
37.9	35.4	34.5	33.4	32.8	32.2	35.1	34.5	28.6	27.2	23.5	21.8
38.6	35.9	35.2	34.4	34.7	35.6	37.7	36.2	31.8	28.5	24	21.8
42.5	39.1	41	38.9	39	39.1	40.8	38.8	34.6	31	25.9	22.6
42.7	40.1	41.8	39.8	40.3	40.6	42.3	39.1	34.6	30.9	26.3	22.8
42.1	39.8	41.3	40	40.7	41.2	41.9	38.8	34.3	30.5	26.8	23.7
43.1	41.6	42.6	41.8	42.5	43	41.9	40.4	35.6	32.6	29.4	25.7
42.7	41.4	42.5	41.4	42	42.9	43.9	41.9	37.9	33.7	29.4	25.4
40.6	40	41.1	39.8	40.7	40.8	43.8	41.9	37.9	33.8	29.7	25.2
40.2	39.6	41.6	39.8	39.8	39.3	42.8	40.4	36	33.9	30	25.8
40.6	39.8	41.7	39.8	39.9	39.2	43.1	40.9	36.1	33.8	29.9	25.6
39.8	38.7	40.4	39	38.2	38.2	42.5	40.3	35.3	32.9	28.3	24.9
38.2	37.5	38.6	37.3	36.7	36	41.1	39	36	32.1	27.6	24.1
37.2	36.7	37.4	36	35	34.3	38.4	36.7	34.1	31	27.9	23.6
37.4	36.5	37.4	35.8	36	35.9	39.8	38.2	35.1	32.3	30.2	23.5
38.4	37.6	38.9	37.5	38.5	37.7	42.2	40	37	33.4	29.1	23.7
40.9	39.8	40	38.6	41.8	41.7	41.8	39.8	36.6	33	28.3	24.7
42.8	43.4	42.1	40.4	42.6	42.9	43.3	40.9	36.4	32.5	29.3	26
41.8	42.4	43.1	39.7	41.5	41.5	42.5	41.8	36.9	32.9	28.6	25
40.8	41.1	43	39.7	40.4	40.4	42.9	41.4	36.7	32.7	27.7	23.9
39.5	40.3	42.6	39.4	38.8	38.9	44.6	41.9	36.9	32.4	27	22.8
38.5	38.2	40.4	37.8	37.5	37.8	42.9	41.2	36.3	31.7	25.8	22.2
38.6	37.6	39.3	38.2	38	37.2	42.6	41.1	38	32.8	27	23.5
39.6	39.8	40.5	39.8	38.5	38.3	42.7	41	38.2	33.5	30.5	25
41.9	41.2	41.9	41.9	43.6	39.9	41.1	41.6	39.1	38.1	36.2	31.6
41.6	41.6	42.4	41.9	42.4	40.3	42.3	42	38.7	37.6	35.6	31.3
42	42.3	44.2	44	42.7	43.3	42.4	41.8	40.5	39.4	37.3	32.6
41.7	42.3	44	43.8	42.3	42.5	41.9	41.5	40.4	39.1	37.5	32.7
41.5	41.8	42.7	41.9	40.5	39.9	41.8	41.3	37.6	36.1	34.4	30.1
41.2	41.4	41.3	40.5	39.4	38.6	43.1	41.6	38.1	34.3	31.6	27.9
42.3	41.8	41.5	40.5	39.4	38.7	43	41.9	37.4	33.8	29.6	25.4
42.5	42.5	42.8	40.5	40.2	39.5	41.8	40.2	36.4	33.5	29.4	25.6
40.7	40.8	41.3	39.3	38.9	37.7	40.9	38.2	34.7	31.7	27.7	24.4
41.1	41.6	41.2	39	38.9	38.2	41.2	38.4	35.2	31.3	26.6	23.1
41.3	41.6	41.9	39.9	39.4	38.3	40.6	38.6	35.9	33.4	26.7	23.4
41.5	42.5	42.6	40.2	39.6	38.4	39.8	38.1	34.4	31.8	26.7	23.5
41.5	42.5	42.9	40.3	39.6	38.2	41	38.1	34.1	31	26.4	24
40.5	42.1	42.1	40.7	40.4	38.8	41.3	39.6	34.9	31.8	29	26.4
43	41.7	43.1	43.2	46.9	48.6	44.8	45	44.2	42.1	37.8	37.6
44.8	42.5	42.4	41.5	44.3	45.7	42.5	42.5	41.7	39.8	35.8	35.2
50.3	43.6	43.2	43.2	43.5	44.4	43.6	42.8	41.7	39.6	36	33.6
52.2	44.3	45.2	45.7	44.5	46	45.8	44.8	47.1	43.6	38.5	37.7
56.7	51.7	49.5	52.1	50.6	48.8	47.9	46.3	46.1	42.9	39.4	37.4
56.7	51.6	49.3	51.8	50	48.4	47.5	46.2	45	42.4	38.9	36.6
53.4	48.4	46.5	48.2	46.7	45.2	44.5	43.5	41.8	39.2	35.9	33.6
49.9	45.6	44	44.7	43.3	41.9	43.5	41.2	38.8	36	32.4	29.9
46.8	43.5	42.5	41.9	40.9	39.3	42.8	39.5	36.4	33.4	30.2	27.5
44.1	41.4	40.3	39.4	38.2	37.3	42.7	38.8	35.4	31.8	28	25.1
42.1	40	38.8	37.4	36.2	35.7	40.4	37.4	34.1	30.8	26.5	24.1
40.1	38.3	38	36	35.1	34.3	38.9	37.6	33.1	29.7	25.4	23.4
39.5	38.1	38.2	35.7	35.6	34.2	40.3	38.5	35.3	31.5	26.9	24.7
38.9	38.2	37.3	35.7	35.6	34.1	40.4	38.8	35.9	32.3	27	23.7
38.7	38.9	36.9	35.9	35	34.2	38.7	37.6	34.5	31	25.6	22.6
39.3	38.9	37	35.7	35.5	34.2	39.6	38.1	33.6	31.8	27.6	24.3
39.2	38.6	37	35.9	35.6	34.9	41.6	39.6	37.4	35.4	34.1	27.8
38.6	37.4	35.8	35.1	35.2	34.7	40.8	38.7	36.8	34.6	33.3	27.3
38.1	36.7	35.2	34.2	34.4	33.8	38.6	36.3	33.7	31.2	29.6	26.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
40.9	36.5	35	33.9	34.1	34.2	38.7	35.9	32.3	30.6	28	25.3
41.2	36.5	35	34.4	34	34.6	37.8	35.8	32.1	30.5	26.2	23.4
41.4	36.7	36.4	35.3	35.5	35.4	37.6	36.1	32.5	30.8	25.6	22.9
45.3	42.7	40.2	39.5	38.6	38.1	39	38.1	33.9	31.5	25.9	22.4
47	44.4	42.2	41.7	39.9	38.6	39.5	38.6	34.5	32.5	27.3	24
44.2	44.3	40.1	39.4	38.1	36.6	39.2	36.6	33.2	31.1	27.3	23.5
41.1	43.3	38	37.6	38.5	39.6	42.8	40.9	38.2	37.2	32.7	28.5
39.8	42.3	38	37.6	38.9	39.6	44	41.2	39	37.3	32.7	28.5
38.6	42.6	37.2	36.7	38.5	38.5	44	40.6	38.8	36.4	32.5	29.5
37.8	42.8	35.4	37.2	39.6	40.8	44.3	42.3	39.9	37.6	33.4	28.5
37.7	42.6	35.6	37.2	39.9	40.7	44.3	42.3	39.9	37.5	33.3	28.3
36.3	42	33.9	34.8	38.2	37.8	42.6	41.1	37.8	34.8	30.4	25.5
36.2	41.4	34.1	37.3	40.1	39.7	44.1	42.9	40.8	37.4	34.4	30.5

23.6	23.4	23.8	24.7	42	44	47.8	49.5	48	51.1	54.9	55.1	53.9
23.4	23.2	23.7	24.6	41.1	43.9	48.8	48.9	47.9	53.4	57.7	57.5	53.6
23.1	23.1	23.6	24.6	39.3	44.2	47.4	50.7	49.5	53.9	58	57.5	53.7
22.9	23	23.7	24.6	39	45.9	47.8	51.3	49.3	57.2	58.3	59.5	54.9
23.8	23.3	23.7	24.6	42.9	45.1	52.5	54.7	54	55.5	55.8	57.4	54.1
23.8	23.3	23.8	24.6	44.4	43.9	51.9	53.2	52	53.6	54.2	55.5	53.3
23.8	23.3	23.8	24.6	49	48.7	51	52.1	51.4	52.3	51.9	53.4	53.1
23.7	23.2	23.8	24.6	46.7	49.1	51.2	50.7	47.7	50.7	50.6	52	54.3
23.6	23.1	23.7	24.6	44	49.5	47.8	48.7	47.5	48.9	50	50.9	52.5
23.5	23.1	23.7	24.6	40.6	46.1	47.6	47.8	49.3	48.9	50.1	53.2	51.8
23.5	23.1	23.7	24.6	40.4	45.4	48.2	47.7	48.8	49.8	54.1	51.2	51.7
23.1	23	23.8	24.6	43.9	44.1	49.5	45.9	48.5	50.3	54	49.9	51.4
23.2	23.1	23.8	24.6	42.2	43.4	50	46.8	48	49.8	55.1	50.3	53.1
23	23.1	23.7	24.6	42.1	43.2	48.8	46.3	48.6	50.5	54.2	56.5	54
22.9	23	23.6	24.6	38.7	51.8	48.9	46.2	49.4	53.3	52.7	57.4	53.8
22.9	23	23.7	24.5	38	49.3	48.9	45.8	50.2	52.6	53.7	57.4	53.9
23.3	23	23.7	24.6	38.6	48.8	47.3	48.4	50.4	51.5	54.7	58.3	53.1
23.4	23	23.7	24.6	40.3	48.9	45.6	47.5	50.5	51	54.6	58.1	53
23.1	23	23.7	24.6	38.9	48.9	46	47.3	50.6	52.5	54.1	56.7	54.9
22.9	23.1	23.7	24.6	38.8	47.1	45.5	49.7	49.5	52.1	51.8	55.6	55.7
22.9	23.2	23.7	24.6	42.3	45.4	45.7	50.1	48.3	50.1	51.6	56.5	54.4
25.2	24.1	24	24.6	42	44.6	48.5	49.9	47.1	47.6	52.5	59.7	54.8
28.5	25.8	24.6	24.8	42.5	45.2	47.8	49.8	46.8	47.9	53.8	56.7	53.7
29.4	26.3	24.9	24.8	45	47.4	47.4	50.7	45.5	51.8	55.6	55.1	53.8
29.3	26.9	25.4	24.9	42.3	47.8	47.8	51.4	45.5	51.4	53.8	53.7	53.5
29.6	27.2	25.7	25.1	41.4	47.3	48.6	50.3	50.8	51.2	53.4	52.6	57.7
28.4	26.5	25.3	25	42.3	47.9	47.3	50.2	49.9	51.4	52.6	52.5	63.4
26.9	25.2	27.3	25.5	46.2	47.5	52.8	51.5	52	51.9	55.5	55.9	67.9
28.3	27.3	27.4	25.6	46.9	47.9	51.1	51	52.7	51.4	53.7	53.4	66.6
27.4	26.7	26.2	25.3	44.3	45.7	52.7	50.4	50.2	49	52.1	52	64.7
26.2	25.7	25.4	25	43	45.5	50.4	50.8	49.8	47.4	51	51.7	63.7
25.1	24.7	24.6	24.8	43.9	46.8	51.2	50.2	49.8	47.6	50.6	52.6	62.7
23.8	23.8	24.2	24.6	45.3	46.7	50.9	49.2	49.2	46.5	51.1	53	63.2
22.9	23.2	23.9	24.6	44.2	48.7	52.1	49.6	49.2	46.4	52.6	52.6	62
22.8	23	23.8	24.6	44.6	50.1	49.8	50.9	49.7	46.6	52.5	51.9	60.3
22.3	23	23.6	24.5	46	49.2	47.4	51.5	50.7	48.7	51.9	54	59.6
22.3	22.8	23.6	24.6	45.4	49.3	49.3	51.1	49.8	49.3	50.4	55.9	56
22.1	22.6	23.6	24.6	42.8	48.7	47.9	50.4	50.2	48.6	50.3	55.1	53.6
22.1	22.6	23.6	24.5	43.2	47	49.6	51.9	52	48.5	53.8	53.7	51.7
22.2	22.7	23.6	24.6	43.7	47.5	50.5	52.7	52.6	51.7	53.8	54	52.3
22.2	22.8	23.6	24.6	43.4	45.8	49.6	56.3	53.4	50.2	53.5	52.6	52
22.5	22.8	23.6	24.6	47.4	45.4	49.3	53.6	50.1	50	54.7	52.9	51.1
23.2	22.9	23.6	24.5	47.7	48.2	47.8	50.8	49.1	51.4	54.6	55.5	50.4
23.1	23	23.7	24.6	48	48.4	48.8	49.2	46.5	52.1	55.8	54.7	51
23.6	23.5	24.1	24.7	48.6	50.2	48.5	46.9	46.7	55.2	55	53.9	50.9
23.8	23.3	23.9	24.6	48.4	50.4	47.3	47.4	50.9	55.3	53.5	53.2	51.5
23.8	23.3	23.7	24.5	48	48.4	47.9	53.5	51.7	55.2	53.5	52.7	54.4
23.2	23.1	23.7	24.5	46.9	46.5	46.1	53.4	51	52.8	53	52.4	54.3
22.8	23	23.7	24.6	48.8	45.7	46	51.2	50.4	50.6	52.6	55.9	55.1
22.4	22.9	23.6	24.6	48.5	49.9	48.9	50.2	50.4	50.2	58.7	54.8	53.6
22.4	22.8	23.6	24.6	51.6	50	48.5	49.7	49.9	52.3	58.5	54	53.2
22.7	22.8	23.7	24.6	53.7	52.4	45.7	47.9	49.1	53.9	56.5	54.8	55.2
23.1	22.9	23.7	24.6	53	50.1	45.6	47.8	46.8	50.5	55.3	53.2	59.7
23.5	23.1	23.8	24.7	54.6	50	44.6	47.6	46.9	47.6	53.6	50.5	56.2
23.3	23.3	23.7	24.7	52.4	48	42.5	49.3	48.4	47.7	53.6	50.4	53.9
22.9	23.1	23.7	24.6	48.9	44.8	42.5	52.5	48.9	47.9	53.3	48.9	52
22.2	22.9	23.6	24.5	47.1	44.4	46	50.9	49.1	48.8	52.6	48.9	52.4
22.2	22.7	23.6	24.5	48.4	46.8	43.9	49.8	49.9	48.1	52.8	51.5	60.9
22.9	23.1	23.7	24.5	47	46.8	44	49.9	49	47.9	52.1	52.9	57.9
24.4	23.5	23.8	24.6	47.5	45	48.4	50.6	48.5	45.8	52.3	52.6	55.3
31	28.1	25.5	25.3	44.6	41.7	47.3	51.1	47.7	45.3	51.4	50.7	53.7
30.4	27.5	25.2	25.2	44.2	40.7	45.6	48.5	47.7	52	51.9	50.1	52.5
30.2	26.9	24.8	24.9	44.4	39.9	45.3	48.8	48.1	50.9	51.3	49.3	52.2
30.5	27.3	25.3	25.1	46.6	38	44.9	50.7	48.7	49.1	50.1	50.4	52.5
28.5	26	24.7	24.9	46.2	37.9	46.3	50.1	48	49	50.1	50.3	52.5
26.5	24.6	24.3	24.7	45.6	45.9	46	50.6	48.7	48.3	49	50.8	58
24.3	23.5	23.9	24.7	44.7	46	45.2	51.9	49.1	47.2	48.8	50.6	54.9
23.7	23.2	23.7	24.7	45	46.8	45.5	51.4	48.9	47.4	48.7	50.4	54.8
23.1	23	23.7	24.6	46.4	47.7	47.6	50.2	46.4	48.3	50.5	50.4	56.9
22.7	22.9	23.7	24.6	51.2	50.2	50	50.2	45.7	46.8	50	51	56
22.7	22.9	23.7	24.6	50.4	49	48.8	50.8	47.1	46.2	49.4	53.5	55.7
22.7	23	23.7	24.6	50.5	50.4	47.1	48.9	49.7	49.1	49.5	53	54.1
23.2	23.2	23.7	24.6	53.7	50.1	46	47.7	50.1	48.8	50.4	54.3	53.6
24.7	23.6	23.9	24.7	51.5	48.6	43.5	50.7	51.6	49.1	51.4	53.9	56.1
31.5	28.3	26.7	25.4	47.7	47.3	44.2	49.7	50.7	47.8	52	51.9	57.3
29.6	26.7	25.7	25.2	46.2	45.4	48.8	49.4	49.9	46.3	51.5	50.9	55.7
29.1	26.2	25.3	25.1	46.7	41.9	50.3	51	49	46.6	51.1	50.9	55.5
32.5	28.3	26.1	25.2	46.2	41.7	50.8	50.8	48.6	49.1	51.7	55.8	57.1
34.1	30.7	28.3	26.1	46.5	45.1	50	51	51.8	49.9	49.5	53	63.7
33.3	29.7	27.4	25.7	55.6	47.8	53	48.8	51.6	50.5	49	52.2	63.3
30.6	27.7	25.6	25.1	53.7	52.3	53.2	48.2	50.6	49.9	49.6	54	62.4
27.3	25.3	24.5	24.8	56.5	54.1	51.9	53.4	51.1	56.3	54.8	53.2	60.3
25.4	24.1	24	24.6	59.1	55.7	53	54.6	51.6	53.7	52.1	53	58.4
23.8	23.3	23.8	24.6	55.6	55.4	57	54.3	51	50.4	50.8	53.1	56.1
23.2	23	23.7	24.5	55.5	57.2	56.3	54.6	50.8	49.8	49.8	52	54
22.9	22.9	23.7	24.5	59.8	56.6	52.6	53.3	49.9	50.9	50.5	51.3	53.7
23	22.8	23.6	24.5	57.2	55.4	49.1	50.8	50.1	51.3	51.4	51.9	52.6
22.7	22.8	23.6	24.5	55.9	53.1	48.4	50.8	52.1	52.2	49.7	51.3	52.5
22.3	22.7	23.7	24.6	53.2	50.6	49.3	51.7	50.3	52.5	49.6	51.4	53.4
23.3	23.1	23.7	24.6	51	49.5	47.5	51.1	50.6	52.8	51.8	60.5	53.8
24.9	23.6	23.9	24.6	50.8	51.5	47.4	51.8	53.6	56.7	54.4	57.3	54.3
24.3	23.4	23.7	24.6	51.4	49.9	49.9	56.4	54	53.7	51.8	54.7	53
24.5	23.1	23.7	24.6	51.5	46.8	49.6	54.5	53.3	52.6	50.2	54.5	53.2

NM3_KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 10000 1/3 LZSmax 12500 1/3 LZSmax 16000 1/3 LZSmax 20000 1/3 LZSmin 6.3 1/3 LZSmin 8.0 1/3 LZSmin 10.0 1/3 LZSmin 12.5 1/3 LZSmin 16.0 1/3 LZSmin 20.0 1/3 LZSmin 25.0 1/3 LZSmin 31.5 1/3 LZSmin 40.0

24	23	23.6	24.6	49.5	46	47.4	52.9	53.1	52.2	50.1	56.2	52.9
22.9	22.8	23.6	24.6	47.3	47.7	47.4	53.3	53.8	52.2	52.6	56.5	53.6
22.6	22.8	23.6	24.6	47.3	47.2	52	53.4	53.6	51.8	51.6	54	55.2
22.3	22.8	23.7	24.6	51.1	53.1	50.6	53.6	51.2	50	51.3	51.7	54.3
23	22.9	23.7	24.5	52.1	50.9	51.6	53.6	50.9	49.8	51.2	50.9	54.3
23	22.8	23.7	24.5	51.5	49.9	52.6	53	51.5	49.6	49.1	50.8	54
24.2	23	23.7	24.5	53.3	53.6	49.4	51.8	50.6	49.6	48	51.1	51.8
24.6	23.5	23.7	24.5	56.5	52.6	48.2	50.8	49.4	48.3	48	50.6	51
25.5	24.1	23.8	24.6	55.4	49.5	48.8	49.3	48.6	49.1	53.9	53.8	51
24.5	23.5	23.7	24.5	54.9	49.5	48.3	48.4	49.3	48.2	51.3	51.9	52
24.3	23.2	23.6	24.5	53.4	51.2	46	48.1	49.9	46.2	51	51.3	53
23.1	22.8	23.6	24.5	53.4	49.9	46.1	46.2	49	46.3	51	50.8	52.7
26.8	23.3	23.6	24.6	53.3	49.1	48.5	45.5	49.6	47.4	51.1	51.1	51.2

54.7	51.8	53.7	52.2	50.3	48.4	46.3	50	48.2	44.6	44	44.5	44.8
54.6	54	54.2	51.5	49.6	48.2	46.8	51.6	48.8	44.2	45.4	44.3	44.5
57.1	52.9	53.1	52.4	50.7	47.8	45.2	49.3	46.4	42.3	43.3	42.2	42.8
56.2	51.3	52.8	51	50	47.7	43.8	47.8	44.7	41	42.1	40.7	40.8
54.9	49.8	52.2	50.1	48.5	46.7	42.5	46.3	43.6	40.8	41.1	40.5	39.6
54.7	49.2	53	49.9	47.1	46.7	41.4	45	42.6	40.6	40.7	40.4	38.5
53.7	48.4	53.6	53.8	46.6	46.2	41.3	43.3	41.1	40.2	40.1	39.3	37.8
53.3	49.1	53.5	52.4	45.7	45	40.8	42.2	40.4	40.2	40	38.9	37.9
53.8	49.5	53.7	50.9	45.7	44.2	40.1	41.9	40.2	39.7	39.8	39	38
54.5	48	53.9	50.9	45	45.8	40.4	41.5	40	39.7	39.9	40	39
55.3	47.7	53.3	50.9	44.8	45.8	41.5	41.6	40.1	40.2	40.4	40.9	39.8
56.1	50	53.6	51	45	45.4	41.8	42.3	41.1	39.9	40.4	41.2	41.3
54.9	51.1	55.7	51.1	46.1	45.9	41.7	42.8	41.9	39.8	40.1	40.6	41.1
54.8	52.3	54.1	51.6	46.1	45.1	42.4	42.5	42.2	39.6	39.5	40.4	40.5
54.2	52.1	54.3	51	47.7	44	42.8	42.7	42.7	39.8	39.6	40.4	40.5
54.3	51.4	54.9	50.8	46.4	44.2	42.8	43.3	43	39.6	39.6	39.3	39.8
53.7	51.3	54.3	51.2	46.2	44.5	42.2	42.1	41.4	39	39	39	39.3
55.1	50	54.8	49.7	46.8	44.6	41.2	41.4	40.3	38.9	38.8	38.9	39
53.8	48.9	57.1	49.7	47	47.4	40.8	41.6	40.2	38.8	38.1	38.3	38.1
53.9	48.6	59.3	49.6	46.5	48.1	40.2	41.4	39.9	38.5	37.5	37.5	37.3
53.5	49.4	58.1	49.5	48	48.2	40.5	40.4	39.6	38.4	37.4	37.4	37
53.2	49.9	55.1	49.7	48.9	47.2	41.5	40.5	40.7	39.3	38.9	37.7	37.2
58.9	50.5	53.8	50.3	51.5	46.9	41.7	43.4	41.6	40.7	41.2	40.2	39.9
58	57.7	54.1	50.3	51.8	47.7	43.1	45.6	44.3	44.7	45.3	46.8	44.2
57.8	57.7	54.4	52.5	52.1	48.2	46.3	47.3	47.3	47.4	47.7	48.9	49.4
58.4	55.6	55.3	52.1	51.6	48.1	47.6	48.1	46.2	46.2	46.6	48	49.6
57.4	52.9	56.1	50.3	50.8	47.4	49	47.1	45.1	44.7	44.6	45.7	47.2
56	51.2	56.3	49.5	50.9	46.4	47.1	45.9	43.8	43.1	43	43.5	45.1
55.3	50.8	55.7	49.4	52	46.2	46.1	44.6	43.1	42.6	42.7	43.1	43.9
54.9	51	55.6	49.3	51.6	46.4	44.7	43.6	43	42.2	43.4	42.5	43.1
54	50.2	54.9	49.2	51.4	46.3	44	42.7	42.1	40.7	41.8	41.2	41.3
54	49.8	54.1	49	50.3	47.1	43.4	43.1	40.5	39.2	40.1	39.7	39.5
54.4	50.1	52.9	49.2	50	45.9	42.3	43.1	39.7	38.6	38.2	38.5	38.1
53.7	50.1	52.1	49.1	51.3	45	42.1	41.7	39.6	38.5	37.7	38.4	37.2
53.6	49.5	52.9	49	50.2	45.3	41.4	41.1	39.3	38.2	37.5	37.7	36.6
53	49.7	52.8	49.7	49.4	45.2	41.4	41.1	38.9	37.6	37.7	37.2	36.2
52.8	50.8	52.5	52.9	48.7	44.8	41.5	40.4	39.1	37	36.7	36.8	35.4
52.8	50.7	53.9	51.7	48.7	44	41.3	40.7	37.9	36.9	36.1	36.8	35.1
52.7	51.8	53.5	50.7	47.6	43.8	40.7	41.3	38.1	37.8	36.6	37.4	35.3
53.7	52.9	52.6	50.5	47.3	43.8	40.9	41.2	39.1	37.7	38.1	38.6	35.9
54.6	57.5	55.5	50.6	50.3	45.6	42.3	43	41.4	38.8	39.1	41.6	39.2
54.6	66	54.7	54.6	57.3	46.8	43.6	44.7	42.2	40.2	40.2	41.2	39.2
56.3	63.9	57.7	57.9	58.3	48.1	43.6	45	43.6	40	40.5	42.1	39.4
56	61.3	59	58.4	58.1	47.3	43.5	44.4	42.4	38.9	39.3	40.6	40
56	59.7	56.2	56.1	54.7	46	43.6	43.1	40.9	38.3	38.7	39.2	38.8
56.2	57	55.7	53.2	51.8	45.8	43.3	43.2	40.6	38.3	38.8	39.2	38.9
56.4	56.4	55.9	51.9	50	45.1	43.1	44.3	40.5	38.2	38	39.9	38.8
58.1	55.1	55.8	51.2	49.5	45.4	44.2	42.7	39.7	37.7	37.5	38.2	37.3
58.4	56.3	55	50.1	49.5	44.8	42.9	41.9	38.7	37.1	36.8	37.2	36.6
58.3	55.2	53.9	49.3	49.1	44.8	42.5	41.2	38.4	37.1	36.1	36.3	35.6
58.6	55.1	54.4	50.2	50	44.9	42.5	41.1	38.3	37	36.4	36.3	35.4
57	55.6	59.6	50.9	49.8	45.5	42.3	41.7	38.5	37.6	37.3	37.4	36.4
58.2	54.3	59.6	53.2	49.5	46	42.2	41.7	39.3	37.8	38	38.4	37.4
62.6	64.5	58.4	53.5	53	45.6	43.7	42	39.4	38.5	39.1	40.8	39.7
61.7	65.8	60.9	51.9	51.6	46.3	44.1	42.4	39.7	39.2	39	40.9	41.1
70.2	62	57.9	51.2	50.7	45.5	44.1	43.5	40	39.1	38.7	39.5	40.1
66.8	58.6	56.2	50.2	49.2	45.2	44.6	42.2	39.6	39.1	37.5	38.5	38.2
63	56.7	55.3	48.9	47.8	44.6	43	41.4	39.1	38.2	37.1	37.5	37.2
60.6	55.2	53.3	48.2	46.8	44.4	42.6	41.3	39	38.2	37.1	37.4	37.1
58.8	53.4	53.1	48	48	44.6	42.5	42	39	38.4	37.1	37.9	37.3
58.4	52.1	53.1	47.7	47.9	44.6	42.2	41.8	39.1	38.7	38.8	39.4	39.1
60.1	52.8	55	49.4	48.2	45.2	43.5	43.1	40.9	40.1	40.3	41	40.9
59	53.3	54.4	50.1	48.6	45.1	44.5	44.9	42	40.3	40.4	41.2	41.3
58.4	54.6	53	50.2	48.5	45.1	44	44.4	41.6	39.7	39.8	41.4	41.5
57.5	56.7	55.7	49.9	47.6	46	43.7	43.2	40.9	39.9	39.6	40.5	41.1
58.5	54.6	54.4	49.4	47.7	45.1	43.7	43	40.8	39.6	39.6	40.5	40.7
58.8	58.1	52.7	48.5	48	45.4	44.9	43.1	41.9	39.6	41.1	40.6	41.4
58.8	59	52.6	50.7	49.3	46.1	48.4	44	43.3	41.1	40.5	40.7	40.9
60.3	56.3	53.3	50	50.5	48.6	45.8	43.1	41.8	40.1	39.5	39.9	40.2
59.1	55.2	53.4	50.1	49.8	51.5	45.1	43	41.9	40.3	39.9	40.2	40.5
59.3	55.4	53.6	51	48.7	51.2	45	44.5	42.1	40.4	40.5	40.9	41.3
61.4	56.2	54.6	52.9	51.1	53.2	46.7	46	43.5	41.4	41.4	41.1	41.4
60.6	55.7	53.9	53.1	53.4	54.3	48	46.2	43.5	41.1	40.9	40.1	41.7
60.2	54.2	52.7	52.1	54.5	54.3	48.2	45.7	45.6	40.9	40.6	39.7	41.1
60.8	53.2	51.7	51.6	55	54.4	47.9	46	47.7	41.9	41.3	40.6	41.2
61.5	53	51.2	51.9	57.6	55	50.1	50.5	52	42.8	44.9	43.1	41.5
60.3	57.2	52.8	51.5	60	65.9	58.1	54.6	56.6	48.7	49.8	44.8	42.4
60.5	56.4	61.1	51.9	60.8	65.8	62.3	57.3	57.6	52.6	52.1	49.5	43.3
58.2	54.2	63.5	55.6	60.3	66.6	61.5	59.4	60.5	55	54.8	51	43.6
57.1	53.6	63.1	55	59.5	65.6	62.8	64.2	62.7	55.8	58	53.5	48.4
61.1	53.3	60.7	53.7	62.1	62.6	59.1	60.2	58.6	51.9	54	49.9	45.6
59.5	51.8	60	52.9	59.2	59.7	55.2	56.1	54.5	48.2	50.2	46.8	43.5
57.2	51.8	57.2	54.1	55.9	56.4	51.7	52.5	50.5	44.6	46.8	44.1	41.4
54.6	52	54.3	53.3	53.4	53.5	48.3	49	46.8	41.8	43.7	42.1	40
54.4	51.4	53.4	51.6	51.6	51.8	45.5	46	43.9	39.8	41.3	40.1	38.4
54.6	51.3	51.7	50.8	51	50.6	43.7	44.1	41.9	38.7	40.2	39.4	37.9
54.1	50.7	50.7	49	51.3	48.4	41.9	42.9	41.1	38.5	39.2	38.6	37.2
53.5	50.9	49.6	48.9	51.7	48.3	41.9	42.6	40.9	37.9	39.2	38.4	36.9
54.8	50.5	51.4	53	52	49.3	42.4	42.6	41.2	38.7	39.3	38.1	37.6
55.7	53.1	51.8	53.2	52.1	49.2	42.2	41.8	41.4	38.5	39.4	38.3	38.6
55.4	51.8	51.4	52.4	52.5	51.1	42.6	40.4	41.7	39.1	39.8	38.7	37.4
54.9	50.6	50.5	49.6	50.9	51	42.4	40.5	41.6	39.2	39.6	38.1	36.6
53.9	49.7	50.4	48.5	50.7	53.6	45	41.4	42	40.3	40	37.6	36

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
54.2	50.6	50.3	49.1	52.3	55.6	45.6	42.2	43.4	41.1	40.4	37.6	35.8
54.9	50.4	50.2	48.9	51.5	55.4	51	46.1	46.6	43.3	44.2	40.2	35.8
55.6	49.9	51.5	49.6	52	56.3	52.1	50.7	50.8	46.1	43.8	40.6	36
55.2	49.8	53.5	49.5	52	55.5	52.1	51	50.2	47	43.3	40.5	36.5
53.7	48.6	53.4	50.3	50.9	54.7	54.6	53	54.4	47	46.7	44.2	42.7
53.1	49.5	52.2	50.8	55.3	52.5	52	49.4	50.5	43.7	43.2	41.1	43.3
53.1	50.1	51.5	49.2	53.4	52.3	48.6	46.3	46.9	41.3	40.4	39.3	42.3
53.7	49	51.3	49.7	51.9	51.1	46.9	43.9	44.2	39.3	38.9	38.5	41.6
53.2	48.1	50.3	48.6	50.6	48.7	44.5	41.7	41	37.6	37.4	37.7	41.9
53.1	48.1	48.6	46.1	48.2	46.5	42.7	41.2	39.3	36.7	35.9	37.1	42.5
52.2	48.2	48.3	45.5	46.8	45.8	41.9	40.2	39.3	36.8	35.7	36.3	41.9
51.5	48.1	48.3	46.5	45.6	43.9	41	39.7	38.1	36.6	35.7	35.4	41.4
52.4	48	47.4	45.8	45.3	42.9	40	39.8	37.2	36.8	35.6	34.9	40.3

46.7	45.1	43	40.8	40.5	37.5	33.6	31.8	27	24.2	23.2	23.2
46.7	44.9	43	40.4	39.9	37.3	33.4	31.3	26.5	23.8	23	23
44.5	42.9	41.2	38.6	39.3	36.3	33.4	30.4	25.5	22.8	22.5	22.8
43.1	41.7	40	37.7	38.1	35.5	32.1	29.4	24.7	22.4	22.3	22.8
41.2	40.3	39.7	37.7	38.6	36.2	33.4	30.5	27.7	23.9	22.9	23
39.7	39.5	39.2	38.3	38.2	36.3	33.9	30.9	28.5	25.8	23.6	23.2
38.6	38.9	39.2	38.3	38.1	36.4	33.8	30.7	28.5	25.8	23.6	23.2
37.9	38.7	39.2	38.4	39.7	37.1	34	30.7	28.4	25.7	23.6	23
38.2	38.5	39.5	38.8	38.8	37.2	33.6	30.5	28.2	25.6	23.5	23
38.9	38.6	39.5	39	39.2	37.2	33.6	30.8	28.5	25.5	23.4	22.9
39.3	38.9	40.1	39.7	42.3	39.2	36.1	32.9	29.2	25.1	23.1	23
40.2	40	40	38.7	42.6	40.7	37	32.9	28.9	25	23	22.9
40	39.5	39.1	37.8	40.5	39.4	35.8	32.1	28.9	25	23	23
39.4	38.9	38.5	37	38	36.9	33.9	31.1	28	24.8	22.8	23
39.4	38.5	38.2	36.4	36.4	35.3	32.6	29.3	26.6	24.7	22.7	22.9
38.6	38.3	37.9	36.7	36.4	35.3	32.9	31.5	28.4	24.6	22.9	22.9
38.2	37.8	37.5	37	38.7	37	33.9	31.3	27.7	24.5	22.8	22.8
38.3	38.3	37.8	37.9	38	37.6	33.8	30.3	27.2	25	23.1	22.9
37.5	37.1	37.2	36.9	38	37.5	33.7	30.2	26.5	24.1	22.9	22.9
37.1	36.5	36.5	35.9	37.4	36.3	33	28.8	25.5	23.4	22.6	23
37	36.2	36.2	35.8	37.6	36.4	33.3	29.3	25.5	23.2	22.6	23
37.6	36.5	37.3	37.2	40.8	38.9	35.5	31.5	26.7	24	23	23.2
39.9	39.4	39.1	39.8	40.7	38.8	36.6	33.5	29.5	27.3	25.2	24.1
43.6	43.7	43.5	42.9	43.6	42.1	40.2	36.3	33	31.1	28.5	25.8
46.5	46.6	45.4	43.7	43.5	42.1	40.2	36.2	32.6	30.7	28.6	25.8
47.3	46	45	42.5	42.3	41	38.6	34.8	31.1	29.8	28.5	26.5
45.5	44	43	41	40.7	39.4	36.7	32.8	29.5	28.2	26.9	25.2
43.6	42.2	40.9	39.2	38.6	37.3	34.6	31.4	28.2	27	25.7	24.4
42.6	41.2	39.7	38	37.9	36.6	34	30.8	27.9	26.9	25.2	24.5
41.8	40	38.3	36.5	36.6	35.7	32.5	31.5	28.9	27.8	25.4	25.2
40.2	38.4	37.2	35.4	36.3	34.8	31.1	29.6	27.4	26.3	25.1	24.7
38.9	37.3	36.8	35.1	36.5	34.6	30.7	29.2	26.3	24.5	23.9	23.9
37.6	36.2	35	33.7	36.5	35.1	31.5	29	25.3	23.3	22.9	23.2
36.6	35.3	34.6	33.4	35.7	34.5	31.1	28.6	25	22.6	22.5	22.8
35.7	34.7	34.1	33.5	36.4	36.3	31.7	28.6	24.7	22.1	22.3	22.9
35.1	34	33.3	32.9	35.7	35.2	30.9	27.8	24	22	22.2	22.8
34.4	33	32.4	31.7	34	32.9	28.7	27.2	23.5	21.7	22.1	22.6
34	33	32.1	31.1	33.1	31.7	27.6	26.3	22.9	21.6	22	22.5
34.2	33.4	32.5	32.2	35	34.2	28.1	26.5	23.2	21.7	22	22.5
35.3	34.5	34.7	35.6	37.7	35.7	31.2	28	23.8	21.8	22	22.6
41	39	39	39	40.4	38.2	34.2	30.5	25.7	22.5	22.1	22.6
40.6	39.4	39.6	40.6	40.5	37.2	33	29.4	25.8	22.6	22.1	22.6
40.8	39.9	40.6	41.1	40.1	37.3	33	29.5	26.8	23.7	22.6	22.8
41.1	39.8	40.6	40.9	41.6	40	35.4	32.2	28.8	24.3	22.8	22.8
40.1	38.5	38.9	38.5	41.1	39.3	35.3	31.5	28	24.4	22.8	23
40.2	38.5	38.7	38.3	40.5	38.6	34.5	31	27.7	24.3	23	23.1
40.4	39.1	38.2	38.2	42.3	40.1	35.3	32.9	28.3	24.9	23.2	23.1
38.3	37	36.3	36	40.5	38.2	33.9	31.2	27	24.1	22.8	23
37.3	36.1	35	34.3	38.4	36.8	34	30.2	26.2	23.3	22.4	22.8
36.3	34.8	33.8	33.1	37.2	35.2	32.8	30	27.4	23	22.2	22.7
36.4	34.8	33.9	33.4	37.7	35	33.3	30.5	27.3	23	22.3	22.7
37.5	35.8	36	35.8	40	38.3	35.3	32.4	28.3	23.4	22.4	22.7
38.9	37.4	38.6	37.6	41	39	35.4	32.1	27.9	23.7	22.7	22.7
40	38.7	41.5	41.6	41	39	35.5	31.8	28.2	24.7	23	22.9
40.8	38.8	40.4	40.3	42	40.9	36.1	31.9	27.7	23.9	22.9	22.9
42.6	39.4	38.9	38.8	41.8	40.7	36	31.9	27	22.8	22.2	22.9
40.4	37.8	37.5	37.8	42.6	40.6	35.9	31.2	25.4	22	22	22.7
39.3	37.3	36.8	36.7	41.8	39.9	35.3	30.6	24.8	21.9	22	22.6
38.4	37.5	36.9	36.4	41.9	40.5	36.1	31.6	25.8	22.1	22.2	22.7
38.5	37.4	37	36.4	41.2	38.7	36.3	32.6	26.8	23.2	22.8	23.1
40.5	39.9	38.1	37.2	40.3	38	35.5	32.5	29.5	24.3	23.7	23.3
41.8	41.5	41.3	39.2	41	40.9	37.4	35.7	33.6	28.9	27.6	25.5
42.2	41.8	41.6	40.2	41.6	40.3	37.2	35.5	33.6	28.9	27.3	25.3
42.7	41.9	40.6	40	40.7	39.2	37.2	36.1	34.5	30.2	28.6	26
41.3	40.5	39	38.3	41.4	38.8	36.4	34.3	31.6	27.9	26.5	24.6
40.8	39.6	39	38.2	41.8	41.1	37.4	33.6	29.6	25.4	24.3	23.5
40.4	39.3	38.6	38.2	41.8	40.2	36.3	32.9	28.6	24.6	23.3	23.1
41.2	39.3	38.9	37.6	39.2	38.2	34.7	31.7	27.8	24.4	23.1	22.9
40.3	38.5	38	36.8	38.7	37.2	34	30.7	26.7	23	22.5	22.8
40.4	38.5	38.4	37.4	40.1	37.3	34.1	30.4	25.8	22.8	22.4	22.7
41	38.6	38.7	38	39	37.6	34.4	31.1	25.8	22.7	22.3	22.7
41.9	39.8	39.2	37.8	38.6	37.1	33.6	31	26.2	23.2	22.5	22.9
41.9	39.7	39.1	37.1	39.5	36.8	32.9	30	25.4	22.7	22.4	22.7
41.6	39.5	39	37	39.4	36.8	33	30.3	26.7	23.9	23.2	23.2
42.1	40.7	40.5	38.8	40.8	39.6	34.9	31.9	29.2	26.4	24.7	23.5
41.5	40.4	42.3	43	40.8	40.6	40.1	38.2	34.7	33.6	28.6	26
41.9	40.9	42.5	42.8	41.8	41.5	39.9	38.6	34.9	32.6	28.3	25.6
43	43.2	43.1	43.4	43.3	42	40.4	38.3	35.4	32	28.7	25.4
45	45.6	44.3	45.3	45.4	44.3	44.8	42	38.3	36.6	31.7	27.8
46.6	48.2	46.7	45.2	44.5	43.5	41.8	39.3	35.9	33.6	30.6	27.7
44	44.7	43.4	41.9	43.5	41.3	38.8	36.1	32.5	30	27.4	25.3
42.4	42	40.9	39.4	41.9	39.4	36.5	33.4	29.7	26.8	24.9	23.9
40.3	39.4	38.3	37.3	41.8	38.8	35.2	31.8	28	25.2	23.8	23.3
38.8	37.4	36.2	35.7	40.4	37.3	33.5	30.3	26.5	23.7	23	23
37.7	36	35	34.1	37.7	35.8	32.5	28.8	25.3	23	22.6	22.9
37.2	35.6	34.6	33.7	37.4	35.5	32	28.5	24.7	22.4	22.3	22.7
36.8	35.5	35.1	33.8	37.9	36.6	32.5	29	24.8	22.6	22.4	22.6
36.6	35.3	34.7	33.4	38.8	37.6	34.5	31	25.6	22.6	22.3	22.6
36.5	35.1	34.4	33	37.3	36.1	32.5	29.6	24.5	22	22.1	22.6
36.4	35.2	34.5	33.6	37.9	35.9	31.9	29.9	25	22	22.1	22.6
35.8	35.1	35.2	33.9	39.6	37.8	33.5	31.3	26.8	23.6	22.9	22.9
35.1	34.2	34.2	33.7	38.4	36.3	33.7	31.2	29.7	24.7	23.1	22.9
34.4	33.7	33.6	33.2	37.2	35	32.3	29.5	28	24	22.8	22.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
34.2	33.6	33.3	33.2	37.7	35.2	31.5	29.1	26.3	23.4	22.9	22.8
34.6	33.6	33.5	33.8	37	35.1	31.3	30	25.3	22.7	22.5	22.7
34.8	34.3	33.8	34.6	37.3	35.1	31.5	29.1	24.8	22.4	22.3	22.7
36.2	35.1	35.4	35.1	37.1	35.9	32.5	30.4	25.2	22.1	22.1	22.7
40.2	39.5	38.1	36.6	37.7	36.5	32.9	30.8	25.9	22.1	22	22.7
38	36.9	36.9	35.1	37.4	36.1	32.5	30.2	26	22.5	22.2	22.6
36.4	35.1	36	34.2	38.2	36.3	32.8	30.2	25.7	22.5	22.4	22.7
36.7	36.4	38.4	38.3	42.6	40.5	38.3	36.2	31.4	27.5	24.1	23
34.9	34.9	36.8	36.8	42.8	38.9	36.9	34.3	30.2	26.9	24.1	23.5
34.1	34.2	36.2	35.8	42.3	38.6	36.1	33.3	28.8	24.9	23	23.1
33.9	34.9	38.3	37.8	42.6	41.1	37.8	34.8	30.4	25.5	23.1	22.8
32.4	33.4	37.3	35.5	41.2	39.6	36.3	33.1	28.1	23.4	22.4	22.8
32.1	32.3	36.3	34.4	40.8	38.4	34.8	31.3	27.3	22.9	22.3	22.7

23.6	24.6	1	No	No
23.6	24.5	2.1	No	No
23.6	24.5	2	No	No
23.6	24.5	3.4	No	No
23.6	24.5	1.8	No	No
23.7	24.5	0.7	No	No
23.7	24.5	-0.1	No	No
23.7	24.5	0.4	No	No
23.6	24.5	0.3	No	No
23.6	24.5	1.7	No	No
23.6	24.5	1.9	No	No
23.6	24.5	2.4	No	No
23.7	24.5	0.7	No	No
23.6	24.6	0.1	No	No
23.6	24.5	-0.4	No	No
23.6	24.4	1.4	No	No
23.6	24.5	2.1	No	No
23.7	24.6	0.6	No	No
23.6	24.5	1.4	No	No
23.6	24.5	0.2	No	No
23.6	24.5	-0.3	No	No
23.6	24.4	-0.1	No	No
24	24.6	0	No	No
24.6	24.8	0.1	No	No
24.6	24.7	0.7	No	No
25.3	24.9	1.5	No	No
24.7	24.8	0.7	No	No
24.3	24.6	0.2	No	No
26.2	25.2	3.3	No	No
25.2	24.9	1.9	No	No
24.7	24.8	1.3	No	No
24.2	24.6	4.1	No	No
23.8	24.5	1.1	No	No
23.7	24.5	1.1	No	No
23.5	24.5	1	No	No
23.5	24.5	1.4	No	No
23.5	24.5	0.5	No	No
23.6	24.5	0.9	No	No
23.5	24.5	-0.1	No	No
23.5	24.5	2.6	No	No
23.5	24.5	1.6	No	No
23.5	24.5	0.6	No	No
23.6	24.4	3.7	No	No
23.6	24.5	0.6	No	No
23.7	24.5	0.6	No	No
23.7	24.5	0.7	No	No
23.6	24.4	2.7	No	No
23.6	24.5	-0.2	No	No
23.6	24.5	1.3	No	No
23.6	24.5	0.2	No	No
23.5	24.5	-0.4	No	No
23.5	24.5	0.2	No	No
23.6	24.5	-0.1	No	No
23.6	24.6	2.5	No	No
23.6	24.6	2.4	No	No
23.6	24.5	1.9	No	No
23.5	24.4	7.1	No	No
23.5	24.4	0.8	No	No
23.6	24.4	0.2	No	No
23.6	24.5	3.4	No	No
23.7	24.5	6.7	No	No
24.4	24.9	3.6	No	No
24.4	24.8	4.6	No	No
24.7	24.8	5	No	No
24.3	24.7	1.3	No	No
23.9	24.6	0	No	No
23.6	24.5	4	No	No
23.6	24.6	4.9	No	No
23.5	24.5	0.3	No	No
23.6	24.6	1.5	No	No
23.6	24.5	0.6	No	No
23.6	24.4	0.4	No	No
23.6	24.5	0.2	No	No
23.7	24.6	0.2	No	No
23.9	24.6	6.4	No	No
25.1	25	0.4	No	No
24.8	24.9	0.9	No	No
24.7	24.9	5.9	No	No
25.8	25.1	6.1	No	No
25.7	25.1	11.5	No	No
24.5	24.8	11.9	No	No
23.9	24.6	9.8	No	No
23.8	24.5	7.5	No	No
23.7	24.5	6.2	No	No
23.5	24.5	5.3	No	No
23.6	24.4	0.4	No	No
23.6	24.4	0.3	No	No
23.5	24.4	2.2	No	No
23.6	24.5	0.6	No	No
23.6	24.5	3.3	No	No
23.7	24.5	3.5	No	No
23.6	24.5	1	No	No
23.6	24.5	0.3	No	No

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.5	24.5	0.2	No	No	
23.5	24.5	2.1	No	No	
23.6	24.5	0.2	No	No	
23.6	24.5	0.8	No	No	
23.6	24.5	9.6	No	No	
23.6	24.4	7.5	No	No	
23.6	24.4	1.4	No	No	
23.6	24.4	3.3	No	No	
23.7	24.5	1.7	No	No	
23.6	24.4	4.9	No	No	
23.5	24.4	7.5	No	No	
23.5	24.4	2	No	No	
23.4	24.5	5.1	No	No	

211		11/19/2021	1:58:24 PM	48.3	59.7	51.3	49.8	90.6	10.6	56.0	58.6	54.6	55.7	48.2	44.2	40.7	38.8	44.4	
212		11/19/2021	1:58:25 PM	46.4	56.7	49.8	48.0	90.7	11.8	59.9	54.8	51.8	57.2	49.9	44.8	40.1	40.6	40.5	
213		11/19/2021	1:58:26 PM	52.1	70.3	51.9	47.5	90.6	6.8	59.8	55.7	55.8	57.3	49.1	44.7	41.2	43.8	47.2	
214		11/19/2021	1:58:27 PM	49.2	61.5	52.0	50.3	90.6	9.4	59.5	53.3	53.4	54.9	49.1	44.4	41.6	43.3	43.5	
215		11/19/2021	1:58:28 PM	50.7	79.2	51.6	50.1	90.6	7.9	54.6	52.2	54.9	55.8	48.7	45.7	41.3	47.4	43.8	
216		11/19/2021	1:58:29 PM	55.3	76.6	54.0	50.5	90.6	4.1	53.9	51.1	55.7	56.2	49.1	46.6	45.4	47.5	50.4	
217		11/19/2021	1:58:30 PM	48.3	62.1	54.0	51.3	90.6	10	52.6	52	56.1	57.1	47.2	43.4	42.2	38.2	44.2	
218		11/19/2021	1:58:31 PM	48.7	59.7	51.2	49.9	90.6	8.9	51.3	55	54.7	54.8	47.1	42.7	40.7	36.8	43.9	
219		11/19/2021	1:58:32 PM	50.5	63.7	50.4	49.8	90.6	8.2	57.7	57.1	52.9	54.7	47.5	44.0	40.7	37.8	46.1	
220		11/19/2021	1:58:33 PM	50.4	64.8	50.5	50.2	90.7	8.1	57.2	57.2	53.1	56.1	47.7	43.5	41	38.5	46.5	
221		11/19/2021	1:58:34 PM	50.3	63.2	50.6	49.8	90.7	8.2	61.5	54.7	55.8	56	48	43.9	40.7	37.4	46.4	
222		11/19/2021	1:58:35 PM	51.8	64.1	51.6	50.3	90.7	6.4	57.2	58.2	54.3	56.2	48.7	44.4	40	37.9	47.8	
223		11/19/2021	1:58:36 PM	52.9	64.5	52.5	51.6	90.6	8.3	62.0	56.7	54.9	57.6	49.3	44.0	40	37.1	49.4	
224		11/19/2021	1:58:37 PM	51.4	62.7	52.5	51.8	90.6	8	62.0	56.3	57.5	55.5	47.4	44.4	41.8	37.6	47.5	
225		11/19/2021	1:58:38 PM	51.9	65.4	52.4	51.6	90.6	7.8	62.0	63.4	55	57.6	48.9	45.3	41.5	39.5	48.5	
226		11/19/2021	1:58:39 PM	51.6	64.8	51.7	51.4	90.7	7.3	64.4	56.7	56.5	56.8	48.7	45.0	42.1	40.2	47.6	
227		11/19/2021	1:58:40 PM	51.7	63.7	51.9	51.6	90.6	7.7	60.0	55.2	54.6	57	49.1	45.7	42.7	40.7	47.3	
228		11/19/2021	1:58:41 PM	53.4	66.2	53.1	51.6	90.7	6.1	61.4	52.8	55	55.6	50.9	45.1	43.2	43.1	49.6	
229		11/19/2021	1:58:42 PM	54.3	67.5	53.9	53.1	90.6	5.9	63.9	54.1	56.4	57.1	50	45.7	43.6	44.3	50.7	
230		11/19/2021	1:58:43 PM	54.0	68.6	54.1	53.4	90.4	6.7	56.7	54.7	56.9	57.6	50.6	49.2	45.6	46.2	49.6	
231		11/19/2021	1:58:44 PM	55.9	69.6	55.6	54.0	90.6	4.2	55.8	55.3	58.3	57	51.2	47.7	45.6	45.9	52.4	
232		11/19/2021	1:58:45 PM	58.3	71.7	57.6	55.6	90.7	2.4	53.5	54.6	55.7	55.8	48.9	46.4	44.4	47.3	54.5	
233		11/19/2021	1:58:46 PM	61.0	72.6	60.0	57.6	90.6	2	50.2	56	55.9	56.2	52	48.2	47.7	49.4	57.3	
234		11/19/2021	1:58:47 PM	62.1	77.2	61.8	60.1	90.6	1.5	49.7	51.5	57.4	60.3	52.3	49.7	47.4	48.7	58.5	
235		11/19/2021	1:58:48 PM	61.5	73.3	61.8	61.1	90.6	1.5	56.7	56.4	54.8	58.6	50	47.9	45.7	47.1	58.2	
236		11/19/2021	1:58:49 PM	62.7	76.4	62.4	61.2	90.6	0.7	56.2	54.4	57.5	56.4	50.7	47.3	46.2	48.5	59.4	
237		11/19/2021	1:58:50 PM	63.4	76.1	63.1	62.4	90.6	0.6	51.6	55.5	57.3	57.5	52.6	49.7	45.4	47.6	59.7	
238		11/19/2021	1:58:51 PM	65.3	77.4	64.6	63.1	90.6	-0.4	49.9	53.9	57.1	56	49	45.4	43.9	45.8	61.8	
239		11/19/2021	1:58:52 PM	64.4	76.6	64.6	64.2	90.6	-0.2	51.9	52.4	57	56	50.4	45.2	44.1	45.4	60.8	
240		11/19/2021	1:58:53 PM	65.0	76.7	65.0	64.2	90.7	-0.3	52.3	53.3	55.4	56.9	48.7	46.6	45.6	46.8	61.2	
241		11/19/2021	1:58:54 PM	64.7	77.1	64.9	64.5	90.6	0.4	56.0	55	58.5	55	51.9	48.5	49.5	48.1	61	
242		11/19/2021	1:58:55 PM	64.9	76.9	65.0	64.7	90.6	1	52.0	55.8	60.2	57.7	51.6	48.8	48	49	60.7	
243		11/19/2021	1:58:56 PM	66.9	80.9	66.6	64.8	90.6	0.1	51.0	51.6	61.6	59.2	52	48.7	46.8	47.1	62.6	
244		11/19/2021	1:58:57 PM	67.6	80.9	67.5	66.4	90.7	-0.5	51.6	53.7	60.4	60.2	51.3	46.5	50.3	47.3	63.4	
245		11/19/2021	1:58:58 PM	67.4	81.0	68.3	67.1	90.6	-0.8	51.8	52.8	57.7	58.4	50	45.2	47.1	47.1	63.1	
246		11/19/2021	1:58:59 PM	68.1	82.0	68.3	67.0	90.6	-0.8	50.9	51.7	56.2	57.4	49	45.6	46.4	45.9	63.9	
247		11/19/2021	1:59:00 PM	67.0	82.0	67.8	66.6	90.6	-0.9	49.6	54.1	56.4	56.3	49.4	44.0	44.3	45.5	63.3	
248		11/19/2021	1:59:01 PM	69.2	83.2	69.0	67.5	90.7	-1.2	51.8	55.2	54.9	55.4	49.7	44.2	45.2	45.9	65.5	
249		11/19/2021	1:59:02 PM	68.0	84.0	68.5	67.0	90.6	-0.9	54.1	53.5	54.5	56.5	49.6	44.5	46	46.7	64.6	
250		11/19/2021	1:59:03 PM	69.0	84.3	69.1	67.8	90.8	-0.7	48.4	53.1	59.5	56.7	49.3	43.8	42.6	45.6	65.4	
251		11/19/2021	1:59:04 PM	69.0	86.9	69.6	68.8	90.6	-1.1	51.3	53.7	61.1	56.7	49	44.4	43.3	46.3	63.7	
252		11/19/2021	1:59:05 PM	65.1	81.4	69.1	66.7	90.6	-0.4	51.2	56.7	56.8	56.3	48.8	44.7	43	45.1	60.4	
253		11/19/2021	1:59:06 PM	63.2	77.1	66.7	64.9	90.7	0.1	54.7	53.6	56.3	56.7	49.7	46.0	43.6	45.6	58.6	
254		11/19/2021	1:59:07 PM	68.0	81.9	67.3	64.9	90.6	-0.7	60.6	55.1	55.2	57.6	50.5	44.8	43.5	45.6	63.8	
255		11/19/2021	1:59:08 PM	59.0	74.2	66.8	63.6	90.7	3.7	51.2	54.8	58.7	58.6	50	45.8	42.5	44.2	55.7	
256		11/19/2021	1:59:09 PM	58.8	73.2	63.6	61.3	90.6	4.1	56.8	58.1	58.7	57.6	49.9	45.8	43.5	45.6	55.3	
257		11/19/2021	1:59:10 PM	60.3	73.5	61.3	60.6	90.7	2.7	65.2	55.2	60.5	59.4	51.5	46.4	45.3	46	55.8	
258		11/19/2021	1:59:11 PM	60.4	76.2	61.7	60.3	90.7	2	60.9	52.9	59.2	57.2	51.9	47.4	44.8	46.4	56.7	
259		11/19/2021	1:59:12 PM	56.6	70.6	60.3	58.4	90.6	6.8	57.2	55.8	57.5	58.5	50.9	48.5	46.6	47	52.3	
260		11/19/2021	1:59:13 PM	56.9	70.5	58.4	57.4	90.6	8.7	57.9	57	61.3	62.6	50.9	47.1	45.4	46.6	52.4	
261		11/19/2021	1:59:14 PM	54.0	67.3	57.4	55.4	90.6	8.4	58.9	56.8	60.2	63.8	51.2	46.9	43.9	45.6	49.7	
262		11/19/2021	1:59:15 PM	53.4	66.7	55.4	54.2	90.6	9.6	58.0	55.7	58.6	61.1	51	46.2	44.7	46.1	49.5	
263		11/19/2021	1:59:16 PM	51.2	63.2	54.2	52.6	90.7	10.2	59.0	57.5	57.5	60.1	54.2	47.4	44.7	44.5	45.6	
264		11/19/2021	1:59:17 PM	51.3	63.2	52.6	51.7	90.7	11.3	61.7	55.5	56.3	61	50.8	48.0	46.9	44.9	45.3	
265		11/19/2021	1:59:18 PM	50.8	64.5	51.9	51.1	90.7	10	58.0	55.5	57.5	59.5	50.4	46.8	46.9	45.6	44.5	
266		11/19/2021	1:59:19 PM	50.0	62.7	51.1	50.5	90.6	9.6	60.6	56.4	58.7	57.5	49.9	45.2	44.2	44.8	44.2	
267		11/19/2021	1:59:20 PM	50.2	62.1	50.6	50.2	90.6	9.7	59.6	54.1	56.4	56.4	48.9	44.7	45	43.5	45	
268		11/19/2021	1:59:21 PM	51.1	65.7	51.2	50.1	90.6	9.6	59.6	54.3	56.9	58.7	49.6	45.8	44.2	42	46.8	
269		11/19/2021	1:59:22 PM	51.5	64.5	51.5	50.3	90.7	8.7	60.2	53.4	55.5	57.8	52.9	46.8	44.2	45.6	46.6	
270		11/19/2021	1:59:23 PM	50.4	65.4	51.6	50.6	90.6	9.6	63.8	54.6	56.8	57.8	50.8	49.2	45.4	45.2	44	
271		11/19/2021	1:59:24 PM	47.8	59.7	50.6	49.1	90.6	11.6	57.5	52.6	56.3	56.5	50.1	46.4	43.8	41.5	41.5	
272		11/19/2021	1:59:25 PM	49.7	62.7	49.6	49.0	90.6	10.4	55.3	51.2	56.2	57.5	49.1	47.6	44.8	42.2	44.5	
273		11/19/2021	1:59:26 PM	50.0	62.7	50.0	49.5	90.6	10.8	51.2	54.3	57.4	59.3	49.9	47.4	46.4	46.1	41.7	
274		11/19/2021	1:59:27 PM	48.5	59.7	49.7	48.8	90.6	11	52.9	53.7	57.2	57.6	52.2	46.7	43	42.5	42.1	
275		11/19/2021	1:59:28 PM	48.8	60.7	49.0	48.6	90.6	10.2	53.3	55.4	57	57	48.5	44.9	42.9	44.6	42	
276		11/19/2021	1:59:29 PM	49.7	62.7	49.6	48.8	90.6	9	51.2	53.8	54.5	56.4	48.5	45.1	42.9	42.7	45.4	
277		11/19/2021	1:59:30 PM	48.5	60.7	49.3	48.6	90.9	10.9	50.6	53.9	53.6	56.7	48	43.9	42.2	39.9	43.5	
278		11/19/2021	1:59:31 PM	45.5	62.1	48.6	47.0	90.6	13	49.4	51.2	56.2	57	48.8	43.4	41.1	37.8	39.1	
279		11/19/2021	1:59:32 PM	46.0	58.4	46.9	46.3	90.6	12.7	56.3	51	57.4	56.8	48.6	44.7	40.1	38.3	39.9	
280		11/19/2021	1:59:33 PM	45.7	58.4	46.4	45.7	90.6	13.2	55.1	53.9	55.9	55.7	50.6	44.4	41.6	38.5	39.4	
281		11/19/2021	1:59:34 PM	44.4	53.7	46.0	45.0	90.6	13.6	51.4	53.2	57.9	55	48.1	43.7	40.1	37.3	37.7	
282		11/19/2021	1:59:35 PM	51.3	66.7	50.3	45.0	90.7	7.1	52.0	53.7	55.5	55.4	47.6	45.7	42.9	38.2	47.5	
283		11/19/2021	1:59:36 PM	46.9	61.5	50.2	48.4	90.6	12.2	52.9	54.3	55	56.4	48.8	45.6	42.8	38.5	40.7	
284		11/19/2021	1:59:37 PM	50.5	64.8	50.1	48.0	90.6	8.4	52.6	53.3	56.5	56.1	49.6	46.5	44.2	39.1	46.1	
285		11/19/2021	1:59:38 PM	50.8	65.1	50.9	50.0	90.6	8.3	50.9	56.1	54.8	56.1	49.7	48.0	47	39.8	45.4	
286		11/19/2021	1:59:39 PM	48.0	58.4	50.3	49.0	90.6	10.1	50.8	54	55.2	55.2	49	46.2	48.2	40	39	
287		11/19/2021	1:59:40 PM	50.8	70.1	50.6	48.8	90.6	7.9	50.2	57.1	53.6	54.8	48.8	46.2	50.6	40.4	43.7	
288		11/19/2021	1:59:41 PM	52.5	66.0	51.8	50.6	90.6	7.5	52.9	54.4	55.8	55.4	50.7	45.6	52.4	41.5	46.1	
289		11/19/2021	1:59:42 PM	50.5	62.7	51.8	50.9	90.6	9.8	47.0	53.4	57.7	55.9	53.3	48.6	50.9	40.9	41.5	
290		11/19/2021	1:59:43 PM	49.0	60.7	50.9	49.7	90.6	9.7	48.6	54.9	56.8	54	50.5	48.3	49.1	41.7	38.7	
291		11/19/2021	1:59:44 PM	48.9	68.4	49.7	49.1	90.7	9.7	46.0	53.1	56.6	55.1	51.5	45.4	48.4	42.1	40.1	
292		11/19/2021	1:59:45 PM	49.9	62.1	49.9	49.3	90.7	10.4	51.4	51.1	56.3	56	51	45.9	49.1	42.2	42.4	
293		11/19/2021	1:59:46 PM	50.1	63.2	50.0	49.5	90.7	9.4	45.7	56.5	57.5	57.8	50.5	45.9	49.4	42.6	42.9	
294		11/19/2021	1:59:47 PM	52.5	64.5	51.7	49.9	90.7	8.5	51.9	53.3	58.1	57.5	52.1	47.3	53.1	45	42.2	
295		11/19/2021	1:59:48 PM	52.3	65.4	52.3	51.5	90.7	9.9	49.8	53.8	56.5	58.9	55.4	49.2	51.1	44	45.1	

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
296		11/19/2021	1:59:49 PM	53.3	65.4	52.9	52.2	90.6	10.3	53.3	53.6	59.1	59	56.8	51.9	52.4	45.8	43.3	
297		11/19/2021	1:59:50 PM	53.8	66.5	53.5	52.9	90.7	11	50.8	51.6	59	61	58.1	51.9	52.4	46.3	45.9	
298		11/19/2021	1:59:51 PM	55.7	71.0	55.2	53.5	90.6	9.6	50.5	52.5	58	63.5	58	51.5	55.1	48.6	48.2	
299		11/19/2021	1:59:52 PM	59.5	72.1	58.5	55.2	90.6	8.9	50.3	54.8	58.4	64.3	60.8	53.7	58.6	53.6	51.4	
300		11/19/2021	1:59:53 PM	60.0	72.4	59.7	58.5	90.7	9.2	50.7	55.1	63.1	66.2	64.5	56.2	57.6	56	50.8	
301		11/19/2021	1:59:54 PM	62.5	76.1	61.8	59.7	90.6	9.7	51.7	58.3	63	68.9	65.4	60.6	59.4	58.6	54.3	
302		11/19/2021	1:59:55 PM	64.0	75.8	63.4	61.8	90.6	6.8	54.2	61.5	68.7	65.3	60.8	58.1	62.8	60.8	54.3	
303		11/19/2021	1:59:56 PM	59.4	71.9	63.2	61.0	90.7	6.2	54.0	63.8	70	61.5	55.8	52.7	58.4	55.7	49.8	
304		11/19/2021	1:59:57 PM	54.6	66.0	61.0	58.2	90.6	7.1	62.2	57.5	61.8	59	54.1	50.6	53.1	49.9	47	
305		11/19/2021	1:59:58 PM	53.6	66.7	58.1	55.8	90.6	8.4	55.5	54.1	55.9	59.1	54.9	49.0	50	48.5	47	
306		11/19/2021	1:59:59 PM	52.2	67.8	56.0	53.6	90.7	9	53.0	54.2	58.4	57.8	54	47.9	48.1	49.4	41.9	
307		11/19/2021	2:00:00 PM	48.6	60.7	53.6	51.2	90.6	10.9	48.7	54	56.1	56.3	53.2	46.6	45	41.1	42.3	
308		11/19/2021	2:00:01 PM	48.9	60.7	51.2	49.9	90.6	10.6	48.9	51.6	55.8	55.4	53.6	45.1	45	39.9	43.5	
309		11/19/2021	2:00:02 PM	48.9	61.5	49.9	49.1	90.7	12.7	51.0	54.1	56.1	57.9	53.9	45.9	44.5	40.6	42.7	
310		11/19/2021	2:00:03 PM	49.9	61.5	49.8	49.2	90.6	12.9	50.1	54.8	59.8	60	58.4	47.9	44.3	42	44	
311		11/19/2021	2:00:04 PM	48.8	60.7	49.9	49.1	90.7	15.1	51.2	53.1	55.1	61.8	58.8	49.6	45.4	42.1	39.9	
312		11/19/2021	2:00:05 PM	50.2	64.1	50.0	49.1	90.4	13.2	48.7	53.3	59	60.5	57.1	47.4	46.8	42.7	43.6	
313		11/19/2021	2:00:06 PM	48.8	59.7	49.9	49.3	90.6	12.7	49.2	53.5	60.2	59.2	56.5	46.6	45.6	43.3	39.9	
314		11/19/2021	2:00:07 PM	50.4	64.1	50.0	49.2	90.7	11.7	51.6	55	58.3	58.3	56.2	47.5	47.7	44.9	42.6	
315		11/19/2021	2:00:08 PM	52.2	64.5	51.6	49.9	90.7	9.7	51.2	54.4	59.3	57.6	55.5	47.8	47.7	47.5	45.4	
316		11/19/2021	2:00:09 PM	51.5	63.7	51.9	51.3	90.7	11	54.0	54.8	57.5	59.1	55.6	48.4	47.2	47.5	44.3	

40.7	28.3	28.3	58.1	57.9	56.3	56.4	50.1	44.5	41.5	42.6	46.1	45.4
36.5	28.3	28.5	60	57.7	55.1	57.3	49.6	44.7	40.9	40.7	45.3	43.1
46.3	36.8	28.5	60.4	56.5	55	57.2	49.7	44.8	41.2	43.3	47	46
42.2	31.8	28.8	60.3	55.8	55	57.1	49.8	44.6	41.5	43.7	47.1	46.1
42	37.4	30.1	58.9	54.4	55	56.7	49.3	45.4	41.6	46.7	45.4	44.6
49.4	40.8	29.1	56.8	53.1	55.6	56.2	49.3	46.3	44.1	47.3	49	47.9
40.9	32.1	29.1	55.8	52.6	55.9	57.4	48.9	46	44.1	46.7	49.1	47.9
42.9	31.8	28.5	53.9	54.3	56.5	56.6	48	44.5	42.9	43.3	46.5	44.8
45.1	33.3	28.6	57	57.2	54.9	55.8	47.7	44	41.7	40.4	46	44.9
44.1	31.8	28.4	57.8	57.6	53.8	56.5	48.1	44	41.1	39	46.3	44.9
44.5	32.3	28.3	60.4	57.7	55.1	56.8	48.1	44	41.2	38.6	46.7	44.8
46.3	33.4	28.4	60	57.9	54.9	56.4	48.6	44.6	40.9	38.2	47.6	46.1
47.2	33.5	28.4	61.5	58.5	55.3	57.4	49.2	44.4	40.3	38	48.8	46.8
45.3	32.6	28.4	62.1	56.8	57.7	57.4	49.3	44.3	41.5	37.6	48.9	46.8
44.9	31.7	28.4	62.5	62.4	56.4	57.5	48.7	45.1	41.7	38.9	48.9	46.2
45.5	32.3	28.4	64.2	60.8	56.5	57.2	48.9	45.3	42	39.9	48.1	45.6
45.6	34.2	28.8	63.3	58.4	56.5	57.3	49.1	45.6	42.5	40.6	47.9	45.9
46.7	33.6	28.7	61.9	56.6	55.5	57.2	50.6	45.7	43	42.3	49.2	46.7
47.3	32.5	28.5	64.5	54.6	56.2	57.1	50.9	45.6	43.5	43.8	50.1	47.4
45.7	42.8	31.9	62.4	55	57.1	57.4	50.6	48.7	45.1	45.6	50.1	46.9
48.5	42.2	30.4	59.9	55.9	57.9	57.6	51.5	48.6	45.9	45.8	52	48.1
52.4	42.4	28.8	57.3	55.5	57.6	57.2	51	48	45.2	46.9	53.9	51.4
55	39.2	28.5	55.6	56.1	56.8	56.9	51.5	48	47.1	48.8	56.4	54.1
56.6	41.3	28.9	52.9	55.5	57.1	59.3	52.5	49.3	47.5	49	58.1	56.3
55.6	41.6	28.4	55.7	55.6	57.1	59.3	51.9	49.2	47.2	48.7	58.6	55.8
57.3	44	28.4	55.9	55.6	57.1	59	51.2	48.4	46.4	48.7	59	57
58.4	44.9	28.4	55.7	55.4	57.8	57.8	52.1	49.5	46.7	48.5	59.5	58
60.3	47.1	28.3	53.5	55.7	57.4	57.7	51.7	48.8	45.5	47.5	61.1	59.6
59.5	46.5	28.5	52.5	54.6	57.5	56.7	50.9	47	44.6	46.4	61.1	59.6
60.3	46.3	28.4	53.5	54.1	56.9	57.2	50.3	46.6	45.3	46.6	61.3	60.3
59.7	47.3	28.4	54.9	55.1	58	56.6	51.4	48	48.3	47.6	61.3	60.1
60.4	48	28.5	55	55.8	60	57.4	51.7	48.7	48.2	48.5	61.2	60.3
62.7	50.4	28.9	52.8	55.6	61.4	59	52.3	49.4	48.1	48.6	62.5	62.3
63.4	52	29.4	52.2	54.2	61.3	60.1	51.8	48.5	49.8	47.7	63.3	63.2
63.4	51.9	29.3	52.5	53.9	60.4	59.3	51.3	47.3	49.3	47.9	63.9	64.3
63.8	52.2	29.6	51.8	52.9	59.1	58.8	50.5	46.2	48.3	47.3	64.2	64.1
62.4	50.1	29	51.5	53.9	57.4	58.2	49.8	45.9	46.8	46.2	63.8	63.4
64.5	54	30.3	51.5	55.1	57	57.4	49.8	44.8	45.7	46.4	65.2	64.5
62.8	52.9	30.5	54	54.7	56.4	56.6	49.7	44.9	45.9	46.8	65	63.8
63.8	55.5	32	53.1	54.4	58.5	57.1	49.7	44.4	45.6	46.1	65.6	63.8
65.6	57.2	33.5	51.7	54	60.6	57.2	49.7	44.5	44	46.6	65.9	65.4
61.3	51.7	31.5	51.6	56.3	60.2	56.9	49.2	44.6	43.7	46.3	64.4	65.2
59.3	47.3	30.4	54	56	58.6	57.2	49.6	45.7	43.6	45.8	62.2	62.7
63.8	53.6	31.9	58.9	55.5	57.5	57.4	50.4	45.6	43.8	46	63.1	63.2
53.1	37.8	28.6	58.8	55.3	58.2	58.2	50.3	45.6	43.4	45.5	62.5	62.6
53.2	39.6	28.5	56.9	57.7	59	58.4	50.2	45.9	43.4	45.4	59.6	59
55.9	43.7	28.7	63.9	56.8	60.1	59.2	51.4	46.3	44.7	45.9	57.5	56.5
55.3	41.8	28.5	63.8	56.3	60.6	58.8	51.9	47.3	44.9	46.1	57.7	57
50.8	37.7	28.3	61.7	55.8	59.4	58.4	51.8	48.3	46.1	46.8	56.3	55.4
51.6	38.8	28.4	59.8	56.9	60.5	61.8	51.4	48.3	46.1	47	54.3	53.1
47.3	33.2	28.4	59	57.4	61	63.8	51.4	47.6	45.7	46.5	53	52.1
44.8	31.4	28.5	59	56.7	60.1	62.4	51.2	47.1	44.8	46.2	51.1	49.4
43.1	29.3	28.4	59.1	57.7	59.5	62.2	53.2	47.4	44.8	46	50	47.1
42	31.8	28.4	61.3	57.4	58.1	61	53.2	47.8	46.4	45.1	47.9	45.2
41	30.5	28.4	61.2	56.1	57.7	61.1	51.8	47.8	47	45.5	46.5	43.5
40.7	30.6	28.5	60.4	56.4	58.9	59.8	50.9	47	46.6	45.6	45.2	41.9
40.7	28.8	28.4	61	56.1	58.1	58.6	50.4	45.9	45.3	44.9	45.1	41.5
43.2	30.7	28.3	60.8	55.3	57.4	58.5	49.7	45.8	45.1	44.1	46.5	43
41.8	29.7	28.4	60.6	54.6	57.2	58.9	52.1	46.6	44.5	44.8	46.9	42.6
39	27.8	28.4	63.5	54.6	56.9	58.3	52.3	48.5	45.2	45.4	46.8	42.3
37	28	28.4	61.7	54.4	56.6	57.8	51.4	48.4	45.3	44.8	45	40.3
40.9	29.4	28.5	59.5	53.5	56.8	58	50.3	47.7	44.9	43.1	44.4	40.5
37.4	30.3	28.5	57.1	53.9	57.3	58.8	50	47.8	46.2	45.2	44	40.1
39.8	32.2	28.6	54.5	54.2	57.8	58.7	51.5	47.9	45.5	44.9	42.9	39.8
37.4	28.8	28.5	53.9	55	57.5	57.8	51.3	46.7	44	44.8	42.3	39
40.6	31.3	28.5	53.5	54.6	57.2	57.5	49.8	46	43.9	44	44.4	39.8
41.1	30.7	28.5	52.3	55.1	55.7	57.4	49.1	45.1	43.1	43.2	44.4	41
36.5	32.5	28.4	50.8	53.9	55.8	58.3	48.8	44.5	42.5	41.3	43.5	40.4
37.8	29.7	28.5	55.3	52.5	57.2	57.1	48.9	44.5	41.7	39.4	41.3	38.8
34.6	30.1	28.5	56.3	53.4	56.8	56.9	50.7	44.5	41.5	39	40.5	37.9
35.1	28.9	28.5	54.6	54	57.5	56.2	50.1	44.4	41.3	38.7	40	36.2
44.9	33.3	28.8	53.1	54.1	57.4	55.8	48.9	45.5	42.5	38.1	46.3	43.7
38.7	31.6	28.8	53.1	54.5	56.5	56.2	48.7	45.7	42.8	38.5	46.1	43.7
42.9	31.5	28.8	54.2	54	56.2	57	49.6	46.4	43.9	38.9	45.7	42.6
43.3	33.2	29.6	52.1	55.8	56.2	56.7	50	47.4	46.4	39.6	46.5	44.2
35.9	31.4	28.6	52.2	54.7	55.8	56.3	49.6	47.5	47.7	40	45.1	42.4
41.3	34.8	29.6	50.6	56.2	55.7	55.5	49.3	46.7	50	40.3	43.9	41.4
41.6	29.2	28.5	52.7	56	55.7	55.8	50.3	46.3	51.8	41.2	45.8	41.8
37.3	27.9	28.5	52	55.1	57.1	56.1	52.6	48.1	51.9	41.2	45	41.5
32	27.7	28.5	49.8	55.1	57.7	56.2	52.5	48.7	51.1	41.7	43	39.2
35.3	29.4	28.8	49.2	55.3	57	55.6	51.6	48.1	49.8	42	40.8	36.2
38.4	28.3	28.4	50.4	53.5	56.8	56.1	51.8	46.7	49.8	42.4	41.8	37.7
38.4	29	28.4	50.5	55.6	57.4	57.2	51	46.2	49.4	42.5	42.4	38.8
38.2	29.7	28.4	51	55.4	58.1	57.5	51.8	47.1	52.2	44.4	42.6	38.2
41.5	30.3	28.7	50.8	54.7	58	58.6	54.6	48.5	52	44.5	44.7	40.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
40.1	28.5	28.4	52.4	54.1	58.8	59.1	56.6	51	52.2	45.4	44.6	41.4
41.3	31.5	29.1	52.6	54	59.2	60.5	58.1	51.9	52.6	46	45.5	41.2
39.1	29.4	28.5	51.7	52.7	59.3	62.7	58.3	51.7	54.4	48.1	47.5	41.4
44.5	33.1	28.7	51.2	54.3	58.8	63.9	60.5	53.1	57.5	52.5	50.7	43.8
43.1	35.7	29.2	51.4	55.3	62.2	65.5	63.5	55.5	57.7	55.2	51	43.7
47.5	38.1	30.4	51.6	57.6	63	68.1	65.1	59.5	58.9	57.9	53.4	46.7
47.8	37.3	30	53.6	60.6	67.3	68	65.1	59.6	61.8	60	54.2	47.7
41.9	32.7	28.6	53.9	63.5	69.3	66.4	62.7	58.5	61.6	59.8	53.9	47.1
38.8	31.3	28.6	61.1	62.2	68.9	63.8	59.6	55.7	59.8	57.5	51.6	44.4
43.5	31.7	28.5	60.7	59.8	65.6	61.4	57	53.2	56.7	54.3	49.4	43.5
37.1	29.9	28.5	58.4	57.2	62.1	60.2	55.8	50.9	53.7	52.3	47.9	42.7
38.9	29.1	28.4	55.6	55.5	59.9	59.2	54.8	49.1	50.9	49.8	45.2	40.1
39.4	29.4	28.4	52.5	54.7	57.9	57.7	53.8	47.8	48.2	46.5	44.1	39.8
40.7	29.6	28.4	52.1	54.2	56.9	57.6	54.1	46.4	46.6	43.6	43.4	40.6
38.5	29.5	28.5	50.8	55	59	59.2	57.9	47.5	45.1	42.1	44.3	40.5
35.2	28.5	28.4	50.9	54.4	58.6	61.3	58.9	49.5	45.2	42.2	43.8	39.4
38.5	29.2	28.4	51.2	54.7	58.4	61.5	58.2	48.4	46.4	42.5	43.3	38.4
34.8	27.7	28.4	50.1	54	59.8	60.9	57.7	47.8	46.2	43.2	43.2	38.3
38.3	28.5	28.3	51	54.7	59.7	59.7	57	47.5	47.1	44.3	42.5	38.2
40.5	30.6	28.4	51.4	55	59.4	59.1	56.7	47.8	47.8	46.7	44.6	39.9
38.1	31.1	28.5	53	54.9	59.5	59.2	56	48.4	48.1	47.4	45.1	39.8

36.2	28.6	56.9	55.1	55.1	55.2	48.8	44	40.9	40.6	45	43.2	33
33	28.5	56.5	56.1	53.3	55.9	48.7	44.1	40.4	40.4	43	40.4	30.7
36.5	28.5	58.7	55.8	53.3	55.7	49.1	44.5	40.4	40.6	42	39.3	29.7
36.4	28.8	58.9	54.4	53.7	55.8	49.1	44.2	41.1	43.1	45	44	33.8
38.1	30.1	56.8	53.1	53.7	55.4	48.7	44.3	41.1	43	44.1	42.5	34.2
39.8	29.6	55.3	51.8	54.5	55.6	48.5	45.1	41.2	46	44.1	42.6	35.8
39.2	29.4	53.4	51.5	55.2	55.4	48	44.5	42.9	43.3	46.5	44.8	36
36	29.1	51.9	51.7	54.8	55.4	47.1	43.4	41.6	40.4	45.1	43.8	33.9
33.9	28.7	51.9	53.2	53.6	54.6	47.1	43.2	41	38.8	45.1	43.7	32.9
33.9	28.7	56.8	56.2	53.2	55.3	46.9	43.6	40.9	38.6	46	44.3	32.6
32.8	28.5	56.6	55.9	53.4	55.5	47.4	43.3	40.7	37.4	45.6	43.7	32
33.2	28.4	58.3	55.6	54.1	55.1	48	44	40.1	37.8	46.2	44.3	32.3
33.6	28.4	58.4	56.8	54.4	55.4	48	43.9	40	37.4	47.6	46.1	33
33.6	28.4	60.2	55.8	54.5	56.2	47.9	43.9	40	37.3	48	45.9	32.9
33.1	28.4	59.5	57.2	55.5	56.3	47.8	44.2	41.3	37.5	48	45	32
32.3	28.5	62	58.5	55.1	56.7	48.4	44.6	41.4	38.9	47.7	44.7	31.7
33.7	28.7	61.6	56.6	55.1	56	48.5	44.5	41.7	39.7	47.3	45.4	32.4
34.1	28.7	61	54.7	54.9	56.1	48.9	45.1	42.3	40.6	47.4	45.1	33.1
33.6	28.7	61.5	54	54.8	56.1	50.1	45.1	43	42.4	49.2	46.7	32.9
41.6	31.3	59.8	53.7	56.3	56.4	49.9	45.2	43.4	43.8	49.2	45.9	32.9
42.9	31.2	57.4	54.9	56.4	56.5	50.4	47.9	45.1	45.6	49.8	46.2	39.5
43.1	30.4	55.5	54.4	56.3	56.1	49.5	46.9	44.7	45.8	52	48.1	41.4
41.5	29.5	53	54.2	55.8	55.9	49.8	46.8	44.7	46.6	53.9	51.5	40.1
42	29.1	50.7	53.3	55.6	56.3	51.5	48	47.1	48.5	56.4	54.1	40.4
41.3	28.8	51.6	53.3	55.5	58.2	50.8	48.4	46.2	47.7	57.5	55	40.3
43.4	28.6	54.7	54.4	55.9	57.5	50.4	47.2	45.8	47.8	57.8	55.2	41.3
44.5	28.5	53.5	54.4	56.9	57	50.7	48.1	45.5	47.6	58.9	56.9	43.4
46.3	28.4	51.7	53.8	56.8	56.7	50.3	47	44.6	46.5	59.5	58	44.6
46.7	28.4	50.1	53.1	56.7	55.9	50.1	46	44.1	45.8	60.6	59.2	45.8
46.6	28.4	52	53.1	55.9	56	49.3	45.8	44.2	45.8	60.4	59.4	46
47.1	28.4	52	53	55.9	55.6	49.3	46.5	45.3	46.5	60.8	59.6	46
47.9	28.5	52.9	53	57.5	55.5	50.7	47.7	47.9	47.5	60.8	59.7	46.8
50.2	28.8	51.6	53.6	60	57.1	51.5	48.4	47.3	47.6	60.6	60.2	47.3
51.6	29.3	51.6	53.2	60.5	58.8	51.4	47.3	47.4	47.3	62.1	62.1	50.1
52.7	29.6	50.6	52.9	59	58.8	50.5	46.2	48	47.1	63	62.9	51.3
52.7	29.7	50.7	51.9	57.4	57.7	49.7	45.7	46.8	46.2	62.8	62.8	51.2
51.5	29.3	50.3	52.1	56.3	56.9	49.4	44.7	45.5	45.4	62.7	62	49.8
53.5	30.1	50.1	53.1	55.2	55.8	49.2	44.3	45.1	45.7	63.4	63	51.2
53.2	30.4	51.6	53.7	54.7	55.7	49.2	44.4	45.3	45.7	63	62.2	51.5
55.1	31.6	50.9	53.4	54.5	55.5	49.3	43.9	44	45.2	64	62.7	52.2
57.2	33.3	50	53.1	58.5	56.2	49.1	43.7	43.4	46	64.3	63.8	54.8
56.8	33.2	50.6	53.2	58.2	56.1	48.7	44	43.2	45.5	62.2	62.7	53.8
53.7	31.8	51.7	54.7	57.4	56.2	48.8	44.6	43.1	45.3	60.3	60.9	51
53.5	31.9	53.6	54.3	56	56.1	49.6	45	43.4	45.5	60.3	60.9	50.9
52.2	31.4	55.5	53.8	55.7	57.5	49.8	45	42.7	44.7	59.6	59.1	48.3
48.3	29.9	54.7	55.4	57.7	57.7	49.5	45.2	42.6	44.7	57.5	56.5	45.1
45.1	29	57	55.4	58.3	57.5	49.9	45.6	43.4	45.4	56.6	55.8	44
44.6	28.8	61.7	54.4	59.2	57.5	50.8	46.1	44.6	45.7	56.3	55.4	42.7
42.7	28.6	59.3	54.2	58	57.3	51.1	46.9	44.7	46.1	54.3	53.1	40.3
40.5	28.5	57.8	54.4	58.5	58.5	51	47.3	45.5	46.5	53.1	52	39.1
39.1	28.5	57.3	56.7	60.1	62	51	47	44.5	45.9	51.2	49.4	36.2
36.2	28.5	58	55.8	58.8	61.4	50.8	46.3	44.3	45.8	50.1	47.1	33.8
33.7	28.5	58.1	56.1	58.1	60.5	51.1	46.6	44.6	45.1	47.9	45.2	31.6
32.6	28.4	58.5	55.8	56.8	60.3	51.8	47.1	44.5	44.9	46.3	43.2	31.4
31.7	28.4	59.1	55.3	56.8	59.9	50.9	47	46.3	44.8	45.2	41.7	30.6
31.2	28.5	59	55.3	56.8	58.6	50.2	46	45.2	44.9	44.2	41.1	29.9
30.7	28.5	59.5	55.1	57.1	57.3	49.3	45.2	45	44.1	44.7	40.7	29.6
30.8	28.4	58.9	54.5	56.3	57.4	49.2	45	44.5	42.9	44.7	40.7	29.3
30.2	28.4	59.2	53.7	56.2	57.7	49.5	45.5	44.1	42.7	45	41	29.5
29.9	28.4	59.8	53.7	56	57.3	51.1	46.5	44.4	44.8	45	40.3	28.7
28.7	28.4	59.6	53.3	56.1	56.4	50.3	46.9	44.3	43.1	43.1	38.3	28.1
29.1	28.5	57.1	52	55.8	57	49.5	46.3	44.1	42.6	43	38.9	28.4
30	28.5	54.3	52.4	56.3	57.2	49.3	47.3	44.7	42.6	42.7	38.6	28.8
32	28.6	53.3	52.9	56.1	57.9	49.8	46.7	44	43.4	42.2	38.8	30.5
31.1	28.5	52.4	53.7	56.3	57	49.7	45.7	43.1	43.3	41.6	37.7	29.8
31.5	28.5	51.9	53.1	55.6	56.2	48.9	45.1	42.9	43.2	42.4	38.4	29.4
31.6	28.6	50.8	53.6	54.4	55.6	48.4	44.4	42.4	41.4	43.6	39.8	30.4
32.7	28.5	49.9	52.4	54.4	56.9	48.1	43.8	41.7	39.4	41.3	38.4	29.4
32.2	28.5	50.2	51.1	55.8	56.5	48.4	43.7	40.8	38.7	40.6	37.9	30.7
31.2	28.5	54.6	51.4	55.9	56	48.2	44	40.8	38	39.8	36.2	30.1
30.2	28.5	52.7	53.1	56.4	55.4	48.9	44	40.4	37.8	38.6	35.4	29.2
32.3	28.7	52.4	53.1	56.4	55.2	48.2	43.9	40.4	37.8	38.6	35.6	29.7
32.5	28.8	52.2	53.2	55.5	55.2	48.1	45.3	42.5	38.1	43.5	41.2	31.8
31.9	28.9	52.1	53.2	55.6	55.9	48.1	45.4	42.4	38.1	42.8	40.5	31.4
33	29.4	51.2	53.2	55.3	55.8	49.2	46.1	44	38.8	45.2	42.5	31.6
32.7	29.3	50.6	54.2	54.5	55.2	49.1	46.6	46.4	39.6	42.4	39.6	31.9
34.4	29.5	50	54.1	54.5	54.6	48.8	46.2	47.6	39.6	41.5	38.7	31.7
34.2	29.4	49.8	55	54.1	54.1	49.1	45.7	49.9	40.1	43.9	41.3	31.8
31.7	28.9	49.6	53.8	55.4	54.9	50.1	45.7	51.1	40.9	43.1	39.2	29.7
29.7	28.6	48.6	53.8	56.5	54.7	51.4	47.8	49.8	41	40.8	36.2	28.5
29.3	28.8	47.2	53.2	56.3	54.4	51.2	46.6	48.9	41.1	39.7	35.5	28.5
29.2	28.7	47.5	52	55.9	54.7	51	46.1	48.9	42	40.5	35.5	28.6
29.5	28.5	48	52.3	56.7	55.3	50.4	45.8	48.6	41.9	41.7	37.6	28.6
29.4	28.4	48.2	54.2	56.7	56.4	50.8	45.8	49.2	42.4	41.8	37.4	28.5
30.3	28.6	49.9	53.3	56.7	56.8	51.8	47	51.4	44.1	41.9	37.9	29.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
29.9	28.6	49.8	53.1	57	58	54.4	48.4	51.4	44	43.6	40	28.9
31.2	29.1	51.3	52.6	57.9	59.1	56	50.7	52.1	45.3	43.2	39.1	28.8
31	29	50.6	51.6	58.3	60.5	57.7	50.7	52.1	45.9	45.4	39.9	30.1
32.4	28.8	50.2	52.4	58	62.3	57.8	51.7	54.4	48.2	47.6	39.5	30.1
35.1	29.2	50.2	54.3	58.4	64	60.5	53.2	57.3	52.5	50.3	43.1	32.4
37.3	30.1	49.9	54.6	61.8	65.1	63.1	55.5	57.7	55.3	51	43.6	35.1
37.7	30.4	50.9	57.6	62.6	66.5	62.7	58.5	58.9	58.1	53.4	46.8	37
37	29.8	52.4	60.8	67.1	63.8	59.7	55.7	59.8	57.5	51.6	44.4	34.7
34.7	29.1	53.8	59.9	65.7	61.4	57.1	53.2	56.8	54.3	49.4	41.8	32.9
33	28.8	58.4	57.2	62.1	60.2	55.9	50.9	53.7	51.6	47.9	41.7	32.2
32.1	28.6	55.6	55.5	60	58.9	54.8	49.1	50.9	49.9	45.2	40.1	30.8
30.9	28.5	52.6	54.6	57.9	57.4	53.8	47.8	48.2	46.5	43.6	39.1	29.7
29.9	28.5	50.3	53	56.7	56	53.2	46.3	46.5	43.6	43.3	39.3	29.5
29.7	28.4	50.5	52.6	56.2	55.9	53.6	45.8	45.2	42	42.4	38.7	29.2
29.7	28.5	50	54.1	56.3	57.3	53.7	46.1	44.6	41.8	43	39.4	29.5
29.6	28.4	50.1	53.4	56.6	59	57.9	47.6	44.7	42	41.7	37.3	28.9
29.3	28.4	49.2	53.1	56.9	60.7	57.5	47.8	45.2	42.1	41.1	37	28.8
29.1	28.4	48.3	52.5	58.2	59.8	57	47	45.8	42.3	41.4	36.3	28.3
28.6	28.4	48	53.7	58.8	58.6	56.5	46.9	45.9	43.2	41.1	36	28.2
30.3	28.4	50.6	54.1	58.5	58.1	55.9	47	46.8	44.3	41.9	37.1	28.3
31.1	28.5	51.2	54.3	58.1	57.9	55.6	47.8	47.2	46.7	44.2	38.8	30.1

28.4	54.1	54.4	52.5	52.1	51.7	47.9	51	50.3	51.8	54.1	50	48.2	46.6	43.5
28.4	57.6	54.3	51.8	54.2	49.5	47.6	48.7	49.4	48.9	56.7	50.1	47.2	46.6	43.3
28.4	52.1	50.2	53.8	57	49.6	50.1	51.1	49.7	50.1	54.9	50.8	44.7	44.1	44.3
28.5	50.8	55.5	54.3	51.6	51.1	46.7	50.4	47.7	50.7	52.7	48.2	48.9	45.8	42.2
28.8	56.5	54.7	50	51	49.3	47	50.9	49.6	50.9	55	48.3	48	45.4	42.7
29.2	57.2	53.1	46.1	47.5	48.9	46.1	47.5	50.4	52.3	55	48.1	46.6	46.5	42.4
29.1	56.8	48.8	50.9	47.1	46.4	46	53	50.6	51.7	55.4	46.9	48.7	43.5	42.5
28.7	49.3	49.4	47.5	47.1	49.2	50.2	50	48.4	50.9	51.5	47.4	45.6	43	42.6
28.5	51.4	45.1	47	48.4	45.9	50.5	50.7	48.6	48.2	52.4	49.2	46.8	43.5	42.5
28.5	46.6	46.1	49.2	48.4	48	47	48	49.1	49.2	54.4	49.8	48.4	44.4	42.9
28.4	48.8	50.8	55.1	56.2	52.2	50.6	51.1	47.1	50.7	55.4	49.1	46.6	44.5	43.1
28.3	51.7	56	57.2	53.5	50.6	50.2	51.4	47.3	50.5	54.2	49.5	45.7	45.9	43.2
28.4	50.9	55.8	52.1	50.2	53.8	48.9	48.7	48.8	51.8	53.8	50.7	45.2	46.6	43
28.3	53.5	56.4	59.4	57.3	50.4	46	48.2	54.1	53.9	55.2	51.2	48.4	45.7	42.4
28.4	53.5	60	56.4	53.1	50.1	52.9	48.8	50.6	50.6	55.9	48.4	48	44.6	42.9
28.3	54.2	53.1	60.3	62	56.9	50.8	48.8	48.1	54.4	54.9	50.8	50.2	44.3	42.9
28.4	54.4	55.2	58.1	54.5	53.6	48.9	50.2	51.3	51.9	53.6	49.6	50.1	45.9	44.7
28.6	56	61.4	53.3	51.4	51.2	48.2	47	49.6	51.6	52.7	52.1	49.2	46.5	43.2
28.6	54.5	53.5	57.6	42.1	50.8	49.9	46.1	47.4	54.7	54.2	51.4	49.1	46.9	43.9
28.6	57.5	53	52.6	46.9	46.6	47.4	46.6	50.5	55.7	54.2	50.8	51	47.3	43
30.3	58.2	61.5	50	50.2	50.1	49.7	45.6	50.4	56.2	51.1	52	50.3	47.8	45.3
29.5	59.8	52.4	50.6	52.2	51.8	47.5	51.8	51.8	51	52.4	51.2	48.4	43.6	44.9
28.9	53.1	49.4	46.4	52.1	48.3	51.8	49.7	51.5	51.9	54.7	51.3	48	48.8	44.9
28.8	52.2	48.3	46.7	49.4	51.4	49.3	50	51.6	53.6	57	53.6	52.4	49.5	46.5
28.5	45	51	48.8	49.5	50.1	49	49.2	50.2	53	53.9	53.6	51.2	46.5	44.9
28.5	38	38.3	52.5	49.5	51.9	50.7	49.5	50.6	51.4	56.3	50.1	49.4	46.9	45.3
28.4	47.4	51.4	50.1	49	50.7	50.5	53.5	53.2	49.8	53.6	51.9	52.4	48.7	46.4
28.3	53.1	47.2	45.1	48	50.6	52	54.4	52.1	52.7	53.5	51.2	50.4	46	43.7
28.3	51.7	46.1	42.1	48.8	49.2	49.2	52.8	51.5	52.4	52.1	49.7	49.2	47.5	43.8
28.4	48.5	45.7	47.9	46	48.7	48	51.2	51.1	51.2	54.9	50.1	49.6	45.2	42.5
28.4	43.5	47.6	45.9	49.8	48.4	50.7	51.5	52.2	54.3	51.5	50.3	50.5	47.2	45.8
28.4	48.5	47.1	47.6	50.2	50.5	49.6	51.2	53.5	57.9	54.6	49.9	50	48.6	45.7
28.4	50.6	46.3	41.9	46	48.6	47	52.4	52.4	61	54.8	52.7	50	49.3	44.8
28.8	53.5	47.3	50.6	52.5	49.3	47.7	50.6	57.8	55.6	60.7	48.8	50.1	49.1	45.5
29.2	50.2	42.3	46.2	47.6	50.4	48.4	50.5	55	53.6	57.1	51.5	50.2	46.5	44.6
29.2	45.5	42.8	47.6	46.7	48.7	46.7	52.2	51.3	51	54.5	51.6	49.8	44.9	44
29.1	47	46.6	49.4	47.2	46.4	46.3	48.4	51.7	51.2	54.7	51.6	50.6	47	46
29.2	47.8	40.3	46.8	49.5	50	47.7	49.1	51.4	50.2	52.6	50.2	49.5	48.3	43.5
29.6	43.9	46.5	42.9	51.1	47.9	45.7	49.7	51.1	51.9	53.5	50.2	47.5	46.4	44.4
30.1	45	46	46.4	53	47.6	47.6	49.6	54.5	52.2	54.4	49.7	51.1	46.5	44.4
31.7	48.1	47.4	41.5	51.5	49.1	43.1	50.2	60.3	51.8	52.7	52.8	50.1	45.3	44.8
31.9	51.1	47.7	47.2	50	50.5	47.7	49.1	55	51.3	53	52.4	50.9	43.6	43.4
31	44.6	45.6	47.6	49	49.9	48.6	52.9	51.4	52.7	54.8	49.4	50.2	45.6	45.6
31	42.4	48.1	47.2	54.5	49.5	47.2	51.7	49	52.2	54.7	49.6	51.4	48.8	45.6
29.9	47.5	51.6	49.2	50.5	50.4	46.8	51.1	52	54.3	53.7	54.1	52.6	46.4	46.3
29	53.8	51.1	45.9	51.8	48.4	50.7	52.3	54.8	55.9	55.2	51	51.1	44.8	45.9
28.8	57.6	52.4	52.2	54	55.5	49.3	53	56.2	57.3	54.2	56.3	51.5	47.9	46.6
28.6	51	49	58.5	47.5	52	47.3	51.8	56.3	56.4	54.8	51.2	51.5	47.5	45
28.4	55.6	60.1	49.8	50.6	49.8	48	49.2	51.9	53.5	55.3	52	51.7	47.9	47.1
28.4	60.6	59	51.9	51.1	51.1	47.6	54.4	51.8	58.7	56.5	59.2	53.6	47.6	47.3
28.4	58.5	55	48.5	48.7	53.4	52.1	49.6	55.2	59.2	60	62.6	52.7	48.8	46.2
28.4	51.4	51.6	55.6	54.1	52.3	49.9	50.3	52.9	55.4	58.6	53.3	51	47.2	45.3
28.4	51.4	53.6	55.2	48.9	52.5	50.5	50.4	53.9	55.2	59.7	55	52.2	50.1	49.4
28.4	51	55.3	54.4	53.4	53	47.6	48.2	50.9	53.4	58.6	53.6	51.8	47.1	43.9
28.4	48.7	48.1	55.9	54.8	51.8	51.7	47.2	51.7	55	60.4	52.4	48.9	47.4	45.4
28.4	56.3	57.1	50.2	48.6	49.6	48.9	51.3	51.8	56.3	54.2	52.4	51.7	47.8	42.9
28.4	58.3	55.8	54.5	52.4	50.8	50	49.8	52.4	52.4	52.3	52.7	51.4	43.9	42.7
28.4	52.4	52.8	51.5	49.5	51.5	48.1	46.3	52	51	54.8	50.8	55.7	46.1	44.1
28.4	58.7	54.4	48	51.1	51.1	50.2	49.9	53.5	51.4	54.5	49.9	54.5	48.4	44.3
28.4	58.2	50.1	53.7	43.5	49.1	45.5	51.1	53.2	52.5	55.8	51.5	49.2	50.6	44.6
28.4	59.4	53.5	54.5	49.4	48.4	48.5	49.4	53.6	49.7	53.4	49.6	48.2	44.7	44.6
28.4	58.7	60.7	43.9	50.7	48.5	44.2	51.1	50.2	53	56	50	49.1	45.5	44.2
28.4	58.7	52	49.1	47.7	48.2	48.4	51.8	52.2	51.1	54.2	54.7	55.7	45.2	43.3
28.5	54.6	53.1	47.5	49.1	49.5	48.1	52	51.6	53.7	54.8	50.2	51.8	49.4	45.1
28.5	51	45.4	49.5	50	49.8	48.8	53	53.1	50.5	54.7	51.4	48.3	45.6	43.7
28.5	47.8	46.4	49.1	49.9	51.6	47.9	54.4	52.5	50.2	54	49.3	47.6	45	43.1
28.5	46.3	47	46.2	49.4	50	49.5	50.6	48.8	51.2	55.3	48.7	47.2	45.3	42.8
28.4	50.1	47.9	45	49.9	50.2	47.1	51.8	49.2	52.1	55.5	54.7	47.3	45.5	44.1
28.4	39.3	48.7	50.1	40.7	49.3	48.1	51	52.8	52.3	55.2	48.7	47.6	43.3	43.3
28.5	43.1	43.9	50.9	44.9	43.9	44.8	50.3	50.4	52.3	53.4	49.3	51.2	45.3	47.9
28.4	42.6	51.6	47.5	49.8	49.9	49	51.7	54.4	51.2	53.1	50.5	46.5	43.8	42.8
28.5	49.3	53.9	49	47.9	49	48.7	51.3	51.7	51.1	52.9	47.9	47.7	43.7	43.3
28.6	45.7	44.6	46	48.7	50.2	45	49.6	49.8	52	52.5	48.3	51.4	44.4	43.3
28.7	44	50.6	52.1	51.6	49.8	47.5	54.3	49.6	50.6	53.2	52.1	50.3	43.9	43.2
28.8	36.3	49.5	47.3	46.8	49.4	46.3	50.7	49.9	53.3	54.1	47.5	48.6	48.5	44.3
28.9	44.4	49.1	50.6	54.1	49.9	47.8	50.6	48.6	51	55.2	46	48.7	45.2	42.5
28.9	38.2	43.4	47.1	49.3	49.4	46.8	50.4	50.2	50.5	52.1	48.9	48.4	44.9	43.6
28.9	45.3	42.5	48.2	55.1	50.1	48.4	52.9	48.1	52	52.1	47.1	48.3	44.3	48.1
28.7	41.2	40	52	48.7	51.4	47.5	48.8	52.5	54.3	53.1	48.5	48.4	44.5	44.5
28.5	46.3	41.4	44.7	50.4	48.5	49.7	51.9	52.3	52.4	54.3	47.5	48	42.7	43.4
28.6	45.3	40.8	44.6	50.5	50.3	49.1	50.9	52.1	51.4	52	47.3	48.3	46.2	47.2
28.5	41.3	42.2	40.3	49.4	49.4	44.7	52.2	52.8	49.3	54.1	49.3	48.4	44.4	46.1
28.4	45	36.5	46.3	41.8	48.6	49.2	54	53.3	54.2	54.1	49.8	50.7	44.9	44.7
28.4	42.7	48.5	49.4	45.3	53.3	48.4	52.1	48.8	52.4	54.5	51.6	49.2	46.3	47.1
28.4	39	45.4	48.7	49.1	51.8	48.1	50.4	50.3	53.5	57.1	51.6	48.1	45.6	50.6

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.5	37.1	43.3	48.1	49.7	44.8	48.1	51.8	52.9	56.3	56	50.4	50.9	47.5	48.9
28.4	36.9	46.6	50.7	50.4	49.5	48.8	54.4	51.7	58.9	55.7	53.6	58	54	50.3
28.7	43.6	45.9	46.2	48	46.7	47.8	52.3	52.2	54.2	55.9	56.1	60.3	56.6	53
28.6	42.3	45.4	42	42.2	48.9	47.1	48.3	53.4	56.4	59.5	54	61.4	55.1	53.8
28.7	46	48	41.1	48.3	49.6	47.7	52.3	55.9	60.9	58.1	54.7	64.5	63.8	53.8
29.2	40	49.1	47.4	53	50.4	52	54.7	59.1	58.9	60.9	57	67.9	59.9	61.3
29.8	45.3	47.6	49.1	51.1	54	50.1	57.5	63.5	66.2	59.3	60.7	60.9	59.9	59.1
29.1	42.9	38.7	43.5	58.3	53.6	56	61.4	67.5	61.9	56.8	60.6	54.5	49.9	54
28.8	48	51.1	51.6	63.6	54.8	53.2	64.7	60.4	55	55.3	52.1	53.2	49.1	51.5
28.6	49.9	50.7	60.5	55.6	54	49.7	52.6	50.5	50.2	55.2	54.9	52	48.3	52.5
28.5	46.5	53.6	55.9	50.9	50.1	45.8	53.7	54.7	53.1	55.4	51.1	48	48.1	52.3
28.4	49.4	53.7	44.8	50.3	51.7	46.6	49.4	52.9	51.9	55.1	51.1	48.9	48.4	50.9
28.4	40.5	43.1	45.2	50.1	49.7	44.7	51.1	52.5	52.2	54.7	48.2	49	44.5	51.6
28.4	45	43.9	49.9	50.7	46.1	46.8	51.4	50.6	52.9	55.5	50.6	49.4	44.7	52.6
28.4	43.3	42.5	42.7	45.1	49.9	50.1	51.7	51.9	57.2	55.5	54.7	52.7	54.5	52.3
28.4	40.2	43.5	43	45.8	52.7	46.3	53.8	50.4	49.1	58.3	52.5	56.3	57.3	55.4
28.4	46.5	44.6	45	49.4	48.9	45.8	55	50.2	56.2	56.6	54.3	58.7	48.5	55.6
28.4	46.7	46.4	45.3	52.9	44.5	47.3	51.4	50.5	57.7	55.6	52.5	56.3	47.8	55.8
28.3	48	40.5	41.4	45.1	50	49	52.5	53.5	53.6	54.6	52.6	51.6	46.6	55.4
28.3	46.1	42.2	46.2	49.5	50.9	48.2	51.8	57.1	51.7	55.9	52	51.1	48.2	54.1
28.3	47	45.2	49.5	49.6	51.9	47.9	56.3	51.2	53.1	54.7	54.3	54.7	51.6	52.8

41.8	40.5	40.2	36.8	36.9	36.1	35.2	36.5	31.4	32.5	35.5	35.1	43	38.1	35.9	30.8
45.2	41.1	40.4	39.1	36.8	36	34.7	39.3	31.7	31.2	32.8	32.2	39.1	33.6	31.2	28.3
44.9	40.6	40.1	37.9	37.1	36.5	35.3	42	35.1	36.9	40	41.6	44.4	43.6	40.9	38.6
43.6	40.2	40.7	37.9	36.9	37.6	36.2	42.4	34.7	33.7	35.9	37.1	41.6	40.3	35.6	32.8
43.6	42.5	41.4	38.3	37	36.9	35.8	45.1	41.7	35.5	38.5	36.8	41.7	39.4	37	35.9
42.9	41.9	41	40.6	40.6	41.2	40	45.1	40.3	42	45.5	45.3	46.1	46.1	43.9	42.5
41.4	38.9	39.5	38.7	38	38.2	37	34.1	32.5	34.3	34.7	36.3	42.7	38.2	36.1	32.9
42.4	38.8	38.7	36.5	36.4	36	35.9	33	31.5	31.8	33.6	34.3	43	40.4	37.4	33.4
40.8	40.3	40.1	36.9	37.1	35.4	35.5	34.3	32.5	31.9	34.4	35.6	45.6	41.9	40.1	36.8
41	38.6	39.8	38	37.2	35.8	36.6	33.6	33.5	33.6	33.9	35.2	46	40.8	38.5	36
42.5	39.1	38.7	36.5	36.1	33.9	36	32.6	33.7	31.1	32.3	34.2	46.1	40.8	39.3	36.8
41.3	42.4	39.6	37.7	35.6	34.4	36.1	34.3	32.9	32.2	35.5	36.1	47.3	42.7	41.4	38.4
41.8	40.3	39.8	36.4	36.5	35.1	34.1	32.7	31.8	32.8	36.7	38.2	49.1	43.9	42	38.9
42.2	40.2	39.6	38.1	37.8	37.3	35.7	34	32.6	32.8	35	35.9	47	42	40.5	37.1
43.3	41.1	40.7	40.1	37.3	37	35.7	35	34.9	34.4	36.1	36.9	48.1	41.4	39.9	36.6
43.4	41.8	39.6	39.4	38	36.7	36.2	34.5	35.5	35.4	36.9	38	46.8	42.1	40.5	37.5
42.6	42	39.2	40.4	38.7	37.8	37.2	35.7	36.1	35.9	37.8	38	46.3	42.8	40.6	36.2
45.5	41.9	40.4	38.8	38	38.5	38.5	38.3	38.6	37.9	40.8	41	48.3	43.9	41.8	37.3
45.6	41.5	40.7	38.5	38.3	38.9	38.3	38.7	39.7	40.1	42.1	41.7	49.5	44.6	41.4	38.8
44.8	43.6	46.5	40.8	41.4	39.3	41.9	42.4	40.5	40.9	40.1	41.7	48.1	42.6	40.9	36.1
44.8	45.2	42.7	40.5	41	39.4	41.5	41.5	41	40.9	40.3	42.5	51.6	45.5	43.2	38.8
43.6	43.2	42.1	38.4	38.8	39.6	40.3	42.3	42.6	42.5	42.5	42.7	54	49.7	47.1	43.1
45.7	43.2	44.7	41.1	41.2	43.2	44	46.7	43.6	42.5	44.7	45.1	56.7	52.7	49.8	44.6
44.9	46.5	45.6	42.7	41.2	41.9	43.9	44.9	43.7	42.6	44.7	45.9	58.4	53.5	51.7	46.8
43.6	44.6	43.7	40.4	39.3	40.7	42.2	42.6	42.3	42.2	44.4	44.6	57.8	52	50.4	46.8
44.6	42.9	42.5	38	40.2	42	42.1	44.6	43.9	42.7	46.3	45.7	59	53.6	52.8	49
47.1	47.1	46.3	39.4	40.8	39.9	42	44.3	42.9	41.7	44.7	46.4	59.3	54.9	53.9	50.1
44.3	42.5	40.9	37.7	37.6	37.2	41.4	42.8	40	39.4	47.2	48	61.7	57.1	55.4	52
43.5	39.6	41.3	39.2	37.3	38.4	41.5	42.4	39.6	39.5	46.1	46.7	60.5	55.6	55.1	51.7
42.6	41.6	40.4	40.2	39.8	40.7	42.3	43.9	40.8	40.2	48.1	47	60.8	56.9	56	51.4
45.8	43.9	44.6	42.2	40.9	45.6	46.1	44.9	42.3	41.7	46.8	47.4	60.7	55.7	55.3	52.1
44.3	44.6	44	43.4	42	43.1	43.8	45.5	44.8	42.2	46.9	47.5	60.5	56.7	56	52
44.8	45	42.6	43	42.4	42.2	42	43.9	42.4	41	48	48.9	62.4	58.9	58.5	55.1
43.8	43.1	42.4	40.4	40	40.4	49.3	43	39.2	43	49	49.6	63.1	59.3	59.1	56
43	41.6	40.6	39.4	38.7	39.6	46.2	44.8	39.7	41.3	46.8	49	62.9	59.5	59	55.7
44.4	41.3	42.1	39	39.4	40	44.7	42.7	39	41	47.6	50.7	63.9	59.9	59.3	56.5
42.3	40.2	39.4	38.4	37.4	40.5	40.5	39.6	38.2	42.9	48.3	52.6	62.9	58.9	57.5	54.6
40.7	40.4	39.6	37.6	36.7	42.1	40.9	41	39.7	42.9	49.6	53.8	65.2	60	59.8	58.2
41.8	39.7	39.9	39.2	38.9	40.6	43.6	44.4	38.3	41.5	45.6	51.3	64.4	58.8	57.4	56.5
41.8	39.3	40	37.9	37.1	36.7	39.7	38.8	39.3	42.8	48.5	53.1	65.1	59.3	58.5	58.3
42.7	39.3	40.4	38.1	37.7	37.8	39.3	40.6	38.5	43	48.1	52.6	63.3	62	60.5	59.4
43.4	39.5	40.9	38.1	36.5	37.9	39.4	38.1	39	43.2	47.5	50.9	59.6	55.8	56.8	56.6
42.3	41.2	41	40.7	38.1	37.8	40.3	38.1	38.8	43.5	45	51.6	57.4	54.2	55.1	54.3
42.1	40.5	39.9	39.7	37.6	38.9	39.9	38.8	40.3	42.8	46.7	53.2	63.3	57.6	60.3	58.3
43	41.2	42.3	38.1	37.3	37.9	38	38.5	39.3	40.9	42.4	49.8	54.2	47	49.1	48.4
44.8	41.1	41.8	38.9	38.3	38.7	39.2	39.7	40.6	41.8	42.5	48.9	53.8	47.6	49.3	47.9
44.1	42.2	41.7	40.2	40.6	40	40.4	41.1	41	40.9	43.4	48.6	54.7	48.9	52.3	51.5
44.8	44.1	42.1	39.9	39.7	40.6	40.1	41.6	41.6	41.8	42.9	48	56	50.2	51.2	50
44.4	45.1	44.6	40.8	39.6	42.3	43.1	43.1	42.5	40.4	41.7	46.6	50.3	45	47.6	45
45.7	43.8	43.1	40.1	39.9	39.9	41.7	41.7	41.8	41.6	41.1	45.9	50.8	45.8	47.4	46.7
45.6	42.3	43	40.4	37.8	39.5	40.1	40.4	40.9	41.4	39.9	43.8	47.8	42.1	43.5	41.5
44.9	43.1	41.9	39.3	39.1	39.7	40.6	42.1	42.2	39.8	39.8	42.3	47.9	41.2	39.8	37
47.5	43.2	43.6	40.2	40.1	39.6	40.6	40.2	39.8	39.2	38.2	40.3	42.9	39.9	38.3	35.8
46.2	43.4	42.6	42	40.8	37.6	44.5	40.1	40.9	39.3	37.5	38.9	43.5	37.4	37.3	36.7
43.4	42	42.4	40.7	42	39.7	43.7	42.4	40.6	38.7	38.5	38.3	41.6	36.7	36.6	34.2
42.7	41.1	41.5	38.3	38.1	38.1	41.5	41.1	39.6	39.3	36	38.4	41.8	38	35.2	32.2
43.5	41.3	40.6	38.5	38.2	36.4	43.5	38.2	39.7	37.3	37.4	37.7	43	37.3	35.5	33.5
43.5	41.1	41.5	39	37.4	39.9	40.3	37	38	35.9	36.3	37.8	45.8	41.3	37.2	33.4
45.2	42.6	42.5	41.4	39	39.3	40.2	40.8	40.5	41.1	36.3	37.7	45.4	39.2	35.5	31.5
42.9	44	44.9	43.4	37.8	40.6	42.7	40.7	41.8	38.3	37.1	37.8	41.3	36.5	33.2	29.5
44.9	42.5	42.8	39.7	37.2	39.1	40.8	38	36.2	37.1	35.4	34.7	39.1	34.1	31.5	29.2
43	44.2	42.4	41.8	39.5	39.2	40.9	38.7	37	35.9	36.1	36	43.1	38	35.1	31.8
44.3	42.8	44.3	41.1	40.2	43.1	41.3	42.4	40	40.9	36.5	35.3	38	34.1	32.2	30.3
42.8	43.5	42.8	39.5	38.7	37.1	39.1	38.7	38	36.8	36.2	36.4	39.1	36.7	34.9	32.8
42.2	39.5	41.4	40.2	37.2	36.6	39.6	38.1	39.4	41.2	36.6	36.7	38.1	34.7	31.3	29.5
42.2	40.5	41.4	38.3	38	38.1	39	39	37.3	37.3	36.1	38	43.8	37.1	35.9	31.6
41.3	38.9	40.8	38.7	36.6	36.7	38.1	36.7	36.4	32.8	35.2	37.4	41.6	37.4	36.7	34.2
41.8	38	39.9	38	35.3	37.2	37	34.1	32.7	31.7	33.1	32.5	36.4	32.5	30.2	31.7
42.8	40.2	40.8	37.4	35.6	35.2	35.6	36.1	31.5	31.7	33.3	32.4	37.7	35.7	31.8	29.8
43.9	40.7	39.3	39	36.5	37.4	36.6	33.9	33.6	34	32.7	33.3	36.6	31.3	28.9	28
44.1	40.1	39.6	37.4	35.9	34.5	34.8	33.3	32.2	30.8	31.1	30.8	35.2	31.4	30.4	28.7
43.1	40.4	41.3	40.6	38.6	39	37.2	34.1	32.7	32.6	34.5	35.9	47.1	42.4	37.4	35.6
44	42.2	40.5	40.3	38.2	37.9	37.3	34.2	34.2	32.8	32.7	34.1	38.7	36.4	32.7	30.5
45	39.7	43.2	41.7	39.3	41.1	36.3	34.4	34.5	34	37.4	35.7	45.2	40.8	37	32.4
43.3	41.2	42.1	44.6	40.4	44.5	39.8	36.4	34.1	34.2	37.1	37.8	43.6	42.4	35.2	32.4
42.9	40.9	43.1	40.3	41.7	46.4	39.3	36.6	34.7	34.3	31.9	30.9	37.3	32.4	30.9	29.3
41.6	41.4	43.3	39.4	44.9	48.9	39.2	36.4	36.2	33.9	35.5	35.1	42.2	38.5	36	32.6
43.5	38.8	42.5	40.3	45.6	49.8	43.4	38.5	35.7	34.7	37.8	38	44.7	39.4	35.7	31.7
51.9	40.7	40.6	46.3	45	49	43.7	38.6	35.9	33	34.3	32.5	39.9	35.1	30.9	29.1
48.4	41.3	40.3	45.8	38.5	47.9	40.9	38.8	37.2	33.7	32.4	32.9	35.9	28.9	26.8	24.6
46.8	39.5	41.8	39.9	40.5	47.1	40.1	38.4	38.3	33.9	33.7	35.7	36.7	31.3	30.5	28.7
45.9	41.7	42.2	38.7	39.7	47.2	42.8	39.3	37.4	35.5	36.1	35.5	39.7	36	32.9	29.6
45.6	41.6	41.9	39.5	39.5	47.9	41.4	38	38.4	36.4	38.9	35.9	39.1	35.6	33.2	30.6
47.5	42.6	43.1	41	43.5	51.7	45	42.3	39	36.9	37.1	35.5	38.7	36	31.9	30.1
52.9	42.4	44.8	45.4	47.3	45.9	44.4	41.6	38.2	36.9	36.1	35.6	43.9	39.1	35.4	31.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
54.8	41.6	42.3	50.5	43.4	49.8	47.7	44.1	38.5	38.1	38.2	36.5	40.5	38.2	34.5	29.5
52.2	45.4	44.7	49.5	45.5	50	46.6	44.1	40	38.4	40.7	36.4	44.2	38.3	35.6	32.3
47.4	46	48	43.5	46.5	51.4	51.1	45	43.5	42.3	46.8	39.5	40.1	35.6	34	31.8
51.7	50.3	48	47.2	48.1	54.6	55.5	50	47.5	48.4	47.8	42	47.6	42.2	37.9	35.1
51.6	51.7	52.1	49.4	49.2	53.5	54.3	52.6	50.6	50.2	48.8	44.7	42	39.8	38.3	35.8
55.6	58.4	54.1	52.6	52.4	55.2	55.3	55.2	53	51.9	51.7	47.6	46.6	44.5	43	38.7
54.1	55.6	52.8	51.6	53.3	59.5	58.7	57.2	56.1	54.9	52.1	47.5	46.7	45.8	42	38.6
50.1	49.7	48.1	46.5	50.5	55.9	53.2	52.7	51.6	49	47.8	41.9	42	39.9	35.7	31.8
48.5	47.5	46.1	43.4	47.3	50.9	47.1	46	45.1	44.2	46.4	36.6	39.4	36	32.9	30.1
44.9	46.9	44.1	42.4	46.1	46.4	44.3	45.7	42.7	42.9	43.6	38.7	43.6	41.8	37.2	32.9
45.4	43.3	41.1	44.9	40.9	40.5	45.7	47.8	44.5	40.7	36.8	33.7	38.8	34.5	30.8	29
45.4	40.1	40.5	42.7	38.7	41.7	38.8	36.5	37.1	35.3	34.4	33	41	36.5	32.3	28.3
46.2	40.1	39.9	41.1	36.8	43.4	37.9	36	35.1	34.1	33.3	34.5	42.6	36.3	34.3	29.5
44.9	41.5	41	39.4	38.1	41.8	38.5	36.6	35.6	34.8	34	35.5	41.4	37.7	35.8	31.2
42.7	44.3	43	40.2	39.5	39.8	39.2	37.3	38	36.9	36.5	36	42.3	35.9	32.2	28.9
44.9	48.1	43.2	40.6	40.3	41	39.4	38.2	37.2	36	35.2	33.9	36.2	32	30.2	26.9
45.1	44.1	42.6	41.6	41	44.8	39.3	38.8	38.1	36.6	37	36	41.5	35.9	33.1	29.4
44	43	41	41.7	39	42.8	40.5	39.7	37.6	36.8	35.9	34.4	35.1	32.3	28.8	26.3
43.9	44.1	43.3	40.7	41.4	44.5	41	42.5	39.9	37.7	37	35.3	40.1	35.8	33.2	29.5
46.1	42.9	43.5	41.8	40.8	43.5	43.7	44.4	42.1	40.6	40.3	37.9	42.7	36.9	34.2	34.8
47.8	44.5	43.6	43.1	41.7	42.9	43.7	44.6	42.4	40.3	39.1	37.6	41.2	34.5	31.9	32.3

25.6	21.7	22	22.7	23.4	24.6	54.1	54.1	53.4	51.5	51.8	48.6	51.8
23.4	23.4	23.4	22.8	23.6	24.5	57.2	53.9	53	53.8	51.3	48.2	51.8
35.5	29.8	25.2	23.2	23.5	24.4	57.2	53.8	53.2	56.8	50.3	49.7	51.2
28.8	26.7	24.6	23.7	23.9	24.7	54.5	54.9	54.3	55.4	51.1	49.6	51.2
36	31.7	29.3	26.3	24.5	24.7	55.9	55.5	54.3	53.7	50.8	48.8	51.2
38.5	33.3	28.3	24.5	24	24.5	56.7	54.9	52	52	50.4	47	51.2
28.9	26.8	25.7	24.1	24.1	24.8	57.5	53.4	50.5	49.8	49.2	47.3	52.2
29.2	26.4	23.5	23.1	23.6	24.5	56.2	51.8	50.3	48.7	49.3	49.8	51.5
31.3	25.5	24	23.1	23.7	24.5	53.2	49.8	48.7	48.5	48.6	51	51.2
30.1	23.3	22.6	22.9	23.8	24.5	52.5	47.9	49.2	49.3	48	49.8	50.4
30.9	22.9	22.5	22.7	23.5	24.5	49.4	50.7	54.6	55	51.4	51.1	51.2
32.3	22.5	22.6	22.7	23.6	24.5	51.6	54.9	57.2	54.7	51.5	50.2	51.5
32.1	22.6	23.4	22.6	23.6	24.5	52	55.3	55.8	53.6	52.9	50	51.1
31	22.8	24.4	22.7	23.6	24.5	53.5	56.3	58.7	56.1	53.1	49.6	49.5
30.4	22.1	22	22.7	23.5	24.6	53.8	59.4	59.5	55.8	51.3	52	49.4
29.8	24	25.8	22.9	23.6	24.4	54.8	58.7	59.6	61.2	55.3	51.6	48.9
29.5	24.6	31.3	22.9	23.6	24.6	54.6	56.1	59.8	60.6	55.5	51.2	50.8
30.4	26.7	27.6	23.4	23.7	24.4	55.8	60.4	58.6	57.7	54	50.3	49.1
30.5	23.9	23.7	23.1	23.6	24.5	56	60.1	57.2	54.9	52.5	49.9	48.5
31.3	38.5	40.2	25.5	23.6	24.6	57	57.3	56.9	51	51.3	49.8	47
33.2	35.6	40.2	24.4	23.7	24.6	58	60.4	54.9	50.4	50.4	50.1	47.2
36.7	38.4	37.4	23.1	23.7	24.6	60.1	60.1	53	52	51.1	49	50.7
38.5	24.9	23.1	23.1	23.6	24.6	58.4	56.9	50.7	52.5	50.7	51	50.8
39.6	26.9	33.6	22.9	23.6	24.6	56.3	53.7	48.9	51.8	51.1	51.5	50.8
40.8	26.4	22.6	22.6	23.7	24.5	53.6	52.6	48.7	51.5	50.8	50	50.3
43.5	28.6	24.1	22.5	23.7	24.6	50.3	50.6	51.4	49.8	51.9	50.9	50.3
44.2	30.2	24	22.8	23.5	24.6	47.6	50.5	52.1	50.7	51.7	51	52.9
46.5	31.5	23.7	22.7	23.6	24.4	51.5	50.4	50.1	49	51.6	52.1	54.6
45.9	31.9	23.7	22.9	23.7	24.6	51.8	48.9	47.6	49.4	51.1	51.5	53.9
45.7	31.9	24.1	22.9	23.5	24.6	51.7	47.3	47.7	48.6	49.4	50.1	53.6
46.8	31.9	24.2	23	23.6	24.4	49.7	47.5	47.5	49.6	49.1	50.3	52.2
47.7	32.8	24.9	23	23.6	24.5	48.5	48.4	47.7	50.4	50.5	50.4	51.8
50	35.7	27.7	24.1	23.8	24.5	50	47.2	47.3	50.4	49.9	50.2	52.6
51.6	38.3	29.1	25.1	23.8	24.5	52.7	47.3	49.6	52.4	49.9	48.4	52.8
51.6	36.8	29.3	25	23.8	24.5	52.8	47.3	49.6	50.7	50.5	48.6	51.1
51.8	37.7	30.1	25.2	24.1	24.5	50.3	45	48.7	48.7	50.4	48.7	52
49.8	35.1	26.5	24.2	23.9	24.6	47.9	45.9	49	48	49	47.7	52
53.5	39.2	31.1	26.8	24.3	24.5	48.1	45.8	48.5	48.9	49.7	47.5	50.4
52.4	38.8	31.3	26.6	25.1	24.6	47.7	45.6	48.1	51	50.2	47.3	49.8
55.2	41	34.7	28.1	26.6	24.7	46.1	46.2	47.2	53	48.8	47.9	50.2
57.1	43.8	36	31.2	26.5	24.7	48.2	47.6	45.5	52.4	49.3	47.7	50.7
51.3	36.4	30.2	28.2	26.2	24.7	50.8	48.2	46.7	51.4	50.4	47.6	50.3
47.1	31.4	28	27	24.9	24.6	49.5	47.5	47.9	50.6	50.7	48.3	52.1
52.7	39.4	32.7	27.9	27.5	24.7	47.1	48.1	47.2	54.2	50.1	48.8	53
36.7	25.6	23	23.2	23.6	24.5	47.3	50.9	49	52.3	50.5	48	51.4
38.4	25.8	23.2	23	23.5	24.5	53	51.3	48.4	52.3	50.7	49.8	52.4
42.6	29.4	24.3	23.4	23.6	24.6	56.9	53.3	51.9	54	54.6	49.9	53.6
40.7	29	24	22.9	23.7	24.6	55.8	51.1	57.2	53.1	54.1	49.4	52.9
36.5	23.9	22.5	22.7	23.6	24.5	55.5	59.3	56.7	51.5	53.5	48.5	51.6
38.1	23.8	22.5	22.9	23.6	24.6	59.8	60.2	53.5	51.4	51.9	49	53.9
32.1	22.9	22.4	22.8	23.5	24.6	59.8	58.6	52.8	51.5	53.1	51.3	53.8
29.5	23.6	22.4	22.8	23.7	24.6	58.1	56.8	54.7	53.5	53.3	51.4	52
26.9	22.1	22	22.7	23.6	24.5	55	55	55.6	52.4	52.7	50.7	51.6
29.8	22.7	22.3	22.7	23.6	24.6	53.7	55.2	55.2	52.8	53.2	50.8	50.1
28.5	23.4	22.9	22.8	23.5	24.6	51.5	54.4	55.9	54.5	53.1	51.4	49
27.2	25.5	23.6	23	23.7	24.6	54.9	56.4	55.8	53.8	51.8	51.2	50.9
26.1	22.1	22.3	22.7	23.6	24.5	57.8	56.2	54.4	52.6	51.4	51.1	50
28.8	23.5	22.4	22.7	23.7	24.5	57.8	55.5	55	52.1	52.2	50.2	49.7
26.6	24.2	23	22.9	23.6	24.6	57.8	55.4	52.1	51.5	51.1	49.9	49.6
24	22.3	22.2	22.7	23.6	24.5	58.5	53.7	53	51.3	51.1	49.6	51
24.6	22.4	22.1	22.9	23.6	24.5	59	53.4	54.4	49.2	50.7	48.5	51
26.3	23.7	23.1	22.8	23.9	24.5	58.9	59.8	53.9	51.3	49.9	48.4	50.9
27.7	24.1	23.2	23.1	23.7	24.5	59.8	58.6	50.6	49.7	49	47.7	51.7
31	23.9	23.3	23	23.8	24.6	58.3	56	49.6	49	49.1	48.2	52.3
25.8	22.9	22.6	22.9	23.7	24.6	56.1	54.3	50.2	50.2	50	49.1	52.9
29.1	25.3	23.1	23	23.8	24.6	53.2	50.9	49.2	50.6	51.5	49.6	54.1
28.9	22.6	22.3	22.7	23.6	24.7	50.5	48.6	49.1	50	51.2	49.8	53.4
31.3	23.5	22.8	22.8	23.7	24.5	49.7	48.3	47.6	50.5	51.2	49.3	52.5
26.5	24	23.4	23	23.6	24.6	49.3	48.8	49.7	49.5	50.7	48.6	51.8
27.8	23.6	22.6	22.8	23.6	24.7	45.7	48.5	50.8	46.6	49	48.1	51.4
25.7	23.1	22.9	22.9	23.6	24.6	44.2	51.2	50.7	49.1	49.4	48.6	51.7
31.3	26.7	24.9	23.5	23.8	24.6	48.4	53.2	49.7	49.1	50.1	49	51.8
28	26.8	25.1	23.6	23.9	24.7	48.5	52.9	48.8	48.8	50.3	48.5	51.4
29	25	24	23.6	23.9	24.6	46.5	50.7	51.4	51.1	50.1	47.4	53.5
30.3	27.8	26.8	25	24.8	24.7	45.5	51	51.2	50.9	50.3	47.5	53.4
28.6	26.3	23.8	23.2	23.9	24.6	44.1	50.3	50.4	53.3	50.4	47.8	52
30.3	30.1	28.4	25.5	24.3	24.6	43.6	49.1	50.3	53.2	49.7	47.5	51.3
26.2	22.9	22.7	23	23.7	24.6	44.6	46.4	49	54.7	50.2	49.2	52.4
23.9	22.6	22.5	23	23.8	24.5	44.6	44.4	51.7	54.5	51.8	48.4	52.2
23.1	23.1	22.7	23	23.8	24.6	45.5	43.3	50.1	52	50.6	49.9	52.1
24.7	24.5	24.4	23.5	23.7	24.7	46.1	41.7	47.6	51.1	50.1	50.2	52.2
24.6	22.1	23.2	22.7	23.5	24.6	45	42.1	46	51	50.3	49	51.8
26.5	22.6	22.5	22.8	23.6	24.5	45.1	41.7	45.9	49.5	50.1	48.9	53.5
27.1	23.4	22.8	22.8	23.5	24.6	44.5	47.2	49.1	46.3	52.5	49.6	53.1
27.8	24	23	23.2	23.9	24.6	42.7	47.2	49.5	49.1	53.1	48.5	52.8

NM3_KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
25.4	22.5	22.5	22.8	23.7	24.5	40.5	45.4	49	49.2	51.3	48.9	52.1
28.1	26.8	24.8	24.4	24.3	24.6	38.8	46.2	50.4	51.1	49.4	49.1	53.9
26.2	23.7	22.9	23	23.7	24.5	42.8	46.6	49.9	49.5	49.5	48.7	54.1
31.1	26.5	24.3	23.6	23.8	24.7	43.4	47.2	48	48.1	48.7	48.2	52.7
33.5	30	27.1	24.5	24.4	24.6	45	47.7	45.4	48.2	50	48.2	52.2
35.4	33	29.5	26.4	25.5	25	44.7	48.6	46.3	52.1	50.4	51.7	53.9
34.6	32.2	28.8	25.7	25.1	24.7	44.9	48.5	48.5	51.9	53.7	52.3	57
29.4	28.4	25	23.3	23.7	24.5	45.1	48	47.9	57.4	54.3	55.3	61.1
27.2	27.4	24.6	23.2	23.8	24.6	47.2	50	50.9	62.3	54.6	54.6	64.6
28.6	26.8	24.1	23	23.7	24.5	49.2	51	59.4	62.3	54.6	54	63.2
26.4	25.1	23.3	22.8	23.6	24.7	49.3	53.1	57.8	59.1	54.1	51.6	59.6
25.4	23.9	22.8	22.9	23.6	24.5	49.2	54.6	56.8	55.8	52.3	48.7	56.9
26.4	24.1	23.1	22.8	23.5	24.5	48.6	53	53	53.3	51.8	47.3	54.2
26.8	23.7	22.9	22.8	23.5	24.5	46.2	49.3	50.3	51.9	50.9	47.2	52.3
26.4	23.9	23	22.9	23.5	24.6	45.3	46.7	50.4	51.2	49.7	49.2	52.2
24.8	23.4	22.8	22.8	23.6	24.6	43.5	45.7	47.1	48.4	52.4	48.9	53.4
26.3	23.7	22.8	22.7	23.6	24.5	45.7	44.9	45.4	48.8	51.2	47.2	54.8
23.3	22.9	22.6	22.9	23.6	24.5	46.6	46.1	46.3	52.2	49.5	47.4	54.4
25.2	22.6	22.4	22.6	23.7	24.4	47.8	45.4	44.8	51.5	49.4	49.2	54.4
27.9	24.6	23.9	22.8	23.6	24.5	48.7	43	45.8	49.8	50.6	48.8	52.7
28.3	25.8	23.7	23.1	23.6	24.5	47.3	45.2	48.4	49.8	51.8	48.5	55.9

51.2	52.3	54.9	49.8	48	47.1	45.6	43.4	40.8	40.7	37.5	37.7	36.3
50.5	51.3	56	49.9	48.1	46.8	44.4	44.7	41.1	40.6	38.7	37.2	36.3
50.2	50.4	55.5	50.7	47.5	46.6	44.5	45.1	41.2	40.7	38.5	37.6	36.6
50.6	50.9	55.7	50.5	48.5	45.7	44.1	45.4	40.8	40.7	38.7	37.1	37.3
49.5	51.3	55.3	49.4	48.4	46.2	43.3	44.2	42	41.2	38.4	37.3	37.3
50.2	52.2	55	48.6	48.4	46.3	43.4	43.8	42.5	41.7	40.1	39.5	40.3
50.7	52.2	55.8	48.3	48.7	46.6	42.9	43.2	41.7	41.3	40.3	39.7	39.9
50.3	52.3	55.8	48	48.2	44.8	43	42.4	40.3	40.2	38.8	38.6	38.5
49.2	51.3	54.2	48.7	47.3	44.2	43	42.4	40.1	40	37.7	37.3	37.2
49.6	49.7	54.8	49.9	48	44.6	43.1	41.7	40.1	40.1	37.9	37.4	36.1
48.8	50.7	55.1	50	48.1	44.8	43.2	42.3	39.3	39.9	37.8	37.3	36
48.6	50.8	54.7	49.5	47.1	45.8	43.6	42.2	41.5	40.1	37.9	37.2	34.8
48.9	52.1	54.5	50.4	46.2	46.7	43.7	42.2	40.9	39.9	37.1	36.4	35
53.1	53.9	55.9	51.4	47.7	47.1	43.2	42.4	40.8	40	37.9	37.7	36.9
53.1	53	56	50.8	48	45.9	43.1	43.2	41.4	40.5	39.5	37.8	37.2
52	53.8	55.6	50.9	49.6	45.8	43.3	43.5	41.6	40.5	39.6	37.9	37.1
51.5	54	55	50.8	50.3	45.9	44.4	43.2	42.1	39.8	40.2	38.5	37.7
50.6	52.6	55.1	51.8	50.4	46.6	44.2	45.1	42.3	40.1	40.2	38.5	38.4
50.1	54.2	54.1	52.2	49.7	47.5	44.1	45.8	42	40.7	39.4	38.4	38.8
49.9	56	54.4	51.3	50.5	47.1	44.1	45.3	43.4	46	40.2	40.8	39.2
50.5	56	54.1	52	51.8	47.8	45	45.5	45.1	45.8	40.7	41.3	39.5
51.9	55.7	53.4	52.4	49.8	47.4	45.1	45.1	44.5	44.1	40.4	40.7	39.6
52	53.2	54.4	51.7	49.3	48.1	45.1	45.6	43.7	44.4	40.5	41	42.6
52.3	53.5	56.4	53.3	51.6	49.5	46.4	45.5	45.7	45.3	42.1	41.6	42.9
52.2	53.7	56.5	54.4	52.1	49	45.8	45.1	45.6	45.2	42.1	40.8	42.2
51.1	53.2	56.2	53.5	51.3	47.7	46.1	44.7	45.2	44.3	41	40.2	42.1
53	52.2	55.8	52	52.2	48.7	46.1	46.2	46.4	45.9	39.8	40.8	42
52.6	52.6	54.4	52.1	52.8	48.1	46	46.3	45.8	44.8	39.4	40.3	40.6
52.8	52.7	54.3	51.4	51	47.5	44.7	44.9	44	43	39	38.8	38.9
51.8	52.6	54.5	50.9	50.2	47.2	44.1	44	41.9	41.9	40.1	39.3	40.1
52.4	53.5	54.3	51.1	51	47.2	45.2	45.2	43.3	43.8	41.6	40.7	44.2
53.5	56.8	54.3	50.3	50.9	48.5	45.8	45.1	44.1	44.3	43	41.7	43.9
53	59.7	55.7	52.5	50.6	49.4	45.9	45.2	45.3	44	43.5	42.6	43.5
56.9	59.7	59.2	51.4	50.5	49.4	45.9	44.7	44.7	43.2	42.9	41.9	42.7
57.1	57.4	58.9	51.5	50.3	49.2	45.3	44.2	43.5	42.7	41.3	40.8	41.3
55.5	55.7	57.8	51.6	50.5	47.6	45.1	44.2	42.7	42.1	40.4	39.8	40.6
53.6	53.4	56.5	52.2	51.1	46.8	45.6	44.1	41.9	42.1	39.5	39.5	40.5
53	52.4	55	51.9	51.2	48.1	45.3	43.4	40.9	40.7	38.8	38.4	42
51.6	52.8	54	50.6	49.6	47.8	44.6	42.1	40.7	40.4	39.2	38.5	41.6
54.2	52	54.4	50.3	50.7	47	44.6	42.1	40.1	40.2	38.9	38.5	40.8
59.1	52.4	54.8	52.2	51.1	47.1	45.2	43.1	39.7	40.4	38.2	37.8	38.7
59.4	51.6	53.6	52.9	50.8	45.7	44.9	43.5	39.9	40.9	38.5	37.8	38.5
56.8	52.5	54.5	51.9	51.2	45.3	45.3	43.2	40.7	41.2	40	37.9	38.2
53.8	53.5	55	50.6	51.4	48.1	45.9	43	41	40.8	40.4	37.8	39
52.2	53.8	54.9	53.1	52.2	47.7	46.5	43	41.1	41.9	39.6	37.6	38.6
54.3	55.5	55.4	52.9	52.4	47	46.4	44.2	41.3	41.9	39.1	38.5	38.7
55.5	56.8	54.8	55.6	52.1	47.5	46.7	44.5	42.1	41.9	40	40.1	39.8
56.5	57.5	55.2	55.1	51.8	47.7	46.5	44.8	43.7	42.2	40.2	40.1	40.4
55.6	56.4	55.3	53	52	48.2	46.7	45.1	45	43.9	40.5	40.1	42.1
53.7	57.6	56.2	57.9	53.1	48.1	47.4	45.5	44.9	44.5	40.4	40.1	41.2
54.6	59	59.2	61.7	53.4	48.8	47.1	45.7	44.5	43.5	40.7	40	40.8
54.3	58.4	59.2	60.6	52.7	48.4	46.5	45.8	43.8	43.1	40.4	39.2	39.9
54.5	57	60.2	57.9	52.5	49.8	48.4	46.8	43.6	43.5	40.6	39.9	40
53.8	55.7	59.3	55.7	52.7	49.4	48.2	47.6	43.7	43.3	41.7	40.9	39.6
52.4	55.4	60.2	54.6	51.9	48.3	46	45.9	43.3	42.7	42.1	42.2	39.8
52.2	56.5	59.7	53.2	51.6	48	45.6	44.3	42.9	42.6	40.7	41.3	39.2
52.5	56	57.1	53.2	51.8	47.9	44.3	43.7	41.8	42	39.3	39.6	38.5
52.4	54.3	55.2	52.8	55	46.1	44.2	43.8	41.6	41.5	39.2	38.8	39.1
53.5	52.8	55	51.6	55.4	48.2	44.6	44.8	42.5	42.1	40.9	38.9	39.4
53.3	52.5	55.9	51.4	54.6	50.4	45.2	44.6	44	44.5	43.3	38.8	40.4
53.8	52.4	55.8	51.9	52.2	49.2	44.9	44.8	43.6	44.8	42.2	38.1	40.8
53.6	52.8	56.3	50.8	50.7	47	44.6	44.5	44.1	43	41.9	39.1	39.6
52.4	52.6	55.4	54.3	55.1	46.3	44.5	44.4	43.9	44.2	42	40.1	42.7
52.1	53.6	54.9	53.1	55	48.3	44.9	44.2	44.4	43.9	41.5	39.8	41.4
52.8	53.4	55.1	51.9	53	48.4	44.6	43.6	43.2	43	40.6	39	39.2
53.7	51.7	55.3	51.9	50.9	46.7	44.2	42.7	41.2	42.8	40.3	38.5	39
52.2	51.9	55.8	49.9	49.2	45.9	43.7	42.4	40.8	41.4	39.2	38	37.8
50.2	52.5	55.7	54.2	48.1	45.7	44	42.1	39.6	41.1	38.9	37.2	37.5
52.1	52.1	55.4	53.1	47.9	45.6	44.1	42.6	40	41.1	38.2	36.4	37.2
52	52.5	55.5	51.2	50.6	45.4	47.6	43.7	40.8	40.7	39	36.6	37.3
54.1	52.3	54.7	50.7	49.9	45.1	47.2	44.4	40.8	40	38.7	36.5	37
53.5	51.6	53.8	50.2	49	44.4	44.9	44	40.6	41	40.2	38	38.5
51.9	51.9	53.6	49.4	50.8	45	44	44.2	41.8	41.1	40.8	38.3	38.8
51.5	51.7	53.7	52	50.8	44.2	43.9	45	41.5	42.8	41.5	39.1	40.7
50.2	52.7	54	50.6	50.6	47.6	44.5	44.5	41.1	42.6	43.5	39.9	43.7
49.9	52.7	55.2	48.9	49.8	46.7	44.4	43.7	41.1	43.3	43.6	41.2	45.7
51	51.4	54.4	48.6	49.2	45.9	43.6	43.4	41.6	43.4	41.5	44.1	48.3
49.5	51.9	53.8	48.5	48.8	45.4	46.9	43.3	41.2	42.9	40.5	45.8	49.9
51.6	53.7	53.8	48.6	49	45.3	46.7	50.6	40.6	42.7	45.2	46.9	49.1
52.6	53.7	54.3	48.4	48.9	44.5	45.4	50.6	41.4	41.7	46.1	44.6	49.2
52.7	52.7	53.6	47.9	49	45.3	46.6	49.3	41	41.6	45.3	41.9	48.1
52.8	51.7	53.8	49.4	48.5	45.5	46.4	48.2	41.4	42.5	42.7	41.1	48.1
53.5	53.6	54.7	50	50.1	45.4	46.3	46.7	41.7	42.2	40.7	40.4	47.9
53.1	53.5	54.9	51.3	50.4	45.8	46.6	47.2	42.4	42.8	40.9	42.8	51
51	53.8	56.7	51.6	49.5	46.2	49.6	52	43	44.7	44.3	46.3	50.5

NM3_KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
52.1	56.1	56.9	51.7	50.5	47.1	49.4	54.4	42.2	43.7	49.2	46.3	49.5
52.6	58.4	56.9	53	56.4	53.3	50.6	54.8	44.8	44.3	50	45.7	50.1
52.4	57.5	56.2	55.1	59.5	55.5	52.3	52.9	45.9	47.3	49.1	46.2	51.1
53.3	56.6	59.2	54.9	60.8	55.8	53.8	51.4	49.2	47.9	47.1	47.7	53.7
55.2	59.9	58.6	55.2	63.6	62.5	53.9	51.9	51.3	51.4	48.9	48.9	53.7
58	60	60.5	57	67.1	62.8	60.2	54.8	57.4	53.5	51.6	51.3	54.9
62.3	64.8	59.9	60	67.2	62.1	60.9	55	57.7	53.5	52.3	52.9	58.4
67.1	65.2	59.6	61.2	64	59.9	58.9	54.4	56.1	52.9	51.4	52.5	58.2
66	63	57.9	59.7	60.4	56.2	56.5	51.7	53.1	50.4	48.8	51.2	56.9
63	59.8	56.5	56.6	57.3	53.1	54.1	50	50.4	48.1	46.1	49.1	53.9
59.2	56.2	56.1	55.6	54.8	50.8	53.4	47.7	48.3	45.9	45.1	47.2	50.7
56.9	54.6	56.6	53.6	51.9	49.3	52.6	46.3	45.7	43.6	44.5	44.3	47.1
54.9	53.1	55.6	51.6	50.4	48.7	51.8	46.3	43.2	41.9	43.7	41.6	44.6
53.7	53.4	55.7	50.6	49.9	46.7	52.6	46.2	41.8	41.5	42.4	39.5	44
52.3	56.6	55.8	53.9	52	53.8	52.3	45.2	43.6	42.4	40.8	39.2	42.4
51.8	56.5	57.7	53.5	56.1	57.2	54.6	44.6	47.7	42.9	41.1	40.1	41.1
51	55.4	57.8	54.1	58	55.4	55.4	45.3	46	43.2	41.3	41	44
51.2	57	56.7	54	58.1	52.6	55.7	44.7	45	42.6	41.6	40.5	43.8
52.6	57	56.2	53.4	56.6	50.3	55.7	44.6	44.3	43.1	41.6	41	44.3
56.1	55	56.6	53.1	54	48.7	55.6	45.5	44.2	43.4	41.8	41	44.3
56	53.8	55.6	54.2	54.6	51	54.5	47.4	44.5	44	42.7	41.7	44.4

36.1	40.2	34.2	37.2	40.1	39.7	44.1	42.8	40.7	37.3	34.2	30.3
35.7	39.1	32.5	34.8	37.7	37.4	43.7	40.5	38.4	34.4	30.8	26.9
35.5	41.3	34.9	36.7	40	41.2	44.4	43.3	40.7	38.3	35.1	29.5
36.1	42	36	36.8	40.1	41.3	44.5	43.4	40.7	38.3	35.1	29.5
36.4	44.1	41.7	36.6	39.7	39.4	43	42.1	39.2	37.7	36.8	32.3
38.9	45.1	41.2	40.3	43.7	43.6	45.5	45	42.4	40.8	37.4	33
39	44.4	39.7	40.4	43.6	43.7	45.7	45	42.4	40.7	37.3	32.2
37.6	40.7	36.5	37.3	40	40.3	43.9	41.9	39.5	37.4	33.8	29.2
36.7	37.5	34.3	34.7	37.2	37.6	45.2	41.9	39.8	36.7	31.7	27.6
36.5	35.7	33.7	33.8	35.7	36.5	45.7	41.9	39.8	36.7	31.8	27
36.7	34.5	34	33.5	34.6	35.7	46.2	41.4	39.6	36.9	31.2	24.7
36.4	34	34.2	32.2	35.3	36	47.1	42.6	41.1	38.1	32	23.8
35.9	34	33.3	32.6	36.4	37.5	48.5	43.5	41.8	38.7	32.2	23
35.7	33.7	32.7	32.8	36.2	37.4	48.5	43.5	41.8	38.8	32.3	23.1
35.9	34.7	34.3	33.9	36	37.2	48.4	42.9	41.2	37.9	31.7	22.7
36.1	34.6	35.2	34.9	36.6	37.7	47.6	42.1	40.6	37.5	30.6	23.8
36.9	35.5	36	35.5	37.4	37.9	47.2	42.7	41	37.7	30.5	24.3
38	37.5	37.8	37.3	40.3	40.6	47.9	43.8	41.8	37.4	30.2	26.7
38.4	38.3	39.3	39.5	41.9	41.4	48.9	44.6	42.1	38.6	30.6	25.9
41.1	41.8	40.1	40.9	41.7	41.9	48.9	44.1	41.4	38	31.2	37.3
42.2	42.4	40.8	40.8	41	42.6	51.1	45.1	42.8	38.5	32.6	37.4
41	42.1	42.1	42.3	42.1	42.9	53.4	48.8	46	42	35.5	39.4
43.3	45.8	43.2	42.3	43.9	44.4	55.8	51.6	48.8	43.9	37.9	36.3
44	45.9	43.6	42.7	44.8	45.7	57.9	53.3	51.3	46.4	39.9	32.5
43.6	45.2	43.4	42.7	44.6	45.4	58.3	52.6	50.8	46.4	40.3	29.7
42.9	44.6	44	43	45.7	45.5	58.6	53.4	52.5	48.4	42.8	28.5
42.9	44.9	44	42.5	45.4	46.1	59.2	54.4	53.5	49.6	43.9	29.9
41.9	44	42.9	41.9	46.5	47.4	60.9	56.2	54.9	51.3	45.7	30.7
42.2	43.2	41.2	40.5	46.6	47.4	60.9	56.2	55.1	51.7	46	31.6
42	43.6	40.7	40.2	47.7	47.1	61	56.7	55.9	51.7	46	32.2
44.9	44.6	41.7	41.2	47.4	47.4	61	56.4	55.7	52.1	46.5	32
44.9	45.1	44.1	42	47.5	47.5	60.9	56.5	56	52.1	47.5	32.8
44.1	45.2	44.2	41.9	47.9	48.6	62.2	58.4	58.2	54.7	49.8	35.5
48.3	44.2	42.8	42.6	48.7	49.5	63.1	59.2	59	55.7	51.2	37.8
47.9	45.2	41	42.6	48.6	50	63.7	60.3	60	56.8	52.3	38.5
47.2	44.3	40.3	41.9	48.1	50.5	64.1	60.2	59.6	56.7	52.3	38.1
45.2	43.1	39.4	42.7	48.3	52.1	63.7	59.6	58.9	55.8	51	37
42.9	41.8	39.5	43.3	49.6	53.4	65	60.4	59.9	57.7	53.2	38.7
43.3	43.5	39.6	42.5	48.7	53.1	64.8	59.5	59.1	57.3	52.8	38.7
42.7	43.3	39.5	42.8	48.1	52.9	65.3	59.6	58.6	58	54.7	40.6
41.1	41.5	39.5	43.3	48.8	53.3	65.7	61.7	60.2	59.3	57	43.7
40.5	40.9	39.1	43.3	49	52.7	64	61.2	60.2	59.6	56.5	43.2
40.3	39.2	39.2	43.7	47.4	52.2	61.6	58.3	57.8	57.1	53.5	39.7
40.5	39	40	43.7	47.1	53	62.5	57.9	59.6	57.9	52.9	39.3
39.9	38.8	39.8	42.8	46.2	52.6	62	56.8	59.1	56.9	51.6	38
39.2	39.4	40.2	42	44.3	51	58.8	53.2	55.4	53.5	47.6	34.1
40	40.6	40.7	42	43.5	49.8	56.5	50.7	52.7	51.6	44.3	31
40.2	41.3	41.4	41.8	43.9	49.2	56.9	51.3	53.1	52	43.7	30.8
42.4	42.7	42.2	41.6	43.1	48.4	55.4	49.7	51.5	50.2	41.7	29.2
42.5	42.5	42.4	41.7	42.2	47.3	53	47.4	49.5	48.1	39.6	26.6
42	42	41.8	41.9	41.4	46.5	51.6	46.4	48.4	46.9	38.2	25.1
40.8	41.9	42	41.1	40.4	44.7	49.5	44	45.5	43.9	35.2	24.4
40.7	41.7	41.9	40.5	40	43.3	48.4	42.4	42.8	40.9	32.5	23.3
43.7	40.7	40.9	39.8	39	41.7	46	41.2	40.8	39.1	31	22.8
43.8	42.2	40.9	39.3	38.7	40.1	44.4	39.2	39.1	37.3	30.1	23.5
43.7	42.1	40.7	39.7	38.2	38.9	42.8	37.9	37.4	35.4	28.5	25.5
43.5	41.3	40.1	39.1	37.6	38.6	43.1	38.2	36.3	34.3	28	24.9
43.1	39.7	39.7	38.1	37.4	38.4	45.2	40.8	37.3	33.9	28.7	24.1
41.5	40.3	40	40.2	36.8	38	45.7	40.2	36.6	33.3	27.9	24.4
42.2	40.9	41.6	39.9	37	38.3	45.6	39.9	36.3	32.3	27.2	23.9
42	40.3	40.9	38.8	36.9	37.6	43.2	37.7	34.4	30.9	25.5	22.9
41.4	39	38.6	37.7	36.1	36.3	42.9	37.7	34.7	31.5	26	23.4
41.7	41.3	39.4	40.1	36.4	36.1	42.3	37.3	34.2	31.2	27.6	23.9
41.2	41	39.5	39.9	36.8	36.2	40.4	36.9	34.7	32.6	30.7	24.2
40.1	39.6	39.7	41	36.7	36.7	39.2	36	33.9	31.6	29.3	23.8
40.2	39.1	39.1	40	36.6	37.7	42.5	36.7	34.9	31.7	29.4	25.2
39.2	39.1	38	38.4	36.1	37.7	42.6	37.4	36.6	33.5	29.8	24.6
38.6	37.5	36.8	35.7	35.5	37.1	41.6	36.9	35.8	33	31.5	23.9
37.5	36.5	34.7	33.6	34.2	34.9	39.1	36.2	33.2	32.5	30.9	24.5
36.9	35.8	33.8	34.1	33.6	33.8	38.4	35.2	32.2	30.9	29.2	24.3
36.5	34.8	33.4	33.5	33	33.4	37.6	33.3	30.7	29.3	28	23.6
36.7	34.1	32.9	32.8	34.1	35.3	45.8	41.3	36.4	34.6	30.2	25.9
37.3	34.4	33.8	33.1	34.1	35.3	45.6	41.3	36.3	34.5	30.2	26.6
37	34.4	34.4	33.6	36.9	35.4	44.8	40.5	36.7	33	29.3	26.3
39.2	36	34.3	34	37.8	37.2	45.3	43.2	36.5	32.9	30.2	27.4
39.4	36.5	34.5	35.2	36.8	36.8	43.7	41	35.4	32.2	30	27.1
39.6	36.7	35.8	34	35.6	35.3	42.4	38.8	35.9	32.2	30.3	30
42.8	38.1	35.7	34.5	37.3	37.9	44.4	39.5	36.4	32.3	29.6	29.6
43.6	38.5	36.2	34.6	37.1	36.6	43.5	39.3	35.6	31.8	27.8	26.7
43.1	39.1	36.9	33.8	35.3	34.4	41.6	36.9	33.2	30.2	25.7	24.6
41.7	39	38	34.1	34.2	35.8	38.8	33.7	30.8	28.7	24.8	24.4
42.6	39.6	38.2	35	35.5	35.8	39.4	35.2	32.3	29.3	24.9	24.3
42.1	38.8	38.2	36.1	38.2	36	39.9	36.1	33.7	30.7	26.6	23.3
44.3	41.5	38.8	36.9	38.2	36	39.1	35.7	32.4	30.1	26.7	23.4
44.6	41.7	38.8	37.3	37.7	35.8	43.2	38.7	34.8	31	27.9	23.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
46.9	43.6	38.5	37.8	37.7	36.5	43	39.2	35.7	31.1	27.4	23.7
47	44.1	39.6	38.2	40.1	36.6	43.9	38.5	35.6	32	27.8	26.5
50.1	44.8	42.7	41.5	45.6	38.8	43.8	38.5	35.7	32.8	27.7	26.1
54.3	49	46.3	47	47.2	41.3	47.2	41.6	37.4	34.4	30.2	26.2
54.5	51.9	49.6	49.5	48.5	44.1	47.2	41.3	38.4	35.6	32.8	29.3
55	54.3	52.2	51.4	50.9	46.7	46.1	43.8	42.1	38	34.7	32
57.6	56.5	55	53.9	51.8	47.4	46.9	45.3	42.6	38.8	35.1	32.6
57.5	56.2	54.8	53.7	51.5	47.1	46.2	44.8	41.7	38	34.4	31.8
55.1	54.1	52.8	51.2	49.5	44.4	43.8	42.2	38.8	35.1	31.8	29.9
51.8	50.8	49.6	48.1	48	41.2	43.8	41.6	37.3	33.3	29.6	28.6
48.8	49.8	47.2	45.6	45.6	39.9	42.5	40.7	36.6	32.7	29	27.5
46.8	47.4	44.9	42.9	42.2	37	41.3	38	33.9	30.7	27.6	26.1
43.6	43.7	41.7	39.7	39	34.9	42.3	37.3	34.1	29.5	26.8	24.8
41.1	40.5	38.9	37.2	36.4	35.5	42	37.7	35.5	30.9	26.7	24.3
39.4	38.6	37.6	36.7	36.1	35.8	43	37.7	35.5	30.9	26.7	24.1
39.7	38.2	37.7	36.7	36.3	35.8	42.3	36.7	33.7	29.8	26.6	23.9
39.5	38.7	37.9	36.5	36.7	35.8	41.3	35.8	32.8	29.2	26.3	23.8
40.3	39.7	38	36.8	36.7	35.9	41.2	35.7	32.8	29.3	26	23.6
40.7	41.6	39.2	37.5	36.9	35.3	40.2	35.7	32.8	29.3	25.4	23.2
43.3	43.7	41.3	39.8	39.4	37.4	42	36.5	33.8	33.9	27.5	24.2
43.9	44.7	42.3	40.2	39.5	37.7	42.5	36.4	33.8	33.9	28.1	25.7

26.5	23.3	23.6	24.6	52.9	50.5	51.7	50.2	50.3	46.9	50.5	50.5	51.3
24.3	23	23.6	24.6	53.1	52.1	51.5	50.3	49.9	47.3	49.8	49.3	50
25.1	23.2	23.6	24.6	54.5	51.7	51.5	53.9	48.5	48.2	49.4	49.5	49.5
25.1	23.7	23.8	24.6	52.6	51	52.1	53.4	49.9	47.9	50	48.4	49.6
29.4	26.2	24.5	24.8	52.9	54	52	52	49.9	47	49.8	48.2	50.4
29	25.5	24.2	24.7	55.1	53.4	49.2	49.9	49.2	45.7	48.9	49.2	50.9
28.1	24.9	24.2	24.7	56.3	51	48.8	48.3	47.4	46.1	49.7	49.6	50.5
26.3	24.1	24	24.7	53.2	49.8	48.7	47.3	46.9	45.2	50.5	49	51.2
24.8	23.5	23.8	24.6	51.8	47.5	46.6	46.4	47.2	49.4	50.2	48.5	49.4
24.7	23.5	23.9	24.6	49.4	46.3	48.3	48.1	46.9	48.2	49	48.7	48.4
23.3	23	23.8	24.5	49	44.6	48	48	48.1	48.6	48.4	47.1	49
23.1	22.8	23.7	24.5	48.1	50.8	54.8	53.5	50.3	49.2	50.2	47.5	49.6
23.5	22.7	23.7	24.6	51	54.1	53.9	51.7	50.3	48.1	49.5	46.8	50.8
24.7	22.8	23.6	24.6	51.2	55.3	53.8	51.4	51.3	47.7	48.3	48.4	50.8
24	22.8	23.6	24.6	50.6	55.4	56.8	54.4	50.6	47.9	48.5	51	51.6
25.1	22.9	23.6	24.5	53.7	56.1	56.5	53.6	50.6	50.6	48.3	50	51.8
30.3	22.9	23.6	24.6	53.2	54.8	58.5	57.8	54	50	48.8	49.8	52.4
30.3	23.3	23.7	24.6	54.7	56.1	55.6	54.9	52.4	48.6	47.2	49.9	51.9
28.8	23.3	23.7	24.6	54.6	57.4	55.4	51	51.3	47.7	46.7	48.3	51.9
39	25	23.7	24.6	54.3	55.2	54.8	48.8	48.8	48.1	46	48.1	54.2
40.9	25	23.7	24.6	56.7	55	52.3	48.7	49.2	48.6	45.9	49	55
39.6	24.4	23.7	24.6	57.8	56.9	50.8	48.5	49.3	47.8	45.8	50.3	53.2
37.8	23.7	23.7	24.6	56.1	53.7	48.7	51.2	49.1	48.4	49.4	50.2	52.4
35.6	23.3	23.7	24.6	53.7	51	47.2	50.1	49.2	49.6	49.6	49.9	52.5
32.9	23	23.7	24.6	50.3	50.6	46.3	49.3	50.2	47.4	48.9	50.6	52.8
29.3	22.8	23.7	24.6	46.4	46.8	48.8	48.2	50.1	49.7	48.6	50	51.7
27.3	22.7	23.7	24.6	45.5	46.7	50.2	49	50.6	49.3	49.3	50.7	50.3
25.2	22.8	23.6	24.6	47.7	48.9	47.6	47.6	50.1	50.7	52.4	51.9	50
24.3	22.8	23.7	24.5	51	47.3	45.1	48.2	49.2	50.1	52.9	51.4	50.8
24.2	22.9	23.7	24.6	49.7	46	44	47	48.2	48.8	51.7	51	51.4
24.3	23	23.6	24.6	46.8	46.4	46.2	47.4	48.3	49	51.4	50.9	51.4
24.8	23.1	23.6	24.5	46.1	46.7	46.7	47.8	48.3	48.9	50.8	51.5	53.5
27.4	24	23.7	24.5	48.6	46.3	44.7	47.8	48.7	48.3	51	51.9	56.8
28.9	24.9	23.8	24.5	50.2	45.6	44.1	48.7	49	47.1	50.6	52.3	57.4
29.9	25.5	23.9	24.5	50.4	44.8	47.7	48.7	48.8	47.8	49.8	55.5	55.5
30.4	25.4	24.1	24.6	47.9	43.3	47.2	47.5	49	47.4	50.2	53.4	53.4
29.2	24.9	24	24.6	47.2	43.2	47.2	47	47.6	46.6	50	52.1	51.8
30.6	26.4	24.3	24.6	46.8	43.1	46.3	47.1	47.3	46.2	49.3	51.7	51.1
31.1	26.6	25	24.6	45.7	43.2	45.3	48.6	48.3	45.7	49.2	50.6	51.1
34.1	27.7	26.2	24.7	44.9	44.8	45.5	51.1	47.7	45.5	48.3	50.5	50.5
36.1	30.8	26.8	24.7	43.1	44.9	43.6	51.4	47	45.3	49.8	54.1	51.5
35.6	30.6	26.9	24.7	48.3	47.1	43.2	50.3	47.8	43.9	49	56.7	51.1
32.4	28.8	26.1	24.7	47.1	46.3	45.9	48.9	49.9	47.3	49	53.9	51.2
32.8	28.5	27.1	24.7	44.7	46.7	46.6	50.2	48.9	47.4	51.1	51.5	51.7
31.6	27.6	26.7	24.7	44.1	46.6	47.3	51.2	49.3	46.8	50.5	50.5	51.3
28.3	25.4	25	24.6	47.5	50.2	47.1	51	49	46.5	50.6	52	53.9
25.9	24.1	24.2	24.6	53.1	51.1	46.3	51.2	48.4	48.8	51.9	54.5	54.7
25.3	23.7	23.9	24.6	53	49.8	52	50.3	51.8	48	51.7	55.2	56.3
24.2	23.2	23.7	24.6	52.1	49.3	53.6	50	51.5	47.6	50.4	53.7	54.7
23.2	22.9	23.7	24.6	55.6	58.7	52.6	48.9	50.5	47.7	49.9	52.3	54.7
22.9	22.9	23.6	24.6	58.1	56.9	50.8	49.6	51.3	46.9	51.4	52.8	57.4
22.7	22.9	23.7	24.6	55	54.4	50.2	49.8	52.4	50.2	50.7	53.4	56.6
22.3	22.8	23.7	24.6	52.8	53.6	53.9	50.2	52.2	50	50.1	53	55.7
22.3	22.8	23.6	24.6	51.5	53.6	54.2	50.3	52.5	48.6	49	52	53.7
22.9	22.9	23.6	24.6	49.5	51.7	53.9	53	51.8	48.3	47.7	51.5	54.3
23.6	23	23.7	24.6	50.4	51.7	53	51.6	50.2	49.9	48	51.2	54.2
23.3	22.9	23.7	24.6	53.4	55.4	52.5	51	50.2	49.6	49.1	51.4	54.2
22.8	22.9	23.7	24.5	55.2	54	52.2	50.1	50.8	48.3	47.8	51.5	52.5
23	22.9	23.7	24.5	55.4	53.7	50.1	49.8	50.6	48	47.2	52.3	51.6
22.8	22.8	23.7	24.6	57.4	51.6	50	48.1	49.1	46.9	49.3	52	51.2
22.4	22.9	23.7	24.6	58.1	50.7	52.7	47.7	48.9	48	49.3	52.6	50.4
22.8	22.9	23.8	24.6	58.4	53.3	50.4	49.2	48.3	45.9	49.1	51.7	51.4
23.1	23	23.8	24.6	58.3	55.9	49.6	48.1	47.6	45.7	50.3	51.5	51.4
23.2	23	23.8	24.6	56.1	54.3	47.3	47.8	48.3	47	51.5	51.1	50.7
23.2	23	23.8	24.6	53.2	50.9	48.8	48.9	48.1	47	51.1	52	51.8
23.1	23	23.8	24.6	50.5	48.7	48.4	49.4	49.9	48	52.3	51.9	50.5
23	23	23.8	24.7	48.3	47.5	47.6	49.1	49.3	47	51.6	50.3	50.7
22.8	22.9	23.8	24.6	48.2	47.1	45.9	48.7	50	47.6	51.8	49.3	50.6
23.5	23	23.7	24.6	45.7	47.3	45.8	46	49	47.7	50.9	49.8	50.8
23.1	23	23.6	24.7	44.2	46.4	49.3	45	46.1	46.2	50.4	51	51.7
23.1	22.9	23.6	24.7	42.6	45.7	49	44.8	46.9	46	50.2	51.1	51.6
24.4	23.3	23.7	24.7	43.5	51.3	48.8	48.2	48.9	48.2	51.4	52	50.7
24.9	23.6	23.9	24.7	46.6	49.6	46.6	47.6	48.8	46.2	50.2	50.3	51.4
24.8	23.7	23.9	24.7	44.9	48.9	47.3	48.7	48.5	46.6	50.5	49.9	50.6
26.3	24.6	24.5	24.7	41.9	49.7	49.4	48.7	49.4	46	51.7	49.2	51.2
26.1	24.6	24.5	24.7	41.3	49.1	49.1	48.6	49.4	46.7	50.9	49.1	51.4
27.9	25.2	24.5	24.7	41.3	46.4	48.5	51.3	48.6	45.8	50.3	49.1	50.3
27.6	25	24.2	24.6	40.8	44.4	47.5	50.8	49.1	47.4	50.5	47.8	50.9
25.2	23.9	24	24.7	42.7	42.2	48.6	52	49.8	47.1	50.2	48.9	51.5
23.7	23.4	23.8	24.6	42.4	41.2	47.6	50.9	49.2	46.3	49.7	51.4	52.7
24.1	23.5	23.8	24.7	45	40.4	46	50.3	49.2	48.3	50.7	51.3	51.8
24	23.4	23.8	24.7	43	40.9	43.6	49.6	49.2	46.4	50.6	51.9	50.2
23.5	23	23.7	24.6	43.1	39.1	43.6	46.3	48.5	47	51.6	51.7	50.3
22.9	22.9	23.6	24.6	42.7	39.2	44.3	45.2	48.5	48.2	51.9	50.9	52.5
23.1	23.1	23.8	24.6	40.5	45.5	48.7	45.7	51.3	47.5	51.3	49.9	52.5

NM3_KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23	23.1	23.8	24.6	38.9	44.3	46.8	47.7	48.4	47.9	50.3	50.6	53.1
24.7	24.3	24.3	24.6	37.6	43.7	49.1	48.9	47.9	47.7	52.1	51.5	56.2
24.4	24.1	24.2	24.6	37.5	44.2	48	48.1	47.9	47.8	52.7	50.9	55.7
24.2	23.6	23.9	24.7	42.1	45.4	45.3	45.4	47.8	47.2	50.4	52.5	55
26.5	24.3	24.3	24.6	42.3	45.3	43	44.6	48.7	46.1	49.5	52.6	56.3
28.7	25.8	25.1	24.9	42.3	47	43	48.3	48.6	47.7	52.3	55	59.2
29.3	26.3	25.5	25	41.3	47.8	46.4	50.7	49.3	50.3	52.9	57.8	59.3
28.5	25.5	24.9	24.8	43.3	44.3	45.9	51.1	53.3	50.6	56.6	62.3	63
26.6	24.2	24.2	24.6	43.1	44.1	45.9	57.4	53.2	53.6	61.3	63	59.9
25.5	23.7	24	24.6	47.2	48.1	51.2	59.2	53.5	51.6	59.6	59.2	56.2
24.6	23.3	23.8	24.7	47.8	50.3	56.8	55.8	52.1	48.7	56.9	56.9	54.6
23.8	23	23.7	24.7	47.8	53	53	53.3	51.6	47.3	53.9	54.8	53
23.2	23	23.6	24.5	45.5	49.4	49.7	51.3	50.2	45.7	52.2	53.4	51.9
23.1	22.9	23.6	24.6	44.9	46.7	48.5	51	48.5	45.9	51.3	52	52.2
23.2	22.9	23.6	24.6	43.6	44	47.1	48.4	48.6	46.3	51	51.8	52.7
22.9	22.9	23.6	24.6	41.9	43.7	45.2	46.3	49.4	47.2	51.9	50.8	53.4
22.9	22.8	23.6	24.6	42.1	43.3	44.6	47.5	49.6	46.2	52.7	49.9	53.3
22.8	22.9	23.6	24.5	44.7	44.3	44.8	48.9	47.1	46	52.2	50.1	55.4
22.7	22.9	23.7	24.6	46.2	43	43.1	48.8	47.2	47.3	52	50.2	55.1
23.7	22.8	23.7	24.5	46.1	41.6	43.1	48.7	49	47.6	51.3	52.2	53.2
23.9	23.1	23.6	24.5	45.8	41.6	45.4	49.1	50.6	46.6	51.8	53.4	52

53.6	48.1	47.4	46.3	44.5	42.3	40.3	39.6	37	37	35.8	35.4	38.4
53.4	48.9	47.3	45.9	43.7	42.3	40.2	40.2	36.9	36.7	35.9	35.1	38.2
54.2	48.9	46.2	44.9	43.7	44.2	40.3	40.1	37.8	36.6	35.7	34.5	39.1
53.7	49.1	45.8	44.7	42.4	43.9	40.1	39.8	37.8	36.6	36.6	35.6	41.3
53.7	48.6	46.8	45.2	42.1	43.4	40	40.4	37.8	36.7	36.9	35.6	41.8
53.7	48	47.1	44.6	42.4	42.9	41.6	40.6	37.9	36.9	36.9	35.7	44.2
53.9	47.1	47.3	44.5	42.3	42	40.2	39.9	38.8	38.5	38.5	37.6	40.8
53.6	47.2	46.6	43.5	41.8	42	39.2	39.1	37.4	37.2	37	36.6	37.5
52.6	47.5	46.4	42.6	41.9	41.3	38.9	39	37.1	37	36	35.8	35.7
52.8	48.2	46.5	43.3	42.1	40.9	39.1	39.6	36.9	36.7	35.6	36	34.4
52.7	48.9	47	43.3	42.4	41.3	38.8	39.1	36.9	36.3	34.7	35.9	33
53.6	48.3	46.2	44.3	42.7	41.5	39.2	39.2	37	35.9	34.4	35.9	33.5
53.2	49.1	45.2	44.9	42.4	41.4	40.4	39.4	36.5	35.9	34.5	34.8	33.2
54.4	49.9	45.5	45.9	42.6	41.4	40.2	38.8	36.7	36.1	34.7	34.8	33.1
54.1	49.3	47	44.4	42.2	41.9	40.1	39.6	37.8	37.2	36.7	34.8	33.7
54.9	48.8	47.3	44.6	42.7	42.7	40.4	39.6	38.9	37.2	36.6	35.6	34.2
53.5	49.7	48.9	44.7	42.8	42.4	40.8	39.3	38.8	37.7	36.5	36	34.6
52.9	49.6	49.4	45	42.9	42.7	41.7	39.3	39.4	38.1	37.5	36.7	35.5
52.8	50.5	48.9	46.1	43.1	45.1	41.3	39.9	38.7	38.1	38.2	37.4	37.6
52.9	49.9	49.3	46	43.1	44.4	41.4	40.3	38.8	38.1	38.5	38.5	38.4
52.3	50.4	49.8	47.2	43.4	44.4	43.2	44	40.1	40.5	38.8	41	41.4
52	51.1	48.5	45.5	44.3	44	43.6	42.8	39.1	39.6	39.1	40.5	41.5
52	50.2	48.3	45.4	44.3	43.7	43.1	42.7	39.1	39.5	39.5	40.7	41.8
53.5	51.3	48.3	48	44.9	44.9	43.5	44.3	40.5	40.8	42.1	43.3	45
54.5	53.1	51.1	47.4	45.1	44.1	44.7	44.1	41	39.9	41.2	42.5	43.6
55.2	51.1	49.9	47.1	44.8	44.1	43.6	43	39.1	39.8	40.7	42.1	43.6
54.5	50.7	49.6	46.9	45	44.4	44.2	43.5	39.3	40.1	40.6	41.9	43.9
53.3	51.5	50.7	46.8	44.7	44.8	43.8	42.8	38.3	38.8	38.8	41.5	43.1
52.7	50.4	49.8	46.6	44.1	44	41.8	41.8	38.2	37.8	38.4	41.2	42.6
52.8	49.6	49.6	45.9	43.2	43.1	41.4	41	38.8	37.9	38.6	41.4	42.6
52.6	50	48.9	45.8	42.6	43.1	41.8	41.1	40	39.4	40.2	42	43.3
52.9	49.8	49.9	46.1	44.7	44.5	43.5	43.2	41.5	40	43.3	44.1	44.3
54.1	50.1	49.6	48.4	45.1	44.6	44.1	43.1	42.8	41.8	42.7	43	44.2
54.2	49.6	49.5	48.4	44.8	43.8	43.5	42.6	41.3	40.8	41.4	43	43.2
57.8	49.9	49.5	47.5	44.6	43.4	42.5	41.3	40.2	39.6	40.3	46.8	43.4
55.8	50.8	49.7	45.9	44.1	43.5	41.6	41.2	39.4	39.2	40	45.2	43.2
55.1	51.4	49.6	45.4	44.2	42.8	40.6	40.6	38.7	38.3	39.8	42.9	41.2
53.5	50.3	49.4	46.4	44.3	41.7	40.1	39.9	37.9	37.4	40.4	41.7	40.9
52.8	50	48.2	47	43.9	41.1	39.9	39.8	38.1	37.5	40.8	41.9	40.8
53	49	47.9	46.5	44	41.6	39.6	39.7	38	37.6	38.8	41.1	41
53.2	50.1	50.1	45.7	43.9	41.6	38.9	39.6	37.9	37.2	37.9	40.1	40.5
52.7	51.5	49.5	44.4	43.6	41.7	39.4	40	37.5	37	37.8	39.6	39.2
52.8	50.6	50.1	44.5	44	42.3	39.5	40.5	38.1	36.9	37.8	39.4	38.5
53	49.9	49.9	45.1	44.6	42.2	40.3	40.2	39.6	37.5	38	39.8	38.4
53.8	49.9	51.2	46.8	45.6	41.9	40.3	40.3	38.6	37.1	38	38.7	38.3
54.2	51.3	51.3	45.5	45.6	42.8	40.7	41.2	38.4	37.1	37.4	38.7	38.6
53.7	51.8	50.9	45.7	45.9	43.8	41.1	41.4	38.9	38.2	38.6	39	39.5
54.3	52.9	50.9	46.8	45.1	43.9	41.9	41.5	39.8	39.7	39.6	39.8	40.6
54.6	51.9	51.4	47.3	45.9	44.4	43	42.1	39.5	39.5	40.1	40	41.3
54.9	52.4	51.9	47.5	46.6	44.4	43.9	43.2	40	39.5	40.4	41.8	41.9
56	58	52.4	47.4	46.5	45.1	43.2	42.9	39.9	38.7	39.8	40.6	41
57.5	57.6	51.7	47.2	45.4	44.8	42.6	42.3	39.7	38.4	39.4	40.3	41.1
58.7	55.7	51.2	47.6	46	44.7	42.6	42.3	39.7	39	39.6	40.3	40.7
58.2	54.4	51.9	47.9	45.9	45.9	43.1	42.5	39.8	38.9	38.2	40.6	39.9
59.1	53	50.1	47.2	45.5	44.4	42.4	42.3	40.8	40.5	38.7	43.4	40.5
57.1	51.5	50.2	47	44	43.4	41.7	41.7	39.4	39.5	38.5	42.4	41.3
54.6	52.4	50.2	45.8	43.4	42.9	41.1	41	38.8	38.6	37.2	42.3	39.7
54	51.5	51.5	45.5	43	43.2	40.9	40.7	38.5	37.9	37.4	41.5	38.3
54.2	50.5	54.3	45.8	43.5	43.6	40.8	41.4	39	37.9	38.6	40.8	37.9
53.2	50	52.1	48.4	44.3	43.5	42.2	41.8	40.8	38	39.2	40.7	40.3
54	50.1	50.1	47	44	43.6	42.5	42.9	40.7	37.5	39.4	41	38.9
54.4	49.8	49.4	46.1	44	43.2	42	41.8	39.9	37.6	38.7	40.9	38.6
54.2	50.1	49.1	45.4	43.4	42.3	43.1	42.9	41.2	38.9	39.5	40.8	38.8
53.5	51.4	53	45.4	42.8	43.3	43	43	40.1	39	39.2	39.8	39.5
53.9	51.1	50.7	46.6	43.8	42.4	41.1	42	39.2	37.7	37.7	38.9	38.5
54.2	49.8	49	45.4	43.3	42	40.7	41.4	39.2	37.9	37.7	39.2	37.9
54.3	48.2	47.8	45.3	43	41.6	39.6	40.7	38.8	37.1	36.8	38.5	37.5
54.5	49.8	47.4	45.1	43	41.5	38.5	40.4	38.2	36.2	37	37.5	35.7
53.9	51	46.7	44.2	43.4	41.7	38.4	40.1	37.6	35.7	36	36.4	35.2
53.7	49.7	47.8	43.5	43.3	42.5	39.3	39.8	37.6	35.3	35.8	36.2	34.7
53.4	50	48	44	44.9	43.2	40.1	39.5	37.8	35.8	35.5	35.4	33.8
53.2	49	47.6	43.4	44	43.2	39.6	39.5	38	35.9	35.5	35.3	33.7
52.7	48.4	47.6	44.1	43.3	43.2	40.7	40.2	40	37.8	37.9	36.5	33.8
52.7	48.2	49.8	43.4	43.3	43.6	40.4	40.7	39.8	38	37.7	36.4	33.9
52.5	48.9	49.4	44.2	42.7	43.7	40.4	41.9	40.9	38.9	40.7	36.7	34.2
53.5	47.2	48.9	45.8	43.2	43.2	40.6	42.5	41.5	39.9	43.7	38.8	35.9
53	47.1	48.4	44.9	43.2	42.1	41	42.7	40.2	40.9	45.6	39	36.3
52.1	47.4	48.2	44.7	43.6	41.7	39.8	42.5	39.8	43	48.2	39.2	36.3
52.5	47.2	47.7	44.4	45.4	43.2	39.7	41.4	40.4	44.6	48.8	42.8	38
52.7	47.6	47.9	43.3	44.1	49.3	40	40.8	45	41.9	48.1	41.7	38.4
52.3	46.9	47.8	43.2	44.5	47.8	40	40.7	42.7	41	47.4	40.5	37.8
52	46.8	47.4	44.3	45.5	46.8	40.3	41.4	40.7	40.3	47.1	40.9	38.6
52.9	48.3	47.9	44.2	45	45.7	40.7	41.4	39.8	39.7	46.7	41.5	38.1
53	49.9	49.2	44.9	45.2	46.2	41.4	41.7	39.4	39.8	47.6	41.4	38.4
54.8	50.7	48.6	45.5	46.8	47.3	42.1	42.6	41	42.7	48.2	44	41.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
55.9	50.7	48.3	45.3	48.1	51.9	41.5	42.8	44.3	44.6	48.2	44.2	41.4
55.5	50.8	50.3	47.1	48.4	52.9	41.8	42.6	48.9	44.6	49.1	46.4	43.3
54.8	52.5	56.4	53.4	50.8	50.3	44.7	44.3	46.4	44.7	49.2	46.7	43.3
56	53.7	58.6	53.7	52.3	50	46	47.1	46.3	46.3	50.9	50.1	44.9
58.1	54.3	60.9	55.9	52.6	51.2	49.1	47.7	46.8	47.4	53.4	53.9	49
58.4	53.8	62.2	60.7	54	51.2	50.8	51.4	48.8	49.2	53.5	54.3	51.9
58.8	56	64.1	59.9	59	54.1	56	52.9	51.4	51.1	54.6	55.1	54.4
57.9	59.8	60.4	56.2	56.5	51.7	53.1	50.4	48.8	51.1	56.8	55.1	54.1
56.5	56.6	57.4	53.2	54.1	50	50.4	48.1	46.1	49.1	53.9	51.8	50.8
55.5	55.6	54.8	50.8	53	47.6	48.3	46	44.2	47.3	50.7	48.6	48.5
55	53.2	51.8	49.1	52.7	46.3	45.7	43.6	44.2	44.3	47.1	46.8	47.4
54.8	51.6	50.1	48.6	51.5	45.6	43.2	42	43.1	41.6	44.6	43.6	43.8
54.5	49.7	49.4	46.7	50.7	45.6	41.4	40.8	42.2	39.3	43.8	40.9	40.6
53.4	49.4	49.2	45.4	51.8	45.3	41.1	40.7	40.5	38.5	42.4	39.3	38.6
55	50.4	49	45.5	51.8	43.8	41.5	40.7	40.2	38.5	41	38.9	37.6
55.8	52	50.9	53.9	52.4	43.6	43.6	42.2	40.3	39.1	40.7	39.2	37.9
56.8	53.1	56.3	52.6	54.2	44.7	45	42.5	40.3	39.9	41.1	39.2	38.1
55.7	53.1	56.7	50.3	55.3	44	43.8	41.5	41	39.4	43.2	39.3	38.4
54.7	52.3	54	48.3	55.3	43.9	43	41.6	40.9	39.4	43.1	40.2	39.7
55.4	51.9	52.4	47.9	54.6	44.1	43.3	42.5	40.5	40.5	43.6	40.6	41.3
54.8	51.7	52.3	48.1	53.4	45.4	43.2	43.2	41.5	40.9	42.9	43.2	43.8

32.5	34.8	37.8	37.4	43.1	40.5	38.4	34.4	30.9	26.9	24.3	22.9
32	32.9	35.4	35	41.4	37.7	35.4	31.8	27.8	25.2	23.5	22.8
31.8	32.1	34	34.6	40.3	36.7	33.9	30.5	26.1	24.3	23.6	22.8
34.4	35	37.7	38.9	42.8	41.7	38.2	35.7	32.1	27.1	24	23
34	34.8	37.3	37.4	42	40.1	37.1	35.1	32	28.2	25	23.7
39.3	34.9	37.8	37.4	42	40	37.1	35.3	34.2	30	27.3	24.6
36.5	37.4	40.1	40.4	43.9	41.9	39.5	37.5	33.8	29.3	26.3	24.1
34.1	34.8	37.3	37.6	43.3	41	38.4	35.4	31.6	27.6	24.8	23.5
33	33.2	35.6	36.5	43.4	41	38.3	35.4	30.9	25.8	23.8	23
32.8	32.8	34.6	35.7	45.2	41.2	39.1	36.1	30.8	24.8	23.3	23
32.4	32.2	33.4	34.8	45.1	40.4	38.4	35.7	30.1	23.8	22.8	22.8
33.2	32	33.4	34.7	45.7	40.8	39.1	36.6	30.7	23	22.7	22.7
32.4	32.1	35.2	36	47.1	42.6	41.1	38	31.7	22.7	22.3	22.6
32.2	32.6	35.5	36.4	47.6	42.6	40.9	37.6	31.4	22.7	23.1	22.6
32.5	32.6	35.6	36.5	47.5	41.6	40	36.8	30.6	22.3	22.8	22.7
34.2	33.9	35.7	36.3	47	41.2	39.7	36.3	29.7	22.3	22.7	22.7
34.9	34.7	36.5	37.4	46.5	42.2	40.4	36.5	29.6	23.7	25.3	22.7
36	35.5	37.4	37.9	46.5	42.2	39.8	36.1	29.6	23.7	28.8	22.8
37.7	37.4	40.2	40.6	47.8	43.8	41.5	37.4	30.1	24.7	26.3	23.1
39.2	39.4	40.2	40.5	47.8	43	40.6	36.9	30.4	24.8	26.3	23.1
40	39.8	40.3	41.4	48.5	43.3	41	36.8	30.8	34.9	36.5	24.4
40.7	40.8	40.8	42.3	51.1	45.2	42.8	38.6	32.6	35.6	37.8	23.6
41.9	41.7	42.1	42.6	53.3	48.9	46.1	42	35.5	32.6	33.8	23.3
42.9	42.1	43.9	44.3	55.9	51.5	48.8	44	37.9	29.7	32.9	23
42.7	42	44	44.5	57.2	51.8	49.9	45.4	38.5	27.9	29.3	22.7
42.3	42.2	44.2	44.7	57.4	52	50	46.2	40.4	27.4	26.5	22.6
42.9	41.9	44.6	45.3	58.5	53.2	52.2	48.4	42.7	28.6	25.2	22.6
41.3	40.5	45.1	46.1	59.1	54.4	53.6	49.7	44	29.4	24.3	22.7
40.3	39.8	46.1	47	60.4	55.6	54.4	50.9	45.1	30.4	23.9	22.7
40.4	39.6	46.1	46.7	60.1	55.6	55.1	51.2	45.4	31.4	23.9	22.8
40.6	40.2	47	46.9	60.5	55.9	55.2	51.3	45.4	31.3	23.9	22.8
41.8	41.1	46.6	47.1	60.5	55.9	55.2	51.5	46.3	31.6	24.1	22.9
42.9	41.1	46.7	47.4	60.3	56.5	55.6	52	46.8	32.1	24.4	22.9
41	41.5	47.5	48.2	61.8	58.1	57.8	54.6	49.7	35.2	27.1	23.8
40.1	41.6	47.4	48.8	62.8	58.9	58.5	55.2	50.9	36.7	28.7	24.7
39.3	41.1	47.2	48.8	62.6	58.9	58.5	55.1	50.8	36.6	28.6	24.7
38.6	40.9	47.1	49.7	62.5	58.3	57.4	54.3	49.4	35.2	27.5	24.2
38.8	42.5	48.4	52	63.1	59.3	58.3	55.4	50.8	36.4	28.1	24.6
38.6	41.8	46.9	51.8	62.7	57.9	57.6	55.7	51.1	37	29.2	25.3
37.8	41.5	46.6	51.6	63.7	58.7	57.6	56.3	51.7	37.9	30.5	26
38.5	42.5	47.6	52.3	64	59.4	58.5	58	54.5	40.3	33.5	27.9
38.8	42.4	47.4	51.2	61.7	58.3	57.9	57.2	53.5	39.7	32.5	28.9
38.8	42.5	46.2	51.5	59.5	56.2	56.4	55.6	50.7	36.4	30.3	27.8
38.8	42.9	46	51.5	59.4	56.1	56.4	55.6	50.7	36.3	30.1	27.6
39.5	41.6	44.1	50.9	58.8	53.3	55.4	53.6	47.6	34.2	28.3	25.4
39.6	41.2	43.2	49.6	56.4	50.8	52.7	51.1	44.3	31	25.9	24.1
40.2	41.3	42.8	49	55.5	49.4	52	50.7	42.9	29.8	24.9	23.6
40.6	41.2	43	48.4	55.4	49.7	51.5	50.3	41.7	29.3	24.2	23.2
41.2	40.8	42.1	47.3	52.9	47.4	49.3	47.8	39.2	26.7	23.2	22.9
41.8	40.7	41.3	46.3	51.7	46.4	48.2	46.8	38.2	25	22.8	22.9
41.2	41.1	40.4	44.8	49.6	44	45.6	44	35.2	23.7	22.4	22.7
41.1	40.3	40	43.3	48.5	42.4	42.8	40.9	32.5	23.3	22.3	22.7
40.6	39.5	38.9	41.7	46	41.1	40.6	38.6	29.9	22.6	22.1	22.7
40.5	39.2	38.1	40.1	44.3	39	38.6	37.2	29.4	22.4	22	22.7
40.5	38.9	38	38.9	42.6	37.6	37.1	35.2	28.5	22.7	22.3	22.7
39.9	38.6	37	38.5	41.5	37.5	36	33.7	27.3	22.8	22.5	22.8
39.7	38	36.7	38.1	42.4	37.4	35.6	33.4	26.8	23.4	22.7	22.8
38.7	36.8	36.6	37.7	42.6	37.4	35.1	32.8	26.4	23.1	22.5	22.7
38.5	36.7	36.4	37.6	43.1	38.6	35.3	32.4	27	22.9	22.3	22.7
40	38.8	36.3	37.6	43.3	37.7	34.4	30.7	25.5	22.9	22.4	22.7
38.6	37.7	35.8	36.1	40.9	35.5	32.5	29.5	24.6	22.6	22.2	22.8
37.6	36.7	35.7	35.8	41	36.2	33.2	30.2	25.1	22.6	22.2	22.8
37.7	36.7	35.9	35.5	40.1	35.6	33	30.6	25.6	23.2	22.7	22.8
38.4	38.2	36.1	35.5	39.3	35.7	33.3	31.1	28.1	23.8	23	22.9
38	38.1	36	36.1	37.8	34.9	32.2	30.4	27.4	23.2	22.8	22.9
37.9	38.4	35.9	36.7	39.1	35.5	32.8	30.5	26.8	23.1	22.6	22.8
36.9	35.8	35.5	37.2	41.6	36.7	34.8	31.1	28.1	23.4	22.6	22.8
34.7	33.6	34.2	35	39.1	34.7	33.2	31.1	26.7	23	22.5	22.7
33	32.5	33.6	33.6	38.4	34.3	32.2	30.9	28.6	23.2	22.6	22.8
32.7	32.1	33	33	37.4	33.2	30.5	29.3	27.8	23.3	22.8	22.8
32.7	32.1	31.9	31.8	36.1	32	30.2	28.4	26.5	22.9	22.4	22.8
32.5	31.8	31.9	31.8	36	32.3	30.4	29.1	26.8	23.7	23.1	22.9
32.8	32.6	33.2	34.4	42.6	38.8	34.3	32.4	28.9	25.9	24.4	23.3
33.5	32.5	32.9	33.8	41.7	37.9	34.1	31.8	28.4	25.2	24.2	23.4
33.9	33.5	36.7	35.4	43.7	40.5	35.4	32.2	28.9	25.7	24.4	23.5
34.2	33.7	34.4	34	40.9	37.7	33.2	30.6	28.9	25.9	24.8	23.7
34.3	33.6	33.8	33.4	39.8	36.5	32.4	30.3	28.5	26.6	24.7	23.7
35.4	33.9	35.6	35.5	42.5	38.6	35.5	31.8	27.8	26.7	25.3	23.9
35.6	33.5	35.3	34.4	41.6	36.9	33.2	30.2	25.7	24.6	23.7	23.4
35.7	33.4	33.7	33.5	38.9	33.7	30.4	27.6	24.3	23.5	23	23.1
36.5	33.2	33	32.9	37.3	32.3	30.2	27.5	24.2	23.6	23.1	23.1
37.5	34.1	34.2	35.4	37.3	32.3	30.3	27.8	24.4	23.1	23.5	23
37.4	35	35.5	35.3	38.6	35	32	29.1	24.6	22.6	22.8	22.8
38.1	36	37.1	35.4	38.2	34.7	31.7	29.2	25.3	22.6	22.6	22.7
38.2	36.7	36.7	35.1	38.4	35.3	32.1	30	26.7	23.4	22.7	22.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
38.1	36.8	36.6	35.8	41.4	37.8	34.1	29.8	26	22.9	22.7	22.9
38.5	37.8	37.6	35.4	40.7	36.9	33.1	29.1	25.7	22.8	22.6	22.8
39.6	38.3	40.1	36.5	41.8	36.8	34.4	31.6	26.8	24.8	23.5	23.4
42.8	41.6	45.6	38.7	41.3	36.5	34.2	31.2	26.8	24.7	23.4	23.3
46.4	47	47	41.3	44.6	40.5	37	34.2	30.1	26.2	24.2	23.6
49.6	49.4	48.5	44.1	44.5	40.6	38.4	35.6	32.8	29.3	26.6	24.3
52.2	51.4	50.9	46.7	46.2	43.9	41.8	38.1	34.4	31.9	28.5	25.5
52.8	51.2	49.5	44.4	43.8	42.2	38.8	35.1	31.8	30	26.6	24.2
49.6	48.1	47.9	41.2	41.6	39.5	36.2	32.6	29.5	28.5	25.5	23.6
46.6	45.6	45.6	39.9	41.2	39.3	36	32.7	28.9	27.5	24.6	23.2
44.9	42.9	42.2	37	40.7	38	34	30.7	27.5	26.1	23.8	23
41.7	39.8	39	34.9	40.3	36.9	32.5	29.3	26.2	24.8	23.2	22.9
38.9	37.2	36.4	34.3	41.1	36.5	33.3	29.2	26.1	24.3	23.1	22.9
37.1	35.7	35.1	34.5	40.7	36.2	33.1	29	25.7	23.9	23	22.7
37.2	36	35.2	35.4	41.4	36.7	33.8	29.8	26.3	23.9	22.9	22.8
37.3	36.1	35.4	34.6	39.4	34.4	31.9	28.2	25.5	23.5	22.8	22.8
37.3	36.1	35.2	34.2	38.5	34.1	31.8	28	25.4	23.5	22.8	22.7
37.5	36.1	36.2	35	38.3	33.8	30.6	27.5	24.6	23.2	22.6	22.7
37.8	36.7	36	34.8	37.8	33.4	30.3	27.3	24.4	22.8	22.5	22.7
39.2	37.3	36.9	35	38.6	34.5	31.7	28.6	24.7	22.9	22.4	22.7
41.3	39.8	39.1	37.4	41	35.3	32.7	32.8	27.3	24	23.2	22.7

23.5	24.5	6.9	No	No
23.5	24.5	5.9	No	No
23.5	24.5	2.3	No	No
23.5	24.5	7.6	No	No
23.8	24.6	9.4	No	No
24	24.5	2.9	No	No
24	24.6	9.1	No	No
23.7	24.6	5.4	No	No
23.7	24.5	0.1	No	No
23.7	24.5	0.4	No	No
23.6	24.5	1.6	No	No
23.6	24.4	0.9	No	No
23.6	24.5	1.3	No	No
23.6	24.5	0.1	No	No
23.5	24.5	2.2	No	No
23.5	24.4	0.9	No	No
23.5	24.5	-0.1	No	No
23.6	24.5	0.5	No	No
23.6	24.5	2.6	No	No
23.6	24.5	2	No	No
23.6	24.5	1.2	No	No
23.6	24.5	2.7	No	No
23.6	24.6	0.3	No	No
23.6	24.6	6	No	No
23.6	24.5	0.4	No	No
23.6	24.5	3.6	No	No
23.5	24.5	-0.5	No	No
23.5	24.4	2.3	No	No
23.6	24.4	-0.3	No	No
23.5	24.5	2.2	No	No
23.5	24.4	2	No	No
23.5	24.4	1.7	No	No
23.6	24.5	2.8	No	No
23.6	24.5	2	No	No
23.8	24.4	4.3	No	No
23.8	24.5	5.7	No	No
23.8	24.5	0.1	No	No
24	24.5	5.6	No	No
24	24.5	5.6	No	No
24.8	24.5	1.9	No	No
26.1	24.6	6	No	No
26	24.6	8.1	No	No
25.4	24.6	10.5	No	No
25.3	24.6	10.9	No	No
25	24.5	5.7	No	No
24.2	24.5	4.3	No	No
23.8	24.5	0.4	No	No
23.7	24.5	7.6	No	No
23.6	24.5	4.2	No	No
23.6	24.5	5.4	No	No
23.6	24.5	3	No	No
23.6	24.5	4.6	No	No
23.6	24.5	2.3	No	No
23.6	24.5	1.7	No	No
23.5	24.5	1.3	No	No
23.5	24.5	1.3	No	No
23.6	24.5	3.9	No	No
23.6	24.5	5.1	No	No
23.6	24.5	4.2	No	No
23.6	24.5	1.7	No	No
23.6	24.5	0.7	No	No
23.6	24.5	2.2	No	No
23.6	24.5	1.6	No	No
23.7	24.5	2.3	No	No
23.7	24.5	-0.2	No	No
23.7	24.5	0.7	No	No
23.7	24.6	2.8	No	No
23.6	24.5	3.9	No	No
23.6	24.5	1.9	No	No
23.5	24.6	3.8	No	No
23.5	24.6	0.4	No	No
23.6	24.6	5.7	No	No
23.7	24.6	8.9	No	No
23.8	24.6	0.8	No	No
23.9	24.6	4	No	No
24.1	24.6	2.5	No	No
24.1	24.6	1.2	No	No
23.8	24.6	0.5	No	No
23.8	24.5	0.7	No	No
23.8	24.5	2.4	No	No
23.6	24.6	0	No	No
23.6	24.6	1.8	No	No
23.6	24.5	1.9	No	No
23.4	24.5	0.9	No	No
23.5	24.6	2.6	No	No

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.7	24.6	0.5	No	No	
23.6	24.5	1.4	No	No	
23.9	24.5	0.3	No	No	
23.8	24.5	1.2	No	No	
23.9	24.6	0.3	No	No	
24.2	24.6	-0.5	No	No	
24.9	24.8	2.9	No	No	
24.2	24.6	4	No	No	
23.9	24.5	3.4	No	No	
23.8	24.5	4.6	No	No	
23.6	24.5	8.4	No	No	
23.5	24.5	3.2	No	No	
23.5	24.5	0.7	No	No	
23.5	24.5	1.8	No	No	
23.5	24.5	0.7	No	No	
23.5	24.5	0.3	No	No	
23.6	24.5	2	No	No	
23.5	24.5	0.4	No	No	
23.6	24.4	1	No	No	
23.6	24.4	0.1	No	No	
23.6	24.4	2.3	No	No	

317		11/19/2021	2:00:10 PM	51.3	71.9	52.0	50.0	90.7	10.3	52.1	57.7	59	59	53.7	46.8	44.5	44.8	45.2
318		11/19/2021	2:00:11 PM	52.1	70.8	53.3	51.4	90.7	8.4	51.0	53.5	59.8	57.8	52.3	45.1	43.4	47.6	46.6
319		11/19/2021	2:00:12 PM	49.2	61.5	51.4	50.1	90.6	10.2	51.0	52.9	56.8	55.6	50.2	45.1	42	46.7	41.1
320		11/19/2021	2:00:13 PM	51.5	70.9	52.0	48.4	90.6	7.1	51.8	53.4	55.5	56.4	50.4	44.1	40.6	43.8	46.7
321		11/19/2021	2:00:14 PM	49.4	69.0	52.5	50.1	90.7	10.4	50.2	51	55.7	58.1	51.1	44.6	42.5	42.2	44.6
322		11/19/2021	2:00:15 PM	46.1	58.4	50.1	48.1	90.6	13.8	51.2	49.5	57.3	57.7	49.8	44.3	40.9	38.8	40.7
323		11/19/2021	2:00:16 PM	47.6	60.7	48.3	47.8	90.6	10.9	49.6	57.6	56.1	57.5	48	43.9	40.6	39.4	41.9
324		11/19/2021	2:00:17 PM	46.5	61.5	47.8	47.0	90.6	12.5	55.9	52.5	55.6	57.9	48.7	44.4	40.5	37.7	41.8
325		11/19/2021	2:00:18 PM	47.6	62.1	47.6	46.9	90.6	12.4	53.5	53.2	55	57.5	49.6	45.6	41.9	37.8	42.4
326		11/19/2021	2:00:19 PM	45.8	60.7	47.7	46.4	90.6	12.9	50.4	54.6	54.2	56.6	53.4	44.9	41.7	37.3	40.2
327		11/19/2021	2:00:20 PM	48.4	68.1	48.4	45.8	90.7	10.3	53.2	50.9	55.4	56.2	48.6	45.4	48.7	40.4	37
328		11/19/2021	2:00:21 PM	45.0	56.7	47.4	46.1	90.6	13.3	50.6	49.6	56.1	56.9	49	43.5	41.4	37.2	38.8
329		11/19/2021	2:00:22 PM	45.3	53.7	46.1	45.6	90.7	14.2	51.5	54.5	54.9	57.7	51.7	44.0	41.9	38.3	38
330		11/19/2021	2:00:23 PM	44.9	56.7	45.6	45.1	90.6	13.7	51.6	50.9	56.2	55.7	51.4	44.3	40.5	39.4	37.2
331		11/19/2021	2:00:24 PM	54.2	72.7	53.4	45.0	90.6	6.9	51.5	53.1	56.5	56.1	50.7	44.5	52.8	51.7	42.9
332		11/19/2021	2:00:25 PM	54.1	71.3	54.4	51.1	90.6	7.7	49.3	58.9	56.9	57	51.6	45.3	54.5	50.9	39.9
333		11/19/2021	2:00:26 PM	52.7	70.9	55.3	52.7	90.8	9	48.4	53.5	56.3	61.1	50.6	46.1	47.6	51.3	40
334		11/19/2021	2:00:27 PM	57.7	75.3	57.1	51.8	90.7	7.6	53.1	51.9	53.8	63.8	50.8	46.9	56.3	55	44.3
335		11/19/2021	2:00:28 PM	49.0	63.7	57.0	53.7	90.6	15.5	53.7	55.2	56.1	64.2	51.8	46.3	46.9	45.4	39.9
336		11/19/2021	2:00:29 PM	47.0	56.7	53.7	50.7	90.7	18	51.5	48.4	54.6	65.8	51	45.3	41.9	41.4	40.1
337		11/19/2021	2:00:30 PM	56.7	75.2	56.0	49.3	90.6	7	46.2	53.3	56.9	62.6	49.4	43.9	56.3	53.1	39.8
338		11/19/2021	2:00:31 PM	53.5	70.4	56.3	54.3	90.6	9.3	48.2	53.3	55.2	63.4	49.7	45.0	52.2	51	42.7
339		11/19/2021	2:00:32 PM	44.5	56.7	54.3	50.7	90.7	16.1	47.2	53.6	57.9	60.2	51.1	44.7	40.8	37.9	36.6
340		11/19/2021	2:00:33 PM	57.4	75.6	57.1	48.6	90.6	5.7	47.8	50.7	56.5	58.3	51.5	43.6	58.5	50.8	44.4
341		11/19/2021	2:00:34 PM	57.0	72.6	58.0	56.5	90.6	6.7	46.7	56.1	58.4	59.6	53.2	51.9	56.9	52.8	43.5
342		11/19/2021	2:00:35 PM	46.4	59.7	56.5	52.9	90.6	13.3	47.6	54.6	60.1	58.5	48.5	45.3	41.8	39.8	40.6
343		11/19/2021	2:00:36 PM	45.9	56.7	52.9	49.9	90.6	14.6	45.7	54.8	58	58	49.4	44.5	42.1	40.4	38.6
344		11/19/2021	2:00:37 PM	47.1	59.7	49.8	48.5	90.6	12	51.5	53.7	58	58.2	47.4	45.0	42.5	42.6	40.2
345		11/19/2021	2:00:38 PM	59.9	77.0	58.5	48.4	90.6	4.2	48.9	51.9	57.3	58.5	49	45.4	60.2	55.8	48
346		11/19/2021	2:00:39 PM	55.7	73.8	58.7	56.4	90.6	6.1	47.7	54	59.2	57.4	51.1	46.4	56.3	49	45.3
347		11/19/2021	2:00:40 PM	51.2	66.0	56.4	53.9	90.6	9.4	48.7	52	58.3	58.4	51.2	48.1	46	45.7	45.8
348		11/19/2021	2:00:41 PM	48.4	59.7	53.9	51.3	90.6	12.4	49.9	53.2	57.2	58.8	50.2	47.0	43.2	43.9	42
349		11/19/2021	2:00:42 PM	49.3	61.5	51.3	50.1	90.6	12.1	48.7	53.4	58.9	57.1	50.9	47.5	43.9	44.6	43.3
350		11/19/2021	2:00:43 PM	48.8	60.7	50.1	49.3	90.4	11.8	47.8	54.8	56.6	58.9	51.5	48.6	43.7	44.4	41.8
351		11/19/2021	2:00:44 PM	47.3	59.7	49.3	48.2	90.6	12.7	48.9	54.8	57.4	58.2	50	45.4	43.6	41.9	41
352		11/19/2021	2:00:45 PM	47.4	60.7	48.2	47.7	90.7	12.2	50.1	54.4	58.5	58.5	49.8	46.9	41.6	40.8	41.9
353		11/19/2021	2:00:46 PM	47.7	59.7	47.7	47.5	90.6	12.6	47.9	54.2	56.2	58.6	50.1	45.2	42.5	40.1	42.5
354		11/19/2021	2:00:47 PM	50.1	62.1	49.4	47.7	90.6	9.6	46.7	54.6	56.5	56.4	49.1	44.5	40.9	41.4	46.2
355		11/19/2021	2:00:48 PM	48.6	62.1	49.4	48.4	90.6	11.1	50.4	51.3	55.6	59.5	48.4	45.4	40.4	38.2	44.7
356		11/19/2021	2:00:49 PM	58.9	76.2	58.4	49.2	90.6	4.1	50.3	50.5	57	58.1	49.4	45.4	58.9	52.6	49.7
357		11/19/2021	2:00:50 PM	60.7	77.7	60.6	58.2	90.6	3.6	50.0	53.9	55.7	59.1	48.6	44.2	61.9	53.4	49.9
358		11/19/2021	2:00:51 PM	51.0	65.4	59.4	56.1	90.6	8.1	49.5	51.2	55.5	56.8	48.5	44.0	45.8	40.8	47.2
359		11/19/2021	2:00:52 PM	49.5	60.7	56.1	53.2	90.6	8.5	50.5	53.3	57	55.7	48.1	43.7	40.2	37	46.4
360		11/19/2021	2:00:53 PM	50.1	62.1	53.2	51.6	90.6	8.6	49.9	52.9	54.6	55.4	49.4	43.8	39.9	37	46.7
361		11/19/2021	2:00:54 PM	50.4	62.1	51.6	50.8	90.7	8.1	48.6	52.6	54.8	57.3	49.7	44.6	39.9	37	47.3
362		11/19/2021	2:00:55 PM	48.7	60.7	50.7	49.5	90.6	10	49.8	53.8	52.2	57.4	49.7	43.0	40.2	37.4	45
363		11/19/2021	2:00:56 PM	48.0	69.1	49.5	48.6	90.6	10.6	53.6	52	55.3	56.5	49	45.1	43.3	42.7	42.1
364		11/19/2021	2:00:57 PM	48.1	60.7	48.8	48.1	90.6	10.8	50.6	54.6	55	56.4	49.6	44.4	41.1	38	44.3
365		11/19/2021	2:00:58 PM	44.9	56.7	48.1	46.4	90.4	14	49.9	53.3	55.9	55.9	48.6	44.1	40	37	39.4
366		11/19/2021	2:00:59 PM	44.1	59.7	46.4	45.1	90.6	15.1	48.8	54.9	56.5	57.3	50.2	43.1	39.5	36.6	37.3
367		11/19/2021	2:01:00 PM	45.2	59.7	45.3	45.0	90.6	13.2	45.1	56.8	57	56.1	48.5	43.4	39.9	36.7	37.7
368		11/19/2021	2:01:01 PM	47.7	67.8	47.5	45.2	90.6	11.8	47.7	55.3	56.5	57	48.5	43.4	42	39.8	41.1
369		11/19/2021	2:01:02 PM	46.8	65.7	46.9	45.9	90.6	11.1	51.4	55.7	57.7	56.8	48.7	44.1	39.7	38.5	40.8
370		11/19/2021	2:01:03 PM	47.0	59.7	47.2	46.7	90.6	11.2	48.8	54.3	54.8	56	47.9	43.3	40.1	38.5	42.1
371		11/19/2021	2:01:04 PM	47.2	74.3	48.1	46.8	90.7	11	48.3	53.5	53.7	56.8	48.1	44.6	39.5	38.6	42.1
372		11/19/2021	2:01:05 PM	49.2	72.9	49.3	46.9	90.7	9.6	49.7	55.7	53.3	56.1	48.6	44.8	40.1	39	42.3
373		11/19/2021	2:01:06 PM	51.0	73.1	50.7	49.3	90.8	8.2	52.3	53	55.9	57.2	48.3	43.9	42	42.4	47.4
374		11/19/2021	2:01:07 PM	48.2	69.0	50.2	48.9	90.6	10.9	49.2	54.9	55.7	57.2	47.8	43.6	40.1	38	43.6
375		11/19/2021	2:01:08 PM	49.6	62.7	49.6	48.9	90.7	8.4	48.9	55.6	56.9	56.7	49.8	43.7	40.8	38.1	45.9
376		11/19/2021	2:01:09 PM	51.8	65.4	51.4	49.6	90.6	6.6	50.6	54.2	53.2	56.7	49.4	44.4	40.4	38.1	48.7
377		11/19/2021	2:01:10 PM	53.0	66.2	52.8	51.5	90.6	6.1	44.9	54.4	54.1	56.3	48.9	42.9	40.3	40.2	49.9
378		11/19/2021	2:01:11 PM	54.2	66.9	53.6	52.1	90.6	5.1	49.1	53.5	55.9	55.8	49.1	43.3	40.2	36.8	51.2
379		11/19/2021	2:01:12 PM	55.2	68.4	55.0	53.2	90.6	6.6	50.4	53.1	55.6	57.8	48	43.9	40.7	37.3	52.6
380		11/19/2021	2:01:13 PM	57.1	72.6	56.6	54.9	90.6	3.6	48.8	61	61.1	57.1	49.8	45.9	41.8	39	54.3
381		11/19/2021	2:01:14 PM	56.1	68.3	56.8	56.1	90.6	4.1	48.8	54.4	56.3	57.3	51.1	45.9	40.6	44	52.9
382		11/19/2021	2:01:15 PM	56.7	72.1	56.8	55.6	90.6	4.6	48.7	52.5	55.1	58.4	48.5	43.5	41.2	45.3	53.3
383		11/19/2021	2:01:16 PM	52.6	64.8	56.6	54.6	90.6	7.5	48.2	54.4	55.8	59.2	48.9	43.4	40.5	43.1	48.9
384		11/19/2021	2:01:17 PM	53.3	67.7	54.8	53.5	90.6	7	48.4	55.4	53.3	59.7	48.5	43.3	39.8	44.2	49.6
385		11/19/2021	2:01:18 PM	54.9	70.9	54.9	52.8	90.6	6.6	48.0	57	55.3	58.4	50.1	45.3	41.9	46.1	50.9
386		11/19/2021	2:01:19 PM	49.8	62.1	54.5	52.0	90.6	9.6	46.7	54.9	58.8	58.7	49.4	43.6	40.2	43.2	45.7
387		11/19/2021	2:01:20 PM	47.5	62.1	52.0	49.8	90.6	10.4	47.0	54.2	55.7	56.7	48.4	43.1	39.7	43.4	41.7
388		11/19/2021	2:01:21 PM	53.7	69.6	53.2	49.5	90.6	6	44.4	54.4	54.1	55.4	49.9	44.4	41.8	46.5	49.2
389		11/19/2021	2:01:22 PM	48.8	62.1	52.6	50.7	90.7	9.8	50.2	52.7	54.7	57.4	49.5	43.2	40.1	37.1	45.3
390		11/19/2021	2:01:23 PM	48.8	65.1	50.9	49.4	90.8	9.8	47.9	54.3	54.7	57.1	48.4	43.7	42.3	41.1	44.1
391		11/19/2021	2:01:24 PM	48.3	60.7	49.4	48.7	90.6	9.9	49.9	54.9	52.4	58.1	49	44.0	42.8	38.9	43.3
392		11/19/2021	2:01:25 PM	46.8	58.4	48.7	47.6	90.6	11.8	48.1	53.4	53	56.7	49.7	43.9	40.6	37.1	42.1
393		11/19/2021	2:01:26 PM	50.5	68.7	49.8	47.6	90.6	7.6	47.7	53.5	53.7	57.4	47.8	44.6	43.2	42.6	45.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
394		11/19/2021	2:01:27 PM	49.1	73.9	49.6	48.7	90.6	9	49.0	52.8	53.6	55.1	49.2	43.5	41	37.2	44.9
395		11/19/2021	2:01:28 PM	47.9	60.7	49.6	48.5	90.6	9.3	48.4	53.2	54.1	54.5	47.4	43.8	40.8	38.3	44.1
396		11/19/2021	2:01:29 PM	48.8	61.5	49.2	48.3	90.7	8.5	51.2	53.1	55.7	54.5	49.2	43.7	39.7	37.8	44.8
397		11/19/2021	2:01:30 PM	48.1	63.2	48.7	48.3	90.7	10.1	50.1	53	56.1	55.3	48.1	43.0	42.4	40.8	43.2
398		11/19/2021	2:01:31 PM	52.6	78.9	52.0	48.3	90.6	7.6	50.3	52.9	55.7	57.4	50.6	44.1	44.7	44.5	47.3
399		11/19/2021	2:01:32 PM	56.9	86.1	55.5	51.5	90.7	3.3	48.3	55.9	56.3	55.3	51	44.6	46.4	52.3	50.4
400		11/19/2021	2:01:33 PM	51.3	73.8	55.4	53.0	90.6	7.8	50.7	53.5	55.3	56.2	49	44.1	42.3	45.8	45.6
401		11/19/2021	2:01:34 PM	55.3	83.2	55.0	52.3	90.6	5	46.2	53.3	55.2	57	50.5	44.9	44.7	44.8	51
402		11/19/2021	2:01:35 PM	51.6	79.7	54.4	52.8	90.7	7.6	50.9	54.1	56.9	57.2	50.4	45.3	43.1	43.1	45.2
403		11/19/2021	2:01:36 PM	54.5	89.5	55.3	52.0	90.6	5.2	52.4	51.7	55.9	57.8	49.6	45.4	43.5	44.1	45.9
404		11/19/2021	2:01:37 PM	47.0	67.1	53.3	50.5	90.7	12.3	50.0	52.7	55.7	55.7	48.7	44.6	42.2	38.7	40.8
405		11/19/2021	2:01:38 PM	46.8	59.7	50.5	48.6	90.6	13	48.2	52.4	55.5	57.2	47.7	44.7	40.6	39	40.9
406		11/19/2021	2:01:39 PM	49.2	71.9	49.7	48.4	90.6	9.8	51.6	53.9	56.5	58.6	48.3	44.5	43	42.9	43
407		11/19/2021	2:01:40 PM	47.6	62.1	48.7	47.7	90.6	11	46.9	53.8	54.7	57.5	51.2	44.2	41.1	40.9	42
408		11/19/2021	2:01:41 PM	46.6	60.7	48.5	47.2	90.6	12.7	50.2	53.2	51.5	57.8	50.3	44.2	41.2	41	40.5
409		11/19/2021	2:01:42 PM	48.0	62.7	47.8	47.2	90.6	11.9	48.8	48.8	55.2	58.5	50.7	45.2	41.6	41.6	42.2
410		11/19/2021	2:01:43 PM	51.6	67.5	50.6	47.8	90.6	8	49.1	51.7	55.9	57.1	49.5	46.5	45.5	47.2	45.9
411		11/19/2021	2:01:44 PM	48.3	62.7	50.4	49.1	90.6	9.7	49.3	55.7	54.5	56	49.3	45.6	43.4	43.7	41.9
412		11/19/2021	2:01:45 PM	47.3	59.7	49.1	48.0	90.6	10.3	50.2	51.3	54	55.2	49.3	45.4	43.2	42.2	41
413		11/19/2021	2:01:46 PM	47.3	60.7	48.2	47.4	90.4	11.2	46.8	55.4	54.5	56.3	49.1	45.2	42.7	43	39.7
414		11/19/2021	2:01:47 PM	47.9	70.1	48.0	47.0	90.6	11.2	50.4	54.4	52.3	58.2	49.3	44.4	43	41.5	41.5
415		11/19/2021	2:01:48 PM	47.0	58.4	47.9	47.3	90.4	12.2	52.1	53.7	55.1	57	50.2	44.3	42.3	42	39.9
416		11/19/2021	2:01:49 PM	48.7	63.2	48.3	47.3	90.6	11.1	49.3	52.9	55.2	57.7	49.7	46.4	43.8	43.5	41.6
417		11/19/2021	2:01:50 PM	48.2	59.7	48.3	48.1	90.6	12.2	50.3	55.4	55.2	59.2	51.2	48.0	44.4	42.7	40.6
418		11/19/2021	2:01:51 PM	48.2	59.7	48.5	48.1	90.4	11.6	51.7	51.8	55.5	58.5	49.3	46.9	44.4	43.1	41
419		11/19/2021	2:01:52 PM	46.6	56.7	48.1	47.3	90.7	13.1	49.0	56	55.5	59.5	49.8	46.2	42.9	41.3	38.8
420		11/19/2021	2:01:53 PM	47.0	59.7	47.3	46.8	90.6	12.2	46.3	53	56.2	58.4	49.6	46.0	42.9	40.8	40.1
421		11/19/2021	2:01:54 PM	47.1	59.7	47.3	47.1	90.6	12.4	48.3	52.8	54.4	56.9	49.4	45.7	43.6	40.6	40.5
422		11/19/2021	2:01:55 PM	47.3	60.7	47.6	47.0	90.6	11.7	51.3	52.6	54.4	57.9	49.7	46.1	44.2	42.4	38.8

42.9	35.5	28.6	53	57.1	59.1	59.2	55.9	48.2	47.2	46.9	45.9	43.4
44.7	35.1	28.5	52.7	56.7	59.7	59	54.4	47.2	45.7	47	48.1	46
38.8	31.9	28.5	52	55	59.9	58.3	53.2	46	44.3	47.1	45.3	42.9
44.4	36.9	28.4	52.3	53.9	58	57.6	51.5	45.5	42.9	46.6	47	44.7
42.6	31.1	28.4	51.8	53.9	56.9	57.7	51.2	44.9	42.5	45.5	47.9	45.7
36.4	26.8	28.4	51.2	52.4	57.1	57.8	51.2	44.8	42.1	43.4	45	42.9
41.2	29.3	28.5	51.7	56.7	57.7	58.1	50.4	44.4	41.3	41.2	43.1	41.5
36.5	27.6	28.4	54.6	55.9	56.8	58	49.5	44.4	40.9	40.2	42.4	40.7
39.3	27.6	28.3	54	54.2	55.9	58	49.7	45.3	41.7	38.9	42.5	39.3
35.8	28.3	28.4	53.9	55.3	55	58.2	53.1	45.5	41.9	38.1	42.7	39.1
35.1	27.4	28.4	53.2	53.9	55.6	57.5	51.5	45.5	47.7	39.9	40.9	37.4
33.4	26.4	28.4	52.8	52.3	56	57.4	50	45.3	46.6	39.3	39.1	35.6
33	26.6	28.4	52.1	53.9	56.2	57.3	51.3	44.3	44.2	38.3	39	34.5
33.4	26.9	28.4	52.1	53.9	56.1	57.3	51.8	44.5	42.9	39.1	38.5	34.3
34	28.1	28.4	51.8	53.1	56.5	56.6	51.5	44.6	52	51.1	42.1	34
34.3	26.7	28.4	51.8	58.4	57.2	56.8	51.6	45.1	54.4	51.5	41.7	34.4
33.6	27.5	28.4	50.8	58.4	57.3	60.2	51.5	45.8	54.2	53.3	41	34.5
35.7	27.2	28.4	51.9	56	56.5	63.5	51	46.7	55.7	54.5	43.3	35.4
34.1	27	28.3	53.5	55.3	56	64.3	51.6	46.7	55.7	54.4	43.2	35
33.7	26.3	28.4	52.9	54.7	55.5	65.5	51.5	46.4	52.1	50.9	41.6	34.5
33.6	26.5	28.3	52.5	53.1	56.8	65.5	51.2	45.6	55.6	52.6	40.4	34.7
39.8	28	28.4	49.9	53.5	56.2	64.1	50.3	45	55.8	53.4	42	38.6
32.6	26.5	28.3	48.7	54.2	57.4	63.5	51.1	45.1	53.3	51.2	41.9	38.5
33.9	27.2	28.4	48.4	52.9	57.3	61.8	51.3	44.8	58.1	50.9	44.1	35.6
37.3	28	28.4	48.3	55.5	57.9	60.5	53.1	51.2	58.9	52.9	44.1	36.8
36.2	26.8	28.3	47.7	55.3	59.4	59.9	53.1	51.1	56.9	51.6	43.8	37.5
35	28	28.4	47.6	55.6	59.6	58.8	50.9	48.4	52.9	47.8	41.9	36.7
35.7	27	28.4	50.5	54.7	58.8	58.9	49.8	46.5	49.2	44.7	40.3	36
40.8	29.1	28.3	49.9	54.3	58.4	58.7	49	45.6	58.8	54.4	46.8	39.6
43	30.6	28.4	49.5	53.9	59.1	58.4	50.4	46.3	59.4	54.1	46.3	42.1
40.7	28.3	28.4	48.9	54	59.1	58.2	51.2	47.7	56.7	51.5	46.2	42.3
35.2	26.7	28.3	50	53.9	59	58.8	50.6	47.8	53	48.8	45.6	41
35.3	27	28.3	49.7	53.6	58.6	58.8	50.9	47.7	49.4	46.3	44	38.3
34.7	26.6	28.3	49.6	54.4	58.9	58.9	51.3	48.6	46.8	45.4	43.3	36.6
34.8	26.6	28.3	49.3	54.8	57.7	58.7	51.3	48.2	45.2	44.6	42.3	35.5
37.2	26.9	28.4	50.1	55.2	58.5	58.6	50.7	47.1	44.1	43.1	42	36.6
38.5	27.2	28.3	49.6	55.3	58.9	58.8	50.2	46.9	42.7	41.8	42.3	37.9
42	28.2	28.4	48.3	54.7	57.1	58.7	50.2	45.7	42.8	41.8	45.3	41.1
40.4	28.4	28.4	49.9	54.4	56.8	59.1	49.6	45.6	41.6	40.9	45.3	41.2
45	31.6	28.3	50.3	53	56.8	58.9	49.3	45.6	58.6	52.2	49	43.9
43.8	30.4	28.3	51	53.6	56.9	59	49.3	45.3	61.5	53.9	50	44.1
43.4	29.9	28.4	50.4	53.2	56.8	58.9	49	44.6	60.3	52.6	49.4	44.2
41.4	29.1	28.3	51.2	53	56.6	57.8	48.8	44.4	56.2	48.7	48.1	43.5
42.9	29.4	28.3	50.1	53.1	56.5	56.6	49.2	44.2	52.2	44.9	47.4	42.9
42.5	28.8	28.3	50.2	53.8	55.6	57.1	49.7	44.4	48.3	41.7	47.6	43.1
40.6	29.7	28.5	50.3	54.3	54.8	57.3	49.8	44.2	45	39.4	47.1	42.5
38.3	27.9	28.5	52.9	53	55.2	57.1	49.7	45	44.1	42.8	45.7	41.4
38.9	27.6	28.4	52.3	54.4	55.4	57.3	49.7	44.7	43.1	41.3	44.6	39.9
34.1	27.9	28.4	51.3	54	56	56.6	49.5	44.7	42	39.7	43.8	39
34	30.7	28.8	50.8	54.6	56.6	57.2	50	44.3	40.8	38.2	41.5	36.6
37.5	36.5	29.8	49.6	56.3	57	56.9	49.7	43.6	40.1	37.3	39.5	36.8
40.5	38.1	30.5	48	57.1	57	57.1	49.1	43.6	41.7	39.4	41	40.4
40	33.3	29.9	51	56.1	57.6	57.6	49.1	44	41.1	38.8	40.8	39.9
39.3	32.2	29.4	50.3	56.1	57.3	56.6	48.6	43.9	40.5	38.9	41.8	39.9
38.9	35.5	29.8	49.3	54.5	55.9	56.9	48.4	44.3	40.3	39.7	43.3	40.3
42.2	36	31.1	49.5	55.4	54.9	56.9	48.6	44.7	40.2	38.8	42.4	42
44.5	35.5	30.2	52	55.4	55.6	57.2	48.6	44.8	41.9	41.6	46.4	43.8
41.4	33.3	29.2	51.3	54.9	55.9	57.9	48.5	44.3	40.8	41.1	45.9	43.3
42.5	31.4	28.7	50	55.8	56.9	57.3	49.3	44.3	40.9	39.8	45.9	42.7
45	31.2	28.5	51	55.4	56.7	56.8	49.5	44.3	40.7	39	48.1	44.5
46.3	32.4	28.8	49.9	55.2	55.2	57	49.6	44.1	40.6	40.2	49.8	46
47.7	33.5	28.4	48.7	55.1	55.8	56.9	49.5	43.6	40.5	39.1	50.6	47.1
47.9	33.5	28.4	50	53.9	56	57.6	49.4	43.8	40.7	37.8	52.3	47.9
50.6	35.6	28.7	49.7	60.6	60.2	57.7	49.5	45.8	41.6	38.8	53.9	50
49.7	34.3	28.6	50.3	59.8	59.3	57.7	50.7	46.4	41.6	42.7	54	50.4
50.5	38.4	28.5	49.2	57.1	57.6	58.4	50.3	45.5	41.4	44.7	53.5	50.5
46.1	31.3	28.4	49.1	55.1	56.4	59.2	49.6	44.4	41.2	44.5	53.2	50.3
46.9	31.8	28.4	49	55.4	56	59.7	49	43.7	40.6	44	51.4	48.7
48.1	38	28.7	48.9	56.9	55.6	59.2	50.1	45.1	41.7	45.9	51	48.4
41.8	29.7	28.7	48.2	56.3	57.8	59.4	50.1	44.8	41.4	45.4	50.6	47.8
37.1	28.4	28.5	47.5	55.5	58	58.6	49.7	44.2	40.7	44.2	48	44.8
47.1	37.8	28.4	47.3	56.4	56.3	57.6	50	44.4	41.6	45.8	48.7	46.5
40.6	29.1	28.5	49.8	54.3	55.2	57.5	50.3	44.5	41.4	45.7	48.1	45.7
40.3	32.4	28.5	49	54.1	55.9	57.6	49.7	43.9	42	42.8	47	43.4
40.5	31.7	28.8	49.7	54.9	54.5	58.1	49.3	43.9	43.2	41.4	44.9	41.5
38.6	28.6	28.4	49.5	54.9	53.3	57.4	49.6	44	42.2	39.9	44.1	40.9
43.3	33	29.1	48.6	55	54.1	57.5	49.4	44.4	42.9	42.1	44.9	42.3

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
42.8	30.5	28.4	49.5	54.2	53.9	57.4	49.1	44.3	42.5	41.3	45.2	43
39.3	27.3	28.3	49.1	53.8	54.5	56.5	48.9	44	41.9	39.3	45.3	42.9
41.6	28.7	28.3	50.6	53.6	55.2	55.4	49.1	43.9	41.1	38.8	45.4	42.3
39.8	30.7	28.9	50.6	53.9	56.2	55.7	49.2	43.9	42	40.2	44.7	41.2
45.5	38.6	30.8	50.7	53.4	56.2	56.9	50.2	44.1	44.6	44	46.7	44.9
49.1	44.7	31.8	50.3	55.9	57	56.9	50.8	44.6	46	50.9	49.6	48.2
43.9	35.6	29.4	51.1	55	56	56.3	50.5	44.4	45.2	49.9	48.9	48.1
48.2	39.6	30.5	50.3	53.8	56	57.1	50.5	44.8	45	47.4	50.4	48.2
46.1	40.3	32.4	51	55	56.9	57.2	50.4	45.3	44.8	46	49.5	47.8
50.3	47.9	33.4	52	53.6	56.6	57.9	50.4	45.5	44.4	45.3	47.9	50.7
40	28.8	28.4	52	53.3	56.3	57.8	50.1	45.2	43.7	44	46.2	48.4
39.8	27.9	28.2	51.4	52.6	56.6	57.6	49	44.9	42.6	41.5	43.6	45.1
42.1	33	28.9	51.2	53.7	56.5	59.1	48.7	44.9	42.6	42.5	43.8	43.4
40	29	28.5	51.3	54.1	56.4	58.1	50.5	44.7	42.2	41.7	42.6	42.1
36.5	26.6	28.3	50	54	55.3	58	50.8	44.4	41.6	41.6	42.9	41.4
39.7	28.8	28.6	50	53.9	55	58.6	50.9	45.1	41.7	41.5	42	39.7
40.4	29	28.5	49.6	52.1	55.8	58.3	50.6	46	44.5	46.1	45.1	40.6
36.4	28	28.3	50.1	55.1	55.8	57.9	50.1	46.3	44.3	45.9	44.4	39.8
35.7	28.1	28.5	50.5	54.7	55.2	56.7	49.8	45.8	43.8	44.6	43	38.1
35.2	27.6	28.4	50.5	54.6	55	56.6	49.4	45.6	43.5	43.8	41.8	37.2
39.3	34.3	29.5	50.2	54.8	54.3	57.8	49.5	45.3	43.2	42.9	41.6	38.9
35.8	31.2	29.1	51.8	54.9	55	57.5	49.9	44.9	42.9	42.5	41.4	38.7
39.6	30.7	28.7	51.3	53.5	55.3	57.7	50	45.9	43.5	43.2	41.4	39.3
36.6	28.1	28.4	51.2	55.4	55.6	59	50.8	47.4	44.1	43.1	41.2	38.5
37.2	32	29.5	51.4	54.2	56.2	59	50.8	47.6	44.4	43.2	41.2	37.8
34.1	28.3	28.5	51.3	55.2	56.3	59.3	50.3	47.1	44.1	42.7	40.9	37.3
36.6	27.3	28.3	49.6	54.8	56.4	59.1	50.3	46.4	43.5	41.9	40.4	36.8
35.9	26.7	28.3	48.7	54.1	55.7	58.8	49.6	46.3	43.6	41.2	40.7	36.8
35.2	31.5	29.4	50.7	53.4	55.9	58.4	49.8	46.2	44	41.9	40.6	37.2

35.5	28.6	51.7	54.6	57.8	58.7	54.4	47.2	45.7	45.6	42.6	37.4	30.6
37.1	28.6	51.4	55	58.6	57.9	53.2	46	44.3	46	45.3	42.9	34.3
34.3	28.5	50.9	53.7	58.1	56.7	51.6	45.5	42.8	46.6	43.3	40.9	32.8
37.1	28.5	51.3	52.9	56.5	56.1	50.8	44.6	41.4	44.8	41.2	38.6	30.4
37.3	28.5	50.4	52.3	55.8	56.1	50.6	44.3	41.7	43.4	45	42.9	34
34	28.5	49.7	50.8	55.4	57.1	50.2	44.4	41.3	41.2	42.7	40.1	31
30.9	28.5	49.7	50.5	56.2	57.4	48.9	44	40.9	40.2	42.3	39.7	29.6
30.2	28.4	50.2	54.2	55.6	57	48.8	44	40.4	38.8	41.9	38.6	28.8
28.8	28.4	53.3	53.6	55	57.2	48.6	44.4	40.8	38.2	41.6	38.5	28.1
28.6	28.4	52	53.3	54.3	56.8	49.9	44.8	41.4	37.6	40.9	37	27.8
28.3	28.4	51.5	52.3	54.2	56.2	50	44.7	41.3	37.4	38.9	35.6	27.6
27.6	28.4	51.3	50.6	54.6	56.1	49.3	44.1	44.2	38.2	38.3	34.4	26.9
26.9	28.4	51.1	50.8	54.9	55.9	49.3	43.9	42.9	38.1	38.3	33.5	26.6
27.1	28.4	51.3	52.2	55	56.3	51.1	44	41.6	38.2	37.6	33.2	26.7
28	28.4	50.4	51.4	55.7	55.7	50.7	44.1	41.3	38.9	37.3	32.7	26.6
28	28.4	50	52.7	56	56.3	50.6	44.4	49.7	47.7	40.1	33.4	27.3
28	28.4	49.2	56.1	55.9	56.7	50.8	44.9	51.1	50.4	40.2	33.8	27.2
27.3	28.4	49.2	54	55	59.5	50.2	45.7	49.3	49.1	40.2	33.8	27
27.3	28.4	51.7	53.8	55	63.3	50.9	46.3	52.1	50.9	41.4	33.9	26.9
27.1	28.4	51.3	51.8	54.6	63.8	50.9	45.7	48.5	47.4	40.5	33.4	26.6
26.6	28.4	49.8	51.8	55.2	63.8	49.8	44.6	46.5	45.7	39.6	33.5	26.5
27.5	28.4	48.7	52.7	55	62.9	49.3	44.4	53.3	51.2	40.1	33.6	26.6
27.5	28.4	47.2	52.8	56	61.9	50.3	44.7	49.4	47.3	39.3	35.6	26.9
27.3	28.4	47.6	51.6	56.4	60	50.4	44	46.7	44.7	38.3	33.9	26.6
28	28.4	46.9	51.6	56.5	59.6	50.6	43.5	56.9	50.6	43.5	34.9	27
27.9	28.4	46.4	53.7	58	58.7	50.7	48.4	52.9	47.9	41.9	36.1	27.2
28.3	28.4	46.1	54.7	58.5	58	49.8	46.4	49.2	44.8	40	35	27.1
27.3	28.4	46.9	53.9	57.4	58	48.3	45.5	46.3	43.6	39.7	34	27.1
28.6	28.4	49.2	52.8	56.5	58	48.4	45.2	45.2	43.4	40.3	36.1	27.1
30.3	28.4	48.2	52.8	57.9	57.6	49	45.5	56.7	51.5	45.8	39.7	28.3
30.3	28.4	47.4	52.4	58.2	57.3	50.2	46.2	53	48.8	45.6	41	29.1
29.1	28.4	48.5	52.1	57.7	57.8	50.3	47.1	49.5	46.3	43.7	38.3	27.7
27.7	28.4	48.9	52.3	57.6	57.7	50.2	46.9	46.8	45.3	43.3	36.6	27.3
27.3	28.4	48	53.5	57.4	57.8	50.9	47.7	45.2	44.6	42.4	35.5	26.8
26.8	28.3	48.3	54.2	56.8	58	50.3	46.6	44.1	43.2	41.5	34.7	26.6
26.8	28.4	47.9	54	56.8	57.9	50	46.4	42.7	41.8	41.6	35.2	26.7
27.1	28.4	48.3	54	56.9	57.8	49.7	45.7	42.2	40.8	41.6	36.7	26.8
27.9	28.4	47.1	53.6	56.2	57.1	49.3	44.8	41.6	40.7	42.3	37.9	27
28.4	28.4	47.2	52.9	55.3	56.9	48.8	45.1	40.6	39.4	44.1	39.9	27.7
30.7	28.4	49.3	51.3	55.9	58.2	48.9	45.1	40.2	38.8	45.3	41.1	28.4
30.8	28.4	49.6	51.5	56	58.1	48.8	44.6	58.7	51.8	48.8	43	30.2
30.6	28.4	48.8	51.8	55.3	57.7	48.2	44.2	56.3	48.7	48.1	43.5	30.1
30.1	28.4	49.6	51.5	55.4	56.5	48.3	43.6	52.2	44.9	47.1	42.3	29.1
29.7	28.4	48.8	52	55.3	55.6	48.3	43.8	48.4	41.7	46.5	42	29.1
29.6	28.4	49.2	52.5	54.9	55.9	49	43.8	45.1	39.4	46.9	42.5	29.1
29.7	28.5	48.5	52.2	53.4	56.6	49.5	43.5	42.7	38.3	45.7	41.4	28.6
29.7	28.5	49.3	51.9	53	56.3	49	43.5	41.8	37.9	43.8	39.7	28.6
28.5	28.5	51.4	52.5	53.8	56.4	48.9	44.1	42	39.5	43.8	39	28
28.1	28.4	49.8	52.9	54.7	55.9	48.7	44.1	40.8	38.2	41.6	36.6	27.6
29.9	28.7	49.3	53.1	55.7	55.9	49.1	43.6	40	37.3	39.5	35.2	28.1
35.2	29.5	47.4	54.4	56	56.1	48.9	43.4	39.7	36.8	38.4	35	29.8
38.7	30.6	46.8	55.4	56.3	56.2	48.6	43.1	40	37.1	38.5	36.8	35.1
36.3	30	47.9	54.9	56.8	56.5	48.4	43.6	40.3	37.9	39.2	38.2	34.8
34.8	30	48.9	54.5	55.9	55.8	48.1	43.5	39.9	38.3	40.7	39.5	33.4
36.4	30.5	47.9	53.4	54.7	56.2	48	43.5	39.8	38.3	41.4	38.8	33.3
36.2	31.1	48.4	54.2	53.8	56	48	44.1	39.7	38.2	41.3	39.1	33.1
36.5	31.1	49.5	53.9	53.8	56.4	48	44.1	40	38.8	44.1	42.5	34.3
35.9	30.6	50	53.6	54.3	56.7	47.8	43.9	40.3	39.3	44.4	41.9	34
34.9	29.8	49.2	54.3	54.9	56.4	47.8	43.6	40.5	38.6	44.4	41.9	33
33.1	29.2	49.2	54.7	54.8	56	48.8	43.4	40.3	38.1	45.9	42.7	31.9
32.7	28.9	47.2	54.1	54.2	55.5	49	43.4	40.2	38	48.1	44.5	31.8
33.2	28.7	46.9	53.7	54.2	56.2	48.5	43.2	40.1	37.8	48.9	45.5	31.9
33.6	28.5	48.8	53	54.9	56	48.4	43.2	40.2	37.2	50.1	46.7	32.6
35.2	28.6	48	53	54.9	56.9	48.2	43.6	40.3	37.5	52.1	47.8	33.4
35.6	28.7	48.7	57.2	57.6	56.9	49.5	45.3	40.8	38.9	53	49.6	34.4
38	28.6	47.5	54.9	56.3	56.9	49.3	44.4	40.5	42.7	52.6	48.8	33.8
37.4	28.5	47.8	54.5	55.8	58.1	48.9	43.7	40.6	43.6	51	48.1	34.7
34.7	28.4	47.7	54.5	54.2	58.7	48.3	43.3	40	43.6	49.9	47.1	32.9
37.7	28.7	48.1	54.6	54.4	58	48.4	43.4	40.2	44	49.1	46	31.9
36.6	28.7	46.7	55.1	54	58.6	49.5	44.1	40.7	44.2	48	44.9	33.6
33.5	28.7	46.8	54	56.4	57.4	48.9	43.5	40.1	43.7	45.2	41.7	31.1
37.4	28.5	45.5	54.1	55.1	56.3	48.3	43.1	40.1	43.7	44.6	41.1	30.3
36.1	28.5	46.1	53.2	54.4	56.2	49.4	43.5	40.3	42.4	46.5	43.4	33.2
33.9	28.6	47.4	53.2	54.5	56.6	48.7	43.5	40.5	41.5	45	41.5	32.5
33.1	28.7	47.9	53.4	53.2	56.9	48.9	43.6	41.4	39.9	44	40.8	31.8
31.8	28.6	48	53.4	52.7	56.9	48.8	43.6	41.2	38.2	42.9	39.4	30
32.3	29	47.2	53.6	52.5	56.8	48.4	43.9	41.1	38	43	39.7	30.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
31.7	28.7	48.3	52.4	53.1	56	48.4	43.8	41.2	39.2	43.9	41.2	30.3
31.2	28.6	48.2	52.9	53.7	55	48	43.7	41.2	38.6	44.2	40.9	29.2
29.4	28.4	48	52.7	53.8	54.5	47.8	43.6	40.3	37.9	44.3	40.8	28.8
30.4	28.7	49.2	51.7	54.6	54	48.3	43.2	40.4	38.4	43.7	40.4	28.5
37.5	30.2	50.1	52.7	55.3	54.7	48.3	43.2	41.4	39.9	43.7	40.4	30.4
44.3	31.4	48.4	52.5	55.7	55.8	49.7	43.9	44.1	43.7	46.1	44.3	37.1
44.2	31.3	48.6	53.8	55.2	55.9	49.5	44	43.6	47.4	46.8	45.7	40.8
41.2	30.6	48.2	52.8	55	55.8	49.6	44	43	46	46.1	45	39.8
41.2	32.3	48.3	53	54.9	56.3	50.1	44.7	43.6	44.5	47.3	46.6	39.8
47.8	34.1	49.3	52.4	56	56.6	49.8	44.8	43.1	43.9	46.2	45.7	38.9
45.1	32.3	50.6	52.2	55	56.6	49	44.8	42.6	41.5	43.6	45.1	41
41	30.3	49	51.9	55.4	56.6	48.2	44.6	41.4	40.1	42	42.5	37.1
37.1	29.1	48.2	51.7	55.3	56.9	47.8	44.3	41.3	40	42.1	41.6	34.9
34.9	29	48.9	53.1	55.4	57.3	48.3	44.3	41.6	40.9	41.3	40.3	32.3
32.3	28.7	48.3	52.8	53.3	56.9	49.8	44.1	41.2	41	41.1	38.8	29.6
29.6	28.6	49.1	51.4	52.9	57.2	50.2	44.1	41.2	40.8	40.9	38.8	28.6
29.6	28.6	48.4	51.2	54.1	57.3	49.9	45.1	41.7	41.5	41.7	39.3	28.9
29.1	28.5	48.7	51.3	54.8	56.5	49.4	45.5	43.7	44.6	43	38.1	28.5
28.6	28.5	48.7	52.7	54.2	55.6	49.1	45.3	43.2	43.3	41.8	36.6	28.2
28.3	28.5	48.1	53.2	53.9	55.2	49	45.2	42.9	42.8	40.4	35.5	27.7
33.4	29.2	47.4	54	52.9	55.6	49.1	44.6	42.8	41.9	40.2	35.5	27.9
33.2	29.2	50	53.6	53.3	56.7	49.1	44.4	42.5	41.9	40.5	37.1	31.9
32.3	29.2	50.2	52.6	53.5	57.2	49.5	44.6	42.5	41.9	40.2	36.9	31.2
31.2	28.8	49.8	53.5	54.5	57.8	49.8	45.8	43.4	42.6	40.6	37.2	29.5
32	29.5	50.1	52.8	55.2	58.3	49.8	46.9	44	42.7	40.5	36.7	28.8
31.4	29.2	49.6	52.7	55	58.4	49.7	46.4	43.4	41.9	39.7	35.5	29.6
29.6	28.7	47.9	53.7	54.5	58.2	49.4	46.1	43	41.3	38.9	34.8	28.4
28.4	28.5	46.9	53	54.5	57.1	49.4	45.8	43.1	40.7	40.2	36.1	27.4
31.4	29.3	48.9	52.5	54.3	57.8	49.4	45.7	43.4	40.9	39.2	35	27.4

28.5	48.6	45.2	48.8	50.6	51.3	47.9	57.9	50.6	54.6	55.1	55.2	50	47.3	51.6
28.5	47.8	47.7	47.6	51.7	54.3	49.4	54	51.7	58.2	54.9	51.9	52.8	47.2	50.2
28.5	47.7	47	40.8	52.1	50.9	48	54	52.4	54.3	53.7	50.6	49.8	45.8	48
28.4	46.8	49.7	44	48.6	46.8	49.2	55.5	49.7	50.8	53.5	52	48.8	45.2	48.6
28.4	39.6	50.1	45.8	48.4	47.7	48	52.7	49.7	49.6	55.2	50.6	49.6	45.5	48.6
28.4	47.9	44.5	42.7	46.9	48.1	48.1	53.3	50.2	50.6	53	52.1	49.4	44.4	47.3
28.4	48.5	47	47.6	42.7	45.8	53.8	54.8	50.2	50	56.7	51.3	49.6	42.3	44.1
28.4	43.9	45.6	50	48.2	51.5	50.2	49.8	47.1	53.1	54.4	50.6	49	46.7	44.7
28.4	46.5	47	48.9	49.6	48.4	45.4	52.6	48.6	51.2	56	51.8	46.5	45.2	43.1
28.4	46.5	50.4	47.5	51.2	46.4	46.6	52.1	48.1	52.5	56.2	49.2	47.6	45.3	51.8
28.3	48.8	50.5	43.5	51.2	51.8	45.6	52.4	48	52.9	54.6	49.2	48.6	44.1	43
28.3	44.1	50.7	50.4	46.8	45.3	43.5	48.2	49	53.3	55.2	51.1	47.6	44.9	45.7
28.3	45.7	47.2	41.3	47.9	44.8	45.3	52	46.3	53.5	54.3	51.9	50.3	46.9	46.9
28.4	45.6	46.1	48.9	46	49.7	47.7	49.9	49	53.3	52.8	50.2	50	50.3	46.1
28.3	48.5	46.8	48.2	50.7	48.1	45.6	52.5	49.8	52.5	52.4	50.3	49.6	47	46.1
28.4	45.6	46.9	42.6	45.2	48.5	47.6	48.3	52.2	54.2	53.5	52	51.1	49.8	44.8
28.4	45.7	45.7	46.7	50.8	51	50.9	52.1	49	53.9	56.8	57.7	49.9	48	45.7
28.4	48.2	45.6	49.8	53.1	55.9	47.3	50.8	50.5	50.3	59.5	54.3	49.4	46.9	46.4
28.3	44.1	46.7	46.2	47.6	47.2	50.7	51.3	51.5	51.6	65.2	52.7	53.1	48.8	44.7
28.3	42.8	43.5	49.1	46.3	51.6	49.2	50.2	49.6	51.6	61.2	63.1	51.1	48.6	47
28.3	48.2	47.8	45.2	46.8	42.2	46.7	52.8	49.8	50.3	59.3	62	49.8	46.2	44.2
28.3	47.5	48	45.9	48.9	44	49.4	53	47.3	51.1	62.4	51	49.3	48.2	42.7
28.3	44.7	47	44.5	49.5	47.9	47.2	52.3	51	51.9	59.5	51.3	48.6	49.4	45.4
28.3	40.2	41.7	46.1	51.8	48.3	47	52.9	52.1	51.8	57.3	50.7	49.6	50.6	43.5
28.4	37	40.7	45	44.9	43.5	47.1	51.3	48.7	55.4	58.3	49.5	50.8	51.5	45.2
28.3	40.1	42.4	44.3	47.6	50.6	50.3	49	56	56.3	57	52.2	52.7	48.4	44.6
28.4	37.5	42.1	43.9	52.1	50.7	46.2	50.5	54.5	55.7	56.7	50.8	48.2	46.9	43.6
28.4	38.8	37.2	47.5	53.3	50	47.4	50.6	49	55.6	56.6	49.8	48.1	43.2	41.7
28.4	42.4	43.8	45.1	50.2	49.7	46.7	53.4	47.6	53.9	57.7	49.2	47.8	45.6	44.3
28.3	41	46.3	45	45.4	49.5	48.2	52.3	48.4	56.5	55.7	52.2	50	46.9	45.6
28.4	41.4	44.9	40.9	46.9	50.6	49.9	53.8	51.9	56	54.2	52.7	50.1	48.9	45
28.3	44.6	41.1	48.1	45.2	47.4	48.3	48.2	54.3	54.1	54.1	53.7	53.6	46.7	44.9
28.3	44.6	44	47.3	47.5	49.7	42.9	49.2	51.3	56.5	53.5	54.2	53.4	48	46.3
28.3	39.3	42.2	48.3	49.7	49.2	48.3	52.4	51.5	57	54	54.7	52.6	49	45.6
28.3	40	41	46.4	48	51.7	50.5	50.7	50.2	54.8	54.4	54.3	52.7	47.3	45.6
28.3	35.5	41.4	44.2	49.7	50.7	48.6	50.7	50.6	55.7	55.2	49.7	52.4	46.6	44.8
28.3	38.1	41.9	44.1	47.4	52.4	50	52.8	51.7	51.7	54.2	54.4	51	46.5	43.6
28.3	43.5	46.3	42.4	47.4	51.8	48.1	49.2	53.4	53.2	54.7	51.3	50.2	46	44.9
28.4	42.2	47.1	44.7	48.6	49.1	45.5	47.5	48.9	52.4	57.6	53.3	48.6	45.9	44.3
28.3	38.9	40.4	48.2	50.5	46.1	44.7	51.1	51.3	51.8	55.2	53.5	49.7	45.4	43.8
28.3	37.6	44.9	48.4	48.8	44.4	48	52.4	51.9	50.9	54.9	55.3	48.8	46.3	42.4
28.3	43.5	42.7	44.8	49.3	49.6	48.2	50.3	51.8	52.1	56	52.4	48.9	45.7	41.9
28.4	45.7	43.5	45.5	47	48.3	49.2	48.6	53	51.5	54.1	51.7	47.6	46.5	43.6
28.3	43.4	40.5	44.7	42	47.8	46.5	49.6	51.7	49.8	52.4	47.5	46.3	46	43.6
28.3	48.3	39.8	44.6	47.6	47.9	48.9	49.5	52	50.8	55.5	51	47.4	48.1	43.1
28.3	48	43.5	47.1	47.1	51.1	47.3	47.9	48.4	50	52.8	52.8	49.4	47.8	43.9
28.5	44.8	45.6	44.3	48.8	49.5	43.9	47.6	48.6	52.3	53.7	51.6	49.1	44.9	43.8
28.4	36.1	46.2	47.2	47.2	46.4	49.3	50.6	46.4	51.7	53.2	53.2	49	46.8	44.7
28.4	45.8	50.2	48.6	51.5	47	48.7	50.3	50.4	51.5	52.6	52.8	47.2	43.8	44.3
28.4	49.5	43.6	47.2	47.2	50.4	50.3	51.2	53.7	52.5	52.9	51.4	48.9	49.1	43.8
28.7	43.5	41.9	41.7	46.6	51.8	51.3	51.7	50.2	52.4	53.2	51	49.9	46.5	44.6
29.6	44.7	43.9	42.3	49.5	52.5	52	49.2	51.5	51.9	55	53	47.6	46.7	42.6
29.5	46.4	40.7	49.3	49.2	53.2	50.5	52.4	52.6	51.6	54.1	49.8	48.6	46.5	43.3
29.6	37.4	40.6	47.8	45.1	52.3	51.3	49.5	50.8	51.8	53.5	50.3	46.9	43.5	44
29.5	42.9	43.6	44.6	50	50.2	47.2	46.7	48.4	49.5	53.4	53.4	48.9	44.7	42.8
29.2	43	41.7	46	46.6	49.7	48.6	50.5	48	48.5	53.2	51.3	48.4	46	44.6
30.1	39.4	42.2	47.7	45.6	52.5	48.2	50.5	52	50.1	54	51.2	49.3	44.5	42.5
29.8	40.5	47.2	47	50.6	50.5	51.3	51.5	49	48.6	55	53.2	50.2	45.7	43.1
29.2	39.6	46.8	42.5	45.4	49.4	48.7	51.7	52	52.3	54	50.6	49.9	49.1	43
28.8	45	45.7	47.1	52	52.1	48.9	49.5	51.5	50.1	53.4	49	49	47.4	42.4
28.7	43.1	45.7	46.6	49.1	49.3	48.6	50.7	49	46.5	52.2	50.5	48.2	49.4	43.3
28.5	44.1	43.3	40.3	50.6	49.6	46.1	49.2	51	51.5	54.7	51.3	46.8	46.4	42.4
28.4	44.2	43.1	47.1	52.3	48.3	47.5	49.4	51.4	49.9	54.5	49	47.8	46.3	43.7
28.4	35.6	44.8	45.9	49	49.7	52	57.5	55.7	50.4	56.3	52.7	49.5	45.2	46
28.6	38.2	47.3	46.1	46.6	55	59.2	54.4	50.3	51.5	54.5	52.6	46.1	46.9	48.3
28.5	35.2	46	39.5	45.1	51.4	47.3	48.3	52	49.2	55.9	49.7	49.8	44.4	44.4
28.4	41.8	41.8	42.6	47.8	50	46.8	52.3	49.3	50.1	57.8	52.9	50.1	46.5	44.5
28.4	44.9	38.4	38.1	48.9	50.2	49.2	53.7	49	47.9	59.2	51.5	47.8	45.1	43.9
28.3	45.9	45.7	42.3	49.1	53.3	52.9	51.8	48	50.2	54.5	52.3	50.2	46.5	43.7
28.5	44.3	41.8	41.8	48.7	52.1	50.2	50.6	53.2	52	58.4	52.9	49.6	46.5	44.7
28.5	46.2	45.8	43.6	48.1	51.8	49.9	52.9	49.8	51.5	53.7	51.5	47	46.3	44.9
28.4	38.6	43.1	40.3	45.9	48.5	51.6	48.8	45.8	50.4	53.1	52.6	48.7	45.8	45.3
28.4	41.4	40.6	46.3	49.3	52.7	48.5	51.1	48.8	50.5	55.1	51.1	47.4	45.4	47.1
28.5	40.8	42.8	47.3	48.4	45	48.4	52	47.4	50.9	54.4	50.9	49.6	45.8	42.7
28.4	36.7	41.5	47.7	49.8	48.9	48.3	47.9	46.9	48.4	56.6	51.8	47.7	45.9	44.8
28.4	40.6	36.9	47.3	48.9	49.1	47.7	47.2	46.9	49.6	54.1	50.4	50.2	45.6	45.7
28.5	41.7	40.9	41.6	52.2	49.9	47.2	50.4	49.2	48.9	54.9	52	48.4	43.8	42.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.5	38.9	45.1	42	49.8	51	46.6	49.9	47.2	49.5	53.8	50.3	46.9	45.7	45.2
28.4	39.6	41.1	45.4	48.4	47.6	44.9	47.7	50	51.1	53.4	49.4	46.2	44.3	43.9
28.3	46.1	46	47.1	51.6	46.7	44.2	46.8	49.1	52.3	51.8	49.9	46.1	45.2	43.5
28.4	42.9	42.4	46.8	52	46.8	47.6	52.1	50.1	49	52.3	49.8	47.1	46.3	43.3
28.7	37.3	46.4	48	42.9	49.4	47.8	52.6	50.9	50.7	54.2	52.7	48.7	49.1	43.7
30.1	45	43.9	45.6	48.2	49	48.3	51.2	52.6	51.9	52.3	50.8	49.8	49.7	44.6
30.2	42.9	47.2	44.2	49.7	53.5	50.1	50.7	49.3	50.6	53.1	51.1	48.7	47.5	42.6
30	40.7	42.9	47.4	46.9	49.9	43.5	49.7	50.8	51.5	54.9	50.6	50.5	49.7	43.5
30.4	42.5	47	44	48.4	49.2	47.3	51.8	49	54.2	54.1	49.4	47	47.5	45.1
31	40.4	43.7	48.6	49.4	52.5	46.5	48.3	51.3	51.2	53.6	52	50.8	46.9	45.2
30.3	40.9	45.4	51.7	45.5	46.6	48.7	49.1	51.3	48.6	54.9	50.6	48.1	44.7	45.1
29.1	43.5	44.2	46.9	48.6	47.2	44.4	51.3	51.3	52.9	53.3	52.8	51.5	43.2	43.4
29	42.1	40.6	40.5	42.7	48.5	50.9	48.1	53.1	50.8	56.9	52.4	48.7	47.1	43.7
28.7	43.5	43.7	48.1	45.8	44.6	50.8	48.8	49.2	52.9	55.2	52.1	48.8	48.9	45.5
28.5	43.1	43.5	41.8	47.4	50.4	48.5	49	47.4	47.4	55.9	51.9	48.8	48.8	45
28.4	48.1	44.4	43	45.7	49.5	47	51.1	50.3	51	55.4	51.2	50	48.9	44.1
28.5	35.7	45.8	41.2	49.5	41.7	45	49.3	49	54.4	55.4	50.4	46.5	46.1	44.9
28.4	45.7	45.4	41.5	46.6	47.8	49.3	45.6	52.2	51.5	54.7	49.3	50.2	45.8	45.4
28.4	44.9	42.3	45.3	46.7	51.6	46.1	48.5	50.1	47.6	53.7	50	45.7	45.5	44.8
28.4	46	44.1	48.3	50.7	49.4	51.5	49.5	49.5	50.9	54.6	47.6	48.3	44.3	45.2
28.4	47.2	41.5	40.3	45.6	51.7	49.1	46.6	46.7	49.6	55.5	49.9	49	45.1	45
29	45	44	49.3	48	49.7	44.3	47.5	48.6	52.6	54.1	50.5	49.4	45.1	46.5
28.8	36.2	42.6	46.1	50.3	52.6	46.1	47	49.2	49.2	54.7	53.6	49.4	46.6	45.4
28.6	43.1	45.7	46.8	46	46.7	49.7	48.3	50.4	51.8	57.2	52.5	51.3	46.7	46.2
28.5	43	47.8	47.3	52.4	51.3	49	50.5	49.1	51.7	56.5	53.7	50.5	45.7	44.5
28.7	42.2	45.7	49.9	45.6	46.1	51	46.4	49.4	53.4	57.1	53.1	49.7	46.9	45.4
28.5	44	46.9	42.8	45.3	53.2	48.9	49.6	51.2	50.8	55.4	53	50.6	45.5	43.8
28.4	40.5	44.4	44.5	45.4	48.3	49.8	47.7	49.7	51.8	54	50.4	49.7	45.4	45.1
28.4	42.6	36.8	48.5	48.7	48.9	48.4	49.6	50.5	50.6	56	53.7	51.4	46.1	44.2

45.9	43.2	42.6	41.3	37.9	40.8	40.1	42.7	38.3	37.3	39	39.1	42	39.5	36.7	36.7
43.6	40.3	40.6	38.8	36.6	40.1	38.1	46.5	37.3	39.9	41.5	40.8	43.7	41.6	39.6	37.5
40.4	42	39.3	38.2	37	37	37.9	46.8	34.3	33	34.5	34.7	38.5	35.7	33	31.8
42.9	39.8	40.5	36.7	35.6	35.7	35.4	42.4	34.3	36.6	39.4	41.7	43.4	40.9	39.6	37
41.6	40	40.7	38.4	36.3	39.4	36.5	39.6	35.1	37	37.8	39.9	41.7	40.5	37.7	33.7
42.3	40.8	40.4	36.5	36.2	36.2	35.2	34.6	33.9	33.7	33.5	33.3	38.5	34.3	30	25.3
40.8	39.2	40.5	37.6	35.7	36.5	35.5	34.5	34.8	33.9	33.4	34.3	40.6	38.6	35.9	31.2
41.8	39.1	40.7	38.2	35.4	36.5	35.4	32.4	33.4	32.2	34	34.1	40.3	33.9	30.1	27.7
42.2	41.2	40.8	38.3	36.3	38.4	36.7	34.1	33	32.7	36.6	34.6	40	37.1	33.5	29.7
45.8	40.6	42.2	37	36.3	37.9	35.8	32.4	33	31.4	36	34.2	36.3	33.6	30.5	26.5
42	41	42.3	36.9	36.7	41.7	47.2	35.9	35.7	34.1	32.9	33.1	30.3	29.9	32.5	26.5
42	38.7	39.1	35.6	35.7	38	35.1	32.9	33.1	32.1	32.4	32.7	36.2	31.6	26.4	24.2
42.3	40	39.9	36.5	36.9	38.4	37.9	32.8	34.1	32.6	33.5	32.1	34.1	30.7	27	24.8
41.9	40.9	40.5	37.1	35.8	36	35.6	35.4	35.5	33.2	32.9	32.5	32.3	29.9	28.8	26.3
43.1	41.5	39.8	38.5	43.1	51.5	45	44.9	49.6	41.5	38.8	35.6	39.2	31.4	27.5	26.7
43.6	41.8	40.3	37.8	47.9	52.7	44.6	48.3	47.2	40	35.3	34.6	35.4	31.7	28.3	25.5
42.8	40.5	41.8	38.1	41.2	45.7	40.6	44.7	49.5	40.6	36.4	35.5	34.1	31.2	27.6	25.8
42	42.6	43.4	39.6	43.2	51.7	53.9	47.7	51.1	50.7	40.1	38.8	37.4	33.8	28.9	26.7
44	43.3	42.1	37.8	41	44.2	42.9	41	41.1	39.6	36.9	34.7	32.7	32.6	26.8	25.3
43.2	40.8	41.6	37.5	36.4	37.5	36.3	36.4	37.5	35.5	35.6	33.6	36.6	31.7	27.4	24.3
42.8	39	40.1	37.4	44.8	54.3	51	49.7	48.8	45.2	34.6	34.3	34.7	31.4	27.5	24.4
41.7	41.8	41.6	38.7	43.3	51.7	41.6	46.5	48.9	42.7	35.1	37.2	40.1	38.2	32.6	30
42.1	41.1	40.6	38.5	36.2	37.2	35.7	33.4	33.9	31.8	32.9	30.6	32	30.3	27.2	24.7
40.4	39.9	39.8	35.7	41.4	56.3	54.2	44.1	48	43.1	42.3	36.5	36.5	31.5	27.9	24.7
45.1	48.4	48	44.9	45.5	56.6	45.9	44.4	51.6	42.7	38.5	38.9	38.6	35.2	31.3	27.9
42	40.5	42.7	38.8	37.3	36.9	36.7	35	35.7	34.1	34.6	34.3	37.8	34.1	30.6	26.6
41	41.7	41.1	37.5	37	37.4	37.6	36.2	36.1	33.9	34.2	32.8	34.7	32	29.3	26.4
42	39.4	41.1	38	36.9	37.4	38.2	37.7	39.4	36.3	36.5	35.8	34.2	33.3	31	26
42.5	41	40.9	39.1	45.7	57.9	56.3	49.1	52.7	48.1	45.8	40.3	40.5	38.7	34.8	31.7
44.6	40.8	42.6	39	42	56	42.6	42.8	47.4	40.2	38.3	38.7	42.8	40.2	37.9	33.5
43.6	45.6	43	39.3	38.9	40.2	43.6	41.6	41	39.2	37.7	37.6	44.3	37.3	36.5	31
43.7	43.4	42.8	38.7	38.7	37.9	39.2	39.7	39.3	37.7	37.9	36.4	37.7	32.7	30.1	26.4
44.3	43.4	43	39.6	38.6	38.4	40.5	39.4	40.5	39.6	39	38.1	38.2	32.7	30	26.6
43.6	45.2	44.8	42.3	38	38.9	39.6	40.7	40.1	37.9	37.4	36.4	37.5	32.4	28.6	25.3
42.9	41.9	41.1	39.7	37.5	38.7	40	38.6	36.5	34.8	35.1	34.2	38.3	32.1	29.3	25.7
43.1	43.7	42.2	38.7	36.8	36.7	37.6	36.2	36.6	34.4	34.4	33.1	40.3	34.3	31.8	27.7
42.6	41.6	41.2	37.6	37	37.8	37.4	36.8	35.6	33.9	33.2	33.2	41.2	35.8	33.6	28.4
41.7	41.9	40.1	38.6	37.2	36.1	35.6	35.4	35.4	38.2	34.7	35.9	45.5	39.5	35.9	31
42.9	42.6	40.8	36.7	35.8	35.1	35.6	35.2	32.9	31.8	33.7	34.1	43.9	37.5	34.8	31.2
42.6	41.7	40.8	37.9	40.8	56	53.5	50.1	48.6	40.4	45	39.4	47.3	42.3	39.2	36
41.8	41	39.3	37.3	45	59.9	58.8	48.9	49.9	41.6	46	42.1	45.8	40.8	38.7	34.5
42.2	38.9	40.3	37.2	41.2	41.7	39.7	37.3	36.2	34.4	36.8	36.7	46.4	40.4	38.3	34
40.6	39.2	39.3	36.1	36.2	34.5	34.7	32.7	31.9	31.9	33.7	35.2	45.9	38.1	36.1	32.1
41.8	40	39.7	36.3	36.1	35.5	34.2	32.6	31.4	32.6	34.3	36.3	46.1	39.7	38.2	34.4
40.5	40.2	41.2	36.7	36.1	34.8	34.8	32.6	32	32.6	36	36.2	46.7	39.9	36.4	33.9
42.1	38.8	39.2	35.9	35.1	35.5	36	33.1	33.6	31.9	32.7	35.3	44.3	38.1	34.9	31.4
42.5	40	42.1	37.5	37.6	40.3	37.6	41.1	32.8	32.1	32.2	34.6	40.9	35.5	33.3	29.1
41.3	40.9	40.4	37.2	36.7	36.2	37	33.7	32.5	32.7	32.8	34.4	43.5	35.7	34	29.6
40.9	41.3	40.2	37.7	36.4	35.5	33.9	33.4	32.6	30.3	30.8	32.3	37.7	30.9	29.3	26.7
41.4	38.1	39.8	36.3	35.4	35.2	34.4	32.1	32.6	30.8	29.6	29.9	35.3	31.9	27.7	26.3
40.1	38.2	39.8	36.4	35.3	35.1	34.7	32.7	32	30.6	31.4	32.2	34.3	33.6	32.2	32.3
40.7	39.6	39.1	37.2	37	38.8	36.4	35.2	36.1	33.7	34.4	35.5	38	35.9	36.8	33
41.3	39.7	39.8	37.1	35.3	34.8	34.5	33.6	34.6	33.7	34.6	34.6	38.3	36	35.2	33.8
41.5	38.7	39.9	35.6	35.7	35.1	35.3	33.8	33.9	33.3	34.3	35.4	40.1	35.8	34.2	32.3
41.4	40.3	40.1	37.4	35.6	35.4	33.6	32.9	34.3	34.1	36.3	37.2	39.6	34.8	34.1	33.5
40.9	40.5	40.8	37.1	36.7	35.6	34.4	33.6	35.6	33.8	34.6	35.3	39.8	37.2	37.3	36.1
41.8	39.8	40.5	36.9	37.1	39.4	36.2	37.5	37.6	39.1	41.1	41.7	45	40.9	40	36.5
39.4	39.7	39.1	36.3	35.2	35.8	35.8	33.8	33.6	33.2	34.4	35.1	42.2	38.1	36.1	34
40.1	40.8	38.5	36.6	36.1	36.5	35.8	33	33	33.6	35.1	35.6	45.2	38.9	37.4	34.6
41.3	40.2	39.6	37	36.6	34.6	35.4	33.3	33.5	33.8	36.3	37.7	48.2	41.5	39.6	35.5
39.5	39	39.2	36.7	34.8	36.3	35.8	34.4	34.9	36.3	38.5	37.5	49.3	43.3	41.2	36.6
41.5	39.7	39.8	37	34.9	36.3	35	32.7	31.6	32.1	36.5	38.6	50.8	44.4	42.6	38.6
39	39.3	40.2	36.4	36	36.1	35.3	33.1	31.6	32.7	35.8	39.6	52.3	44.2	43	38.6
41.7	40.4	43.1	39.1	38	36.7	35.8	35.3	32.2	34.4	38.7	41.7	53.9	47.2	45.9	40.3
40.8	41.2	42.9	36.8	36.1	36.3	36.5	43.3	32.2	33.5	38.1	40.8	52.4	46.9	44.7	40.4
41.5	39.6	39	36.5	36.1	36.8	37.2	43.7	37	39	41.5	44.3	52.4	47.4	45.8	41.7
39.5	39.4	39.3	37.2	36.2	35.8	34.3	42.5	31	32.3	35.9	39	48.6	43.2	40.7	36.5
41.1	38.7	39.3	36.6	34.9	35.4	35.7	43.8	31.7	32.9	35.9	38.1	49.1	44.3	42.1	36.9
43.3	40.3	41	39.3	37.1	37	37.6	44.4	36.3	40	42.9	44.1	49.3	45.2	42.5	40
42.3	38.5	39.2	37	35.4	35.5	35.6	42.7	32.2	32	35.7	35.9	44.7	38.8	36.8	32.7
39.5	38.7	39.4	35.9	35.1	35.1	35.5	43.3	31.8	31.1	32.2	35.5	39.8	33.8	32.7	28.6
40.7	38.6	42.1	38.5	35.3	37.2	37.3	45.4	35.9	39.8	41.5	42.7	47.1	44.1	42.3	39.6
42.3	39.1	39.5	36.8	34.6	35.6	35.6	33.9	31.3	31.4	34.4	37.5	44.2	37.1	35.8	31.2
42.5	41	39.2	36.7	35.5	37.8	39.3	37.3	36.1	35.2	34.7	37.6	42.4	37.3	35	33.2
41.3	40.7	40.1	36.7	36.3	37.2	39.8	35.7	32.2	33	32.4	34.9	42.5	37.2	35.8	32.4
41.1	40.2	39.4	37	35.4	36.1	36.5	33.7	32	30.3	32.4	33.1	40.8	35.6	33.1	30.8
42.2	40.1	40.2	37.8	38.1	39.6	37.9	38.3	35.1	39.5	38	39.2	43.4	40.8	38.7	33.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq ·	1/3 LZeq
41	39	40	36.4	35.8	37.7	35.1	32.7	32.6	31.5	33.4	35.4	43.9	40	37.8	33.5
40.1	39.1	40.3	36.8	35.5	35.8	37.2	33.2	34.3	31.9	34.1	34.8	43.1	36.8	33.4	29.6
41.4	40.8	39	36.8	34.7	36.2	34.1	32.8	34	31.9	34.2	35.2	44.1	38.7	35.9	31.4
40.7	38.8	39.5	36.9	36.2	37.5	38.4	37.8	36.5	32.6	33.8	35	41.9	35.8	35.8	31.4
42	39	39.8	39.2	39	38.8	42.5	39.8	40.1	40.6	41.3	41.3	45.3	41.7	40	39.3
41.2	39.8	39.7	37.9	39.4	42.3	41.9	46.8	48.1	47.2	45.6	46.2	45.2	46.5	45	43.7
42.2	40.2	38.6	37.9	36.5	39	36.6	35.8	41.7	42	38.7	39.2	43.5	40.4	39.1	36.1
41	38.5	41.5	38.9	39.5	41.6	40.7	37.5	39.9	41.4	45.4	48.8	46.2	45.4	43.8	39
42.6	40.7	41.4	38.7	38.4	38.8	37.2	37.6	40.2	37.6	38.2	38.4	42.8	42.5	41.7	38.9
41.5	41.5	41.2	39.5	38.5	38.8	40	40.1	38.2	37.6	38.7	39.5	44.1	41.6	44.3	48.6
42.8	41	39.9	38	37.3	38.6	36.5	35.3	35	32.8	33.1	32.9	38.9	37.3	34.6	31
41.3	40.9	39.7	37.9	35.3	36.3	35.8	35.3	35	32.2	32.4	31.5	39.5	37.5	34.4	29.6
39.5	40.4	40.3	37.8	37.8	36.9	38.5	38.5	37.9	37.5	35.8	37.8	40.1	38	38.5	34.8
41.6	40	39.9	37.6	35.5	36.9	36.4	36.3	36.6	34.5	34.6	33	40	36.7	34.7	30.4
42.3	39.9	40.3	37.8	36.7	36.5	36.4	36.8	37.1	34.8	35.6	31.3	37.9	34	32.2	26.7
42	40.5	40.4	39.4	36.7	37.4	37.2	37.5	37.2	35.3	35.3	33.4	40.3	37.3	34.3	28.7
43.3	43.6	41.6	39.8	37.8	39.8	42.7	43.6	41.2	42.8	40.7	40.5	41.6	38.2	34.2	30.6
44.4	41.7	40.9	39.4	38.3	39.1	39.3	40.3	39	37.3	37.2	34.6	39.1	33.2	30.8	28
44.6	41.7	41.4	37.9	36.3	40.4	37.6	39	37	35.6	35.7	34.5	37.9	33.1	30.2	27.8
42.6	40.9	41.7	38.7	36	38.5	38.6	40.2	37.4	36.6	35.6	33.4	36.7	31.5	30.5	27.2
40.4	40.1	41.2	37.8	37.7	39.2	37.1	36.6	37.4	35.6	36.3	36.8	37.1	35.2	34.1	33.4
43.6	38	40.9	37.9	37.7	38.3	37.7	37.4	37.9	36.7	36.6	33.2	35.4	32.4	30	29.5
43.2	41.2	42.1	41.3	37.5	39.4	40	39.6	38.6	37	35.9	34.9	38.7	36.6	34.4	31.2
45.6	42	45.4	41.5	38.7	40.6	39.6	38.1	38.6	36.9	35.5	33.9	37.5	33.7	31.1	28.4
43	40.5	43.8	41.7	38.3	40.7	39.5	38.7	38.7	37.8	36.6	34.9	36.9	33.5	32.5	30.2
42.5	40.2	42.4	41.2	37.5	38.4	38.6	36.7	36.8	35.9	35.1	33.6	33.8	31.1	29.6	25.9
41.6	41.3	41.3	40.8	36.5	38.3	38.3	36.4	36.6	34.9	34.9	33.5	37.1	34.1	31	28.8
43.6	41.4	41.2	41	36.5	39.3	39.6	36.2	36.4	34.6	34.1	33.7	38.1	32.9	30.9	26.2
42.8	42.7	40.6	40	39.3	38.9	40.5	38	37.8	36.2	34.9	33.8	33.2	31.1	30.5	29.4

32.9	28.7	25.6	23.5	23.6	24.5	48.4	45.8	49.7	50.6	51.5	48.8	57.3
33.3	29.2	25	23	23.6	24.5	48	47	48.6	51.3	53.8	49.4	57.4
29.5	26	23.8	23	23.7	24.5	48.5	47.4	47.6	53	53.3	48.8	55.6
35.5	30.1	24.7	22.9	23.6	24.6	48	48.8	44.6	51.4	51.9	49.2	55.6
29.3	25.1	22.3	22.7	23.6	24.6	47	50.1	45.9	49.8	49.3	48.8	55.5
22.3	21.9	21.9	22.8	23.5	24.6	47.3	49.2	45.9	48.9	49.8	49.1	54.1
25.5	24	23.4	22.9	23.7	24.6	49	47.5	46.8	47.2	47.6	53.3	55.1
23.5	22.4	22.5	22.8	23.6	24.5	47.4	47.1	49.9	47.9	50.6	53.6	54.4
23.9	22.3	22	22.7	23.6	24.5	46.6	47.1	50.4	50	50.5	51.1	53.1
24.8	23	22.2	22.7	23.5	24.5	47	49.6	49.4	50.7	49.5	48.3	52.9
23.6	21.9	22.2	22.7	23.6	24.4	48.7	50.7	47.7	51.4	51.2	47.4	53.1
21.5	21.5	21.9	22.8	23.6	24.5	47.8	51.3	49.2	50.9	50.4	46.5	52.2
22.3	21.4	22	22.6	23.7	24.6	45.9	50	48.9	49.4	47.8	45.4	51.8
22.7	21.6	21.9	22.6	23.5	24.6	46.8	49.1	48.5	47.7	49	47.2	51.2
25.4	21.9	21.9	22.6	23.6	24.6	47.9	47.3	48.2	50.4	49	46.9	52
22.5	21.4	21.9	22.7	23.6	24.5	47.2	47.2	47.9	49.3	48.9	47.2	51.9
24.5	21.6	21.7	22.5	23.7	24.6	46.8	46.7	46.4	49.9	51.3	50.2	51.8
23.1	21.9	21.9	22.7	23.6	24.6	47.6	47	49.6	52.6	55.6	49.4	52.9
22.5	21.8	21.9	22.5	23.5	24.5	47.8	46.9	49.6	51.8	53.6	50.1	51.4
21.4	21.5	21.9	22.6	23.6	24.7	45.6	45.8	49.4	49.6	52	51	51.2
21.7	21.5	21.9	22.7	23.5	24.5	47.8	47	48.1	48.3	51	49	52.3
24.8	22.2	22.2	22.8	23.5	24.6	48.8	48.1	46.7	48.6	47.4	49.4	53.4
22	21.4	22	22.6	23.6	24.5	46.9	48.9	46.8	50.1	47.7	49	53
23.3	22	21.9	22.6	23.6	24.6	45.7	46.9	45.9	51.3	48.4	48.6	53.7
24.3	22.6	22.3	22.7	23.7	24.6	43.3	44.6	45.8	50.7	48.1	47.7	52.9
22.9	21	21.9	22.6	23.5	24.6	40.7	43.4	45.6	48.4	50.1	50	51.8
24.8	22.4	22	22.7	23.8	24.5	40.2	43	45.3	52	50.4	48.8	51
23.1	21.5	22	22.6	23.6	24.5	40.6	41.8	47.2	52.5	51.2	48	51
26.7	22.5	22	22.6	23.6	24.6	41.5	42.7	47.3	53	50.1	48	52.9
29.1	22.2	22.1	22.7	23.5	24.6	41.7	45.8	46.1	50.7	51.1	48.2	52.7
25.4	21.7	21.8	22.7	23.7	24.5	41.8	46	45.4	48.4	50.3	49.8	53.8
22.4	21.3	21.7	22.5	23.7	24.5	43.9	45.2	47.3	47	50	49.4	53.2
22.9	21.5	21.9	22.7	23.5	24.5	44.9	43.7	47.2	47.2	49.9	48.5	51.3
22.3	21.2	21.8	22.7	23.5	24.5	44	43.6	48.4	48.7	49.8	47.8	51.9
22.2	21.4	21.8	22.5	23.5	24.6	41.6	43.6	47.7	48.8	51.9	50.2	52.4
22.7	21.3	21.9	22.7	23.6	24.5	41.1	42	47.1	49.8	50.9	49.4	52
23.5	21.4	21.9	22.6	23.5	24.5	38.6	41.8	45.8	49.4	52.2	49.9	52.4
25.1	21.2	21.7	22.6	23.6	24.6	42.2	45.7	44.6	48.6	52.4	49.9	51.8
25.8	21.1	21.7	22.6	23.5	24.6	42.9	46.8	44.9	48.6	51.6	49.2	50.5
30.2	22.3	22	22.6	23.5	24.5	41.8	46.8	47.3	50.7	50.2	47.6	50.8
28.1	23.3	22.1	22.5	23.5	24.5	39.7	44.7	48.6	49.8	48.6	47.5	52.3
27.9	21.7	21.8	22.7	23.7	24.5	42.6	44.6	48.5	49.6	49.2	48.6	52.5
26.7	21.6	21.8	22.7	23.5	24.5	45	44.1	46.5	49.6	49.1	49.2	50.7
27.2	21.3	21.6	22.7	23.6	24.4	44.5	43.6	47.1	48.3	48.7	49.4	50.1
25.9	21.3	21.9	22.8	23.5	24.5	47.7	42	44.9	47.5	48.4	48.6	50.1
27	23.8	22.6	23.2	23.6	24.5	48.9	43.3	46.7	48	50.4	48.5	49.4
24.5	22.1	22.3	22.9	23.6	24.7	47.2	45.5	46	48.7	50.1	48.7	48.6
24.1	21.6	22.1	22.8	23.6	24.5	45.5	46.1	46.8	49.1	49.6	49	50.4
23.8	22.8	22.6	22.9	23.6	24.4	45.1	49.4	48	50.7	48	48.9	50.4
26.8	25.8	24.8	24.1	23.7	24.5	48.6	49.3	48.4	50.8	49.7	50	51.4
33.6	30.9	30	25.5	24.6	24.8	48.5	46.4	47	48.5	51.6	51.6	51.5
33.3	34.5	32.1	27.1	24.4	24.7	46.1	44.9	44.5	49.3	52.3	52.8	51.8
29.6	28.2	27.7	25.7	24.7	24.9	46.5	43.7	48.5	49.9	53.4	51.5	51.8
28.4	26.9	26.5	24.8	24.5	24.7	45.9	42.6	48.6	49.1	53.2	51.8	52
31.5	29.2	31	25.6	24.4	24.8	43.5	43.6	48.3	49.6	52.7	51	50.4
32.9	29.7	29.2	27.6	25.6	25	44.6	43.8	46.9	49.4	50.8	49.5	49.9
33.4	29.5	27.6	26.2	25.1	24.9	42.5	42.5	47.9	47.7	52.2	49.9	50.9
30.8	26.8	25.8	24.3	24.2	24.7	41.2	46.4	48.3	50.4	51.7	50.4	51.3
28.9	24.7	23.8	23.5	23.8	24.6	40.4	47	47	49.1	50.8	50.5	51.9
29.1	23.7	23.3	23.1	23.7	24.7	44	47.1	46.6	50.9	52.3	49.9	51.4
30.4	25.4	24.2	23.9	23.6	24.5	43.8	46.6	47.4	51.1	51.9	49.1	50.9
32.4	22.4	22	22.8	23.5	24.5	44.4	45.9	46.3	51.4	50.9	49.5	50.9
32.2	22.4	22.2	22.6	23.7	24.5	45.5	44.3	46.7	52.4	50.1	48	50.4
34.2	27	23.8	23.5	23.7	24.6	43.9	44.9	46.8	51.4	49.5	51.9	57
33	24.4	23.4	23.3	23.6	24.5	40.5	47	46.6	49.9	54.4	58.5	57.3
37.5	30.3	24.8	23	23.6	24.5	39	46.7	46.2	48.1	54.5	56.2	55.2
29.6	22	22.1	22.7	23.5	24.6	41.7	46	43.9	47.7	52.6	52.8	52.8
30.3	21.6	21.8	22.7	23.6	24.5	44	43.7	42.5	48.7	51.3	50.3	53.5
36.4	30.3	25.8	23.9	23.6	24.5	45.4	44.8	41.9	49.4	52.6	52.7	53.1
26.9	23.4	23	23.3	23.8	24.6	45.2	44.9	42.3	49.3	52.6	53.2	52.5
24.5	23.1	22.7	22.9	23.7	24.5	46.1	45.4	43	49.5	52.9	52.1	52.8
36.5	30.4	24.8	22.8	23.6	24.5	46.1	45.1	43	48.5	52.1	51.7	52.3
25.8	23.1	22.6	22.9	23.7	24.6	42.7	43.9	45.5	48.8	53.1	50.8	51.2
30.3	26.3	23.7	23.3	23.6	24.4	42.6	43.8	47.8	48.9	51	49.9	51.9
29	25.8	24.5	23.7	23.7	24.6	40.9	42.2	47.4	49.8	49.4	49.1	51.4
25.2	23	22.3	22.7	23.6	24.5	40.8	41.6	47.6	50.4	49.4	49.2	49.7
31.3	26.2	24.6	24.2	24.2	24.6	41.4	41	46.9	51.5	49.9	48	50

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
28.2	23.7	22.7	22.6	23.6	24.5	40.8	44.2	44.2	51	50.9	47.9	50.9
23.6	21.2	21.9	22.4	23.6	24.5	39.8	43.5	45.4	50.2	50.3	46.6	49.7
26.2	21.5	22	22.6	23.5	24.5	44.8	45.1	46.5	51.3	48.6	46.3	48.3
27.4	25.3	24.3	23.7	24	24.7	44.8	45.1	47.6	52	47.5	47.7	50.8
36.1	32.6	30.4	27.1	25.2	24.9	43.4	46	47.8	51.9	49.1	48.6	52.7
44	39.1	32.8	29.3	25.4	25	44.1	45.8	47.3	49.2	49.3	48.9	51.6
33.1	30.3	27.2	25.1	24.1	24.6	43.7	46.7	46	49.3	53.2	49.6	51.5
37.7	33.6	30.5	26.8	24.7	24.8	43.4	46.6	47.6	49.3	52.2	49.6	51.3
37.4	35.3	32.6	29.1	26.9	25.9	42.5	46.6	46	48.4	51	47.7	51.7
45.6	43.3	34.9	31.2	26.7	25.2	42.6	46.6	47.9	49.5	52.2	47.1	51.5
25.6	22.9	22.5	22.8	23.7	24.5	41.8	45.6	51	49.5	51.5	48.6	50.4
24.7	21.9	22.1	22.6	23.5	24.4	43.3	45	50.3	49	49.2	48.3	50.7
30.5	27.4	25.3	24.1	23.9	24.6	42.6	45.1	48.4	48.6	49.6	49.8	50.6
25.9	23.3	22.8	23	23.6	24.6	43.4	43.6	47.7	46.4	48.2	51.1	50.2
22.2	21.3	22	22.6	23.5	24.5	43.9	43.7	47.1	48.1	50.2	50.1	49.7
24.9	23.4	23.4	23.2	23.7	24.6	47.1	44.4	45	46.8	49.9	49.2	51.1
25.7	23.1	22.7	23	23.6	24.5	46.7	45.8	43.7	49.2	49.6	47.5	51.3
24.4	22.6	22.6	22.7	23.5	24.6	45	46.3	42.3	48	47.8	48.5	49.8
24.5	22.6	22.7	22.9	23.6	24.5	45.2	45.5	44.6	47.5	50.7	49.1	48.7
23.7	21.8	22.4	22.7	23.6	24.6	46.1	44.8	47.5	50	51.3	50.8	49.4
31.4	29.1	27.5	25	24.5	24.8	47	43.6	47.2	49.5	51.4	50.2	49.1
27.8	26.3	25	24	24.1	24.7	47	44.2	48.5	48.4	51.4	49.5	48.1
27.7	25.2	23.9	23.4	23.7	24.6	45.8	43.1	48.5	49.9	52	47	47.6
24.5	22.9	22.5	22.8	23.6	24.5	43.4	45.4	47.4	49.4	51.5	49.2	48.3
28.4	26.7	26.1	24.8	24.5	24.9	43.6	47.4	47.3	51.5	51	49.4	50.1
24.4	23	23	22.9	23.6	24.6	42.8	46.7	49.2	51.1	50.5	50.9	49.9
23.4	21.7	22.5	22.7	23.5	24.5	44.5	46.7	49	49.3	52.2	50.5	49.7
22.4	21.3	21.8	22.5	23.5	24.6	43	46.6	46.3	46.7	52.5	50.1	49.7
27.7	27	25.6	24.8	24.5	24.9	42.4	45.3	47.9	48.4	49.8	50.1	49.5

53.4	54.5	55.6	54.9	53.9	50.8	53.8	46.9	44.4	43.7	42.5	41.4	42.9
53	57.4	55.4	55	52.9	49	52.3	46.1	43.4	42.7	41.8	39.4	41.7
52.4	57.5	55.5	53.2	52.2	47.7	51.2	44.6	42	41.4	40.2	38	40.7
52.1	55.7	54.2	52.3	50.8	46.8	49.4	43.3	41.9	40.8	39.1	37.2	38.7
51.2	53.2	55.1	51.9	50.2	46.4	49	42.8	40.9	40.7	38.9	37	39.1
50.3	51.8	55.4	52	50.2	45.9	48.9	42.4	41	40.8	37.9	36.6	38.5
51.1	51	56.1	51.9	50.3	44.6	47.9	42.2	40.6	40.6	37.5	36.3	37.2
49.9	53	55.6	51.7	49.4	45.8	46.1	42.1	40.1	40.9	38.2	35.8	36.9
49.1	52.4	56.4	51.8	49.2	45.9	45.2	42	40.8	40.9	38.5	36.2	37.9
49	53	56.5	51.6	48	45.6	51.1	45.2	40.9	41.9	38.5	36.7	38.1
48.4	53.1	55.9	50.5	48.5	45.6	49.2	44.1	41.1	42.3	37.7	36.9	41.2
49.5	53.5	55.5	51	48.4	45.2	46.5	42.8	40.9	42.2	37	36.6	40.3
48.6	54	55.2	52.1	50	46.9	46.7	42.6	40	40.6	36.6	36.6	39.5
49.2	53.8	55.2	51.9	50.2	49.3	47.3	42.8	40.6	40.6	37	36.6	38.5
49.7	53.3	53.9	51	49.8	49.1	46.5	42.8	41.3	40.3	38	42.4	50.7
51.8	54.3	53.5	52	50.7	49.6	46.2	43.4	41.7	40.5	38.1	47.4	52.9
52.3	54.4	56.3	56.5	51	49.8	45.7	43.8	41.7	41.4	38.3	47.3	52.8
50.7	53.6	58.6	56.6	50.6	48.4	46.3	43.2	42.1	42.8	39.2	44.3	51.7
51.4	52.2	63.5	55	52.4	48.8	46.1	43.5	43	43	39	44.8	51.8
51.3	52.2	63.6	62.2	52.3	48.7	46.5	43.6	42.7	42.5	38.5	42	48.3
50.4	52.2	61.8	63.5	51.9	48.6	46.5	43.6	41.6	41.7	37.9	44.2	53.5
50.1	51.3	62.2	61.3	50.8	48.2	45.1	42.8	41.3	41.3	38.5	45	54.1
50.5	52.3	62.4	57.7	49.9	49.2	45.1	42.4	41.4	41.4	39.2	43.1	51.9
52.4	52	60.7	55	49.6	50.1	44.6	42	41.2	40.9	38.3	42	56
51	54.8	59.2	53	50.6	51.5	45.3	44.9	47.9	47.5	44.2	44.3	57.5
55.1	56.4	58.4	52.8	52.4	51.7	46.4	45.2	47.8	47.7	44.1	44.2	55.8
56.3	56.3	57.7	51.7	51.6	49.3	44.6	43.1	44.7	45	41.6	41.1	51.6
54.1	55.8	57.5	51.4	49.9	47.9	43.7	42.3	43	43	39.5	39	47.6
51.7	55.7	57.7	50.3	48.7	45.9	43.9	42.5	41.3	41.9	39.2	44.6	56.7
49.5	56.1	57.4	51.5	49.5	47.1	45	44.1	41.4	42.4	39.1	44.6	58.1
51.2	56.2	56.4	52.3	50	48.4	45.5	44.1	44.7	43.3	39.4	42.8	55.4
53.8	56.4	55.6	53.2	53	47.9	45.1	44	44.8	43.1	39.4	40.9	51.4
53.3	56.4	54.8	54.2	53.7	47.9	46	44.5	44.1	43	39.4	39.6	47.4
52.3	57.4	54.5	54.6	53.9	48.8	46.3	44.5	44.9	44.3	41.7	39.1	44
51.8	56.6	54.6	55	53.5	49	46.3	44.1	44.4	44	41.6	38.5	41.6
52.2	55.5	55.2	53.9	53.3	47.7	45.9	43.3	43.8	42.6	40.3	37.9	39.9
51.5	55.5	55.5	53.8	52	47.1	44.8	43.6	43.6	42.3	39.4	37.4	38.2
53.1	54.1	55.7	53.8	51.7	47.2	45	43	42.2	41.5	38.7	37.5	38.3
53.1	53.2	57.1	53.8	50.5	46.8	45.3	42.9	43.1	40.9	38.4	37.1	36.7
51.8	53.1	56.9	53.2	50.1	46.2	44.4	42.9	42.1	41.2	37.9	40.7	55.8
52.6	52.3	55.8	54.8	50	46.3	44.1	42.8	42.2	40.9	37.8	44	59.3
52	52.2	56.9	54.6	49.5	46.6	42.8	42.3	41.3	40.3	37.8	44	58.3
52.9	52.4	55.6	53.1	48.9	46.6	43.5	42.5	40.1	40.2	37.4	41.6	54.1
52.8	51.8	54.4	52.3	48.2	46.7	43.8	41.7	40.4	40.2	36.7	39.1	50
52.5	50.9	54.9	51.1	47.7	47.7	44	41.6	40.4	40.7	36.8	37.5	46
52.3	51.7	54.8	52.3	49.1	48.1	44	41.8	39.7	40.7	36.4	36.6	42.3
50.6	51.9	54.2	52.6	49.2	47.6	44	42.5	40.1	42.2	37.2	37.5	41.1
49.3	52.3	54.4	53.1	49.3	46.8	44.6	42.5	40.7	41.7	37.3	37.2	39.9
49.7	53.2	53.8	53.1	49	46.8	44.7	41.8	41.4	41.1	37.9	37.1	38.1
52.8	52.1	53.4	52.9	49.4	48.6	44.8	41.6	40.9	40.4	37.9	36.7	36.7
52.7	52.8	53.6	52	50	48.1	44.5	41.6	39.5	40.1	36.8	35.9	35.9
52.3	53	54.5	52.7	49.4	47	44.5	41.1	39.5	40.1	37.2	37	38.5
52.5	52.1	54.8	52.2	48.8	46.9	43.5	41.5	39.9	39.8	37.4	36.3	37.5
52.4	52.3	54.3	51.2	48.3	46.6	44	41.6	39.6	40	37.2	36	36
51.1	52	54.7	52.8	48.9	45.1	43.7	41.7	40.2	40.3	37.2	35.8	35.8
50.2	50.3	54.5	52.7	48.8	46	44.3	41.7	40.6	40.8	37.4	36.6	35.8
51.7	50.4	54.2	52.1	49.6	45.6	44	41.6	40.8	41.1	37.6	37.2	39.1
51	49.6	55.1	53.2	49.9	45.9	43.5	41.5	40.2	40.6	37.1	36.8	37.5
51.6	52	54.4	52.9	50.4	48.1	43.2	40.4	41.1	39.7	36.6	36.3	37.4
52.8	52.1	54.2	51.1	49.7	48.2	43.2	41.4	40.5	39.7	37.1	36.5	36.1
50.8	50.5	54.3	50.5	49.5	49.1	43.4	41	40.4	39.5	37.1	36.4	36
51.1	50.7	54.4	51.4	48.6	48.4	43.6	41.1	39.8	39.8	37.2	35.6	36.4
51.3	51	54.7	51.2	48.1	48	43.6	41.1	39.8	40.3	37.2	35.9	36.3
55.5	50.9	55.8	52.1	49.2	46.6	45.4	41.2	40.6	42.9	38.8	37.8	36.8
54.8	51.4	55.6	52.7	48.5	47.2	47.8	41.7	41.3	43.6	38.7	37.8	37.1
52.6	51.3	55.9	52.1	49.2	46.3	47.3	41.3	40.6	42.6	37.4	36.8	37
52.6	50.3	57.5	52.4	50.4	46.3	45.9	41.1	40.1	40.7	37.4	36.6	36.6
50.7	50.1	58.7	52.5	49.4	46.5	45	41.2	39.4	39.7	37.4	36.3	36.2
49.8	50.5	58.6	52.9	49.8	46.3	44.5	43.1	40.4	41	38.9	37	36.9
52.9	51.8	58.3	53	50.4	47.2	44.9	43.2	40	40.7	38.7	37	36.7
52.4	52.1	57.6	52.9	49.5	46.7	45.1	42.6	39.3	40.1	37.8	36.2	35.9
51.1	51.2	55.8	53	49.5	46.6	45.6	41.1	39.1	41.6	38.4	35.6	36.9
49.2	51.6	55.3	52.6	48.3	46.6	47.3	42.1	39.5	41.7	38	35.4	36.9
49.4	51.7	55.3	52.1	49.5	46.3	46	42.6	40.5	40.2	37.3	35.5	37.4
48.5	50.4	56.2	52	48.9	46	44.8	42.8	40.8	40.2	37.3	36.5	37.9
47.1	49.7	56.2	51.4	49.8	45.9	45.6	41.8	40.9	40	37.1	36.2	37.2
49.1	49.5	55.3	52	49.3	46.1	45.5	42.1	40.4	40.2	37.6	37.8	39

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
49	49.8	55.5	51.8	48.9	45.7	45	42	40.5	40.4	37.5	37.3	38.6
49.6	50.7	54.6	51.2	47.9	45.7	45.1	41.2	39.6	40.3	37	36.6	38.5
49.8	52.2	53.1	50.2	47.3	45.3	44.3	41.3	40.5	40.1	37.3	35.9	37
50.2	51.5	53	50.5	47.7	46.6	44.2	41.2	40.4	40.1	37	35.9	37.8
50.8	50.9	54.4	52.3	48.4	48.7	44	41.8	39.8	39.8	39	38.7	38.8
52.9	51.8	54.6	52.3	49.5	49.7	44.7	41.8	39.9	40.2	38.9	39.7	41.4
51.6	51.6	53.5	51.5	49.6	49.3	44	42.2	40	39.6	38.3	38.7	40.8
51.5	51.7	54.8	51.4	50.3	49.6	43.7	42.1	39.9	41	38.8	39.6	41.7
50.3	53.6	54.5	51.2	50.2	49.4	44.6	42.6	40.4	41.7	39.1	39.8	41.6
50.9	53.2	54.8	51.9	50.6	48.4	45.4	42.5	41.4	41.4	39.4	39	40.2
51.2	51.9	55	52	50	47.3	45.3	42.5	41.4	41.2	39.3	38.7	39.4
52.5	52.2	54.5	53	50.8	45.9	44.8	42.4	41.1	40.8	38.5	37.7	38.7
52.4	52	56.6	53.1	51	46.7	44.2	41.6	41	40.3	38.5	37.7	37.4
52.4	52.7	55.8	52.6	49.7	48.5	45.1	41.4	40.8	40.4	38	37.2	37.2
50.8	52.2	56.4	52.4	49.1	48.9	45.5	42.2	40.5	40.5	38	36.7	37
50.3	51	56.4	52.1	49.9	49.1	45	42.2	40.5	40.5	39	36.8	37.3
50.2	54	56.7	51.7	49.8	48.9	44.8	43.4	42.5	41.4	39.7	37.8	39.4
52	54.3	56.4	50.9	50.1	47.3	45.3	44.2	42.6	41.5	39.9	38.2	39.6
52	52.2	54.6	50.4	49.3	46.9	45.8	44.4	42.4	41.3	39.4	38.1	40.2
50.9	51	54.8	49.8	48.5	45.5	45.1	44.3	41.9	41.7	38.9	37.3	40
49.8	50.9	55.8	50	49.1	45.5	45.2	43.4	41.3	41.6	38.7	37.6	39.4
49	51.9	55.8	50.5	50.1	45.6	46.1	43	40.5	41.4	38.3	37.8	39.1
49.7	51.6	55.7	52.6	49.7	46.4	46.2	43.3	40.5	42	40.7	37.7	39.2
50.1	51.8	56.7	52.8	50.8	46.9	46.8	45.1	41.5	44.5	41.5	38.7	40.1
50	51.9	56.9	53.8	51.2	46.9	45.9	45	41.6	44.7	41.6	38.6	40.5
49.4	53.7	57.1	53.5	50.5	47	45.5	44	41.1	43.9	41.6	38.4	40.4
51	52.7	57.3	53.8	51.2	47	45.3	43.2	41.1	43	41.6	38	39.3
51.4	52.3	56.4	53.2	50.4	46.2	45.2	43.4	41.4	42.2	41.1	37.2	39.3
50.9	52	56	53	51	46.2	44.9	43.7	42.3	41.5	41	38.5	39.3

43.2	43.9	41.9	40.1	39.7	39.6	42.9	39.9	36.9	37.1	33.1	28.5
41.7	45.7	40.2	41	42.2	42	45.3	42.6	40.4	39.3	35.1	30.5
39.7	46.5	38.2	38.5	39.8	39.3	42.2	39.7	37.4	36	32.2	28.1
38.3	46.2	36.2	37.3	39.9	41.9	43.7	41.3	39.8	37.5	35.7	30.4
37.6	44.1	36.4	38.9	40.9	43	44.7	42.5	40.9	38.1	35.9	30.6
36.4	41.9	34.8	36.3	38	40	42	40.1	37.9	34.8	32.4	27.5
35.7	38.7	34.8	34.9	35.8	37.2	41.3	38.9	36.3	31.9	28.8	24.8
35.5	36.6	34.7	34.3	34.6	35.5	41	38.1	35.4	31.2	27.2	24.6
36.4	34.8	34.1	33.4	36.4	35.2	40.3	36.8	33.7	30.6	25.4	23.5
36.4	34.2	33.5	32.6	37.4	35.1	40.3	36.8	33.5	29.3	25.3	23.3
46	35.3	35.2	33.9	35.6	34.6	38	34.7	33.3	28.3	25	22.9
44.8	35	34.7	33.3	34.1	33.4	36.2	32.2	31.7	26.7	23.8	22.3
41.3	33.8	34.1	32.7	33.7	33.1	36	32.1	29.3	25.4	22.7	21.8
39.5	34.8	35.2	33.1	33.7	32.8	34.8	31.5	29.4	26.5	23.1	21.7
44.5	44.3	48.9	41	38.3	35	38.4	31.3	28.1	26.7	25.1	21.8
44.6	48.1	48.3	40.7	37.5	35.1	37.9	31.7	28.4	26.7	25.1	21.8
44.5	48.6	50.9	42	36.8	35.8	36.8	31.8	28.6	26.8	25.3	21.7
52.9	47.8	50.9	49.8	39.3	37.8	37	33.4	28.8	26.5	23.7	21.8
52.8	47.8	50.8	49.7	38.9	37.7	36.5	33.4	28.6	26.7	23.4	21.9
49.2	44.6	47.2	46	37.8	35.9	36.1	32.8	27.9	25.6	22.9	21.9
50.7	48.9	48.7	44.9	36.4	34.9	35.7	32.9	28.1	25.2	22	21.7
50.2	49.4	50.3	45.3	35.4	36.7	39	37	31.6	28.7	24	22
46.7	46.9	48.2	43.3	35.3	36.3	38.9	36.9	31.5	28.7	24	22
53.8	44.7	48.1	43.2	41.9	36.5	36.8	33.8	29	26.3	23.4	22
53.8	45.3	51.2	44	41.9	38.4	38.4	34.8	30.8	27.5	24.3	22.7
50.4	44.4	49.9	42.5	40.2	37.9	39.3	35.5	31.6	28	24.4	22.5
46.5	40.9	45.9	39.2	37.8	36.1	37.4	34.5	31	27.6	25.3	22.6
43.1	38.6	42.4	36.7	36.3	35.5	35.6	33.5	31.1	26.4	23.6	21.9
54.9	47.9	51.6	47.1	45.1	39.4	39.4	37.5	33.8	30.6	26	22.3
54.7	47.7	50.9	47	43.9	39.4	42.1	39.5	37	32.9	28.6	22.3
50.8	45.2	48.7	44	41.3	38.8	43.7	39.5	37.5	32.9	28.6	22.3
47.7	43.3	45.6	41.7	39.5	38	43.3	38	36.3	31.5	26.8	21.9
44.4	41.4	42.7	39.9	39.2	38.2	40.6	35.4	33.4	29	24.6	21.6
42.2	40.8	41.5	39.5	38.6	37.5	39.3	33.9	31.6	27.7	23.6	21.5
40.9	40.4	40.5	38.4	37.8	36.7	38.5	33	30	26.4	22.8	21.4
40.3	39.4	38.6	36.5	36.4	35.3	39.7	33.7	31.3	27.2	22.7	21.4
38.7	37.7	37.5	35.3	35.1	34.1	40.8	35.3	32.9	28	23.4	21.4
38	37.2	36.5	38	34.6	35.2	44.5	38.6	35.2	30.4	24.7	21.4
36.6	36.2	35.6	36.5	34.5	35.1	44.5	38.6	35.3	31.3	25.8	21.3
53.2	49.8	48.2	40.2	44.6	38.9	46.7	41	38.3	34.6	29	22.1
58.4	50.8	50.5	41.9	46.3	41.7	46.3	41.2	38.7	34.8	29.1	23.1
56.6	48.7	49.2	40.6	45	40.8	46.6	41.4	38.8	34.8	28.6	22.9
52.4	44.9	45.2	37.7	41.6	38.6	46.3	40.5	38.4	34.2	28	22.1
48.3	41	41.3	35	38.4	36.9	46.4	39.6	38.2	34.3	27.6	21.9
44.3	37.7	37.7	33.8	36.6	36.7	46.9	40.2	38.1	34.5	27.5	21.5
40.9	35.3	35.2	33.2	36.1	36.5	46.4	39.6	36.9	33.8	27.1	23.2
38.9	41	34.2	32.8	34.3	35.9	45	38.7	35.8	32.5	27.1	23.2
38.4	39.4	33.4	32.8	33.3	34.9	43.9	37.1	34.8	30.8	25.6	22.4
37.3	36.9	33.1	32.7	32.9	34.6	42.9	36	33.9	29.8	24.6	22.7
35.5	35.1	33.1	31.4	31.5	33.4	40.3	33.5	31.6	28.1	26.3	24.9
35	33.4	32.7	31.1	31.4	32.2	38	33.5	31.5	31.2	32.2	29.7
36.4	34.7	35.5	33.3	34.2	35.1	37.9	35.9	36.6	33.5	34.5	34.6
35.8	34.4	35.1	33.6	34.5	34.8	38.3	35.9	35.2	33.5	32.1	32.1
35.6	34.3	35.1	33.7	34.9	35.3	39.6	36.1	35.2	33.4	30.8	30.1
35.4	34.3	35.5	35.1	37	38.4	40.6	36.2	35.5	34.4	32.2	30.7
34.8	33.7	35.3	33.8	35.4	35.7	39.9	36.5	36.7	35.6	32.7	29.9
35.9	36.7	37.8	37.9	39.8	40.8	44	39.8	39.2	36.8	33.8	30.5
36	36.3	36.2	37.4	39.1	40.1	43.6	39.2	38.6	35.9	33.3	29.9
35.8	35.2	35.1	35.6	37.2	37.9	44.9	39	37.6	35.2	32.3	28.5
35.6	34.1	34.2	34.8	36.3	37.5	47.6	41	39	35.4	30.5	26.6
36	34.3	35	36.3	38.1	37.9	49.2	42.8	40.9	36.5	30.6	25.7
35.5	33.9	34	34.9	37.3	38.4	50.1	44	42	37.9	31.8	24.9
35.4	33.3	32.6	33.5	36.9	39.5	52	44.4	42.9	38.6	32.3	23.6
35.7	35.3	32.4	34.3	38.1	41.2	53.5	46.6	45.2	39.9	33.8	26.8
36.4	41.8	32.6	34.4	38.3	41.4	53.6	47.3	45.8	40.6	34.2	27
37	43	36.4	38.5	41.1	43.9	52.8	47.5	45.8	41.6	37	30
37.1	43.1	35.9	37.9	40.7	43.5	52.5	47.3	45.6	41.2	36.3	29
35.7	43.5	33.5	35.3	38.4	41.1	50.8	45.9	43.6	39.1	33.5	26.1
37.3	44.3	35.9	39.3	42.1	43.7	49.8	45.5	43.1	40.2	36.2	29.9
37.1	44	35.4	38.7	41.7	42.8	49.4	45	42.5	39.2	35.1	28.8
36.2	43.4	33.5	35.7	38.8	39.8	46.8	41.9	39.6	36.2	31.7	26.2
37.2	44.8	35.5	39.3	41	42.1	46.7	43.5	41.6	39.1	36	30.2
37.1	44.8	34.8	38.3	40.1	41.3	46.2	42.7	40.8	37.9	34.6	28.9
39	41	35.9	36.3	37.8	39.5	45.6	40.3	38.6	35.4	32	27.3
40.2	38.9	35	35.1	35.7	38.1	43.3	38.3	36.8	33.9	30.9	26.9
39.1	37.1	33.5	33.8	34	36.4	42.9	37.8	35.9	33	29.4	25.6
38.2	38	34.8	38.6	37.2	38.2	43.1	39.7	37.5	33.3	30.3	25.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
37.8	37.3	34.3	37.7	36.4	37.8	43.9	40.1	38.1	34	29.7	25.1
37.5	35.1	34.3	35	35	36.6	44.1	40.1	38.1	33.7	29.1	24.4
36.9	34.2	34.4	33.3	34.7	35.6	44.6	39.5	36.7	32.2	27	22.7
38	36.9	36	32.7	34.4	35.4	43.8	38.4	36	31.6	27.3	24.7
42.3	39.6	39.7	40	40.5	40.2	45	41	39.6	38.6	35.1	31.4
42.7	46	46.7	45.7	44.8	45.2	45.2	45.4	44.3	43.3	43.7	38.6
41.5	44.2	45.8	45.4	43.7	43.9	45.4	45.2	44.2	43.2	43.5	38.5
40.9	40.9	43.5	43.3	45.6	48.1	46	45.3	43.9	40.2	40	35.4
40.7	39.2	41.7	41.9	43.8	46.7	45.3	44.7	43.5	40.2	39	35.8
40.7	40.2	40.9	39.9	41.4	43.4	45.2	43.7	45.3	48.5	45.5	43.2
39.5	39.3	39.4	38.5	39.4	41.1	43.7	42.2	43	45.7	42.9	40.5
37.7	37	37.2	35.7	36.6	37.8	41.3	40	39.7	41.6	38.8	36.4
38.1	38.1	37.7	36.9	35.6	38.3	41.3	39.1	38.8	38.1	34.8	32.4
37.8	37.2	37.1	36	35.2	36.2	40.5	38.1	37.9	36	32.4	29.8
37	37.2	37.5	35.4	35.7	34.7	41	37.8	36.9	33.7	29.6	27
37.1	37.4	37.3	35.2	35.4	33.3	40.1	37	34.7	30.5	26.5	24.3
41.3	43	40.3	41.8	39.7	39.3	41.5	38.4	34.9	30.8	26.4	24
41.2	43	40	40.9	39	38.5	40.7	37.4	34	30	25.6	23.6
40.1	41.5	39.2	39	37.9	36.5	40	35.5	32.4	29	25	23.1
39.4	41.2	38.1	37.5	36.6	35.3	38.9	34.2	31.8	28.7	24.9	22.7
38.4	39.8	37.6	36.6	36.7	36.5	37.6	34.9	33.6	32.7	30.4	28
37.9	38.2	38.2	36.8	37.1	36.4	37.4	35	33.5	32.5	30.3	27.8
39.3	39.3	38.7	36.9	36.5	35.2	38.1	36	34.3	32	29.4	27.2
39.7	38.9	38.7	37.1	36.2	34.8	38	35.4	33.2	30.9	28.1	25.9
39.7	39	39	37.8	36.4	34.9	37.9	34.4	32.9	30.7	28.6	26.7
39.4	38.4	38.4	37.4	36.4	34.7	37.1	33.9	32.4	30.1	27.9	26.1
39	37.5	37.5	36.6	35.6	34.1	37.3	34.1	31.4	29	25.9	24.3
39.4	36.7	37	35.6	35.3	34.2	38	34.3	31.6	29	24.7	22.9
40.2	37.6	37.8	35.8	35.3	34.4	37.8	33.7	32.2	30.2	27.7	26.6

25.2	23.4	23.6	24.5	46.2	44.7	48.2	49.3	50.7	47.5	54.1	51.2	52.8
25.8	23.4	23.7	24.5	47.4	44.9	47.6	49.6	51.4	47.9	55.4	51.5	54.5
24.7	23.1	23.7	24.6	47.4	45.7	44.4	51.1	51.9	47.5	54.4	51.3	55.6
25.1	23	23.7	24.6	47	47.5	43.1	49.3	49.3	48	53.4	50.8	53.2
25.2	23	23.7	24.6	43.9	48.9	43.7	48.5	48.3	48.3	54.1	49.8	51.5
23.5	22.9	23.6	24.6	43.6	47.1	43.7	47.2	47.6	47.7	52.9	49.6	50.6
23.5	22.9	23.7	24.6	47.4	46.9	44.5	45	46.5	46.7	53.8	49.7	49.2
23.4	22.9	23.7	24.6	45.6	45.7	45	44.7	45.6	51.1	52.2	48.2	50.8
22.9	22.8	23.6	24.6	44.8	46	49	48.1	49.3	48.4	52	47.1	51.3
22.5	22.8	23.6	24.5	45.1	46.2	47.8	48.3	47.7	47.3	50.8	48.3	51.4
22.3	22.8	23.6	24.5	47	49.7	45.2	50.5	47.9	46	52.3	47.8	51.7
22.2	22.8	23.6	24.5	45.9	50	46.3	48.8	47.8	44.2	50.2	47.9	51.7
22.1	22.7	23.7	24.6	45.4	48.1	45.8	47.8	46.2	43.3	50.4	47.1	53.3
22	22.7	23.7	24.6	45.2	46.7	45.9	46.8	46.2	45.5	49.5	47.6	52.4
22	22.7	23.7	24.6	45.2	46.5	47.5	47	48.2	45.7	50.3	47.8	52.2
21.9	22.7	23.6	24.6	46.1	46.6	45.4	47.3	47.3	46	50	48.7	52.9
21.9	22.7	23.7	24.6	45.6	46	44.9	47.3	47.1	47.2	49.8	50.1	53.6
21.9	22.7	23.7	24.6	45.4	45.3	45.1	49.5	51.8	48.1	50.5	49.3	51.9
21.9	22.7	23.6	24.6	45.6	45.3	47.5	49.6	50.5	48.3	49.7	50.6	51.2
21.9	22.6	23.6	24.7	44.2	44.5	48.1	47.7	50.2	49	50.4	50.4	50.8
21.9	22.7	23.6	24.7	43.7	44.4	46.5	46.8	47.5	47.8	50.7	49.6	50.9
22.1	22.8	23.6	24.6	46.9	46.3	46	46.3	45.6	47.4	52.3	48.3	50.3
22.1	22.8	23.6	24.6	45.7	46.9	44.9	48.5	45.6	47.9	51.7	48.2	50.8
22.1	22.7	23.6	24.6	43.3	44.5	44.4	48.6	46.9	47	51.9	50.7	50.7
22.3	22.7	23.7	24.6	40.2	42.6	45	48.3	45.9	45.1	51.7	49.5	51.3
22.2	22.7	23.6	24.6	39.6	42.3	44.6	47.7	45.5	48	50.1	49.5	54.9
22.2	22.8	23.7	24.6	38.1	41.8	43.8	48	49	47.1	50.2	54.1	55
22.1	22.7	23.7	24.6	38.2	39.5	42.4	49.3	49.7	46.3	50	51.7	54.8
22	22.7	23.6	24.6	38	39.5	45.9	50.7	48.8	46.9	50.4	49.5	54.6
22.1	22.7	23.6	24.6	39.9	42.4	45.5	47.9	49.3	46.9	51.3	47.6	54.4
22	22.7	23.7	24.6	40.7	45.2	43.1	47	49.4	47.4	52	49.3	55.3
21.9	22.7	23.7	24.5	41.7	43	42.5	45.8	48.3	48.4	50.9	51.3	54.8
21.9	22.6	23.7	24.6	43.4	43	46.7	46.1	47.3	45.8	49.6	52	54.7
21.8	22.8	23.5	24.5	41.6	42.3	47.2	46.8	48.6	45.6	49.2	51.1	55.7
21.9	22.6	23.6	24.6	40.2	41.4	46.6	47.7	49.7	47.9	51	50.8	55
21.8	22.7	23.6	24.6	38	41.2	45.7	47.5	49.9	48.6	50.2	50.2	55
21.9	22.7	23.6	24.6	36.9	41	44.6	47.9	50.8	48.4	50.4	49.9	53.4
21.9	22.7	23.6	24.6	38.7	40.9	42.7	47.6	51.6	48.2	50.4	50.2	53.1
21.8	22.7	23.6	24.6	41.6	45.3	43	47	50.2	46.9	48.8	50.7	52
22	22.6	23.6	24.6	39.7	44	44.5	48.7	48.2	45.7	48.8	50.9	52.3
22.1	22.6	23.6	24.6	38.3	43.9	46.3	48.8	46.3	45.6	49.7	51	51.1
22	22.7	23.7	24.6	38.8	43.4	46.6	47.5	45.5	47.4	50.7	50.8	51.4
21.9	22.7	23.7	24.6	42	42.9	45.5	47.9	48.1	46.8	49.5	51	51.3
21.8	22.8	23.6	24.5	42.1	42	44.6	45.6	48.1	47.4	49	51.5	50.4
21.9	22.8	23.6	24.6	44.6	40.7	43.8	44.7	47.8	47.4	49.2	51.7	49.9
22.4	23.1	23.6	24.5	47.2	40	44.9	47.1	48.1	46.3	48.4	50.3	50.1
22.6	23.1	23.6	24.7	45.5	43.3	44.5	46.1	49	45.9	47.6	49	49.9
22.3	22.9	23.7	24.6	42.1	43.7	45.2	46.9	47.9	46	48.2	47.4	50.3
22.5	22.9	23.6	24.6	41.6	46.1	46.7	48.1	47.1	47.6	49.3	47.5	51.4
24.1	23.7	23.7	24.5	44.6	46.5	47	48.5	47.3	48.7	49.8	49.9	51.3
28.8	25.1	24.3	24.7	46.2	44.3	44.5	47.5	49.5	48.6	50.1	51.1	51.1
32.6	27.2	24.6	24.7	44.8	43.8	43.2	46.4	51.1	50.8	49.9	51	52.1
30.1	25.9	24.7	24.9	45.6	42	43.6	48.8	52.4	50.9	50	51.1	51.4
28.9	25.9	24.7	24.9	42.5	41.2	47.6	46.6	51.7	50.3	50.4	50.9	51.7
31.8	26.5	25	24.9	41	40.6	46.2	47.2	50.8	48.1	48	49.5	50.3
29.8	27.6	25.6	25	42.6	41.7	45.8	47.7	49.1	48.8	48.6	48.3	48.6
29.8	27.7	25.7	25.1	40.9	40.8	44.2	46.4	50.5	48	49.4	48.3	49.3
28.7	26.9	25.4	25	40.4	42.5	47	46.6	50.8	48.2	49.5	49.8	48.6
27.4	25.6	24.7	24.8	39.2	45.6	44.8	47.2	49.5	49.3	50.9	50	49.3
25.7	24.4	24.2	24.7	40.3	45.9	44.8	47.1	49	48.7	49.8	50.8	50.5
24.5	24	23.9	24.6	42.9	45.4	46.2	49.8	50.4	47.8	49.7	49.6	48.3
24.1	23.7	23.7	24.6	41.9	44.3	43.6	49.6	49.7	47.2	49.9	49.3	47.8
23	23.2	23.7	24.5	43.9	43.2	43.9	48.8	48.6	47.1	49.3	49.9	49.9
23.7	23.3	23.7	24.6	40.5	43	45.4	50	48.1	46.5	49	50.2	49.9
24.1	23.6	23.8	24.6	39.1	44.3	44.4	48.1	49.4	52.2	55.2	52.6	50.1
25	23.2	23.7	24.6	37	46.1	43.2	46.4	52.7	52.8	52.2	51.6	49.9
24.3	23.1	23.7	24.6	35.2	43.8	42.5	46.4	51.3	50.2	51.7	50.8	49.8
23.1	22.9	23.6	24.6	41.8	41.1	40.4	46.9	50.4	49.4	52	49.8	48.8
25.5	23.7	23.6	24.6	43.3	41.2	40.4	48.3	50.7	48.8	51.9	48.8	48.8
24.8	23.6	23.8	24.6	43.9	42.9	41	48.1	51.1	50.6	51.2	48.2	49.1
23.8	23.4	23.8	24.6	44.6	42.9	41.6	48.2	52	50.2	51.5	51.1	51
24.9	23.1	23.7	24.6	42.8	43.9	41.2	46.6	49.9	49.9	50.4	48.6	50.2
24.1	23	23.7	24.6	41.6	41.7	41.5	46.7	49.8	49.4	50.2	47.8	50.4
24.1	23.3	23.7	24.6	41	42	45.6	46.6	48.5	48.5	51	48	50.2
24.8	23.7	23.7	24.6	38.6	41.6	46	48.3	48.5	48.1	49.5	46.9	49.2
23.9	23.4	23.6	24.6	39	39.3	46.9	48.8	48.3	47.9	48.1	46.3	48.9
24.3	24	24.1	24.7	39.5	38.7	44.3	48.4	47.5	47.3	47.8	46.7	48.5

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.7	23.5	23.8	24.6	39.5	41.1	42	50.2	50	46.6	49.4	47.7	49
23.2	23	23.7	24.6	39	42.1	43.1	49.1	48.6	45.5	48.4	47.2	49.5
22.4	22.7	23.7	24.6	39.7	42.2	45.5	48.4	47.4	44.2	47.3	48.8	50.2
23.9	23.4	23.9	24.6	43.4	43.2	46.2	50.2	46	42.7	47.3	49.4	50.2
28.8	26.2	24.8	24.9	40.4	42.3	46.1	48.5	47.6	47.2	50.6	49.5	49.1
32.3	28.8	25.2	25	40.2	44.4	46	48.1	48.3	46.8	51	50.3	50.8
32.2	28.7	25.1	24.9	42.7	44.6	44.9	48.1	48.7	48.4	50.4	50.4	50.8
30.5	27.2	24.7	24.8	41.8	44.5	44.9	47.8	51	46.7	50	50.2	50.8
32.8	29.1	26.6	25.7	41.5	44.6	44.3	47.9	49.5	46.7	50.7	49.4	51.4
35.6	31.9	27.5	25.7	41.1	45	45.5	47.2	50.2	45.7	49.7	49.3	52
33.1	29.7	26.1	25.2	40.5	44.8	47	47.2	49.3	46.8	48.9	50.3	49.8
29.4	26.7	24.8	24.7	41.1	43.4	48.4	46.1	47.9	46.2	48.8	50.7	50.3
26.4	24.6	24.1	24.6	41.9	42.6	45.1	45.9	47.6	46.3	49	50.6	50.9
25.6	24.3	24	24.6	42	42.8	44.9	44.5	46.3	49.9	48.8	50.6	51.4
24.1	23.6	23.8	24.6	42.7	42.4	44.7	46.1	45.4	48.9	48.6	48.9	49.9
23.4	23.3	23.7	24.6	42.7	43	43.7	45.8	49.2	47.5	47.5	48.2	49.1
23.4	23.3	23.7	24.6	43	43.6	42.3	45.8	46.5	46.1	49.8	48.8	50.2
23	23.1	23.6	24.6	42.8	45.1	41.1	46.2	46.4	45.9	47.6	49	52.2
22.9	23	23.7	24.6	44.2	43.7	42	46.5	46.8	46.7	47	50.7	49.9
22.7	22.9	23.7	24.6	44.7	43.6	43.9	46.9	49.7	45.9	48	49.9	49.5
26.6	24.3	24.2	24.7	44.9	42.1	44.4	47.6	49.6	49.6	47.5	48.2	49.5
26.4	24.3	24.2	24.7	45.9	42.6	43.8	46.1	50.2	47	46.7	47	49.9
25.8	24.2	24.2	24.7	42.3	41.8	46.5	48	50.3	46	46.9	48.6	49.9
24.6	23.6	23.8	24.6	42.1	42.7	46.2	47.4	49.3	46.2	47.1	48.9	49.9
26.1	24.8	24.5	24.9	42.5	45.6	46.2	47.5	49.1	48.3	47.7	49	51.3
25.5	24.4	24.3	24.8	41.5	45.9	47.3	48.2	48.2	48.2	47.8	48.9	51.5
24	23.5	23.9	24.7	42.8	46.1	46.3	46.7	48	49.4	47.6	48.5	51.3
23.1	23	23.6	24.7	41.2	45.4	45.3	45.3	49.8	48.5	47.9	49.8	51.3
25.4	24.6	24.4	24.9	41.7	42.2	44.9	46.2	48.9	49	47.7	49.5	50.8

54.5	54	51.7	48.9	52.3	46.1	43.4	42.6	41.8	39.5	41.6	41.6	42.9
54.3	53.3	51.6	47.8	51	44.7	41.7	41.4	40.2	37.8	40.6	39.6	43.4
53.7	51.6	50.9	46.3	49.4	42.5	41.7	40.2	39	37.2	38.7	38.3	45.7
53.3	51.4	49.6	45.9	48.9	42.2	40.7	40.2	37.7	36.3	37	36.5	44.1
52.9	51.1	49.3	45.4	48.5	41.6	40	40	37.6	36.2	37.3	36.3	41.9
53.7	50.8	49.1	44.5	47.7	41.8	40.3	40.3	36.9	35.8	37.2	35.5	38.8
53.7	51.3	49	42.9	45.9	41.3	39.6	39.8	36.9	35.7	36.5	35.4	36.7
54.3	50.7	48.8	43.2	44.7	41.1	39.3	40.3	37.1	35.3	36.3	35	34.6
55.2	50	47.7	44.9	43.9	41.5	39.3	40.3	37.8	35.5	36.7	35.5	34.1
55.5	50.3	47.4	44.6	44.1	42.2	40.1	40.9	37.5	36	37.6	35.8	33.2
54.8	49.5	47.6	44.2	46.5	42.8	40.4	40.9	37.1	35.8	37.5	35.9	33
54.1	49.6	47.7	44.5	45.5	42	39.3	40.4	36.2	36	38.9	41.3	33.8
53.9	49.3	47.6	44.4	45.8	41.9	39.4	40	36	36.1	38.5	39.6	33.2
53.2	50.9	49.7	47.1	46	41.5	39.8	39.8	36.4	36	37.2	37.6	33.2
52.6	50	49.1	47.9	45.8	42	40.6	39.7	36.7	35.9	37	36.9	34.5
52.3	49.9	49.7	47.5	45.1	42.7	41.1	39.7	37.3	40.6	47.3	42.8	42
53.2	51.5	49.7	48.5	44.7	42.9	40.9	40.3	37.8	44.3	49.5	42.3	45.7
56.2	55	49.5	47	45.5	42.4	41.1	41.4	37.9	42.4	47.3	41.7	44.3
58.8	53.6	49.4	47.8	45	42.6	41.9	42.2	38.2	42	48.3	49.2	44.7
61.9	53.1	51.4	47.7	45	43	41.6	41.7	37.8	39.3	44.6	45.3	41.3
60	61.3	50.1	47.2	45.1	42.6	40.1	40.7	37.3	38.1	42.4	43.1	39.5
59.9	57.7	49.8	46.8	43.8	41.9	40.1	40.7	37.6	43.1	52	46.7	47
60.6	54.9	49.1	48.4	43.8	42	40.9	40.8	38.2	40.1	47.9	43	43
58.8	52.7	48.9	48.7	43.9	41	40.5	40	36.8	38.4	44.9	40.5	40.2
58.2	51	49.4	49.7	43.3	40.6	39.4	39.9	36.6	42.6	55.7	50.5	43.7
57.4	50.6	50.1	49.4	44.3	43	44.7	45	41.5	41.2	51.6	46.5	41
56.2	50.4	49.8	47.7	43.7	42	43	43	39.5	39	47.7	43.1	38.6
56.7	50.2	48.7	45.5	42.5	41.7	41.1	41.8	38.5	37.9	44.1	40.7	38
56.6	49.2	47.8	44.8	42.6	42.1	40.8	41.2	38.1	37.5	42.6	39.8	37.9
56.4	50	48.3	45.6	43.8	42.2	40.8	41.3	38.7	42.9	55.3	50.9	45.2
54.9	51.6	49.2	46	44.7	43.4	41	42.3	38.8	40.9	51.4	47.8	43.3
54.4	52.2	49.9	46.9	44.1	43.6	43.5	42.6	38.9	39.6	47.5	44.4	41.4
53.6	53.3	52.5	46.9	45	43.2	43.1	42.4	38.9	38.7	44	42.3	40.1
53.3	53.6	52.6	47.6	45.5	43.7	43.6	42.9	39.3	38.5	41.6	40.8	40.2
52.8	53.9	52.4	47.7	45.3	43.1	42.9	42.3	40.3	37.8	39.9	40.3	39.4
53.9	51.7	52.1	46.4	44.8	42.6	42.4	41.8	39.4	37.1	38.1	38.7	37.6
53.6	51.7	51.2	46.5	43.9	42.5	42.3	41.4	38.2	36.8	37.4	37.8	37
54.3	52.4	50.5	45.6	44.1	42	41.8	40.5	38.1	36.9	36.8	36.5	36.1
53.7	52.3	49.5	45.9	44.1	41.9	42.1	40.4	37.2	36.1	35.9	35.5	35.3
55.8	52.2	49.3	45.5	43.8	42.3	41.3	40.7	37.4	35.6	35.1	35.7	34.4
54.7	53.2	48.9	45.2	42.8	41.9	41.3	39.8	37	40.6	56.4	53.2	48.7
55.4	52.9	48.6	45.3	42	41.5	40.1	39.5	37.1	41.6	54.2	52.5	44.9
54.4	51.8	48.1	45.4	41.8	41.2	39.5	39.3	36.3	39.1	50	48.3	41.1
53.2	49.9	47.1	45.9	43.1	40.9	39.5	39.4	36.2	37.4	46	44.4	37.8
53	50.2	46.7	46	42.9	41	39.7	39.6	36.3	36.6	42.3	40.9	35.3
53.5	50	47.2	47.5	43.1	41	39.1	39.8	36	35.6	39.3	38.4	34.1
53.1	51.3	48.4	46	43.2	41.6	39.2	39.3	36.1	35.7	38.2	37.3	34
53.3	51.3	48.7	45.8	43.7	41.5	39.3	40.6	36.6	35.9	38.1	37.2	36.8
52.6	51.9	47.7	45.1	43.9	41	40.6	40.4	36.8	36.5	36.7	35.5	35.1
52	51.9	47.9	45.2	43.8	40.6	39.2	40	36.7	35.9	35.8	34.7	33.4
52.8	51.3	48.1	46.9	43.8	40.6	38.7	39.6	36	35.3	35.3	34.5	32.8
52.6	51.3	47.9	46.5	43.1	40.2	38.4	39.4	36.5	35.5	35.2	34.8	33.1
53.6	50.7	47.9	46.3	42.9	40.7	39.3	39.3	37	35.7	36	34.7	33.7
53.1	50.3	47	45	43.3	40.9	38.8	39.4	36.1	35.5	35.4	34.7	33.5
53.5	50.2	47.4	44.4	43	41.2	39.1	39.2	35.9	35.3	35.3	34.2	33.1
52.9	51.3	47.6	44.9	43.1	40.7	39.6	39.9	36.9	35.8	35.3	34.1	33
52.9	51.1	48.5	44.9	43.1	41	40	40.4	36.7	36.1	35.5	34.1	33.4
52.9	51.6	48.7	44.9	42.8	40.2	39.8	39.5	36.4	35.8	36.5	35.2	35
53.5	51.1	49.5	44.9	42.6	39.5	39.7	38.8	36.1	35.6	36.1	35.5	33.8
52.8	49.9	49.1	47.4	42.4	40.4	39.5	38.8	36.4	35.8	35.2	35.3	33.4
52.9	49.6	48.4	47.2	42.2	39.9	39.6	38.9	36.4	35.4	35.2	35.5	33.3
53	49.8	47.2	46.7	42.5	39.8	39.2	38.7	36.2	35	35.8	35.1	33.1
53.4	49.3	47.4	46.5	42.9	39.9	39.4	39.1	36.3	35.1	35.9	35.1	32.8
54	50.1	47.8	45.4	43.1	40.1	39.4	40.1	36.6	35.3	35.5	35.2	32.6
54.7	51.6	47.1	45.7	45.3	40.8	39.7	42.1	37.4	36.6	36.3	35.6	35.3
55	50.8	47.4	44.8	45.8	40.7	39.9	40.7	36.6	36	36.1	35.6	41.8
55.5	50.8	49.1	45.4	44.9	40	39.4	39.7	36.6	35.7	35.9	35.4	42.7
56.6	51.3	48.5	45.2	43.9	40.1	38.7	39.1	36.9	35.5	35.4	35.2	42.6
56.3	51.5	48.4	45.4	43.1	40.9	39.1	39.1	36.7	35	35.7	35.5	43.5
56.8	51.5	49.3	46	43.6	42.3	39.1	39.7	37.5	36	35.9	36.2	43.3
55.5	51.7	47.9	46.1	44.7	40.7	38.6	39.5	36.7	35.4	35.3	35.7	43.2
53.9	51	48.1	45.6	43.9	39.8	37.9	39.4	36.6	35.2	35.3	35.4	43.3
53.5	51.5	47.7	45.2	45.8	40.8	39	40.3	37.2	34.5	35.7	35.8	41
54.2	51.1	47.9	44.8	44.2	41.5	39.1	39.3	36.5	34.8	36	36.2	39
54.4	51	47.7	45	44.1	41.6	40.1	39.8	36.8	35	37	37.6	37.1
54.8	50.3	47.8	44.9	44.5	41.2	40	39.5	36.6	35.6	36.4	37.5	35.2
54.8	50.5	48.6	44.6	44	41.2	39.7	39.6	36.9	35.5	36.3	37.2	34.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
53.8	50.8	47.7	44.1	43.8	41.2	39.5	39.5	36.8	36.2	37.4	36.2	35
53.1	49.6	46.9	44.6	44.2	40.5	39.2	39.7	36.4	36	36.9	36.1	33.9
52.4	49.4	46.3	44	43.5	40.6	39.2	39.3	36.6	35.1	36.3	35.3	33.3
50.8	49	46.2	45.5	43.4	40.5	39.4	39.3	36.5	35.3	36.2	35.5	33.4
51.6	49.4	45.9	44.6	43.3	41	38.8	39	36.6	35.7	36.4	37.1	35.5
53	51.4	48.1	48.1	43.4	41	38.8	39.6	38.1	38.2	38.4	41.5	39.1
52.6	50.7	48.9	48	43.1	40.8	39.3	38.9	37.9	37.4	39.7	39	40.9
53	50.4	48.5	48	42.9	41.3	38.8	39	37.8	36.8	39	38.2	39.1
53.3	50	48.3	48	43	41.5	39	40.8	38.6	38.7	39.9	38.8	38.1
53.2	49.6	48.7	47.3	44.6	41.5	39.9	40.8	38.4	38	39.1	38.3	37.8
53.9	50.5	48.7	45.9	44.5	41.6	40.8	40.3	38.3	37.7	38.7	37.7	37
53.6	50.6	48.8	44.3	43.8	41.6	40.8	39.9	37.7	36.3	37.3	36.5	36
53.4	51.6	49.5	44.1	43.7	40.4	40	39.4	38	36.1	36.8	36.6	36
54.8	51.9	48.9	46.1	43.6	40.3	40.1	39.8	37.4	36.2	36.6	36.8	36.3
54.4	51.8	48.3	47.5	44.8	40.8	40	39.8	37.5	36	36.6	36.6	36.7
54.7	51.1	48.7	48.3	44.3	41.7	40.1	39.9	37.8	36.5	36.7	36.7	36.4
55.5	50.5	47.9	47.3	44.1	42	40.2	40.5	38.7	36.4	37.2	37	37.4
54.6	49.7	47.6	46.4	44.5	42.6	41.9	40.7	39.3	37.4	39	40.1	41.5
54	49.4	47.3	45.5	44.8	43.7	41.6	40.6	38.6	37.1	38.4	38.7	40
53.2	48.1	47.2	44.7	44.6	43.3	41.1	41.2	38	36.4	39.1	38.4	39.8
53.1	48.6	47.3	44.5	45	41.7	40.2	41.1	38	36.4	38.9	37.6	38.1
54.4	49.5	48	44.8	44.9	41.8	39.1	41	37.6	37	38.5	37.5	37.6
54.4	49.9	48.8	44.5	45.5	42.6	39.1	40.9	38.1	36.8	38.6	37.7	37.4
54.3	51.9	49	46.2	45.5	43.2	40.5	41.8	40.5	37.6	39.3	39.2	38.3
55.6	52.2	50.3	45.8	44.9	43.8	40.6	43.8	40.9	37.7	40.2	39.4	38.3
56.3	53.1	49.4	45.1	44.8	42.9	40.3	42.8	41.1	37.7	39.2	38.9	37.3
55.5	52.2	50	45.9	44.1	41.9	40.3	41.9	40.8	37	38.6	38.5	36.7
54.8	51.4	49.9	45.4	44.6	42.3	40.7	41.4	40.6	36.6	38.4	38.5	36.2
54.7	51.3	50	45.4	44.3	42.6	41.3	40.8	40.3	36.7	38.9	39.1	36.5

39.9	38.3	38	35.9	39	33.8	31.4	31.5	27.1	25.5	23.9	23.1
38.2	38.6	39.8	39.3	42.3	39.7	37.4	36	32	28.1	24.7	23.1
36.2	36	37.3	37.1	40.4	37.8	35.2	33.8	30.5	26.8	24.1	23
34.6	34.3	35.5	35	38.2	35.7	33.1	31.1	27.7	24.5	23	22.7
34.9	36.3	38	40	42	40.1	37.9	34.9	32.4	27.5	23.5	22.8
34.1	34.9	35.9	37.2	39.7	37.5	34.6	31.4	28.8	24.9	22.5	22.8
34.4	34.3	34.5	35.6	40	37.2	34.3	31	26.9	23.7	22.2	22.8
33.5	33.1	33.4	34.4	40.1	36.1	33	29.3	25.3	23.4	22.8	22.7
33.5	32.6	34.1	34.1	39.6	36	32.7	29.3	24.5	22.7	22.4	22.7
33.1	31.9	35.6	34.2	38	34.8	31.4	27.7	24	22.4	22.3	22.7
33	31.5	34.1	33.4	34.8	32.3	30.5	26.7	23.8	22.3	22.2	22.7
33.7	32.6	33.1	32.8	34.4	31.2	29.3	25.4	22.6	21.8	22	22.7
33.7	32.5	32.9	32.4	34.8	31.1	27.9	25	22.1	21.5	21.9	22.6
33.8	32.6	33.1	32.3	33.1	30.1	27.7	24.8	22.2	21.5	21.9	22.6
34.8	32.8	32.9	32.1	32.8	29.7	27.5	25	22.2	21.4	21.9	22.6
45.2	37.9	36.1	33.7	35.9	30.8	27.6	25.6	23.7	21.5	21.8	22.6
48	40	36.3	35.1	35.3	31.1	27.8	25.7	23.7	21.6	21.8	22.5
46.3	39.5	36.3	35.1	35.2	31.3	27.7	25.5	23.3	21.5	21.7	22.6
47.2	46.1	37.8	35.9	34.5	31.6	27.4	25.4	22.7	21.7	21.8	22.5
43.7	42.4	36.4	34.6	34.4	31.6	26.2	24.4	22	21.6	21.8	22.5
41.9	40.5	35.3	33.4	34.3	31.5	27.3	24.3	21.7	21.5	21.8	22.5
48.2	43.3	34.7	34.8	35.4	31.5	27.3	24.5	21.9	21.6	21.9	22.6
44.2	39.5	33.8	33.6	35.8	33.8	29	26.3	22.7	21.6	22	22.6
41.5	37.1	32.9	32.9	34.5	32	27.2	25.1	22.2	21.4	21.9	22.6
47.8	42.5	40.1	36.4	36.8	32.6	28.7	25.4	22.9	21.7	21.9	22.6
46	39.2	37.6	36	37.4	34	30.3	26.6	23.3	21.6	22	22.6
42.4	36.7	35.7	34.2	35.7	32.5	29.3	26.2	23.2	21.6	22	22.6
40.8	36.2	35.5	34	34.5	31.5	28.2	25.3	23	21.6	21.9	22.6
40.3	36.6	36.2	35.3	35.1	33.5	31.1	26.5	23.3	21.6	21.8	22.6
48.7	44	41.3	38.7	39.4	37.5	33.8	30.6	25.5	21.9	22	22.6
45.6	41.7	39.4	38	42	38	36.3	31.5	26.8	21.9	21.9	22.7
42.7	39.6	38.4	36.9	40.6	35.4	33.5	29	24.6	21.5	21.8	22.5
41.5	39.4	38.4	37	39.2	33.9	31.6	27.7	23.6	21.5	21.8	22.5
40.5	38.4	37.8	36.7	38.1	33	30	26.4	22.8	21.3	21.8	22.6
38.5	36.6	36.3	35.3	37.5	32.2	29.2	25.7	22.4	21.3	21.7	22.6
37.3	35.3	35.1	33.9	38.3	32.6	29.8	26.1	22.4	21.3	21.7	22.5
36.4	34.4	34	33.5	39.7	33.7	31.4	27.2	22.6	21.3	21.8	22.6
35.7	34.4	34	33.7	40.8	35.1	33	28	23.2	21.2	21.7	22.6
34.2	34.2	33.5	34.1	43.3	37	34.2	29.9	24.4	21.2	21.7	22.6
33.8	33.4	34.1	34.6	44.5	38.4	35.3	31.4	25.8	21.2	21.7	22.5
47.4	39.9	44.3	38.8	45.5	40.2	37.2	33.7	28.1	22.1	21.9	22.5
45.3	37.7	41.6	38.6	46.2	40.5	38.3	34.2	28.1	22.1	21.9	22.5
41.3	35	38.4	36.8	45.8	39.2	37.1	32.9	26.7	21.6	21.8	22.6
37.8	33.8	36.4	36.2	45.6	38.8	36.8	32.6	26.8	21.5	21.7	22.6
35.1	33	36.1	36.3	46.1	39.6	37	33.8	26.5	21.3	21.7	22.6
34.1	32.3	34.3	35.6	45	38.7	35.8	32.5	25.7	21.4	21.8	22.7
33.2	32.1	33.1	34.8	42.9	37	34.5	30.7	25.6	22.4	22.3	22.9
32.7	31.8	32.7	34.5	42.9	36	33.9	29.8	24.6	21.8	22	22.8
32.4	31.4	31.6	33.4	40.4	33.5	31.6	28.2	23.9	22	22.1	22.8
32.7	30.9	30.5	31.6	38	32.2	29.5	26.8	24.2	22.7	22.6	22.9
32.2	30.7	30.2	31.2	36	32.4	29.5	27.2	26.1	24.6	24	23.7
32.4	30.8	31.3	32.1	36	33.2	31.5	31.2	32	29.6	28.8	25.2
33.8	32	32.7	33.1	36.3	33.9	33.9	31.8	30.7	30.2	28.6	25.3
34.4	33	34.1	34.6	38	35.5	34.6	32.7	29.5	28.5	27.5	25.2
34	33.4	34.3	35	39	35	33.9	32.5	29.4	28.2	27.6	25.1
34	33.4	34.2	35	38.9	35.3	34.2	33	30	27.2	27.1	24.6
35	33.7	35.6	36.4	40.5	38.7	37.7	35	31.4	28	27.7	26.1
34.5	35	36.6	37.6	42.4	38.2	36.9	34.2	31.1	28	27.1	25.5
33.6	34.3	35.7	36.5	42.7	38.2	36.8	34.6	30.4	26.5	25.5	24.4
33.3	33.7	35.5	36.4	44.9	38.9	37.5	34.5	29.6	24.9	24.1	23.6
33.2	33.6	36.1	37.3	47.6	41	39.1	35.4	29.6	24.7	24	23.5
32.5	33.5	36.5	37.2	48.4	42.4	40.2	35.9	29.8	23.6	23	23.2
32	32.8	36.2	37.8	49.7	43.4	41.5	37.4	31.2	22.7	22.5	22.9
31.8	33	36.5	39.2	51.8	44.3	42.9	38.6	32.1	22.8	22.4	22.8
31.9	33.5	37.9	40.8	52.6	46.4	44.5	39.9	33	25.1	23.3	23.2
31.6	33	37.4	40	52.1	45.8	43.6	39.2	32.5	24.2	22.8	23
33.6	35.2	38.3	41.1	50.5	45.2	43.1	39	33.5	26.1	23.1	22.8
32.5	33.8	36.7	39.3	49.3	44.3	42.3	37.5	31.6	23.8	22.3	22.7
32	33.3	36	38.5	48.5	43.2	41.1	36.5	30.3	23.3	22.2	22.7
33.6	35.7	38.9	39.8	46.9	42	39.7	36.2	31.8	26.3	23.8	23.2
32.5	33.4	35.9	37.6	43.9	38.8	36.7	33.1	28.7	24.5	23.1	23.1
32.3	32.8	35.2	37.1	43.2	38.1	36.1	32.5	27.7	23.7	22.8	22.9
33	35.3	37.5	39.5	44.9	40.2	38.4	35.1	31.3	26.2	23.1	22.8
33.1	34.7	35.7	38.1	43.3	38.4	36.5	33.8	30.5	25.8	23.3	23
33.4	33.8	34	36.4	42.7	37.5	36	33	29.5	25.6	23.4	23.1
32.4	31.9	33	34.6	41.7	36.3	34.2	31.6	27.3	24.1	22.9	22.9
32.3	32	33	34.8	41.5	36.8	34.4	31.7	27.4	24.1	23	22.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
33.2	35.1	34.8	36.3	42.2	38.8	36.2	31.9	28.1	23.6	22.9	23
32.8	33.3	34.4	35.5	42.8	38.2	35.8	31.7	26.5	22.7	22.4	22.6
33.4	32.5	33.9	35.1	43.1	38	35.7	31.3	26.2	22	22.1	22.6
34	32.2	33.5	35.1	42.5	36.9	35.2	31	25.7	22	22	22.6
36	32.6	34.2	35	42.5	36.9	35.8	31.4	27.2	24.7	23.9	23.4
39.2	39.5	40	39.9	44.1	40.3	39	37.9	34.7	31.4	28.7	26.1
43.5	42.9	41.1	41.4	43.7	42.6	41.5	40.1	39.9	35.2	29.8	26.8
41.6	41.8	40.1	40.5	43.2	41.8	40.6	39.1	38.5	34.2	29	26.2
40.6	39.8	41.1	43.4	43.9	43.1	42.3	38.8	37.5	34.2	30.3	26.7
39.4	38.2	39.5	41.1	43	42.3	41.3	37.9	36.7	33.6	30.7	27.4
37.2	35.8	36.6	37.8	41.3	39.9	39.7	41.7	38.8	36.4	29.4	26.8
35.9	33.9	34.4	35	40	38.4	37.1	37.8	34.8	32.4	26.3	24.6
35.8	33.8	34.2	34.7	39.6	37.4	36.7	36	32.5	29.8	25.6	24.3
36.3	35	34.3	34.4	38.8	36.7	35.5	33.3	29.7	27	24.1	23.6
36.8	34.8	35.2	32.8	38.6	35.6	34.2	30.6	26.5	24.3	22.9	23
36.4	34.6	35.1	32.6	38.3	35.5	33.8	29.5	25.2	23.2	22.5	22.8
37.1	35.2	35.4	33.3	39.6	36.5	34	29.4	25.3	23.3	23	23.1
39.2	39	37.9	36.5	39.4	35.4	32.4	28.8	24.8	22.9	22.7	22.9
38	37.2	36.6	35.3	38.6	33.9	31	28.2	24.5	22.7	22.6	22.8
37.6	36.6	35.9	34.1	36.9	32.4	30.3	27.3	23.9	22.1	22.4	22.7
37	35.7	35.1	33.8	36.9	32	30.4	27.5	24.1	22.3	22.6	22.8
37.6	36	36.1	34.7	36.1	33.4	31.6	30.9	28.7	26.7	25.4	24
37.5	36.3	36.1	34.5	35.8	33.4	31.4	30.7	28.1	25.9	24.5	23.6
38.1	36.7	35.7	34.2	36.9	34.1	31.8	29.4	26.1	24.2	23.4	23.2
38.2	36.7	35.6	34	37.2	33.7	31.3	28.6	25.3	23.5	23	23
37.5	36.5	35.6	33.8	35.3	32.3	30.8	27.8	25.9	24.4	24	23.5
37	35.6	34.9	33.6	34.2	31.9	29.9	27	24.4	22.9	23.1	23
36.4	34.9	34.6	33.7	37.1	33.1	30.9	27.4	23.4	22	22.3	22.7
36.8	34.9	34.5	33.4	35.2	31.6	30.2	27.3	23.4	22	22.3	22.7

23.6	24.5	-1.8	No	No
23.6	24.5	8.9	No	No
23.6	24.5	7	No	No
23.5	24.5	-0.8	No	No
23.6	24.5	11.8	No	No
23.5	24.5	6.8	No	No
23.5	24.5	7.4	No	No
23.6	24.5	1.5	No	No
23.6	24.5	0.4	No	No
23.5	24.5	4.2	No	No
23.5	24.4	10.6	No	No
23.6	24.4	6.2	No	No
23.6	24.5	3.6	No	No
23.6	24.5	0.5	No	No
23.5	24.5	16	No	No
23.5	24.5	10.7	No	No
23.6	24.5	12.4	No	No
23.6	24.5	6.7	No	No
23.5	24.5	13.7	No	No
23.5	24.5	11.5	No	No
23.5	24.5	2.1	No	No
23.5	24.5	13.1	No	No
23.5	24.5	13.7	No	No
23.5	24.5	7.9	No	No
23.6	24.5	15	No	No
23.5	24.5	12.8	No	No
23.5	24.5	11.2	No	No
23.6	24.5	5.6	No	No
23.5	24.5	13.6	No	No
23.5	24.5	12.4	No	No
23.6	24.5	11.6	No	No
23.6	24.5	9.6	No	No
23.5	24.5	5.3	No	No
23.5	24.5	4.6	No	No
23.5	24.5	1.7	No	No
23.5	24.5	0.3	No	No
23.5	24.5	-0.1	No	No
23.5	24.5	0.9	No	No
23.5	24.6	-0.2	No	No
23.5	24.5	1.9	No	No
23.5	24.5	12.3	No	No
23.5	24.5	13.4	No	No
23.6	24.5	8.9	No	No
23.5	24.4	7.6	No	No
23.5	24.5	6.5	No	No
23.5	24.5	4.3	No	No
23.6	24.5	7.2	No	No
23.6	24.5	5.6	No	No
23.6	24.5	3.9	No	No
23.6	24.4	1.7	No	No
23.7	24.5	0.6	No	No
24.3	24.7	6.4	No	No
24.2	24.7	1.7	No	No
24.5	24.7	1.7	No	No
24.3	24.7	8	No	No
24.1	24.6	-1.8	No	No
24.9	24.9	10.9	No	No
24.7	24.8	2.5	No	No
24.1	24.6	1	No	No
23.9	24.6	0.8	No	No
23.7	24.5	5.7	No	No
23.6	24.5	1.6	No	No
23.6	24.5	0.8	No	No
23.6	24.4	1.3	No	No
23.6	24.5	6.7	No	No
23.6	24.5	4.8	No	No
23.5	24.5	3.2	No	No
23.6	24.5	7.1	No	No
23.6	24.5	8.2	No	No
23.5	24.5	9.1	No	No
23.7	24.5	5.6	No	No
23.6	24.5	7.1	No	No
23.6	24.5	3.2	No	No
23.6	24.4	6.8	No	No
23.6	24.4	2.5	No	No
23.6	24.5	0.2	No	No
23.6	24.5	4.7	No	No

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.7	24.5	3.1	No	No	
23.6	24.5	1.2	No	No	
23.6	24.5	2.2	No	No	
23.6	24.5	0.8	No	No	
23.8	24.6	10.3	No	No	
24.7	24.8	3.1	No	No	
24.5	24.7	12	No	No	
24.4	24.7	15	No	No	
24.7	24.8	15.9	No	No	
25.6	25.2	16.4	No	No	
24.8	24.7	13.8	No	No	
24	24.5	10	No	No	
24	24.5	6.8	No	No	
23.7	24.5	1.1	No	No	
23.6	24.5	4.2	No	No	
23.6	24.5	1.6	No	No	
23.6	24.5	5.9	No	No	
23.6	24.5	4.3	No	No	
23.5	24.5	2.3	No	No	
23.6	24.5	1.2	No	No	
23.6	24.6	6.3	No	No	
24.1	24.6	3.3	No	No	
23.8	24.6	1.9	No	No	
23.7	24.5	0	No	No	
23.6	24.6	1.9	No	No	
23.9	24.6	1.1	No	No	
23.6	24.6	1.7	No	No	
23.6	24.6	0.1	No	No	
23.6	24.6	0.7	No	No	

423		11/19/2021	2:01:56 PM	47.1	59.7	47.4	47.0	90.6	11.8	50.4	51.6	53	57.6	49.8	45.9	44.9	42.6	37.6
424		11/19/2021	2:01:57 PM	48.5	71.2	48.2	47.0	90.7	11	48.1	53.4	53.5	58.2	50.8	45.5	44.6	43	41.8
425		11/19/2021	2:01:58 PM	48.0	58.4	48.2	48.0	90.6	11.7	47.8	53.1	55.7	57.4	51.4	45.9	44.5	42.5	40.4
426		11/19/2021	2:01:59 PM	46.5	58.4	48.1	47.1	90.6	13.9	49.7	50.6	57.5	57.4	51.3	46.4	43.6	41.4	37.9
427		11/19/2021	2:02:00 PM	46.9	58.4	47.2	46.9	90.6	12.4	48.9	54.9	58.2	55.9	52	46.8	43.5	40.8	39.7
428		11/19/2021	2:02:01 PM	49.7	75.3	49.6	47.0	90.6	9.3	51.0	51	57.3	54.9	49.6	46.0	43.5	44.3	43.2
429		11/19/2021	2:02:02 PM	46.4	58.4	48.5	47.2	90.6	12.5	46.9	51.1	56.9	57.9	50.5	46.2	43.2	41.1	37.8
430		11/19/2021	2:02:03 PM	45.5	56.7	47.2	46.2	90.6	14.2	47.6	49.3	56	56.7	51.8	45.8	42.5	40.1	36
431		11/19/2021	2:02:04 PM	46.9	58.4	46.7	46.2	90.6	13.5	48.6	51.8	54.7	58	52.9	46.1	44.1	41.8	37
432		11/19/2021	2:02:05 PM	46.7	58.4	46.8	46.6	90.6	13.9	48.9	52.1	55.3	59	52.4	47.7	44.2	41.1	36.8
433		11/19/2021	2:02:06 PM	46.2	56.7	46.6	46.4	90.7	13.2	48.1	52.6	54.9	58.1	51.5	46.4	42.6	40.9	37.5
434		11/19/2021	2:02:07 PM	47.8	63.2	47.4	46.3	90.6	13.3	49.9	55.9	54.4	58.3	51.8	47.1	44.6	42.1	38.8
435		11/19/2021	2:02:08 PM	50.8	62.7	49.9	47.4	90.6	10.2	49.2	56.7	57.5	59.7	51.6	48.5	50.3	45.1	39.3
436		11/19/2021	2:02:09 PM	50.2	62.1	50.1	49.8	90.6	11	50.2	56.4	55.1	57.8	53	47.9	48.9	45.8	39.4
437		11/19/2021	2:02:10 PM	49.2	62.7	50.4	49.3	90.6	11.3	51.3	59.9	56.9	57.2	54.1	47.2	47.8	44.5	39.5
438		11/19/2021	2:02:11 PM	47.9	58.4	49.3	48.4	90.6	11.9	52.3	58.3	55.9	57.2	54.3	45.5	46	42.7	38.2
439		11/19/2021	2:02:12 PM	51.1	64.5	50.6	48.3	90.6	9.6	52.9	57.8	53.5	57.9	54.1	46.6	50.9	45.9	37.9
440		11/19/2021	2:02:13 PM	49.4	72.6	50.7	49.7	90.7	10.5	53.5	54.8	54.9	56.5	54.7	46.0	45.8	43.8	42
441		11/19/2021	2:02:14 PM	47.8	59.7	49.6	48.5	90.6	11.6	48.9	56.3	55.1	56	52.6	45.2	45.6	42.7	39.1
442		11/19/2021	2:02:15 PM	49.7	74.1	49.7	48.4	90.7	8.8	49.1	53.9	54.6	56.6	51.3	46.0	46.7	45	41.2
443		11/19/2021	2:02:16 PM	48.8	62.1	49.5	48.5	90.6	9.9	49.0	53.7	55.3	55.9	50	45.6	48.6	41.6	37.9
444		11/19/2021	2:02:17 PM	51.4	74.2	50.8	49.4	90.4	8.3	50.1	56.3	53.9	56.6	50.7	47.5	50.3	46.1	40.6
445		11/19/2021	2:02:18 PM	48.9	60.7	50.6	49.5	90.6	12.1	50.0	54.1	55.6	57.3	54.8	47.4	48.7	43.3	37.8
446		11/19/2021	2:02:19 PM	53.9	66.9	53.2	49.4	90.7	8.4	52.4	57.6	56.6	55.7	58.1	49.5	54.9	49	40.8
447		11/19/2021	2:02:20 PM	54.9	68.6	54.7	52.0	90.6	7.4	52.4	56.5	55.4	55.9	58.6	47.8	53.9	51.5	42.3
448		11/19/2021	2:02:21 PM	57.1	68.6	56.2	54.7	90.6	7	54.1	54.5	53.3	57.1	59.6	54.3	56.9	53.7	42.9
449		11/19/2021	2:02:22 PM	57.4	68.9	57.2	56.0	90.6	7	52.0	55.2	55	56.6	60	55.4	58.1	52.3	44.4
450		11/19/2021	2:02:23 PM	56.4	71.1	57.2	56.7	90.6	8.2	50.6	57	54.2	55	61.2	55.8	56.4	51.5	42.6
451		11/19/2021	2:02:24 PM	58.2	72.9	57.9	56.7	90.7	7.1	52.3	56.6	55.7	56	61.3	53.9	56.9	55.1	44.6
452		11/19/2021	2:02:25 PM	59.3	78.4	59.1	57.9	90.6	8.5	49.2	55	54	54.7	66	54.8	58.1	56.4	46.2
453		11/19/2021	2:02:26 PM	60.3	74.2	59.9	58.6	90.7	11.1	53.1	52.4	53.2	54.4	70	55.7	56.6	58	46
454		11/19/2021	2:02:27 PM	59.6	71.9	59.7	59.3	90.6	14.3	49.6	56.1	54.4	58	72.6	55.6	57.5	55.4	44.9
455		11/19/2021	2:02:28 PM	61.3	75.0	60.7	59.7	90.4	13.6	49.3	55.7	54.8	59.7	74	62.4	58.2	57.2	47.2
456		11/19/2021	2:02:29 PM	61.3	74.4	61.2	60.6	90.6	13.4	52.7	53.2	54.8	61.2	74	64.3	57	56.7	47.3
457		11/19/2021	2:02:30 PM	63.6	78.7	63.1	60.8	90.7	8.9	50.5	53.4	53.8	60.6	69.5	66.8	61.9	58.9	52.3
458		11/19/2021	2:02:31 PM	63.9	76.1	63.8	62.7	90.6	7.1	49.5	54.3	54	60.3	65.3	66.6	64.7	56.6	50.4
459		11/19/2021	2:02:32 PM	64.2	78.5	64.4	63.8	90.7	5.6	51.1	53.2	53.7	57	59.6	63.1	65.1	58	52.4
460		11/19/2021	2:02:33 PM	65.9	79.2	65.3	64.0	90.6	6.9	51.0	60.7	61.5	64.4	65.9	65.1	67.4	59.1	51.5
461		11/19/2021	2:02:34 PM	63.4	76.1	65.2	64.0	90.6	9.7	52.3	58.5	55.2	71.2	66.8	60.0	64.5	57.4	50.7
462		11/19/2021	2:02:35 PM	65.9	79.9	65.3	64.1	90.6	9.3	59.9	55.2	56.5	73.4	66.8	64.3	66.1	60.7	53.8
463		11/19/2021	2:02:36 PM	65.6	81.4	65.9	65.3	90.7	9.8	53.7	54.3	52.7	75.3	66.4	62.6	63.6	63.2	54.2
464		11/19/2021	2:02:37 PM	65.1	80.8	65.8	65.0	90.6	9.1	50.0	56.6	55.3	73.8	62.9	61.3	61	63.4	52.3
465		11/19/2021	2:02:38 PM	64.9	78.7	65.1	64.7	90.6	6.9	49.5	53.5	56.3	71.8	61.2	61.2	59.4	63.6	52.5
466		11/19/2021	2:02:39 PM	62.1	76.4	65.0	63.4	90.6	8.9	49.3	53.8	53.8	70	61.6	58.5	55.8	61.2	48.9
467		11/19/2021	2:02:40 PM	62.8	81.9	63.9	62.7	90.6	8.4	55.9	52.8	54	71.2	58.2	53.4	59.3	61.2	49.2
468		11/19/2021	2:02:41 PM	61.6	74.7	62.9	61.9	90.6	7.3	52.7	53.1	52.7	67.7	57.7	53.9	60.6	58.2	48.3
469		11/19/2021	2:02:42 PM	61.1	77.0	62.6	61.3	90.6	5.5	48.5	53.2	54.5	66.9	56.2	52.6	60.7	57.8	46.7
470		11/19/2021	2:02:43 PM	59.7	73.3	61.3	60.2	90.6	6.5	47.4	54	56.1	63.1	56.6	54.6	59.1	55.7	45
471		11/19/2021	2:02:44 PM	58.2	72.0	60.6	59.1	90.6	7.1	49.2	53.9	56	62.5	60	50.8	59.3	53.3	44.3
472		11/19/2021	2:02:45 PM	55.9	68.6	59.1	57.5	90.4	7.1	51.8	54.4	53.9	60.5	56.4	50.5	55.8	51.3	43
473		11/19/2021	2:02:46 PM	57.8	71.3	58.7	57.3	90.6	7	50.0	53.8	55.2	60.5	57.1	50.6	59	51.6	43.3
474		11/19/2021	2:02:47 PM	57.0	70.5	57.4	56.6	90.6	8.1	46.0	52.2	55.9	59.4	61.7	50.7	57.3	50.5	44.1
475		11/19/2021	2:02:48 PM	53.3	66.2	57.2	55.1	90.6	10	48.2	54.4	54.8	57.9	61	48.4	53.2	46.2	41.5
476		11/19/2021	2:02:49 PM	57.2	80.1	57.5	54.7	90.6	7.3	51.7	55.4	54.3	58.2	61	54.1	53.5	50.8	49.9
477		11/19/2021	2:02:50 PM	54.0	66.0	56.0	54.9	90.6	9.6	50.8	55.2	54.9	58.3	61.5	48.7	53.7	48.3	42.6
478		11/19/2021	2:02:51 PM	49.8	69.8	54.8	52.4	90.6	11.2	48.3	53.5	55.4	59.3	54.7	47.5	48.8	43.8	40.8
479		11/19/2021	2:02:52 PM	50.5	62.7	52.4	51.4	90.4	9.5	51.1	55	55.6	58	52.4	48.4	48.9	43.6	43.2
480		11/19/2021	2:02:53 PM	51.2	71.2	52.0	51.1	90.6	9.3	51.9	55.3	54.8	56.5	52.1	48.8	47	43	44.6
481		11/19/2021	2:02:54 PM	50.3	66.7	51.2	50.5	90.7	9.3	51.0	53.7	56.4	56.6	51.2	49.3	46	44.7	43.3
482		11/19/2021	2:02:55 PM	51.6	71.1	51.4	50.3	90.6	8.5	52.2	54	55.1	57.5	52.3	50.0	47.3	44.1	46.2
483		11/19/2021	2:02:56 PM	49.1	60.7	51.3	50.0	90.6	12.1	54.2	52.3	56.6	56.6	55.5	49.5	46.9	41	40.1
484		11/19/2021	2:02:57 PM	49.5	62.1	50.1	49.6	90.6	10.7	48.9	53.3	54.3	58.9	54.4	48.5	48.4	40.3	41.8
485		11/19/2021	2:02:58 PM	48.7	61.5	50.1	48.9	90.6	11.7	49.5	54.1	54.9	58.2	53.6	49.2	48.5	40.6	39.4
486		11/19/2021	2:02:59 PM	48.9	61.5	49.0	48.7	90.6	11.1	48.3	53.5	54.1	59.4	52.2	48.2	45.9	41.2	42.2
487		11/19/2021	2:03:00 PM	48.5	60.7	49.1	48.7	90.4	11.7	48.9	52.6	54.1	58.3	52.3	46.7	45	40.1	42.6
488		11/19/2021	2:03:01 PM	46.5	56.7	48.7	47.3	90.6	12.1	52.6	55.2	55.5	57.4	50.2	46.4	44.1	39.7	38.9
489		11/19/2021	2:03:02 PM	49.5	71.2	49.0	47.3	90.7	9.6	51.2	54.3	54.9	56	49.3	48.0	44.7	42.5	43.3
490		11/19/2021	2:03:03 PM	47.3	64.1	48.7	47.7	90.6	11.4	50.8	54.3	55.8	57	50	46.9	44	39.7	40.3
491		11/19/2021	2:03:04 PM	48.1	59.7	48.1	47.6	90.6	11.9	52.2	53.3	53.2	57.8	53.5	45.4	42.1	37.5	42.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
492		11/19/2021	2:03:05 PM	48.5	60.7	48.3	48.0	90.6	10.7	43.8	52.7	55.3	57.4	52.8	47.5	43.2	38	43.2
493		11/19/2021	2:03:06 PM	47.8	58.4	48.3	47.9	90.6	12.2	48.1	53.4	55.1	57	52.6	47.2	42.3	37.4	42.2
494		11/19/2021	2:03:07 PM	61.9	93.6	61.3	48.0	90.6	1.9	51.3	53.2	53.7	58.4	54.3	50.0	48.2	54.7	57
495		11/19/2021	2:03:08 PM	49.8	66.9	59.7	56.1	90.7	10.7	49.8	52.4	56.2	56.9	55.8	48.1	46.7	40.7	42.2
496		11/19/2021	2:03:09 PM	49.6	72.1	56.1	53.2	90.6	10.6	49.2	51.8	54.9	57.5	55.4	48.1	44.1	39.5	43
497		11/19/2021	2:03:10 PM	47.2	62.7	53.4	50.6	90.6	12.8	47.7	53.2	54.5	58.3	52.6	47.7	45	39.7	39.9
498		11/19/2021	2:03:11 PM	50.3	78.6	51.2	49.7	90.6	8.2	47.5	54.9	53.9	57.5	50.6	47.1	43.8	44.3	44.8
499		11/19/2021	2:03:12 PM	45.9	58.4	50.6	48.3	90.6	11.8	50.2	53	53.5	55.2	50	45.7	42.4	39.4	38.8
500		11/19/2021	2:03:13 PM	47.5	73.1	48.5	47.6	90.4	10.8	50.5	50.7	52.1	55.4	50.5	45.7	43.5	41.1	40.6
501		11/19/2021	2:03:14 PM	50.2	82.1	50.2	47.5	90.6	9.2	51.5	53.2	55.9	56.6	50.1	46.1	44.8	44.7	45.1
502		11/19/2021	2:03:15 PM	47.4	62.1	49.8	48.5	90.6	12.6	47.1	56.3	54.1	57.1	51.4	46.6	42.7	41.6	40.6
503		11/19/2021	2:03:16 PM	48.1	61.5	48.5	48.3	90.6	14	51.7	54.4	56.7	57.7	50.9	47.6	43.8	42.9	41.1
504		11/19/2021	2:03:17 PM	50.1	62.1	49.6	48.4	90.7	11.1	51.1	54.2	61.1	59.8	51	47.6	45.7	45.9	42.9
505		11/19/2021	2:03:18 PM	51.5	65.4	51.0	49.5	90.7	13.3	53.6	55.2	57.6	61.1	55.3	50.3	48	47.3	43.2
506		11/19/2021	2:03:19 PM	52.0	64.5	51.7	51.0	90.6	12.8	57.2	54.6	63.5	61.9	58.2	49.6	48.7	46.5	42.9
507		11/19/2021	2:03:20 PM	50.5	62.1	51.7	50.9	90.6	12.7	55.8	54.6	62	60.3	57.9	48.7	47.2	45.8	41.9
508		11/19/2021	2:03:21 PM	48.3	60.7	50.9	49.4	90.7	14	52.3	56.4	59.6	59.8	51.7	46.6	44.9	43.6	40.8
509		11/19/2021	2:03:22 PM	48.3	60.7	49.4	48.8	90.6	12.1	58.8	53.7	59.7	60.1	50.7	47.7	46	43.5	40.5
510		11/19/2021	2:03:23 PM	49.7	62.1	49.6	48.8	90.6	11.1	51.8	53	55.7	57.3	52.3	48.2	45.4	44.5	43.4
511		11/19/2021	2:03:24 PM	50.4	64.1	50.2	49.6	90.6	12.8	51.9	57.5	57.3	60.3	53.5	50.9	47.1	45.4	42.9
512		11/19/2021	2:03:25 PM	48.8	62.1	49.9	49.2	90.7	12.7	50.2	55.9	56.6	61.6	53.1	49.6	45	43.5	40.8
513		11/19/2021	2:03:26 PM	48.1	64.5	49.4	48.4	90.6	12.3	49.3	54.6	56.7	58.6	52.6	48.8	44.8	42.5	40.5
514		11/19/2021	2:03:27 PM	47.3	64.1	48.4	47.5	90.6	13.8	52.8	55.5	55.6	58.4	52.9	47.6	44.4	41.4	38.5
515		11/19/2021	2:03:28 PM	49.6	70.4	49.3	47.9	90.6	11.3	48.9	52.6	56.7	59.2	52.3	49.9	44.9	44.6	43.4
516		11/19/2021	2:03:29 PM	49.0	64.8	49.2	48.6	90.6	11.3	50.5	54	58.5	58	52.7	48.7	44.4	44.2	41.3
517		11/19/2021	2:03:30 PM	48.8	62.1	49.3	48.9	90.6	12.6	48.9	56	56.4	58.9	54.8	47.3	44.5	43.4	41.5
518		11/19/2021	2:03:31 PM	48.5	60.7	48.9	48.6	90.7	14.4	53.3	54.6	56.7	59.8	56.8	48.3	44.3	43	40.1
519		11/19/2021	2:03:32 PM	50.9	63.7	50.4	48.7	90.6	13.9	57.0	54.7	56.7	60.1	61.1	50.0	46.5	44.5	41
520		11/19/2021	2:03:33 PM	53.9	65.1	52.9	50.5	90.4	14.2	56.0	54.4	55.7	59.3	67.3	52.0	49.4	45.3	41.8
521		11/19/2021	2:03:34 PM	51.3	63.7	53.1	51.7	90.6	13.5	58.0	52.7	59.1	60.6	63.8	50.9	47.8	45	41.6
522		11/19/2021	2:03:35 PM	48.8	60.7	51.7	50.1	90.6	13.2	57.0	56.3	55.6	58.7	56.1	47.7	45.1	44.2	40.6
523		11/19/2021	2:03:36 PM	48.1	60.7	50.1	49.0	90.6	12.7	61.7	56.9	59.2	58.7	54.2	48.9	44.3	43.9	39.2
524		11/19/2021	2:03:37 PM	46.6	56.7	49.0	47.6	90.7	13.5	56.5	56.1	58	57.1	50.7	46.9	42.3	41.9	38.2
525		11/19/2021	2:03:38 PM	47.3	56.7	47.6	47.3	90.7	13	54.2	53.8	56.9	57.8	52.9	47.0	43.5	41.9	39.2
526		11/19/2021	2:03:39 PM	48.0	58.4	47.8	47.5	90.7	11.8	49.0	54.9	57.4	58.8	51.4	46.4	44.5	43.4	39.9
527		11/19/2021	2:03:40 PM	49.4	60.7	49.0	47.8	90.8	11.9	47.4	52.7	56.9	58.5	50.5	48.4	45.5	45.7	40.8
528		11/19/2021	2:03:41 PM	53.7	66.5	52.9	49.0	90.6	8.4	55.1	53	57.1	60.1	52.3	49.6	48.8	50.8	45.6

31.7	26.4	28.3	50.5	52.9	54.2	58.4	49.9	46.1	44.7	42.5	39.2	35
37	30.3	28.7	50.4	53.7	53.9	58.6	50.6	46	44.7	43	41.2	36.3
37	30.1	28.8	49.2	54	55.4	57.8	51.3	46	44.7	42.8	41.1	37
32.2	27.5	28.4	49.5	52.5	56.9	57.8	51.6	46.4	44.8	42.7	40.7	36.6
34.8	27.9	28.5	49.5	54.3	58.4	58	52	46.7	44.2	41.9	39.8	34.8
41.4	34	30.1	50.8	53.7	57.7	56.7	51.6	46.8	43.7	44.1	43.1	41.2
33	27.9	28.6	50.5	52.9	57.8	57.6	50.7	46.4	43.9	43.2	41.7	39.2
29.1	26.1	28.3	49.3	51.3	56.9	57.2	51.7	46.1	43.2	42	39.6	36.3
30.3	26.1	28.4	48.5	51.5	56.6	57.8	52.6	46.2	43.8	41.5	37.9	33.2
30.8	26.6	28.3	49.4	52.5	55.6	58.6	52.9	47.3	44.4	41.7	37.3	31.6
32.6	28.1	28.4	48.9	52.8	55.7	58.9	52.3	47.5	43.9	41.1	37.4	32.3
37.3	32.8	29.1	50.1	55.3	55.1	58.5	52	47.1	44.2	41.8	38.5	37.1
32.3	29.2	28.5	50.4	56.5	57	59.3	52.1	48	49.1	44.3	39	35.8
31.7	26.7	28.3	50.4	56.9	56.5	59.2	52.8	48.2	49.1	45.4	39.4	33.9
32.3	27.4	28.4	51.2	59.9	56.7	59	53.8	48.1	49.4	45.7	39.8	32.6
34.3	29.3	28.6	52.4	60.1	57.5	57.7	54.3	47.2	47.9	44.6	39.1	33.9
33.3	29.8	28.7	52.7	58.9	55.7	58.1	54.3	46.7	50.1	45.5	38.6	34
39.6	32.8	29.2	54	58.2	55.6	57.9	54.6	46.7	50.1	45.5	41.3	39
33.9	30.5	28.9	52.9	57.7	55.4	57.5	54.5	46	47.8	44.3	40.6	38.2
37.9	33.4	29.5	51	56.2	55.4	57.4	53.3	46	47.2	44.7	41.4	38.2
34.7	33.7	30.4	49.8	54.7	55.3	56.4	52.1	45.8	48.4	44.6	41.2	37.9
41.3	36.7	30.4	50.7	55.9	55.1	56.5	51	47	49.8	45.3	40.5	40.6
33	28.6	28.8	50.1	56.1	55.4	57.3	54	47.3	49.7	45.3	40.2	39.9
31.1	26.9	28.4	51.9	57.1	56.6	57.9	57.1	49.2	54	48.2	40.7	36.9
33.9	29.1	28.7	52.6	57.2	56	56.5	58.5	48.9	54.2	51	42.2	34.3
33.4	28	28.6	54	56.9	55.8	56.7	59.6	53.1	56.2	53.2	42.9	34.3
38.9	33	30.1	53	55.4	55.4	56.8	59.6	54.9	57.7	52.7	44	37.6
37.7	33.1	29.6	52.4	56.9	55	56.7	60.9	55.6	57.9	52.7	43.8	37.8
37.6	31.8	30.1	52.1	57.3	56	56.6	61.2	55.5	57.2	54.3	44.2	38.7
41	43.7	32.5	51.8	56.3	55.4	55.9	65	55.3	58.2	55.8	46.4	41.5
39	31.7	29.1	52.4	55.5	54.3	55.4	69	55.7	57.4	57.7	45.7	39.8
40.2	35.7	31.7	52	55.5	54.5	57.2	71.8	55.8	57.9	57	45.8	40.6
40.1	33.7	29.8	50.6	56.3	55.3	59.1	73.2	61.2	58.3	56.9	46.4	41.1
37.5	27.3	28.7	52.8	55.3	55	60.9	73.8	63.5	57.5	57.2	47.1	39.4
42.4	27.5	28.4	51.7	54.5	55	61.2	73.7	66	61.2	58.7	51.4	41.8
39.3	27	28.3	51.4	54.8	54.4	61.3	71.4	66.6	64.1	58.5	51.5	41.6
44.3	33.1	28.6	51.1	54	54.1	60.2	68.6	66.5	65.3	58	52.3	43.7
40.9	27.2	28.5	51.7	59.6	60.7	63.4	65.9	65.3	66.6	58.7	53.1	43.8
40.5	28.8	28.4	52.3	59.2	59.7	69.8	66.6	64.8	66.5	58.6	51.5	41.8
41.3	28.8	28.6	59	58.1	58.1	72.6	66.8	63.9	66.2	60	52.9	41.8
42.1	27.7	28.5	57.6	56.8	56.6	74.6	66.9	64.3	65.6	62.3	54.3	42.2
40.4	28	28.6	55.3	56.5	55.5	74.5	66.3	62.8	64.2	63.5	53.7	41.4
38.2	27.8	28.4	52.6	56.1	56	74.1	64.4	61.9	62.4	63.5	52.8	40.8
36.4	27.5	28.4	50.8	55	55.9	72.6	62.5	61.6	60.7	63.4	52.6	39.3
38.2	35.9	30.4	55.1	54.3	55.1	71.4	61.8	59.5	59.1	62.6	50.9	38.2
39.9	30.9	29.1	55.2	53.7	54	71.3	59.8	56.9	60.1	61.3	50.1	39.7
38.2	29.7	29	53.5	53.4	54.5	69.3	58.6	55.2	60.9	59.9	49.2	40.1
37.1	29.3	28.7	51	54.1	55.5	67.7	57	54.5	60.2	58.4	47.3	38.7
36.1	31.4	29.1	49.6	54.7	56.3	65.6	59.3	54.1	60.1	57.1	46	37.5
34.1	28.9	28.5	51.2	54.5	55.4	63.9	59.1	52.4	59.3	55	45.2	36.9
37.5	33.4	29.2	51.9	55.3	55.5	62	57.5	51.4	59.4	53.6	44.5	37.6
38.5	27.7	28.4	50.1	53.7	56.5	61.3	60.8	51	58	51.9	44.4	38.4
35.9	28.2	28.4	48.4	54.2	55.7	60.4	61.3	50.9	57.7	51.3	44	37.9
47.4	39.7	31.2	51.3	55.3	55.3	58.9	61.1	54	55.5	51.1	49.4	46.7
35.8	27.6	28.5	51	55.1	55.3	58.9	61.5	52.3	54.3	49.7	47.6	44.8
37.7	30.6	28.4	50.4	55.1	55.4	59.1	61.1	50.4	53.8	49	45.2	41.3
40.8	29.2	28.6	50.7	55	55.8	59	58.2	48.9	51.2	46.3	43.4	40.8
43.9	38.3	33.1	51.6	56.1	55.8	58.4	55.5	48.9	49.9	44.9	44.9	44
39.8	35.7	30.9	51.8	54.7	56.4	57.9	53.8	49.2	48.3	44.5	44.4	42.7
42.2	32.5	29.5	52.3	54.5	56.2	57.5	52.6	49.7	47.5	44.8	45.7	42.2
37.9	28.5	28.8	53.6	54.1	56.3	57.4	54.7	49.7	47.2	44.1	45.5	42
39.4	28.8	28.5	53.5	53.8	56.6	58.7	54.9	49.7	47.9	42.4	42.9	40
35.3	27.3	28.3	51.1	54.2	55.7	58.4	54.5	49.3	49.1	41.4	42.5	39.9
39.7	28.1	28.6	50.7	54	55.4	59.3	54	49.2	47.8	41.2	41.9	39.4
39.8	28.9	28.5	50.2	53.6	54.7	58.9	53.2	48.5	46.7	41	42.5	39.8
34.9	28.3	28.6	52.1	54.5	55.5	58.9	52.3	47.4	45.6	40.5	42.3	39.6
40.1	34.8	29.7	52	55.1	55.7	57.8	51.1	47.8	44.9	42	42.6	39.6
38.2	29.1	28.6	51.6	54.7	55.7	57.4	50.2	48	45	41.6	42.1	38.9
40.6	32.4	29.2	52.1	54.1	55.3	57.8	53	47.1	44.2	40.2	42.2	40.2

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
40.7	28.3	28.4	51.6	53.7	55	57.7	53.6	47.2	43.2	38.9	42.9	40.4
38.6	29.7	28.6	48.5	54.2	55.5	57.6	52.8	47.3	43.2	38.2	43	40.5
56.1	49.7	36.9	51	54.6	55.3	58	54	49.4	47.4	54.1	56.4	55.6
41.4	37.8	31.8	51	53	55.9	58.4	55.3	49.2	47	52.6	54.8	53.9
41.7	36.2	30.6	50	53	56.3	58	55.6	48.6	46.8	48.7	50.9	50
36.4	29.9	28.6	49.5	53	55.4	58.1	55.3	48.3	45.4	45.5	47.9	46.9
41.7	37.2	30.6	48.8	54.4	55.4	58.5	53.6	48.1	45.3	44.8	45.5	43.3
34	29	28.7	50.1	54.7	54.6	57.4	52	47.4	44.2	44.1	45	42.5
37.6	34.3	29.3	50.3	53.4	53.5	56.2	51.1	46.4	43.5	41.9	42.6	39.1
39.9	33.5	29.2	51.7	53	55.1	56.5	50.9	46.3	44.6	44.6	45.1	40.3
37	30.6	28.7	50.3	55.4	55	57.1	51.2	46.7	44.3	44.2	44.6	39.8
35.9	30.1	28.6	51.3	55.3	56	57.7	51.2	47.2	43.8	43	42.6	38.3
37.5	29.3	28.6	51.1	54.9	60.3	59.3	51.3	47.5	45.2	45.1	42.7	37.8
37.3	30.7	28.7	53.3	55.1	59.7	60.7	54.3	49.6	47.4	46.8	43.1	37.3
37.2	28.6	28.3	56.6	55.2	62.4	61.7	57.5	49.9	48.3	46.8	43.1	37.4
35.5	27.3	28.4	57.2	55	62.9	61.5	58.4	49.7	48.3	46.7	43	37.4
35.9	27.6	28.4	55.9	56.4	62	60.8	57.5	48.9	47.6	46.1	42.7	37.1
34.5	28.3	28.3	57.9	55.7	61.2	60.8	54.8	47.8	46.3	44.6	41.2	35.7
34.9	29.2	28.5	57.1	54.9	59.7	60	52.7	48.2	46	44.5	42.9	35.3
34.6	29.6	28.7	54.6	57.1	58.4	60	53.5	50.2	46.6	45.4	43.5	35.2
35.2	30.5	29.3	53.1	56.8	57.1	61.4	53.6	50.1	46.5	44.8	42.7	35.4
34.3	29.8	29.1	51.6	56.2	57.4	60.8	53.1	49.8	45.7	44	42	35.9
31.7	27.7	28.4	52.6	56.4	56.9	59.7	53.4	49.1	45.1	43	40.8	34.5
36.6	34.9	28.8	51.5	55.1	56.9	59.9	52.8	49.4	45.2	44.2	43	35.7
37.4	30.9	28.9	50.8	54.6	58.3	59.2	53	49.8	44.7	44.2	42	37.4
35.9	30.6	28.5	50.4	55.6	57.5	59	54.6	48.7	44.8	44.4	42.3	37.6
33.2	28.2	28.5	52.4	56.1	57.1	59.8	56.3	48.2	44.7	43.5	41.6	36.4
33.4	28.3	28.5	56.4	55	57.1	60.3	60.3	49.6	46.2	44.2	40.9	34.6
35.7	29	28.3	56.4	55.6	56.7	60	65.8	51.6	48.5	44.9	41.7	35.3
34.8	28.2	28.4	57.6	54.5	58.7	60.4	66	51.5	48.8	45.4	42.3	35.4
34	27	28.3	57.8	55.6	58.4	60.4	64.3	50.8	47.7	44.8	41.6	35.2
32.9	28.1	28.4	61.2	57	58.7	59.8	61	49.4	46.3	44.6	40.7	34.2
33.6	27.1	28.3	60.2	56.5	58.7	58.9	57.9	49.1	45.2	44.2	39.9	33.8
35.3	27.6	28.4	59	56.5	58	58	54.9	47.9	43.7	42.7	39.1	34.8
35.4	28.2	28.5	55.8	55.1	57.9	58.8	53.7	47.4	44.3	43.2	39.7	35.5
35.3	28.6	28.5	52.7	54.9	57.4	58.7	52.4	48.1	45.1	45	40.5	35.3
39.4	31.6	29.1	54.3	53.9	58	59.7	52.3	49.2	48.1	49.9	44.6	38.5

29.5	28.9	49.5	51.8	53.5	57.5	49.4	45.6	43.8	41.8	38.2	32.9	27.9
30.2	28.8	49	52.5	52.9	57.1	49.5	45.5	44.1	42	38.3	33.6	27.5
30.8	29	48.2	52.6	53.9	57.2	50.1	45.7	44.4	42.4	40.6	36.3	29.7
29.9	28.7	48	51.3	54.7	56.6	51.1	45.8	43.8	41.9	39.2	34.4	28.4
28.4	28.5	48.4	51.6	56.5	56.5	51.3	45.8	43.5	41.3	38.8	33.7	27.9
33.4	29.8	48.6	52.2	57.2	55.1	50.5	46	43.3	41.3	39.5	34.8	28.4
31.8	29.2	48.5	51.3	56.8	55.5	50.1	45.9	43.2	42	39.6	36.4	29.8
29.8	28.8	47.5	50.2	55.9	56.3	50.6	45.8	42.7	40.8	37.8	33.3	27.9
27.9	28.5	47.4	49.9	55.6	57.1	51.1	45.6	42.6	40.9	37.2	31.6	26.8
26.9	28.4	47.8	50.8	55.1	57.8	52.4	46.1	43.7	41.1	36.8	30.9	26.4
28	28.5	47.1	51.4	54.9	58.1	51.8	46.6	43.1	40.7	36.6	30.9	26.9
32.3	28.9	47.8	52.1	54.4	57.8	51.4	46.3	43	41.1	37.3	31.8	27.4
31.3	28.8	49.1	54.4	54.9	58.1	51.4	47	44.1	41.8	38.3	33.9	30
30	28.6	48.7	55.9	55.5	58	51.9	47.8	48.7	44.3	38.9	32.5	28.3
28.4	28.5	49.9	55.4	55.1	57.6	52.1	47.3	47.9	44.6	39.1	32.3	27.7
29.1	28.6	50.5	58.5	55.7	57	53.7	46.3	46.7	43.4	38.6	32.2	27.4
29.7	28.7	51.5	58.1	54.4	57	53.7	46.1	46.6	43.1	38	33.1	28.9
32.6	29.1	52.3	56.1	54.3	56.9	54.1	46	47.8	44.3	38.3	33.6	29.6
32	29	50.7	55.8	53.6	56.3	53.3	45.5	46.5	43.4	39.6	35.7	30.4
32.8	29.4	49.5	54.4	54.7	56.1	52.1	45.5	46.4	43.5	38.9	34.9	31.3
33.7	30.3	48.7	53.9	54.4	55.8	50.9	45.2	46.3	43	39.5	36.1	32
36.3	30.8	49.3	54.3	54.2	55.5	50.3	45.8	48.5	43.1	39.4	36.2	33.7
35.5	30.1	49.2	54.3	54.2	55.8	51	46.8	48.8	44.1	38.8	36.9	32.5
32.6	29.4	49.7	54.4	55.1	56.1	54	46.8	48.8	43.9	38.3	34.2	29.9
29.9	28.8	51	56.5	54.9	55.7	56.9	47.7	52.7	46.9	39.5	33.5	29.3
29.4	28.7	51.7	55.1	54.3	55.9	58.5	48.8	54.3	51.1	42.3	33.2	28.5
32	29.8	52.1	54.5	54.3	56.2	58.9	53.1	56.1	51.4	42.6	34.2	28.7
32.8	29.7	51.3	55.3	54	55.3	59.5	54.7	56.9	51.9	43.1	36.9	31.7
33.5	30.4	51.4	56.1	54.4	55.7	60.7	54.6	56.4	52	43.1	37.3	31.5
43.6	32.7	50.1	55.1	54.2	55	61.3	54.5	57	54.3	44.3	37.1	31.3
40.4	31	50.7	53.9	52.8	54.4	65	54.1	56.9	55.6	44.9	37.9	37.1
37.7	31.9	50.6	53.9	53.7	54.3	69.1	55.2	56.9	56	45.1	38.6	35.9
36.3	31	49.7	55.4	54	57	71.9	55.7	57.1	56.1	45.2	39.5	34.5
34.4	30.2	48.9	53.4	54.3	58.8	73.2	61.4	57.1	56.6	46.3	38.4	31.4
31.4	29.4	50.9	53.8	53.8	60.4	71.5	63.5	56.8	56	46.7	38	29.4
29.4	28.8	49.8	53.8	53.8	60.2	68.6	65.9	61.1	57.4	50.6	40.4	28
32.7	28.7	49.6	53	53.4	58.2	65.1	64.5	64.1	57.1	50.3	40.2	27.7
32.2	28.6	50.2	53.2	53.8	58.1	64.6	64.3	64.4	57.9	51.3	41.8	29.8
29.8	28.5	50.6	58.2	57.4	63.5	66	62.4	65.2	57.7	50.8	41	29.2
29.4	28.6	51.5	56.6	56.6	69.7	66.3	62.2	65.3	57.7	50.8	40.9	28.6
29	28.6	55.4	55.4	54.7	72.6	66.3	62.8	64.2	60	52.6	40.7	28.2
28.6	28.6	52.7	55.5	54.6	74.1	64.4	61.9	62.5	61.8	52.7	40.8	27.9
28.3	28.5	50.8	54.6	54.5	72.6	62.5	61.2	60.8	62.5	52.3	39.3	27.5
27.8	28.4	49.6	54.2	54.6	71.2	61.9	59.6	58.3	62.1	50.5	37.7	27.3
35.6	30.2	49.8	53.2	54	70.9	59.8	56.7	58.3	61.2	49.3	37	27.7
35.5	30.2	53.5	52.5	53	69.3	58.5	55.1	59	59.5	48.5	37.8	33.3
33.7	29.9	51	52.4	53.1	67.7	57	53.6	60.1	58.4	47.3	38.5	31.2
31.9	29.3	49.1	52.7	54.1	65.5	56.3	53.6	59.2	56.8	46	37.6	29.8
31.6	29.2	49	53.7	55.2	63.9	57	52.3	59.3	55	44.5	36.1	28.5
31.3	29.1	48.7	52.8	54.3	62	57.4	51.3	57.6	53.1	44	35.4	30
33.1	29	50.1	53.7	53.7	61	56.8	50.7	57.6	51.9	43.3	35.6	30.1
31.9	29	47.9	52.8	55.4	60.1	57.4	50.6	57.2	50.7	42.7	35.9	29.8
29.8	28.6	47.6	52.9	54.3	58.5	60.7	49.3	55.3	48.8	42.4	36.7	28.8
38.9	30.8	48.1	53.4	54.1	58.2	60.7	49.2	54.1	48.1	42.4	36.3	28.4
37	30.1	49.7	54.4	54.8	58.1	60.8	50.4	53.6	48.9	45.2	41.4	33.6
33.6	29.2	49.1	54.1	54.7	57.7	58.2	48.7	51.3	46.4	42.9	39.1	31.9
32.3	28.9	49.1	54	54.3	58.3	55.6	48.5	50	44.9	42.6	39.3	30.4
37.8	32.7	50.7	54.7	54	57.1	53.8	48.5	48.3	43.8	43.1	40.7	30
37.4	32.1	50	53.5	55.4	56.7	52.4	48.3	47	43.8	43.4	40.9	35.4
35.7	31.1	50.7	53.9	55.5	56.6	51.8	49.2	47	43.9	42.7	40.3	34.2
34.2	30.3	52.4	53	55.3	56.7	52.6	49.6	46.8	42.4	42.9	40	31.5
31.5	29.4	51.2	53	54.8	56.6	54.4	48.9	47.1	41.2	42.2	39.2	30.1
30.1	28.8	49.6	53	54.8	57.5	53.9	49	47.8	40.6	40.5	37.2	28.4
28.4	28.7	49.3	53	54.2	57.8	52.9	48.5	46.7	40.6	40	36.7	28
28.7	28.6	48.6	52.8	53.9	58.3	52.4	47.3	45.6	40.4	41.9	39.3	28.3
28.7	28.6	49.1	53.1	54	57.7	51.1	46.6	44.7	39.9	40.4	37.2	28.2
34	29.4	50.8	53.5	54.5	56.6	49.8	46.5	44.2	39.9	40.3	37.1	28.6
33.1	29.2	50.8	54	54.5	56.5	49.7	47.1	44.2	40.3	41	38.4	31.1
32.9	29.3	50.7	53.3	53.8	56.5	49.9	46.2	43	38.7	41	38.4	30.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
31.5	29	48.4	52.2	53.1	57.3	52.6	46.1	43	38.1	41.7	39.7	29.9
29.9	28.7	47.5	53.2	54.2	56.8	52	46.6	42.5	37.6	42.4	39.2	29.5
49.1	35.8	48.1	52.7	54.3	57.3	52.7	47.2	42.8	37.7	42.4	39.2	29.9
47.5	35.1	49.8	52.1	54.1	57	54	48.6	46.5	48.8	50.9	50	43.9
43.8	32.9	49	51.8	55.1	57	54.9	48.3	45.3	45.3	47.6	46.8	40.8
40.8	31.7	48.5	51.2	54.3	57.1	53.6	47.7	45	42.7	44.6	43.2	37.1
38	30.7	47.6	52.8	53.9	57.4	52	47.4	44.2	41.8	43.4	42	36.3
37.1	30.3	47.6	53.2	53.4	56.2	50.8	46.3	43.2	41.8	42.1	39	33.9
34.8	29.5	49.2	51.5	52.6	55.3	50.6	45.9	43	41	41.1	38.1	33.4
34.5	29.4	49.6	51.2	52.5	55.2	49.9	45.7	43.5	41.4	41	37	32.5
34.1	29.3	48.2	52.8	54	56.3	50.3	46.1	43.4	42.9	42.6	38.3	32.2
32.7	29	49.1	54.3	54.5	57	50.7	46.3	43.3	42.6	41.7	36.9	30.9
30.8	28.7	50	54	56	57.3	50.8	47	43.7	43	41.7	36.6	29.8
30.7	28.8	51.2	54.1	58.4	58.8	51.1	47.6	45.2	45.1	42.2	36.9	29.5
30.5	28.7	53.1	54.5	58.6	60.7	54.3	49.3	47.5	46.5	42.7	36.8	29.4
29.5	28.5	55.9	54.1	62	60.6	57.5	48.9	47.6	46.1	42	36.1	28.3
28.2	28.4	53.9	55	60.4	59.8	54.8	47.5	46.1	44.6	41.2	35.7	27.8
28.3	28.4	54	54.3	59.7	59.9	52.7	47.5	46	44	40.5	34.6	27.7
29.2	28.5	54.7	53.2	57.7	58.5	52.1	47.4	45.4	43.7	41	34.7	27.9
29.7	28.7	53.2	52.5	57	58	52.4	48	45.8	44.5	42.7	34.6	28.8
30.5	29.3	51.6	55.7	56.1	60.1	53	49.6	45.5	44	41.6	34.3	29.3
31.3	29.5	50.2	55	56.4	59.6	52.5	49	45	43	40.8	34.5	29.7
29.7	29	50.3	55.1	56.1	58.6	52.6	48.1	44.7	42	39.4	32.8	28.3
34.2	28.8	49.8	53.6	55.7	58.9	52.1	48	44.6	42	39.6	34.1	28.9
33.9	28.9	50	53.7	56.5	58.2	52.3	48.7	44.3	43.6	41	34.6	31.8
32.8	28.9	49.2	53.6	56.8	57.7	52	47.9	44.3	43.5	41.5	36.4	31.3
31.3	28.7	49	54.8	56.3	57.7	54.5	47.8	44.3	43.2	40.6	34.6	29.6
29.7	28.5	51.9	54	56.2	59.7	55.9	47.9	44.3	43.2	40.5	33.9	28.9
29	28.5	55.3	54.1	55.7	59.5	60.1	49.6	46.2	44.1	40.7	33.9	28.8
29.1	28.4	55.8	53.2	55.5	59.2	64.3	50.8	47.8	44.7	41.4	34.7	28.4
28.4	28.4	56.9	53.7	56.9	59.1	61	49.2	46.3	44.3	40.8	34.2	27.5
28.2	28.4	57.1	55	56.8	58.7	58	48.7	45.1	44.1	39.9	32.9	27.1
28.2	28.4	57.9	56	58	57.6	54.9	47.8	43.6	42.8	38.8	33.6	27.5
27.6	28.4	55.8	54.5	57.2	57.6	53.8	47.3	43.1	42.2	38.6	33.6	27.5
28	28.5	52.8	53.8	57.3	57.4	52.4	46.7	43.7	42.2	39.1	34.8	27.6
28.5	28.5	50.4	53.8	56.7	57.6	51.3	46.7	44.1	43.1	39.6	34.9	28
30.8	28.9	50.4	52.8	56.9	58.7	51.3	48	45.1	45	40.5	35.3	28.5

28.6	35.5	39.5	46.3	46.8	48.4	47.7	48.8	47.6	48.2	55.8	50.6	50.4	46.7	45.4
28.4	42.6	44.4	44.2	43.9	46.1	50.2	48.1	46.1	51.2	55.6	53.2	50.8	47.5	46
28.7	44.2	46.7	43.2	49.8	47.8	48.2	46.5	50.5	53.4	51.9	53.9	51.4	48.1	45.9
28.5	44.1	46	45.4	47.2	49.5	47.4	49.3	48.2	55.8	53.3	50.2	52	48.9	45.8
28.4	41.5	44.1	46.7	45	39.3	48.8	50	53.2	55.5	54.5	50.8	52.6	48.9	46.5
28.5	40.7	43.3	44.8	50.6	49.8	47.2	48	49.2	55.9	51.8	49	47.4	46.8	45.5
28.8	41.6	38.7	47.6	47.3	46	47.6	47.3	51.8	53.5	56.3	51.9	48.2	46.6	45.6
28.5	45.7	45.5	45.4	47.6	46.5	42.9	47	49.2	50.2	54.1	49.5	48.9	47	48.5
28.4	45.5	42.7	44.6	46.1	45.2	46.8	51.3	50.1	51.5	54.2	52.9	53	47.9	48.3
28.3	39.3	45	48	44.1	46.1	47.5	51.6	50.3	49.9	55.2	55	54.7	50.4	47.8
28.4	40	38.4	43.7	48	44.3	44.8	46.8	49.9	51.7	56.2	52.1	51.7	47.2	46.4
28.4	32.5	43.1	46	50.9	48.2	47.7	47.4	47.1	51	53.6	49.3	54.7	49.5	44.5
28.6	38.8	44.6	49	49.3	51	51.6	51.3	52.6	52.6	54.1	52.4	56.4	49.4	46.1
28.4	38.9	44.8	44.1	49.4	53.8	50.1	50.5	53.3	48.9	54	50.7	54.4	50.4	45.5
28.4	39.7	43.3	47.9	51.2	54.1	49.8	48.7	53.3	53.3	54.2	52.2	52.1	51.5	47.6
28.4	44.4	44.2	50.9	49	52.5	48.4	52.3	53.8	50.7	54.7	51	49.5	53.5	48.2
28.6	44.3	42.7	50.1	57.9	57.7	49.7	46.3	48.9	50.1	55.1	51.3	49.6	53.4	44.6
28.7	41.6	47.1	50.4	53.9	53.2	48.7	53.9	48.8	48.5	54.5	51.1	49.7	52.8	48.8
28.7	45.8	42.4	51.4	54.7	46.3	53.1	47.9	48	50.8	53.4	51.8	49	52.3	45.5
29	45	46.7	47.7	50.6	52.3	50.5	52	51.2	51.4	54.7	50.8	46.2	49.3	44.4
29.2	45.7	41.5	44.7	46.7	46.5	49.4	47.7	51.7	50.9	54.3	47	47.5	48.1	43
30.1	39.6	43.8	42.8	49.2	50	49.3	46.8	50.5	50.7	54.3	50.1	48.4	49	42.8
29.4	33.7	46.9	45.9	53.6	48.4	46.4	50.7	51.9	52	54.2	51.8	47	52.9	43.8
28.8	42.4	46.8	49	52.8	50.3	48.2	48.7	51.9	52.4	55.1	49.4	46.4	58.1	44.1
28.7	45.1	40.9	50.8	51.6	51.1	49.5	50	48.6	52.5	54.2	48.9	47.8	57.8	45.2
28.6	46.3	43.4	52.5	55.4	52	47.5	47.4	50.1	51.2	55	49.9	45.5	59.4	47
28.7	44.1	44	49.9	54.1	50.1	47.5	48.1	51	51.2	54.9	50	49	60.4	46.4
29.5	41.2	47.1	49.4	51.9	46.9	49.9	48.9	45.5	49.8	52	47.8	49.5	61.4	45.8
29.5	47.4	42.3	48.3	55	50.7	48.9	52.2	49.5	49.4	54.3	49.3	50.4	61.1	47.3
29.5	42.5	46.5	47.6	55.4	49.8	51.1	50.6	50.7	49.2	53.9	47.9	47.3	65.2	45.9
29.9	45.7	46	43.9	49.5	49	45.4	47.5	48.9	48.2	52.2	47.6	48.1	69.6	48.6
29.6	44.9	43	49.6	51.6	48.6	49.3	49	48.5	52.2	54	48.7	48.2	72.7	52
30.2	42.8	50.3	46.2	50.8	50.9	48.6	50.8	49.8	52.5	51.5	48.8	52.3	74.7	51
29.4	39.7	44.5	46.9	55	48.4	48.5	48.2	49.2	51.8	53.6	50.8	52	74.8	52.2
28.8	45	41	49.9	45.8	45.4	47.3	49.9	49.8	51.5	55	50	55	71.3	49.1
28.5	44.4	48.7	46.9	53.5	46	50.4	48.5	49.6	48.5	54.3	46.9	55.2	66.5	47.8
28.5	37.5	45.7	42.1	49.5	49.6	47.9	50	47.9	47.5	55.2	49.8	55.4	58.4	49.7
28.5	42.9	46.7	48.7	45.4	50.4	53.8	57	58.3	57.2	58	53.9	61.9	58.8	52.6
28.4	42	46.1	46.1	55.7	56.7	51.5	57.8	47.8	50.5	53.7	49.8	70.9	60.4	53.3
28.4	47.2	44.5	52.5	55.1	52.9	48.6	53.1	50.8	52	53.2	50.1	73.3	56.8	51.6
28.5	40.2	50.9	53.3	52.4	50.7	48.9	46.9	49.8	49.4	54.5	47	75.1	56.1	52.1
28.5	47.6	55.8	48.1	52.8	48.1	43.9	48.3	51.9	51.5	55.6	51.5	73.7	54.7	52.1
28.4	54.7	45.9	47	54.6	49.4	48.4	45.9	52.9	50	53.9	47.3	72.3	52.6	51
28.4	50.7	45.2	48.2	51.3	49.3	47.7	49.8	49.5	51.4	55.4	48.7	69.8	53	49.7
28.4	40.8	39.3	49.5	49.3	52.1	49.2	48.5	47.4	51.6	55.7	52.5	70.9	51.8	50.7
29.5	43.4	40.1	50.9	47.3	46.5	46.4	48.1	47.7	50.5	56.3	52.5	67.8	50.5	50.5
29.1	43.7	46.9	46.7	50.7	46.7	46	49.3	50	49.8	54.9	52	66.6	49.3	50.2
28.8	47.2	51.9	41.4	49.3	47.7	49.1	51.1	51.5	51.4	55.8	55.4	60.9	49.1	48.3
28.6	49.6	45.6	46.3	48.8	49.2	52.2	48.3	50.2	53.3	54.1	51.7	61.6	47.8	47.9
28.7	40.2	42.4	44.6	50.7	45.6	46.4	49.8	45.8	49.6	55.4	52.2	58.7	48.8	48
28.9	41.7	36.7	48.9	47.8	50.1	49.2	49.6	49.2	51	53.2	51.3	58.7	47.4	48.1
28.6	44.7	42.7	46	51.1	50.8	44.4	49.1	52.9	54.3	54.7	51.3	57.7	47.6	49.3
28.5	44.7	48.2	41.6	45.6	49.3	48.4	47.8	48.5	51	55.3	51	53	48.2	49.5
28.5	41.2	38.9	47.7	48.4	50.2	49.8	51.5	51	51.4	54.5	53.1	54.6	50.3	49.2
29.2	39.8	46.6	48.9	50.4	52.1	48	47.5	49.8	52.6	54.8	52.8	52.6	45.9	47.6
28.7	41.4	43.8	46.6	47.7	51.5	51	48.2	52.5	50.8	54.2	53.8	52	45.8	47.3
28.6	44.7	44.3	44	49	50.1	50.3	49.1	49.5	49.8	55.8	53.3	53.6	45.4	47.2
28.6	43.9	43.2	45.6	45.5	52	52.8	50.7	51.4	50.7	52.3	51.1	52.9	45.9	47.3
31.1	40	48.9	45.3	48.9	50.5	46.8	49.4	52.8	53.2	54.7	52.1	49.7	45.1	45.3
30.2	34.5	49.8	46.5	49.3	46.6	50.3	47.2	49	53	54.2	51	50.8	47.5	46.3
29.4	44.9	44.3	48.1	50.7	47.7	50.3	50.3	50.6	51.4	52.4	53.1	52.3	47.7	47.8
28.8	48.4	47	48.8	44.9	47.4	45.6	51	51.1	49.9	55.9	51.4	51.7	48.3	48.2
28.5	46.6	49.8	42	49.7	50.1	48.3	49.6	48.3	51.1	53.8	53.7	52.3	44.8	47.7
28.5	48.1	44.8	42.9	49.2	50.1	46.2	50.1	47.9	50.4	54.4	52	54.1	45	44.8
28.5	43.9	38.1	41.6	49.7	48.4	47.1	49.5	49.2	49.5	54.9	52.5	51.1	44.6	47.6
28.5	45.4	46.7	40.7	50.7	46.6	46.6	50.8	50.7	51	55.3	51.3	50.2	46.5	44.4
28.6	40.1	47.3	48.3	52.6	50.7	47.3	49.3	51	47.6	54.9	50.3	49.6	45.5	44.2
28.9	44.5	46	46.2	48.8	51.3	49.3	50.7	52.4	49.2	53.7	51.3	53	45	45.5
28.8	49.5	46.9	42.5	50.1	49.1	47.8	50.1	47.1	49.7	55.1	52.2	50.4	45	49.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.6	43.8	47.4	44.8	50	48.9	46.2	49.6	49.1	49.6	54.4	51.3	50.3	45.2	48.6
28.5	47.1	46.2	39.3	45.1	49.6	46.9	48.4	49.4	49.8	53.1	51.1	50.8	44.1	49.2
28.6	48.6	44.3	46.5	48.3	51.3	47.9	52.9	48.2	49.5	53.6	52.5	54.1	45.7	49.7
32.9	37.1	43	47.2	45.9	51.3	45.9	52.3	50	49.5	55	53.4	49.8	47	49.7
31.4	44.2	46.1	44.8	46.5	41.2	45.5	55.3	49	49.2	54.5	51.9	51.7	46.9	49.5
30.1	42	44.7	42.5	51.7	45.7	48.6	51.1	48.3	49.2	54.5	53.2	52.7	46	46.7
29.8	47.2	44.6	45.4	46.5	47	48.1	49.2	49	48.5	52.6	52.7	52.3	45.8	46.4
29.4	39.6	43.3	47.4	50	49.4	49	47.7	49.9	49.9	52.9	48.6	49.4	45.2	45.8
29.3	45.8	40.4	47	51.6	48.9	44.9	47.1	49.6	48.9	53.1	48.5	50	44.1	46.9
29	41.6	43.7	49.3	46.7	47.6	46.8	50.5	50.3	50.8	55.2	49.7	48.4	45	45
28.9	39.9	42.2	46.6	43.1	48.2	47.5	47.9	50.5	50.5	54.9	51.6	49.3	46.7	46.5
28.7	37.9	46.2	48.6	53.7	50.9	49.1	49.4	52	51.5	54.5	52.1	50.1	46.4	45.7
28.6	41.4	44.5	45.8	51.3	48.9	50.7	49.5	50.2	60.7	57.1	55	52	47.3	44.5
28.5	41.7	43.4	48.8	50.5	47.2	50.2	50.1	50.3	54.5	56.9	53.6	55.3	48.4	48
28.5	43.9	46.1	45.8	47.1	50.6	49.4	48.6	50	62.4	58.6	56.2	56.6	50.2	52.6
28.4	42.6	43.9	52.8	52.7	50.5	51.1	49.5	54.9	60.8	56.3	54.1	55.1	51.8	51.5
28.4	51.3	49.6	41.9	43.9	48.8	50.4	51.1	55.2	57.5	56	54.4	54.9	46.5	47.7
28.3	55.5	48	48.7	53.5	51.6	49.3	50.7	58.1	55.3	57.5	55	54.3	46.8	46.6
28.3	53.2	50.4	48.9	50.9	49.6	48.9	51.2	52.9	51.4	54.6	52.7	52.9	47.8	47.9
28.4	49.5	52.5	49.2	48	48.8	47.8	50.6	54.9	52.1	53.4	54.9	56.4	50.7	49.2
28.6	56.3	48.5	50.6	47.5	55.4	49.6	50.4	51.8	50.2	52.2	57.3	58.8	51	48.2
29	40.9	45.9	47.9	50.9	51.8	47.6	50.7	53.3	53.9	53.7	55.3	52.5	48.7	48.3
28.7	42.6	43.5	51.5	52.8	51.2	49.8	47.4	50.5	52.8	54.8	54.3	51.4	50.4	48.3
28.6	40.7	38.7	47.8	51.6	51.7	45.7	50.8	51.7	51.3	57.8	52.4	53.8	48.7	46
28.6	43.5	47.3	45.5	48	45.9	46.4	53.5	53.2	52.5	53	53.7	53.8	48.4	48.6
28.7	40.6	44.5	47.2	52.5	47.3	49.4	49.8	51.2	53	55.2	53.3	52.8	51.7	49
28.5	36.8	45.9	45.5	52.4	45.5	48.8	52.4	51	51.6	56.2	52.4	50.8	53.8	53.7
28.5	42.2	45.4	49.6	52.1	52.2	46.5	51.4	51.3	53.2	58.9	53.9	52.3	58.2	55.4
28.4	43.3	45.5	52.8	51.3	48.6	49.3	49.8	48.8	52.8	56.1	53.8	54.4	56.7	66.6
28.4	50.2	51.9	49.8	48.4	52.8	46.7	52.1	54.9	54.2	53	55.1	57.1	49.8	64.1
28.3	52.5	48.3	53.9	49.2	45.6	50.3	52.5	52	52.4	55	52.4	54.7	51.8	54.4
28.3	53.4	51.9	55.4	51.4	52.4	50.2	50.4	51.3	55.7	55.2	54.1	54.8	51.6	49.7
28.3	54	51.5	50.3	49.9	51.6	48.3	51.1	51.7	55.8	54.5	52.8	52	46.5	46.2
28.3	51.9	54.7	49.9	56.1	51.1	48.8	49.8	51.7	54.1	53.2	51.6	53.9	47.5	45.4
28.4	59.4	52.1	43.9	49.5	51.4	46.9	48.9	51	55.1	55.7	52.1	51.2	47.4	47.4
28.4	51.5	53.2	46.2	48.8	49.9	48.8	50.7	51.2	52.3	53.4	52.8	52.7	47.1	44.9
28.5	49.7	42.8	46.5	46.8	51	45.9	51.1	54	53.5	53.9	55.5	54.5	48.7	45.7

42.9	41.3	42.5	38.9	37.4	39.1	42.8	38.8	38.7	35.8	34.1	32.5	31.3	29.2	26.2	22.9
41.8	40.9	41.3	40	39.4	39.3	40.9	37.1	39.4	38	36.9	36.9	38	34.4	31.7	29.2
42.5	40.9	42.7	39.3	38.8	38.3	41.5	36.9	38.7	36.9	35.6	35.5	36	34.2	31.7	29.1
43.2	42.5	43	40.2	39.4	37.7	39.8	36.2	37.8	35.7	34.2	33.1	31.8	29.4	26.8	25.3
43.2	42.8	41.6	40.2	37.8	37.5	40.3	36.7	36.6	35.2	34.3	32.9	36.7	30.9	29.8	27.6
42.4	41.7	42.9	38.7	38.8	39.2	39.3	38	38.5	41.6	36.5	38.6	38	37.6	36.8	34.1
44.4	41.6	43.3	39.3	38.1	37.5	40.1	37.9	36.7	34.5	34	32.8	32.1	30.1	27.9	26.4
44.3	40.9	42.6	38.5	37.5	38.1	37.8	35.6	36.6	34	32.8	31.4	28.6	26.4	23.8	21.3
45.1	41.9	42.2	41.1	38.5	39.8	39.6	37.8	37.3	35.6	33.1	32	31	27.2	25.4	22.7
45.6	41.6	44	41.2	38.2	39.8	39.9	37.9	36.3	34.2	32.7	30.7	32.4	28.2	25.1	22.9
46.4	42.6	42.8	40	37.8	37.3	38.5	36.7	36.7	34.9	33.7	31.9	32.6	29.3	26.7	25.5
44.3	42.9	41.6	40.6	38.2	40.5	39.6	38	37.5	36.1	35.4	33.9	32.4	31.5	33.4	32.3
47.9	43.5	44.3	42.7	40.2	45.3	47.9	41.5	40.2	38	36.4	34.3	31.2	28.8	27	26.1
44.1	44.2	43.6	42	40.2	44.8	45.7	42.1	41.3	39.2	36.2	34.5	32.1	28.8	26.4	24.1
44.3	42.8	42.2	42.3	38.1	42.2	45.6	41.3	39.8	37.9	36.2	34.5	32.7	29	27.1	25.5
45.8	41	40.7	40.2	38.8	39.8	43.5	39.6	37.5	35.2	34.2	32.9	33	31.3	29.2	27.1
41.7	41.9	42.4	41	39.7	43.9	49.8	43.5	38.5	36.1	33.7	32.9	32.8	30.1	28.1	27.2
43.5	41.6	41.1	40.7	39.5	41.4	42.3	39.2	39.4	39	39.2	36.7	36	34.7	34.8	33.5
42.9	41	40.5	39.7	38.8	37.5	43.3	38.4	38.5	36.3	34.8	34.4	33.6	30.9	28.2	27.5
42	41.8	41.1	40.3	39.6	38.4	44.5	42.1	39.8	40	37.1	37.5	36.5	34.5	33.8	31
41.6	41.5	40.9	41.5	44.4	38.6	45.5	38.8	35.1	35	35	32.8	30.3	30.1	30.8	28.8
42.9	42.7	40.1	44.1	43.2	41.8	48.8	43.3	40.6	37.7	35.7	36.6	34.1	36.6	36.2	36.6
43.6	42.5	40.7	44.3	46.5	40.1	43.3	40.8	38	34.9	32.4	32.9	33.5	30.6	27.2	25.1
45.1	42	42	46.9	52.4	41.9	51	47.4	39.6	39.4	36.6	37.7	31.3	28.5	25.3	23.8
45	42.2	41.5	43.4	48.9	48.6	50.1	49.4	43.3	40.2	39	37.9	35.1	31.1	28.3	26.5
48.9	50.7	43.2	50.7	51.5	53.1	51.7	51.8	47.4	40.4	39.9	39	33.4	31	27.4	24.7
49.5	50.2	45.5	52.3	51.9	54.4	53.1	50.3	44.7	40.4	40.3	40.5	38.3	36.1	33.2	30.6
48.8	49.4	46	54	52.5	52	51.4	49.5	45.3	37.8	36.8	38.4	38.4	35	32	29.9
47.2	47.8	46.1	51.8	52.2	52.8	51.8	53.5	49.9	43.4	40.3	40.7	38.4	35.4	31.5	29.1
48.1	47.9	48.5	52.6	54.9	52.9	52.6	54.6	50.7	44.8	42.6	43.1	36.9	33.9	33.3	38.2
46.9	50.1	49.9	52.1	53.2	48.8	52.7	55.9	53.6	46.7	42.4	42.1	37.3	35.5	33.8	33
47	50	49.2	51.5	55.1	48	50.4	51.8	52.3	43.8	40.4	41	38	37.3	35.3	33.1
47.6	61.5	53.3	54.3	56.7	49.7	51.7	53.2	54.1	48	42.9	43.6	39.9	37.7	35.4	31
47.1	62.8	57.9	56.7	53.3	52.6	51	49.6	54.5	50.1	44.1	43.4	38	36.5	29.8	25
51.6	66.5	58.4	54.7	58	58	54.2	54.2	54.9	53	49.7	47.5	43.2	41	36.1	29.6
55.9	66.6	58.1	55.1	61.2	61.5	54.3	52.9	53.3	48.4	47.8	45.7	40.2	37.9	32.4	26.5
55	59.4	58	58.7	63.9	61.5	55.7	54.4	54.9	47.9	48.2	48.7	43.2	43.4	37.6	32.1
62.7	60.7	54.9	62.5	65.2	60.5	59.4	55.6	55.2	50.8	48.2	47.8	41.4	39.6	34.3	28
60.5	54.2	52.8	56.1	61.4	58.4	57.4	54.4	53.6	49.8	48.6	45.2	41.5	38.8	34.2	28.4
57.4	54.5	59	61.9	64.3	60.1	57.3	55.9	57.7	52.9	52.1	47.3	43.3	40	34.8	28.9
52.8	53.5	55.5	61	61.6	56.9	53.3	59.3	59.2	56	52	48.1	45.8	40.3	35.3	28.4
55.8	53.5	54.9	59.8	58.4	52	55	60.4	59.2	53.9	49.6	47.1	45	38.8	33.9	27.8
58.3	52.5	54.8	59.4	56.5	48.5	55.4	61.9	59.1	49.9	50.6	45.3	43.9	36.4	31	26.3
59.9	50.8	51.5	56.6	49.4	48.9	53.4	60	54.7	45.1	46.6	42.7	42	34.7	29.1	25.4
55.1	46.7	48.4	50	46.4	52.1	58.6	59.2	56.1	46.3	46.1	43.3	43.7	35.3	32.4	30.3
54.8	45.6	49.8	49.9	49.2	51.8	59.6	57.2	51	44.5	44.5	42.4	43.6	37.8	34	28.4
54.1	44.4	48.6	49.4	49.1	55.7	59.3	56.5	50.5	44.3	43.8	40.8	40.9	36.6	30.9	27.2
54.4	45.5	48.4	52.5	47.5	51.9	58	54.3	45.7	43.8	41.9	38.5	39.5	35.3	29.9	28
59.6	43.5	47.7	45.9	48.9	51.9	57.5	51.5	44.3	42.3	41.7	38.8	36.2	33	30.5	29.5
54.9	43.8	48	45.9	49.5	51	51.9	48.9	45.9	41.5	41.2	35.9	34.5	30.5	28	28.4
55.4	44.7	47.3	44.6	48.5	56.8	53.9	49.2	46.1	41.9	41	37.4	36.4	34.1	31.8	32
60.9	44.3	46.4	46.1	49.5	52.4	54	47.2	45.8	41.8	41.2	36	39.2	36.4	32.6	28
60.7	42.1	45.4	42.6	43.9	51.1	47.9	44.3	40.9	37.2	36.1	34.2	38.8	33	30.3	28.1
60.3	47.5	50.9	47.8	48.3	50	49.5	46.6	45.6	43.5	44.1	45.9	45.7	45.1	42	40.8
61.1	43.6	45	43.5	49.8	49.7	45.3	45.9	42.4	40.4	37.1	34.2	40.3	32.6	30.7	26.9
53.9	44	44.1	42.9	46.6	44	41.9	41.1	39.1	37.4	35.7	33.5	38.1	34.6	32.9	30.5
48.7	44	43.2	42.4	45.9	44.6	40.3	41	38.6	36.4	35.5	33.2	41.6	38	36.4	30.3
48.4	46.3	44.1	41.5	43.6	42.4	39.9	38.8	38.6	37	37.3	38.3	42.4	39.7	40	36.6
48.2	46.6	45	43	42.6	40.6	39.8	40	40.8	39.2	37.6	36	41.1	36.1	34.4	33.7
48.1	46.6	45.4	44.2	44.8	40.8	40.3	40.5	38.8	37.8	38.1	38.4	44.6	38.4	37.2	34.1
53.8	46.9	44.2	43.2	44.8	41.1	41.4	37.7	35.4	34.3	32.9	32.8	38.3	33.9	33.6	30.1
52.2	45.5	43.9	41.8	46.5	42.5	39.7	36.8	34.8	34.3	33.4	32.7	40.4	36.1	34.8	30.7
51.3	45.6	44.9	42.3	46.9	43	40.9	37.1	35	35.1	32.8	30.8	37.3	31.9	30.8	27
50.5	45.8	43.2	39.9	43.3	39.6	39.3	37.3	36.5	36.3	35.4	33.4	40.4	36	35.5	30.2
49.3	43.3	42.9	39.7	43.3	39	36.6	35.6	35.9	34.2	34.8	33.3	41.2	37	34.3	30.8
44.6	42.3	42.5	38.7	40.1	39	38.6	35.9	35.1	34.2	32.8	32.8	36.1	31.8	29.4	28
44.4	44.6	43.6	41.5	41.1	38.7	40	38.2	37.6	37.8	37.1	39	40.1	36.3	34.7	33.4
44.5	43	41.5	43	41.6	38.6	36.7	35.8	36.4	32.4	32.8	34.3	37.8	35.1	33.4	29.3
46.7	41.9	40.4	40.3	39.1	36	35.7	34	31.7	31.8	32.9	35.9	40.7	36.3	36.2	34.3

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq ·	1/3 LZeq
50.2	44	41.6	41.8	41.1	36.4	36.2	34.7	32.5	32.3	33.5	34.9	42.1	37.8	35.6	31
48.2	43.6	43.1	40.7	40.1	36	35.5	34.1	32.1	31	31.9	34.5	41	35.2	33.5	29.6
51.5	47	43.6	44.8	45.6	41.5	43.4	46.4	49.8	48.4	50	54	51.7	49.9	52.1	51.1
54.2	44.3	42	42.4	45.3	39.9	38.1	36.1	36.2	35.9	34	35.6	40	37.9	36.4	34.3
53.7	44.9	43.4	41.8	43.1	37	36.8	34.5	33.6	34.4	34.3	38.4	38.9	38.3	36.8	35.1
48.9	44.6	42.6	41.5	43.3	37.9	37.4	35.2	34.4	36.6	36.7	34.3	36.9	33.1	31.8	29
45.3	42.8	43.7	41.3	41.6	36.9	38	37.7	38.6	39.8	39.8	38.4	41.3	39.1	35.1	34.1
44.6	42.5	40.7	37.4	39.2	36.6	37.6	34.9	34.9	34	33.5	32.9	35.5	30.8	28.6	26.7
45.6	41.5	42.7	38.1	40.8	37.5	35.6	35.8	37.5	36.3	36.5	34.5	35.5	33.6	32.4	31.6
43.2	43.1	41.8	39.7	41.6	39.2	38.9	38.2	40.4	39.8	39.9	41.7	38.5	34.8	35	34.4
46.5	44.8	42.1	38.6	39.5	36.9	37.3	36.4	37.3	36.7	36.5	34.4	35.8	33.8	32.1	29.8
46.2	45	42.4	39.9	41.4	37.6	38.4	38.1	38	37.6	37.4	36.3	35.4	33	30.6	28.8
46.8	43.9	42	40.2	40.2	41	41.2	41.3	41.8	39.8	39.7	37.4	37.3	34.2	32.5	28.7
50.3	46.2	46	42.3	41.5	43.2	43.4	43.5	42.3	41	39.7	38.7	36.1	35	31.7	29.5
56.2	45.5	45.6	42.2	41.7	44.4	45.3	42.8	42.2	40.3	38.2	37.1	38.5	34.5	32.1	28.3
56.3	44.5	44.9	42.1	41.8	41.9	43.4	42.6	41.4	38.4	37.2	36.1	37.8	32.8	28.3	25.2
45.7	42.7	41	41.5	41.8	38.7	39.4	40.1	38.9	36.8	36	34.6	37.5	33.4	29.2	25.3
43.8	43.9	42.7	41.9	43.2	38.9	40.1	39.8	38.9	36.7	36.9	34.7	35	31.4	28.9	26.3
45.4	44.5	44.1	41.8	42.2	39.6	40.4	39.7	39.8	38.4	39.3	39.6	36.3	32.1	29.5	27.2
47.3	47.1	47.3	42.5	42.9	41	42.1	41.1	41.2	39.5	39.7	38.9	34.5	31.5	29.3	27.8
46.1	45.7	45.4	42.7	43.3	38.6	39.6	39.5	39.3	36.8	36.5	37.2	34.2	31.9	30.3	28.2
43.9	45.7	44.5	41.5	42.2	38.6	39.2	38.1	38.4	37.2	35.6	36.9	34.3	31.6	28.8	27.8
44.9	43.8	43.2	40.6	40	38.1	39.3	38.1	37.1	35.5	35	34.9	30.8	28.3	26.5	24.4
44.2	45.7	46.6	41.1	40.7	39	40.4	40.2	39.4	40.1	40.2	38.3	35.8	33.8	31.5	29.4
45	45.1	46.1	39.4	38.3	40.1	40.1	39.8	40.3	36.9	36.6	36.7	35.4	35	31.9	29.6
47	43.5	44	39.9	39.3	39.4	40.3	38.8	39.5	37.8	38	37.1	35	32.5	30.8	29.2
48.6	44.2	43.3	40.3	40.4	39.5	39.5	39.2	38.5	36.6	36.7	35.9	33.2	30.2	28.1	25.8
50.8	46.7	45.1	43.4	42.8	41.1	40.6	40.7	39.4	37.8	36.6	37.4	33.8	30.1	28.3	26.7
52.5	46	50.4	43	45.8	44.9	44.1	42.2	40.4	37.5	37.4	37.3	36	33.3	29.7	27.5
47	44.2	48.9	42.9	43.9	44.2	42	41.4	39.9	38.6	37.9	38.3	34.4	32.3	29.2	26.5
46.5	43.4	43.4	40.2	40.2	39.6	39.9	40.5	39	37.7	36.1	35.7	35.5	31.5	28.2	25.9
47.5	45.2	44.3	41.2	39.3	39.6	39.9	40.7	39.2	36.7	35.6	34.9	32.4	30.2	27.6	24.2
45.1	43.3	42.4	38.5	37.9	37.1	37.7	37.8	37.7	36.3	34.8	33.1	32.3	30.8	28.5	25.6
50	43.7	41.9	39.8	39.7	38.2	37.9	38	37.2	36.2	33.9	32.9	35.4	32.7	30.2	26.4
45.4	43.8	41.9	38.5	40.8	40.3	39.3	39.1	39.2	36.6	35.7	33.9	35.6	32.9	30.1	26.7
44.4	45.6	43.1	38.9	40.9	40.6	40.8	41.9	41.6	39.2	37.7	34.8	34.5	32.8	29.9	26.5
46.6	47.2	45.1	41	42.5	44	45.5	47.5	46	43.9	42.3	39.4	39.8	36.7	34.1	30.7

21.1	21.6	22.1	22.6	23.5	24.6	42.3	42.5	48	47.6	49.4	49.3	49.3
27	24.8	24.2	23.5	23.9	24.5	42.3	43.6	46.8	47.6	49.2	50	49.3
26.1	25.4	24.1	23.5	23.9	24.7	44.6	46.1	46.3	49.6	48.2	50	48.6
23.2	22.3	22.4	22.6	23.5	24.6	44	46.8	45.3	48.6	49.7	48.5	49.4
24.5	22.1	22.4	22.8	23.6	24.5	43.8	45.1	46.6	48.7	48.7	49.1	50.1
29.9	30.3	27.8	25.7	25	25.1	43.1	44.7	46.7	49.7	48.9	49.3	49.6
24.1	22.6	22.7	23	23.6	24.6	41.6	44	47.5	50.1	48.8	48.2	48.7
21	21.2	21.7	22.6	23.5	24.5	44.8	44.7	46.4	48	48.1	47.7	48.2
21.3	21	21.9	22.6	23.5	24.5	45.4	44.9	45.7	47.7	46.4	46.4	51
21.7	21.8	21.9	22.9	23.5	24.4	45.3	44.9	47.6	46.9	46.6	47.9	51.4
24.1	22.3	23.3	22.9	23.7	24.5	42.4	44.6	47.3	47.9	46.1	47	51
29.1	27.7	26.2	24.4	24	24.6	40.7	43.3	46	50.1	47.8	47.2	49.1
25.7	24.4	23	23	23.6	24.6	38.5	44.3	48.3	50.2	50.7	50.5	50.8
22.4	21.7	21.8	22.6	23.6	24.5	39.2	45.1	48.2	50.9	53.5	50.9	52
23.2	22.5	22.2	22.8	23.6	24.6	39.8	45.6	47.6	50.9	54.2	50.5	50.5
25.4	24.5	23.7	23.3	23.8	24.5	43.2	44.3	50.1	50.9	53.8	50	52.1
25.9	25.3	23.7	23.4	23.8	24.6	44.2	44.3	50.4	56.6	57.2	49.9	51
29.2	28.7	26.2	24.3	24.1	24.8	43.7	46.7	50.8	56.2	56.5	49.9	53.2
26.5	25.7	24.4	24	23.8	24.6	45.5	46.9	52.2	55.8	53.7	52.7	52.4
30.1	27.9	27.8	25.2	24.2	24.7	46.4	46.2	50.3	54.6	53	52.3	51.9
29.2	29.2	28.2	26.6	25.1	25.2	45.4	45.6	49.3	52.4	51.1	51	51.2
34.4	30.9	28.4	26.6	25	25.1	45.2	43.9	46.4	50.6	49.7	50.3	49.5
24.3	23.7	23.7	23.8	23.9	24.6	42.3	46.1	45.7	53.1	49.9	49.6	50.6
22.2	22.1	22.4	22.8	23.5	24.4	41.9	46.8	48.4	53.6	50.3	48.6	50
25	24.1	23.9	23.3	23.8	24.6	44.5	46.3	50	52.6	51.3	49.6	51
23.5	23.3	22.9	23.2	23.7	24.6	45.8	44.2	52	54.7	51.4	49.1	49.3
29.6	27.6	27.3	25.7	25.1	25	45.9	44.2	52	55	51.8	48.3	48.7
29.5	28	26.5	25	24.6	24.7	44	46.8	51.8	54	50.2	49.7	49.1
27.9	26.8	25.5	25.4	25.7	25	46.6	45.8	49.3	54.9	50.1	49.8	51.3
39.3	37.8	36.1	30	25	24.9	45.9	45.9	48.9	55.6	50.3	50.8	51.1
28.7	26.3	25	24.3	24	24.9	45.9	46.9	48	55.3	49.8	50.4	51.2
32.4	30.1	29.6	28	26.9	25.4	45.5	46	48.8	53.8	49.8	49.1	49.4
30.6	28.3	26.7	25.3	25	24.9	44.4	49	48.3	51.4	50.7	49.4	50.7
22.4	22.1	22.8	23.5	23.7	24.6	43.8	48.5	47.5	54.3	50.7	50	50.4
23.9	21.8	22	22.7	23.6	24.6	44.1	46.3	50.1	54	49.2	47.9	50.7
22.6	21.7	22.1	22.7	23.6	24.5	44.6	47.9	48.4	52.7	47.2	50.1	49.6
30.4	28.2	24.5	23.4	23.6	24.6	44.2	48	47.5	52.5	49.4	49.1	50.1
23.1	22.1	21.8	22.7	23.7	24.5	42.4	47.2	48	50.9	50	53.1	55.9
24.9	24.4	22.3	22.6	23.5	24.6	42.7	46.7	48	54.9	55.9	53.4	58.7
25.5	23	23.3	23.2	23.8	24.6	46.4	46	52.3	55.5	55.1	52	56.1
23.7	22.3	22.4	22.9	23.6	24.5	45.4	49.8	54	55.8	53.6	50.1	54.4
23.8	22.8	22.8	23	23.8	24.7	47.5	54.9	52.2	53.9	52.3	49.6	51.2
23.7	22.7	22.5	22.8	23.5	24.5	52.9	54.5	50.4	54.2	50.1	48.6	49.8
23.3	22.8	22.1	22.7	23.5	24.5	53.1	51.2	49	54.6	50.5	48.3	49.2
31.1	31.3	28.2	26.1	25.4	25.4	51.3	48.4	49.5	51.9	51.7	48.7	49.7
28.1	24.5	24.7	24.4	23.9	24.7	47.6	44.9	51	50.4	50.9	49.1	49.2
25.3	25.4	23.3	24	24.1	24.8	45.3	46.6	50.6	50.1	48.4	47.7	49.1
25.8	23.6	23.4	23.6	23.8	24.6	46.5	51.3	48.7	50	48	48.3	50.8
26.8	26.9	25.7	24.5	24	24.6	49.1	49.7	46.4	49.8	48.9	51.5	50.3
25.9	22.6	22.6	23	23.7	24.5	48.1	47.7	46.7	50.8	48.7	51.4	50.3
31.1	27.7	25.3	24.4	24.2	24.7	44.7	44.9	48.7	49.8	49.7	49.6	50.9
24.2	21.9	22.2	22.7	23.7	24.4	44.5	42.8	47.4	50.5	51.2	49.1	49.8
24.6	22.8	22.7	23	23.6	24.4	45	47.3	46.4	50.5	50.1	48.4	49.8
37.5	32.9	31.4	28.1	25.5	25	45.2	46.3	47.7	48.5	50.8	49.3	51.1
23.3	22.3	22.6	23	23.6	24.5	42.6	45.9	48.7	50	51.4	49.4	50.2
29	23.1	22.4	22.7	23.6	24.6	41.9	46.4	48.6	49.9	52.5	50.7	49.2
26.2	23.1	22.8	23.1	23.7	24.7	43.7	44.8	47.4	50.1	51	50.9	49.2
35.1	32.4	31.5	29.9	28.1	26	44.1	44.1	46.1	48.5	51.8	52.4	50.5
32.5	31	28.6	26.9	25.8	25.4	44.1	48	46.5	48.9	52.6	52.2	50.1
29.6	26.8	25.2	25.3	24.4	24.8	41.9	49.2	46.3	49.4	50.5	50.2	49.6
24.3	23.4	23.3	23.3	24	24.7	43.8	49.2	47.8	50.5	48.7	51	50.1
26.3	21.9	22.4	22.8	23.7	24.6	47.6	47.3	49	49.9	48.3	49.9	51.7
23.8	21.5	21.9	22.6	23.5	24.5	47.5	49.2	48.3	49.3	49.9	48.7	50.8
25	22.1	22.3	23.2	23.8	24.6	48.8	49	45.5	49.6	50	48	50.5
26.1	22.8	22.3	22.9	23.7	24.5	47.4	46.7	44.3	50	50.5	47.4	50.1
24.2	23.1	23	23	24	24.7	45.6	45.7	42.5	51.2	48.7	47.1	51.1
32.2	29.4	27.7	25.5	24.3	24.7	45.5	46.8	47	52.1	49.8	47.5	51.3
25.7	23.8	23.1	23.1	23.7	24.7	44.1	46.7	46.8	52	51.1	49	50.5
30.8	25.3	23.5	24.3	24.5	24.7	48.3	47.4	46.7	51.2	50.8	49	50.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
25.1	22	22.1	22.7	23.7	24.5	48	47.3	44.9	50.5	50	48.3	50
26.6	23.9	23.5	23.2	23.7	24.6	46.8	47.2	44.6	49.9	50	47.7	50
48.1	44.9	40.5	35	29.8	26.9	48.4	47.1	46	48.5	51.5	48.3	51.9
33.6	33.6	31	28.3	26.8	25.5	47.6	44.7	47.8	47.9	51.9	48.1	52.5
32.9	31.1	29.3	26.8	25.1	25.2	44.5	46	46.1	47.3	50.7	46.8	54.6
26.9	24.6	23.7	23.2	23.7	24.5	44.3	46.2	45.6	50.3	47.2	48.8	54.1
33.7	32.8	30.3	26.7	25.5	24.9	46.6	45.4	45.2	50.3	47	48.9	52.6
25.1	23.9	23.2	23.1	23.9	24.7	45.5	46	47.1	50.1	48.7	49.3	50.8
32.1	28	26.5	24.6	24.2	24.7	45.4	43.6	47.3	51.6	50	48.8	48.8
29.5	29.5	26.4	24.7	24	24.7	44.5	43.9	48.8	50.9	48.7	47.3	50.2
27.5	25.4	23.9	23.3	23.7	24.7	42.9	43.3	49.6	48.5	48.2	47.6	49.9
26.4	25.3	24.2	23.3	23.7	24.6	42.1	45.9	48.7	52.6	50.2	49.3	49.6
26	23.5	23.3	23.2	23.7	24.5	41.6	45	48.4	52.5	50.3	50.2	49.8
27.4	25.7	24.1	23.6	23.9	24.6	41.9	44.6	48.9	52.4	49.3	51.3	50.5
25.2	23.1	22.6	22.6	23.6	24.4	43.6	45.8	48.1	51	50.3	49.7	50.3
22.9	22.4	22.2	22.7	23.6	24.5	43.9	45.6	52.1	51.9	50.7	51.5	49.8
23.4	22.4	22.6	22.8	23.6	24.5	49.9	48.5	51.7	51.3	50.3	50.9	51.4
24.6	23.2	22.6	22.6	23.4	24.5	54.4	48.7	48.7	52.3	51.5	51	51.1
25.1	24.2	24.2	23	23.5	24.6	54.3	50.2	49.7	52.4	50.7	49.7	52.2
25.5	25	23.5	23.5	23.8	24.6	53.8	51.9	49.8	51.4	50	49	51.1
26.9	25.8	24.6	24.5	24.5	24.8	55.3	52	50.4	49.6	54.8	50.3	51
26	25.2	24.3	24.1	24.2	24.8	54.7	49.9	49.6	50.3	54.6	49.2	51.3
23	22.2	22.3	22.9	23.5	24.5	50.8	47.6	51.1	52.1	53	49.4	50.3
26.9	33.6	25.5	23.4	24	24.6	47.5	45.7	51.3	52.2	52.7	49.5	50.6
27.4	25.8	24.2	23.8	24	24.6	45	46.3	49.2	52	51.6	47.2	53.2
27.5	25.1	23.4	23.1	23.8	24.4	43.5	46.4	48.3	51.9	48.9	48.5	53.1
24.5	23.1	22.6	22.9	23.7	24.5	41.6	46.7	47	52.7	47.8	49.2	52.2
24.9	23	22.5	22.8	23.6	24.6	41.4	46	49.1	52.9	51	48.6	52.2
25.4	24.1	22.5	22.6	23.5	24.5	43	45.5	52	52.2	50.2	49.6	51.5
24.7	23.1	22.2	22.7	23.5	24.6	48.6	50.9	52.3	51.7	52.1	48.4	51.9
22.9	21.7	21.9	22.6	23.5	24.4	51.9	51.1	53.1	50.1	51.4	49.8	53
24.4	22.7	22.4	22.7	23.6	24.5	53	51.2	54.7	51.3	51.4	50.1	52.1
22.6	22.2	22.2	22.6	23.5	24.6	54.1	51.8	54.7	51.4	51.4	49.9	52
23.3	22.5	22.6	22.8	23.6	24.4	54.4	54.1	52.3	54.6	51.7	49.6	51.4
23.9	23.3	22.9	23.1	23.5	24.6	58.1	54.6	51.4	54.7	52.8	49.1	49.8
24.1	24.1	23.3	23.2	23.6	24.6	58	54.1	48.2	52	51.1	48.6	50.5
27.7	26.7	25.5	24.4	23.9	24.5	55	52.3	47.5	50.4	51.2	48.6	51.8

50.1	50.9	56.1	53	50.9	46.7	45.1	43.2	42.2	42.6	40.3	38.4	39.1
49	51	56.1	53	51.1	47.4	46	42.8	41.9	42.1	40.1	39	39.4
49.6	53.3	55.9	53.7	51.5	48.3	46.2	42.6	41.5	42.4	40	39.1	39.5
49.4	55.3	54.4	53.7	52	49.1	46.3	43.3	42.3	43.2	40	39.7	38.7
52.6	55.6	55	51.9	52.5	49.1	46.4	43.5	42.8	42.6	40.3	39	38
51.7	55.6	53.9	51.2	52.2	48.8	46.3	43.2	42.8	43	40.1	38.9	38.9
51.7	55.6	55.4	51.7	49.8	47.7	45.9	44.2	41.9	43.2	39.5	38.8	38.7
51.3	54.5	55.7	51.9	49.2	47.9	47.9	44.3	41.8	43.3	39.5	38	38.2
51.1	52.9	55.4	52.4	51.8	47.9	48.2	44.9	42.1	42.7	40.6	38.5	39.4
50.8	51.5	55.3	54.3	54.2	49.8	48.6	45.8	41.9	43.7	41.5	38.7	40.4
50.2	51.8	55.9	54.3	54.3	49.3	47.8	46.1	42.5	44.3	41.1	38.2	39.3
50.1	51.3	55.7	52.9	54.3	49.3	46.8	45.7	42.8	42.8	40.8	38.3	40
51.7	52.9	55.1	52.2	56	49.8	46.1	47.4	43.5	43.7	42.2	39.9	44.4
52.8	52	55	52.2	56.2	50.3	46.4	47	44.3	44	42.5	40.2	44.8
53.7	52.8	54.9	52.5	54.9	51.3	47.3	45.2	43.8	43.5	43	39.9	44.5
54.1	52.9	54.6	51.9	53.4	52.8	47.8	45.8	43	42.8	41.9	38.9	43.1
53.5	51.4	55.2	51.9	51	53.4	47.8	45.5	42.3	42.4	41.3	39.6	43.3
51.3	50.3	56.1	51.6	50.4	53.4	48.2	43.9	42.1	42.1	41.6	40.2	43.8
49.6	50.7	55.2	51.9	50.3	53	48.2	43.7	42	41.5	40.5	39.3	41.8
50.9	51.4	54.8	52.1	49.9	52.4	46.5	43.1	41.8	41.4	40.9	39.5	39.6
51.7	51.4	54.4	50.7	47.8	50.8	45.1	42.2	41.7	41.2	41.5	43.6	38.9
51.5	51.8	54.5	50	48.4	49.2	44	42.7	42.6	40.9	43.4	44.1	41.4
51.9	51.9	54.7	51.6	48.5	52.2	44.2	43.7	42.6	41	44.4	46.1	41.6
52.1	52.9	56	51.1	48.3	56.9	44	44.9	42.7	41.9	46.4	51.3	41.8
52	53.1	54.8	49.9	47.7	57.5	44.9	45.7	42.5	41.9	46.2	51.1	47.8
51.4	52.8	55.1	50.4	47.4	58.8	46.6	48	49.1	43.1	49.8	51.2	52.3
50.8	52.2	55.1	50.6	48.3	59.9	46.8	49	50	45	51.8	51.9	54
50.8	51.3	55.1	49.8	49.3	60.9	46.6	49.3	50.1	45.9	53.4	52.8	53.7
49.7	50.7	54.6	49.4	50.5	61.3	47	48.6	49.7	46.3	53.4	52.2	53.1
50.8	50.4	54.1	49.3	49.7	64.3	47.3	48.5	49	47.9	53.2	54.2	53.6
50	49.3	53.7	48.6	48.8	68.5	48.2	48.1	49.8	49.6	52.6	53.7	52.6
49.4	51.2	54.1	49.1	48.5	71.7	51	48.3	50.3	49.8	52.6	55	50.5
49.7	52.4	54.2	49.7	51.5	73.7	51.6	47.6	60.3	52.1	53.6	56.2	49.6
49.9	52.7	53.4	50.5	52.5	74.5	51.9	48.1	62	57.1	56	55.6	51.8
50.2	52.1	54.7	50.8	54.3	74.5	51.6	50.8	65.6	58.2	56	57.6	57.1
50	51.4	54.9	50.1	54.8	72.5	50.3	55.2	66.3	58.3	55.6	60.6	60.7
49.9	50.2	55.2	49.7	56.1	69.6	49.9	56.2	66.2	58.4	58.1	63.4	61.6
57.6	55.8	57.4	53.1	60.8	65.8	51.8	61.3	63.1	58.1	61.5	64.5	61.2
57.4	55.5	57.2	52.7	69.3	62.9	53.1	61.8	61.7	56.1	61.2	64.5	60.4
54	53.3	55.5	51	72.5	61.3	52.8	60.4	58.4	58	61.2	64.3	60
52.4	52.2	54.7	50.7	74.5	59	52.4	59	56.6	58	62.3	63.3	60.1
52	51.5	55.5	50.8	74.5	57.3	52.7	56.2	55.3	56.4	60.6	62.2	57.9
53.1	51.3	55.7	50.6	74	55.7	52.1	57.5	54	55.8	60	60.3	55.1
53.1	51.6	55.8	49.9	72.8	54.1	51.2	59.3	53.2	55.1	59.8	58.2	52.2
51	52.2	56.2	51.5	71.2	53.5	50.9	59	51.7	53	57.7	54.7	52.1
49.2	51.5	56.4	52.3	71.2	52.5	50.9	56.7	49.2	51	54.4	51.6	51.9
49.7	50.7	55.7	52.5	69.2	51.2	51.1	56	47.2	50.2	52	50.6	55
51.4	51.6	56.1	54.8	67.6	49.9	50.1	54.8	46	49.2	52.2	49.2	53.8
51.9	52.6	56	54.6	64.7	49.5	49.1	58.5	45.9	49.1	51.7	48.8	52.8
50.3	52.6	55.5	52.9	62.9	48.9	48.6	58.4	44.4	48.6	49.1	49.6	52.4
49.1	51.6	55.5	52.7	60.5	48.9	48.4	56.3	44.7	47.9	47.3	50.1	56.1
52.5	53.5	55.4	52	59.8	48.3	49.3	60	44.7	47.6	46.2	49.5	55
51.8	53.6	55.9	51.7	58.6	48.3	49.6	60.8	44.2	46.9	46.4	49.4	53.9
51.3	51.8	55.2	52.7	55.8	49.8	49.7	60.5	47.3	50.9	48	48.4	52.3
51.1	52.6	55.2	53.1	55.4	49.6	49.4	61	46	49.2	46.4	49.4	50.7
52.3	52.1	54.6	53.9	53.9	47.6	48.3	60.8	45.1	47.1	44.9	49.6	50.1
51.9	52	55.6	54	54	46.7	47.8	57.7	44.2	45.4	43.6	47.4	47.2
51.5	50.6	55.6	53.4	53.7	46.4	48.3	54.2	45.7	44.6	43	46.6	45.8
52.4	52.5	54.9	52.9	52.9	45.9	47.5	51.7	46.5	44.9	42.9	44.9	44
51.6	53	55.1	51.6	51.3	47	46.5	49.6	46.7	45.6	43.8	44.7	42.4
51.1	53	53.8	52.6	52.5	48.1	47.6	52.8	47	45	43.9	44.8	41.4
52.2	52	55.7	52.8	52.2	48.3	48.2	53	46.8	44.6	43.3	45.8	42.1
50.2	51.7	55.1	53.1	52.5	48	48.1	52.2	46.2	44.8	42.6	47.1	43.5
49.2	51.4	54.9	53.7	53.8	46.5	47.6	51.8	46.2	44.6	42.3	46	42.2
49.7	50.7	55.1	52.7	53.7	45.5	47.5	50.8	45.7	44	40.9	44.6	40.9
50.4	50.8	55.9	52.7	52.3	46.4	46.9	49.8	44.3	43.3	40.6	43.6	39.6
51.2	50.6	55.5	51.6	50.9	46.1	45.5	47.3	44.4	43.7	41	41.9	39.4
52.4	49.3	54.5	51.8	52.5	45.9	45.4	45.7	44.6	43.3	42.5	42.3	39.3
51.8	49.8	55.3	51.9	52.6	45.4	49	46.5	43.5	42.3	42	41.3	38.6

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
49.9	50	55.3	52.7	51.4	45.7	50.2	49.6	43.7	41.9	41.8	40.9	37.1
50.4	50	55	51.7	50.9	46.1	49.3	48.7	43.7	42.7	41.8	40.9	36.7
49.9	49.8	54.7	52.4	53.4	45.7	49.9	50.7	46.2	43.8	44	44.7	40.9
49.8	50.1	55.5	53.6	53	46.7	49.9	53.3	46.1	43.5	43.9	45.2	40.4
49.9	50.2	55.1	52.8	52.3	47.1	49.8	53.8	45.2	43.4	43.2	45.1	40.1
49.6	49.8	54.8	53.1	52.5	47.2	49.8	53.5	45.2	43.4	42.3	43.9	38.6
49.9	49.8	54.3	53.5	53.1	46.3	48	50.9	45.1	43.4	42.3	43.7	38.3
50.1	49.7	54.1	52.5	51.8	46.3	47.4	48.3	43.5	43.5	41.3	42.2	37.3
49.8	49.6	53.4	50.5	50.8	45.6	47	46.9	43	42.7	39.4	40.8	37.5
50.6	50.7	54.8	49.5	50.3	45.6	46.6	45.8	42.9	42.6	39.7	41.5	38.7
50.5	51.5	55.6	51.2	49.4	46.3	46.3	46	44.3	42.2	39.8	41.2	38.5
51.9	51.7	55.8	52.4	50.4	46.6	46.4	46.3	45	42.6	39.7	41.1	37.7
51.5	59.4	56.5	54.1	52	47.2	45.9	46.8	44.8	42.8	40.3	41.1	40.4
50.8	59.3	56.9	54.2	55	48.3	47.3	49.4	45.8	45.1	41.7	41.3	42.6
50.8	61.4	58.5	55.8	56.1	49.7	51.7	55.3	46.3	45.6	42.3	41.7	44
54	62.1	57.9	55.5	56.4	51.2	51.9	56.7	45.7	46	42.2	42	44
55	60.7	57.4	54.7	55.8	51.2	51.8	55.4	44.7	44.9	42.1	41.8	42.6
57.7	58.9	57.4	55.1	55.1	49.4	49.4	51.9	44.1	43.1	42.4	42.8	40.5
56.8	56.6	56.9	55.1	54.9	47.9	48.2	48.7	44.5	43.9	41.9	42.9	39.8
55.7	54.5	55.7	55.1	56	50.1	48.8	47.5	46.4	46.5	42.6	42.8	40.7
54.9	52.6	54.7	56.9	59.2	51.4	48.7	47.6	46.5	46.2	42.9	43.4	40.5
54.2	53.5	54.3	57.1	57	50.2	48.6	46.6	46.3	45.7	42.4	43	39.7
53.2	53.5	54.6	56.2	54.8	51.1	48.8	45.4	45.4	44.9	41.8	42.4	38.7
52.1	53.3	57	55	54.1	49.7	48.4	45	45.4	45.8	41.5	41.2	39.1
53.2	52.8	56.3	54.5	53.9	49.8	48.4	45	45.9	46.6	40.9	40.7	39.9
52.7	53.1	55.5	54	54.1	51.3	49.1	46.9	44.8	45.6	40.2	39.7	40
51.9	53.1	56.2	53.7	53.3	53.3	52.9	48.3	44.6	44.6	40.5	40.1	39.7
51.8	53.2	58.8	53.7	52.7	57.7	54.7	50	46.2	45	43	42.5	40.8
51.3	54	57.8	54.2	54.1	58.6	65	52.1	46.4	49.4	43.4	44.8	43.9
54.2	54	56.5	54.9	56.4	56.4	65.5	51.7	46	49.6	43.1	44.9	45
54.9	53.8	55.9	54.8	56.2	53.5	64.1	49.4	45.1	48.7	42.8	44	43.6
52.8	55.1	55.8	53.9	55.5	53.1	60.3	48.5	45	46.3	41.6	41.9	41.6
52.6	55.9	55	53.9	55	52	56.6	47.6	45.1	45.1	41.5	40.5	40.4
52.2	55.6	54.5	53.1	54	49.7	53	49.3	44.1	43.6	40	39.8	38.6
52.3	55.4	55.5	52.5	53.6	48.2	49.9	49.2	44	42.6	39.9	40.7	39.8
51.6	54.8	55.5	53	52.9	47.8	48.5	46.9	45.4	42.9	39.2	41	40.6
53.6	53.7	55.3	55	54.1	48.6	46.6	46.5	46.9	44.6	40.6	42.2	43.3

42.4	38.8	38.3	36	34.7	33.6	35.2	31.6	30.2	27.9	25.6	24.8
41.5	38	39.5	37.8	36.6	36.5	37.1	33.6	31	28.7	26.7	24.9
41.7	37.5	39.2	37.6	36.4	36.2	37.3	34.3	31.8	29.6	27.2	25.9
41.7	37.3	39	37.3	36.1	35.9	36.3	33.9	31.2	28.7	26.1	24.9
40.7	36.8	38.2	36.2	34.9	34.3	36.4	31.6	30	27.7	24.8	23.4
40.1	37.6	38.6	41.4	36.5	38.4	38.3	37.3	36.5	33.9	29.3	29.7
40.5	37.9	37.8	39.8	35.9	36.9	36.9	35.4	34.5	31.9	27.9	27.8
39.7	37.7	37.2	37.3	34.6	34.7	34.4	32.8	31.5	29.3	25.9	25.3
39.5	37.5	37.4	36.2	34.1	33.4	31.9	29.9	28.3	26	23.5	23.2
39.7	38.3	37	35.5	33.4	32.2	32.4	28.7	26.6	24.2	22.3	22.1
39.7	37.5	36.9	34.9	33.6	31.9	32.9	29.2	26.6	25.1	23.9	22.4
39.5	37.9	37.4	36	34.8	33.5	33.1	31.7	33.1	31.9	28.8	27.1
46.6	40.7	39.6	37.4	36	34	32.5	30.7	31.8	30.6	27.6	26.3
46.4	41.7	40.9	38.7	36.4	34.3	32.2	29.9	29.4	28.3	26.4	25
47	42.4	41.1	39.1	36.7	34.8	32.6	29.1	27.9	26.1	24.7	23.5
45.3	41	40	37.9	35.8	34.2	32.9	30.7	28.7	27.1	25.2	24.3
48.9	43	38.8	36.5	35	33.4	33.1	30.8	28.9	27.5	25.9	25.1
48.8	42.9	39.7	39	38.6	36.2	35.5	34.2	34	32.9	29	28.5
45.9	40.9	39	38.1	37.5	35.5	35.1	33.5	33.2	32.1	28.3	27.9
45.3	41.4	40	40.1	37.3	37.5	36.7	34.6	33.9	31.4	29.4	27.8
45.8	41.3	39.7	39.8	37.2	37.3	36.4	34.4	33.7	31.3	29.6	29.1
47.9	42.6	39.8	38	36.4	36.5	34.5	36.4	35.4	35.9	33.9	30.7
47.5	42.6	39.7	37.5	35.6	36	34.4	35.7	34.6	35.1	33.1	29.8
50.4	46.5	39.8	39	36.4	37.3	33.3	33.2	31.5	31.5	29.7	27.1
50.5	49	42.7	40.3	38.9	38	34.5	31.4	28.7	28.3	26.6	24.9
51.4	51.9	46.4	40.7	39.8	38.9	34.8	31.7	28.6	27.3	25.8	24.3
53	50.7	45.8	40.5	40.3	40.4	36.9	34.8	32	29.4	28.5	26.7
53.2	50.7	45.8	40.3	40	40.2	38.1	35.1	32.2	29.9	29.3	27.6
52.1	52.5	49	42.3	39.8	40.3	39.1	36.1	32.6	30.4	29.9	28.6
53.1	54	50.6	44.5	42.5	43	38.5	35.5	34.2	38.2	39.2	37.6
52.9	55.7	52.8	46	42	42	37.5	35.4	34.3	35.2	36.1	34.6
52.3	55	52.9	45.6	42	42.2	38	36.9	35.4	34.9	34	32
51.6	53.7	53.5	47.2	42.2	42.8	39.9	38.2	36.6	33.8	33	30.5
51.6	53.2	54.7	49.5	43.5	43.3	38.8	37	34.5	31.8	31	28.9
53.9	54	55.1	52.5	48.7	46.7	42.3	40.4	35.4	29.8	27.6	25.9
54.5	53.8	54.8	52.2	48.9	46.7	42.3	40.2	35.4	29.5	25.7	23.8
55.4	54.5	54.7	50.2	48.6	48.5	42.8	42.8	37.2	31.7	29.9	27.8
58.4	55.3	55.4	50.3	49.2	49.6	43.1	42.8	37.2	31.6	29.5	27.3
58.7	55.3	54.9	50.6	48.8	47.4	42.2	40.7	35.1	29.4	26.6	24.8
58.3	55.5	56.8	52	50.8	47.3	43	40.6	35.3	29.2	26	24.5
57	58.3	58.6	55.2	52.2	48.1	45.2	40.7	35.6	28.9	25.6	23.7
55.8	59.9	59.5	55.2	51.4	47.9	45.4	39.8	34.8	28.5	24.8	23.5
55.6	61.4	59.2	53.9	50.6	47.1	44.7	39.3	34.2	28	24.4	23.1
55.3	61.5	59.2	51.8	50.6	46	44.3	37.6	32.4	26.9	23.7	22.9
57.4	60.9	57.4	48.7	48.5	44.6	44.3	36.3	32.2	29.9	30.7	31
58.9	59.5	56.1	47.6	47.2	44.3	43.9	37.4	33.8	29.9	30.7	31
59.6	58.4	54	46.5	46.1	43.4	43.7	38.2	33.9	29.5	29.8	28.9
59.1	56.9	51.4	44.6	44.2	41.2	41.8	36.8	32.2	29.1	28.2	26.6
59	55.7	48.8	44.4	43	39.9	40.5	35.7	31.2	29.7	27.2	27.1
57.6	53.5	46.6	43.3	42.4	39.4	38.4	34.3	30.9	29.8	27.2	26.8
55.7	51.6	47.5	43	42.2	38.6	37.3	34.3	31.7	32	30.7	27.4
54.3	49.8	46.3	42.4	41.8	37.1	38.9	35.9	32.5	30.4	29.2	26.3
54	48.6	46	41.9	41.4	36.5	39.1	35.6	32	29.3	26.9	24.1
51.4	47.5	45.8	43.4	43.8	45.2	45.1	44.4	41.3	40.1	36.8	32.2
50	46.4	44.7	41.9	42.2	43.3	43.5	42.4	39.4	38.2	34.8	30.4
47.6	46.3	43.4	41.2	39.8	39.8	41.8	38.9	36	34.4	31.1	27.1
44.9	43.5	41.1	39	37.6	37.1	41.3	37.9	36.3	32.8	30.2	25.5
42.7	42.2	39.8	37.9	37.5	38.1	42.7	40	40.1	36.2	34.7	32
41.1	40.5	40.3	38.7	37.6	37.6	42.2	38.7	38.7	35.5	34.3	32
40.7	40.9	40.3	38.5	38.5	38.6	44	38.5	37.2	34.5	32.5	30.4
41.1	40.4	39.3	38.1	37.7	37.6	43.8	38.2	37	34.3	31.1	28.7
41.1	38.8	37.2	36.2	35.4	35.2	41.2	36.3	35.4	32.2	28.2	26.2
41.4	38	36.2	35.4	34.2	33.7	41.1	36.5	35.4	31.6	27.5	24
40.2	37.6	36.1	36	34.9	33.1	40.3	35.8	35	30.1	25.2	22.6
39.7	37	36.1	35.8	35	33.4	41.1	36.5	35.2	30.6	25.9	22.8
38.7	36.3	36	35	34.8	33.3	40.9	36.5	34.5	30.5	25.9	23.1
39.8	38.1	36.9	37.2	36.4	37.7	39.6	36	34.1	32.8	31.5	28.5
39.7	37.6	37.6	36.5	35.8	37.2	39.3	35.6	34	31.9	30.4	27.7
37.8	36.4	36.1	34.3	34.1	36.1	40.3	36.2	35.6	34	31	26.5

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
37	35.7	34	33	33.5	35.8	41.6	37.3	35.6	32.8	29.5	25.2
36.3	34.5	33.1	32.4	33.5	35.2	41.8	37.3	35.6	31.7	27.3	24
42.9	45.8	49.2	47.6	49.4	53.5	51.1	49.2	51.6	50.7	47.6	44.3
41.8	44.5	47.6	46.1	47.9	51.8	49.6	47.7	49.9	48.9	45.9	42.7
40	41.2	43.9	42.5	44	47.7	46	44.1	46	44.9	42	39.1
38.4	38.4	40.3	40.4	41.3	44.5	43.2	41.7	42.6	41.4	38.6	36
38.5	37.9	39	40.2	40.4	40.8	41.5	39.8	38.9	37.5	35	33.5
38.2	37.6	38.5	39.4	39.6	39.7	41.2	39	37	35.6	34.1	32.6
37.8	36.2	37.5	37.9	37.9	36.7	38.3	35.6	33.6	32.3	32.6	29.2
38.6	38.1	40.4	39.7	39.5	41.5	38.7	35.5	35.2	34.7	31.8	29.9
38.5	37.9	40.1	39.4	39	41	38.3	35	34.8	34.2	30.7	29.5
38.3	37.9	38.7	38.1	37.8	38.1	36.9	34.2	33.3	32.3	29.4	28
40.5	40.3	41	39.3	39.1	37.5	37.3	34.4	32.7	30.3	27.5	26
43	42.8	42	40.6	39.6	38.5	36.6	34.7	32	29.7	27.4	25.7
44.7	43	42.2	40.8	39.6	38.3	38.1	34.7	32.2	29.6	27.3	25.3
44.8	43	42.4	40.4	38.7	37.7	38.3	34.7	32.1	28.9	26.2	24.1
43.9	42.6	41.7	39.1	37.8	36.7	39.1	34.3	30.2	26.9	24.4	23.1
41.7	41.2	39.9	37.8	37	35.3	37.2	33	29.4	26.4	24.5	23.1
40.8	40.3	39.8	38.2	38.8	38.7	36.6	32.4	29.7	27.2	25.2	24.2
41.8	41.2	41	39.3	39.9	39.3	36.4	32.3	29.7	27.8	25.7	25
41.4	40.5	40.4	38.9	39.1	38.7	35.1	32.1	30.4	28.3	26.8	25.7
40.3	39.7	40	38.3	37.7	38.2	35.3	32.7	30.8	29.2	27.7	26.6
40.2	38.9	38.8	37.2	36.3	37.1	34.3	31.5	29.2	27.5	25.8	25
40.5	39.8	39.1	39.9	39.9	38	35	32.9	30.4	28.5	26.1	32.8
40.1	39.8	39.9	39	38.8	37.3	35.6	35	32.2	29.6	27.5	32.5
40.5	40	40.5	38.6	38.2	37.7	36.1	35.1	32.4	29.9	28	29.8
40.4	39.2	39.4	37.6	37.7	37	35	33.5	31.1	29.2	27.2	27.3
40.5	40.3	39.4	37.6	37	37	34	31.5	29.5	27.8	25.8	25.2
43	41.7	40.2	37.7	37.4	37.5	35.6	32.7	29.6	27.4	25.4	24.1
43.5	41.8	40.5	38.6	38.4	38.4	35.7	32.8	29.8	27.5	25.7	24.2
42.1	41.3	39.7	38.2	37.3	37.7	35.9	32.8	29.5	27	24.8	23.4
40.9	41.3	39.4	37.9	36.5	36.5	34.8	31.6	28.5	26	24.6	22.8
40.3	40.8	39.4	37.3	36.2	35.5	33.5	31.2	28.6	25.6	24.5	22.8
38.9	39	38.2	36.6	35.2	34	34.7	32.1	29.6	26.1	23.4	22.5
39.1	39.1	38.8	36.7	35.4	33.9	35.4	32.9	30.3	26.7	23.8	23.1
40.3	41.2	40.9	38.5	37.2	34.6	35.2	32.8	30	26.6	24	23.8
44.7	46.7	45.2	43	41.4	38.5	38.6	35.8	33.3	29.9	26.8	26

23.9	23.7	24	24.8	39.1	40.4	46.9	46.4	47.9	47.9	48.6	48.7	49.3
24.3	23.6	23.9	24.6	38.6	40.4	44.6	45.3	47.5	48.2	48.1	47.1	48.7
24.9	24	24.1	24.7	42.4	43.7	44	44.6	46.4	48.5	46.9	47.3	51
24.1	23.4	23.8	24.7	42.1	45.1	43.4	47.2	47.8	47.7	46.8	48.3	52.1
22.9	22.9	23.7	24.6	42.4	44.5	44.9	46.2	45.3	46.8	49	48.5	54.5
27.3	25.2	24.8	24.9	41.2	43.4	44.9	46.3	45.3	47.7	48.7	50.5	54.6
25.7	24.3	24.3	24.8	41	41.5	45	47.8	47.2	47.6	47.1	50	54.2
24.1	23.6	23.9	24.7	41.5	41.2	45.6	47.3	46.4	45	46.1	50	52.2
22.8	23	23.7	24.6	44.7	43.2	43.5	46.8	44.8	44.8	48.1	49.7	51.5
22.2	22.9	23.6	24.6	42.5	42.7	45.6	45.5	45.1	46.2	49.8	49.2	50.1
23.3	23	23.7	24.5	40.7	41.9	45.5	45.1	44.9	45.5	49	49.3	50.9
25.7	24.2	23.9	24.6	37.5	41.2	44.6	47.9	44.3	45.2	47.6	48.4	50.5
25	23.9	23.9	24.6	37	42.7	45.6	47.9	47.1	47.2	48.2	48.2	50.9
23.8	23.3	23.7	24.6	37.4	43.1	46.3	49.3	49.7	49.7	50.1	51.8	50.3
22.7	22.9	23.6	24.6	38.4	43.8	46.2	49.2	53.3	49.1	48.9	51.9	50.1
23.6	23.3	23.8	24.6	39.8	43.3	47.6	49.5	52.6	49	48.8	53.3	51.1
23.8	23.3	23.8	24.6	43.2	43.3	48.8	49.1	53.5	47.9	48.7	51.3	50.3
25.7	24.2	24	24.8	42.3	43.1	50.1	54	53.8	48.8	48.6	49.7	48.9
25.5	24.2	24	24.7	41.6	44.3	50.3	54.7	50.5	49	50.3	48.2	48.7
27.5	25.1	24.1	24.7	44.6	44.3	48.7	52.5	50.9	51	50.2	48.8	50
27.9	26.4	25	25.1	44.5	43.3	46.4	49.8	48.9	49.9	49.1	50.6	50.6
28.9	27.3	25.3	25.3	42.3	43.1	44.4	49.1	48.9	48.8	47.9	50.5	50.7
27.8	26.1	24.8	25.1	39.1	43.4	44.6	48.8	48.6	47.9	47.9	50.7	50
25.7	24.9	24.3	24.8	39.1	46.1	45.3	52.1	48.9	46.3	48.6	51.5	50.8
24.2	23.8	23.9	24.6	42	43.8	48.5	51	50	48.2	49	50.2	51.6
23.9	23.4	23.9	24.6	43.8	42.6	49.8	52.3	50.3	48.2	48.2	49.7	51.9
26.3	25.2	24.8	24.9	44.1	43.1	50.4	54.1	50.2	47.5	47.7	49.4	51.4
26.7	25.2	24.8	24.9	42.6	44.2	49.3	52	48	47.5	48.1	48.2	50.4
27.1	26	25.8	25.1	42.4	43.8	48.2	52.6	48.9	48	48.2	48.2	49.2
35.9	30.1	25.8	25.2	44	44.1	48	54.1	49.5	49.4	50.1	48.6	49.1
32.9	27.7	24.8	24.9	44.4	45.5	46	52.4	48.2	48.2	48.9	49	48.5
31	28.4	26.8	25.5	44.4	43.8	45.6	51.4	48.8	47.7	48.7	48.6	48.6
29.5	27.2	26	25.2	43.2	43.9	47.2	50.6	48.5	48.4	48.6	48.7	50.4
27.8	26	25.3	25	41.7	46.3	45.8	51.3	48.9	48	48.7	49	51.4
25.4	24.6	24.4	24.8	41.7	43.8	47.7	50.7	47.2	47.2	49	49.2	51.4
23.6	23.5	24	24.6	44	43	47.5	50.6	45.5	47.7	47.6	49	49.8
24.4	23.4	23.7	24.6	41.3	46.6	45.1	50.9	46	47.6	48.3	48.4	48.2
24.1	23.3	23.7	24.6	41.3	46.2	44.9	48.2	48.7	47.5	50.1	47.9	48.1
22.8	23	23.7	24.6	41	46	46.7	47.5	49.2	52	56.1	53.9	53
23.3	23.2	23.8	24.6	42.8	45.2	46.3	53.4	53.6	50.1	54.4	52	52.2
23.1	23.1	23.8	24.6	43	45.1	52.3	53.4	51.7	48.9	51.3	50.8	50.6
23.1	23.1	23.8	24.6	41.4	49.6	49.9	52.7	50	46.9	49.6	50.1	50.7
22.9	22.9	23.7	24.6	47.7	51.2	48.5	52.5	48.8	47.2	47.6	51	50.5
22.5	22.9	23.6	24.6	51.3	48.5	48	51.9	49.4	46.7	48	51	50.5
27.8	25.9	25.3	25.3	47.6	45	47.3	50.4	49.6	47.8	48.6	49.1	50.9
27.8	25.9	25.3	25.3	45.3	42.5	48	48.5	48.4	47	48.1	47.4	50.3
26.4	25.5	24.7	25.1	44	42.2	48.7	48.8	47.3	46.2	47.9	48	50
25	24.7	24.4	24.8	44.6	46.9	45.6	49.3	46.4	46.1	49	49.1	50.1
25.7	24.6	24.1	24.7	46.5	47.7	44.8	49.1	47.7	48.2	48.5	50.3	50.5
25.5	24.4	24	24.7	44.7	44.9	45.1	49.2	46.8	48.9	48.4	47.9	50.9
25.2	24.1	24.1	24.7	43.1	41.7	45	48.7	46.2	48.3	49.5	47.4	49.9
24.6	24	24.1	24.7	42.8	41.1	46.3	48.7	49.7	46.6	48.7	49	51.3
23.3	23.3	23.8	24.5	43.7	42.6	44	48	49.4	46.3	48.2	49.8	51.7
30.7	27.5	25.3	24.8	42.7	43.1	42.1	47.5	49	47.1	47.9	50.2	50.6
28.9	26.3	24.7	24.7	40.9	43	47.5	48.5	49.1	48.1	48.5	49.6	51.7
26.1	24.5	24.1	24.6	39.2	44.1	47.5	48.4	51	48.5	48.1	50.2	51.1
24.5	23.8	23.9	24.7	42	43.7	45.6	48.5	50.2	49.8	47.8	50	50.1
31	29.4	27.6	25.9	43	42.8	44.8	46.6	49.7	49.7	48.9	50.1	49.8
30.3	28.7	27	25.6	41.9	44	45.1	45.8	50.5	49.5	49.2	50.9	50.6
28.9	27.3	26.1	25.4	38.9	48	44.3	47.5	48.6	49.6	47.9	49.9	52.1
27.1	26.2	25.2	25	39.1	46.4	46.3	49.5	47.6	49.9	48.1	50.1	51.9
25.1	24.6	24.4	24.8	43.8	45.1	47.1	47.5	47.4	47.8	49.8	50.1	50.6
23.6	23.6	24	24.7	45.8	47.2	45.5	47.7	47.3	47.6	49.5	48.7	50.6
22.8	23.3	23.8	24.6	47.4	46.8	44	47.8	49	46.8	49.6	48.4	50.5
22.5	23.1	23.8	24.6	45.6	43.4	42.5	48.2	48.7	46.5	47.9	48.5	49.9
22.9	23.1	23.9	24.7	45.4	43.5	41.4	50	47.6	46.4	49.3	48.6	49.7
26.9	24.9	24.3	24.7	43	45.7	41.6	50	47.6	45.8	49.9	49.2	48.7
26.2	24.5	24.1	24.7	43	45.9	45.3	49.9	49.9	47.2	49.5	50	48.7
24.7	24.6	24.4	24.8	43.9	45.7	44.4	49.9	49.3	47.8	50	49.5	48.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
23.8	23.9	24.2	24.6	45.8	46.3	44.2	49.9	48.4	47.2	49.1	48.1	48.9
23.4	23.3	23.9	24.6	45.9	46.5	42.1	47.4	48.8	46.1	49	49.3	49.2
39.7	33.8	28.8	26.4	46.7	44.7	41.6	46.9	49.8	46.2	49.2	48.5	48.9
38.2	32.8	28.8	26.5	44	43.8	46.1	46.7	50.7	46.7	50.8	48.2	49.5
35	30.1	26.9	25.6	43.4	42.8	45	44.7	47.2	45.8	52.3	48.3	48.5
32.5	28.5	26	25.4	42.8	45.2	44	47.5	46.4	44.1	52.6	48.3	48.6
30.7	26.9	25.5	25	43.4	43.4	43.7	48.3	45.4	47.7	50.7	48.7	48.3
29.9	26.3	25.2	24.9	42.9	43.6	45.2	47.6	47	48.2	48.8	48.5	48.4
27.1	24.8	24.6	24.8	43.2	42	46.4	50.2	48.1	46.7	47.8	49.1	48.9
27	24.9	24.2	24.7	42.9	41.6	47.2	48.5	47.6	46.4	47.1	49.5	48.1
26.7	24.7	24.1	24.7	40.7	42.3	46.9	45.7	47.2	46.1	48.2	50	49.9
25.9	24.1	24	24.7	39.4	42.3	45.5	46.5	48	47.2	48.5	49.9	49.6
24.4	23.6	23.8	24.6	39.5	43.8	46.7	51.1	49.3	48.1	48.9	50.3	51.8
24.3	23.7	23.9	24.6	38.8	43.8	46.5	51	47.6	49.5	48.6	50.1	57
24	23.5	23.8	24.6	41.5	43.2	46.1	48.9	48.5	48.8	49.1	50	57.1
23.2	23	23.7	24.5	42.7	44.4	46.5	48.8	49.1	49.5	48.1	49.9	60.6
22.7	22.8	23.7	24.5	42.6	44.8	48.1	48.3	48.9	49.8	49.9	54.1	58.7
22.7	22.8	23.6	24.6	50	47.1	47.6	48.2	49.2	49.5	50	54.3	56.7
24.2	23	23.5	24.6	53.4	48.4	48.2	51.2	49.9	49	50.3	55	54.1
24	23.4	23.7	24.6	51	49.8	48.7	49.7	49.2	47.1	49.5	54.3	52.6
24.7	24.4	24.4	24.8	52.2	49.9	48.6	47.7	47.8	48.5	50	53.3	51.3
25.4	24.9	24.6	24.9	50.8	47.6	48.5	48.9	53	47.6	50.3	53	51.1
24.1	24	24.2	24.7	47.5	45.7	48.3	50.3	51.9	47.9	48.7	51.7	52.6
25.1	23.6	24	24.6	44.5	42.8	49.2	51.2	51.3	47.3	47.9	50.2	52
24.9	23.8	24	24.6	43.5	42.9	46.7	49.9	48.9	46.2	49.8	52.2	51.2
24.8	23.8	24	24.6	41.6	45.2	47.1	50	47.8	46.9	51.2	51.7	51.6
23.9	23.4	23.9	24.5	39	45.2	46.2	50.9	46.5	48.2	51.3	51.1	51.9
23.1	23.1	23.7	24.6	39.8	45	46	52.2	46.4	46.5	51.4	50.6	51.7
22.7	22.9	23.7	24.6	41.4	45	48.5	51.7	49.1	47.9	49.9	49.6	52.8
22.6	22.8	23.6	24.6	43	44.3	50.3	50	49	47.3	50.3	49.9	52.5
22.3	22.7	23.6	24.6	48.7	49.1	50.6	49.3	48.6	47.7	51.8	52.6	53
22.4	22.7	23.6	24.5	50.3	49.4	53.2	48.2	48.7	49.4	50.9	51.9	53
22.4	22.7	23.6	24.5	51.8	50.7	52.3	50.1	50.2	48.7	50.9	51.7	54.9
22.5	22.8	23.6	24.6	52.7	50.7	50.4	50.6	49.6	47.6	49.8	51.5	54.3
22.8	23	23.6	24.6	52.3	52.5	48.2	52	51.1	47.8	49	50.8	54.8
23.2	23.1	23.6	24.6	55	52.3	47	50.5	50.2	47.7	49.5	49.7	53.2
24.9	24.1	23.8	24.6	52.2	48.9	44.8	48.4	50.1	46.9	49.9	51.7	52.7

55.1	51.7	49.9	45.5	44.5	42.4	41.7	41	39.4	37.7	38.8	40.1	37.8
54.5	51.3	50.3	46.1	45	42.1	41	41.3	39.2	37.8	38.8	40.6	37.3
53.8	52.6	50.3	46.7	45.5	41.7	40.6	41.5	39.4	38.7	38.7	41.2	36.9
53.1	51.8	50.5	47.7	45.6	42.2	40.8	42.4	39.4	38.9	38	40.3	36.5
53.6	50.8	51.9	48.5	45.4	42.7	41.8	41.8	39.6	38.3	37.6	40.1	36.3
52.6	49.9	49.8	47.6	45.2	42.6	41.8	42.2	39.3	37.9	37.5	39.5	36.6
52.6	49.5	48.5	46.3	45.2	42.7	41	42.2	39.1	38.1	37.8	39.7	37.5
54.3	50.4	48.6	46.7	45.7	43	41.1	42.6	38.6	37.5	37.7	38.6	36.4
54	50.5	49	46.8	47.1	44	41.2	42	38.6	37.7	37.9	38.6	36.4
53.9	52.1	51.6	48	47.7	44.8	41	42.3	40.5	38	39.3	39.1	37.5
54.3	53	52.6	48	46.8	44.7	41.8	42.8	40.2	37.9	38.1	38.8	37
54.2	51	52.2	48.1	45.4	44.9	41.8	42	39.5	37.5	38	38.7	36.8
54	50.9	53.5	48.9	45.3	44.8	42.6	42.3	40.8	38.3	39.8	39.3	37.9
53.5	51.2	54.5	49	45.5	45.2	43.3	43.4	41.6	39.5	43.8	46	40.7
53.8	51.1	52.8	49.6	45.3	44.1	43	42.7	41.9	38.6	43.1	45.3	41
53.6	51.1	50.9	51.4	47.2	44.8	41.7	41.5	41	38.6	41.3	44.1	40.1
53.8	51.1	50	52.4	46	43.5	41.6	41.4	40.7	38.3	41.2	43.9	39.5
54.4	50.8	49	52.9	46	43.3	41.6	41.3	40.6	39.3	41.8	45.9	40.9
53.4	51	49.4	52.4	46.5	43	41	40.8	39.7	38.8	39.6	44.5	39.5
53.2	50.8	47.6	50.7	45.1	42.3	40.9	40.8	40.1	38.9	38.7	44.2	39.7
53.6	48.9	47.3	49	43.7	41.4	41.1	40.6	39.8	39.4	38.4	43.3	39.8
53.6	48.3	47.4	48.8	43.2	41.9	41.5	40.2	41.5	43	38.4	46	39.9
53.5	49.7	47.2	49.2	43.4	42.6	41.4	40.3	43	42.8	40.5	45.3	41.3
54.2	49.9	46.4	52.3	43.3	43.1	42	40.2	43.1	45.1	40.4	45.3	41.2
54.1	49.1	46	56.9	44	44.6	41.8	40.9	44.5	49.6	41	48.6	44.9
53.7	49.2	46.3	57.5	44.8	44.6	42.6	41.7	44.9	50.2	47.1	50.6	49
54.2	49.6	46.4	58.5	45.9	48.1	48.9	42.7	49.7	50.4	52.4	50.5	49
53.2	48.7	47.9	59.9	45.8	48.7	49.4	44.5	51.7	51.9	52.6	52	49.9
53.2	48.1	48.8	60.7	45.4	47.7	48.6	45	52.5	51.6	52.3	51.4	50
53.4	48.2	48.2	61	46.2	47.5	47.9	45.8	52.3	52.2	52.7	52	52.3
52.7	47.5	47.7	64.3	45.6	47.3	47.7	47.6	51.3	53.2	50.6	51.9	53.9
52.1	47	47.3	68.6	48.3	46.9	48.9	49.1	51.7	53.6	49.1	51.1	53.3
52.6	48.5	48.5	71.7	50.3	46.9	50.3	49.3	51.8	54.2	49	50.9	52.9
52.8	48.2	51.4	73.8	50.8	46.8	60.3	52.1	53.2	54.3	49.5	50.8	51.2
53.1	49.9	51.2	72.6	50.1	46.7	61.9	57.2	55	53.5	51.5	50.5	50.3
53.8	48.3	53.6	69.7	48.8	50.6	65.6	57	54.1	57.7	57.2	53.8	52.9
53	48.2	54.6	65.8	47.9	54.6	63.1	58	55.7	60.7	60.6	54.1	53.2
54.3	49	54.2	62.9	50	54.6	61.7	56.1	57.2	62.2	60.4	54.9	54
55.2	51.1	60.9	61.3	51.6	60.5	58.5	54.3	58.7	62.6	59.2	57.5	54.3
54.1	49.9	69.4	59	51.9	58.8	56.6	54	58.6	62.6	58.8	57	54.2
53.7	48.8	72.5	57.3	51.9	56.1	55	56.4	60.5	62.2	57.9	55.1	55.6
53.4	48.6	74	55.7	51.5	55.6	53.9	55.3	59.9	60.3	55.1	54.5	58
54.3	48.6	72.8	54	50.9	55.9	53	55.1	59.2	58.2	52.3	54.7	59.5
54.6	48.5	71.2	53	50.3	57.4	51.8	53	57.7	54.7	50.6	54.2	60.5
54.8	48.5	70.7	52.5	50.3	56.8	49.3	50.7	54.4	51.4	50.7	54.3	59.4
54.6	51.4	69.2	51.1	50.1	55.4	47.2	49.9	52	50	50.8	57.4	58
54.6	51.3	67.6	50	50.1	54.5	45.7	49.1	50.5	49.1	51.8	58.9	56.9
54.2	51.2	64.7	49.3	49	53.6	45.1	48.4	50.4	48.1	52.7	58.1	55.2
54.7	52.7	62.9	48.3	48.1	54.8	44.2	47.9	49.1	48	51.8	57.7	53.5
54.8	51.9	60.6	47.7	48	56.3	43.6	47.8	47.3	47.9	51.4	55.1	51.3
53.9	51.6	59.2	48	47.6	55.3	44	47.4	45.6	48.5	51.7	53.9	49.8
54	51	58.6	47.6	48.1	56.1	44.2	46.7	45	48.1	53.4	53.4	48.4
54	50.9	55.8	47.2	48.5	60	43.1	45.8	44.1	46.8	52.1	51.2	46.3
54.1	50.7	54.3	48.1	49.2	60.1	42.9	45.5	43.6	46.3	50.7	50	45.4
53.7	52.4	53.8	47.6	48.1	60.1	44.7	47.1	44.9	47.3	50.1	47.6	45.6
53.8	52.3	52.8	46.6	47.6	57.7	44	45.4	43.6	47.5	47.2	44.9	43.5
54.3	53.3	53	45.6	46.7	54.2	43.7	44	43	46.6	45.8	42.7	42.2
53.6	51.9	52.4	45.5	47.1	51.6	44.1	44	42.1	44.9	44	41.2	40.4
53.6	51.6	51.1	45	46.1	49.6	45.2	43.7	42	43.5	42.2	40.2	39.9
53.7	50.8	50.1	45.6	45.5	48.1	46.1	44.8	42.8	43.7	41.4	40.3	39.9
52.7	51.6	50.7	46.5	46.4	49.1	46.4	44.3	43.2	44.3	40.9	40.4	38.8
51.9	51.2	51.6	47.2	47.1	52.2	45.9	44	42.4	44.5	41.3	40.1	37.6
53.8	51.9	51.3	46.4	47.4	51.5	45.5	44.2	42.2	45.8	42.2	40.1	37
53.4	51.9	52.1	45.5	46.1	50.8	45.7	43.7	41	44.6	40.7	39.6	37
54.1	51.8	52.3	44.7	45.9	49.8	44.3	43.1	39.9	43.7	39.6	38.1	36.2
54.9	51.6	50.9	44.9	45.5	47.3	43.1	42.7	39.3	41.8	38.9	37.8	36
54.6	50.6	49.4	45.5	44.6	45.6	42.6	42.5	39.2	41	38.6	38.3	35.9
53.7	50.9	50.1	45.1	44.4	44.8	43.4	42.1	41.1	41.2	38.6	37.9	36.4
52.8	50.8	51.2	44	45.5	44.4	42.5	41.3	40.9	39.9	37	36.6	35

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
54.4	51.2	50.6	45.1	48.2	46.7	42.4	41.1	40.4	40.1	36.6	36.3	34.6
53.5	51	50.2	44.1	47.1	48	42.7	41.2	40.8	40.1	35.9	35.5	34.2
53.4	50.5	50.9	43.9	49.1	48.3	43.7	42	40.8	40.2	36.6	36	34.3
53.4	52.3	51.3	45.3	49.3	50.7	45.1	42.5	42.8	44.3	39.6	39.9	41.2
53.7	52.2	51.1	46.4	49	52.6	44.5	42.3	42.3	43.9	38.4	38.2	38.3
53.4	51.8	51.3	46	48	51	44.4	42.7	41.6	43.3	38	37.6	36.5
53.1	52.6	51.8	45.4	47	48.3	43.6	42.6	41.4	42.3	37.3	37.2	36
53.1	50.4	50.3	45	46.1	46.3	42.8	41.9	39.3	40.5	36.6	37.4	36.1
52.9	49	50	44.6	46.4	45.7	42	41.7	38.7	40.4	36.9	36.6	35.4
53.1	49	48.8	44.5	45.5	44.2	42	41.7	38.2	40.7	37.4	36.6	36.2
54.5	49.6	48.3	44.8	45.8	44.1	42.5	41.4	39	40.2	37.6	37.8	37.1
54.4	50.8	48.4	46	45.3	45.7	43.8	41.5	38.8	40	37.3	37.6	37
54.3	51.3	49.9	46.3	44.9	45.8	44	42	39.1	40.5	37.4	38.2	37.8
55.9	53.2	51.6	46.4	44.7	46.7	44	42	40.1	40.4	40.3	40.4	40.3
56.3	54.3	54.8	48.2	47.2	49.3	45.2	44.9	41.4	41.1	42.6	43	42.5
57	54.4	55	49.4	51.1	55.3	44.7	44.9	41.5	41.5	42.6	43.8	42.6
56.1	53.5	54.9	48.7	49.5	52	43.5	42.8	41.4	41.5	40.5	41.6	41.1
55.7	54	54.2	47.4	47.8	48.7	42.9	42.6	41.7	41.6	39.4	40.7	40.3
55.6	53.8	53.4	46.8	47.4	46.9	43.8	42.4	41.4	42.3	39.3	40.3	39.6
54.2	52.8	53.2	47.5	47.9	46.4	44.5	44.1	41.8	42.2	39.7	40.6	40.1
53.4	54.4	56	49.8	48	46.5	45.7	45.6	42	42.7	39.4	40.3	39.7
53.3	55.8	54.9	48.9	48.2	44.7	45.5	44.9	41.8	42.4	38.7	39.2	38.7
53.4	54.6	53.2	49.7	47.9	44.8	44.4	43.8	41.1	41.1	38.2	39.3	38.2
54.1	53.4	52.5	48.2	47	44.5	44.3	43.6	41	40.8	38.2	39.3	38.1
54.5	52.9	53	48.4	46.9	44.1	44.8	45.6	40.1	39.4	38.5	39.6	39
53.8	52.2	52.8	48.8	47.3	44.3	43.8	44.6	39.8	39.2	39.4	39.8	39
54.6	52.3	51.9	51.3	49.2	46.8	43.8	43.7	40	39.3	39.3	39.3	38.8
56.3	52.6	51.5	52.3	52.4	48	44.2	43.7	40	39.6	39.4	39.7	39.1
56.4	53.5	51.9	56.5	54.6	49.8	45.8	45.1	42.8	42.6	40.9	40.6	40.3
54.5	53.6	54	53.5	64.1	49.4	45	48.8	42.5	44	43.6	42.1	41.3
54.4	53.1	55.2	52.1	60.4	48	43.8	46.3	41.5	42	41.6	40.9	40.8
54.2	53	54.7	51.8	56.7	47.4	44.1	45	40.9	40.4	40.3	40.2	40.6
54.3	53.1	53.1	49.3	53	46.1	43.9	43.5	39.8	39	38.5	38.8	39
53.5	51.9	52.9	48.2	49.9	46	43.4	42.5	39.5	38.6	38	38.1	38.3
53.3	51.7	52.1	47.3	48.5	47	43.3	42.1	38.9	39.6	38.5	38.4	38.3
53.9	51.3	51.3	47.3	46.7	45.3	43.6	41.8	38.8	40.3	39.7	38.8	39.1
53.8	53	52.5	47.1	45.1	45.5	45.5	42.8	39	40.5	40.2	40.3	41.1

37.1	35.5	34.2	32.7	33	29.7	27.9	25.6	23.4	23.1	22.9	23.1
37.9	35.5	34.2	32.8	33.3	30.6	28.5	25.7	23.1	22.5	22.5	22.9
38.6	37.2	35.8	35.4	36.3	33.6	31	28.5	25.9	24.9	23.8	23.3
38.2	36.3	34.9	34.3	34.2	31.6	29	26.9	24.4	23.4	22.9	22.9
37.3	35.5	34.4	33.5	33.8	30.8	28.4	26.1	23.8	22.6	22.5	22.8
37.2	35.7	34.6	33.5	35.8	31.4	29.6	27.6	24.9	22.8	22.7	22.8
37.1	37.3	34.6	34.8	34.5	32.8	31.5	29.3	25.9	25.4	24.1	23.6
36.8	35.6	33.3	33	31.8	29.9	28.4	26.1	23.5	23.3	22.8	23
36.7	35.4	33.2	32.2	31.2	28.3	26.6	24.2	22.3	22	22.2	22.8
36.5	34.8	32.7	31.3	30.7	27.6	25.8	23.5	21.5	21.5	22	22.7
36.3	34.6	32.5	31.1	31.4	28	25.5	23.5	22.1	22.1	22.1	22.9
36.8	34.8	33.4	31.7	31.8	28.8	26.3	24.6	23.1	22.1	22.6	22.9
37.4	35.7	34.8	33.2	31.6	29.6	29.4	28.3	26.4	25	23.8	23.3
39.4	37.3	35.8	33.8	31.6	28.9	27.6	26.1	24.3	23.3	22.7	22.8
40	37.9	35.8	34.2	31.9	28.6	27.2	25.4	23.5	22.7	22.3	22.8
38.6	36.4	34.8	33.4	32.2	28.7	27.1	25.4	23.2	22.6	22.2	22.8
38.2	35.8	34.2	32.8	32	30	28	26.3	24.9	24.2	23.3	23.2
38.3	36.3	34.2	33.2	33.1	30.4	28.3	27.4	25.8	25	23.7	23.3
38.3	36.8	36.2	34.7	33.3	31.7	30.5	29.4	26.5	26	24.2	23.5
38.4	36.3	35	33.9	33.2	31.1	29.7	28.2	27.3	26.4	25.1	24.3
37.4	37.4	35.9	35.1	33.6	32.2	32	29.3	28.2	27	26.4	24.6
37.5	37.3	35.7	35	33.6	32.1	32	30.2	29.6	29	27.8	26.2
38.6	36.1	34	34.3	33.3	33.2	31.5	31.6	29.7	27	25.7	24.8
38.1	35.5	33.6	33.8	32.2	30.9	28.7	28.4	26.6	24.7	24	23.7
38.7	37.5	35	35.9	32.3	30	28	27.3	25.5	24.2	23.6	23.4
42.8	40.2	38.9	38.1	33.4	30.7	27.4	25.8	24.3	23.6	23.3	23.2
44.6	40	39.3	38.2	34	31.5	28.4	26.1	24.7	23.8	23.3	23.3
45	39	38.2	39.1	36.1	34	31.2	29.1	28.1	26.5	26.1	24.9
45	39	38.1	39.1	37.7	34.8	31.3	28.9	27.8	26.5	25.4	24.8
49.1	42.3	40	40.4	37.1	33.8	31.2	29	27.8	26.3	25.4	24.6
49.9	43.7	41.1	41.5	36.9	33.6	30.9	32.6	33	31.3	29.7	25.9
52	44.5	40.9	41.3	36.9	34.9	32.8	33.1	31.9	30.1	28.5	25.4
52.3	44.6	41	41.3	38	36.5	34.5	31.8	31	28.9	27.8	26
53.2	47.2	42.2	42.6	38.2	36.1	32.2	28.8	27.6	26	25.4	24.7
53.1	48.9	43.2	42.9	37.9	36.2	31.8	28.1	25.7	23.8	23.6	23.5
53.9	50.2	48.1	45.9	41.2	39	33.8	27.9	24	22.6	22.7	23
53.6	49	47.3	45.7	41.1	38.7	33.4	27.7	23.8	22.3	22.4	22.9
54.7	49	47.9	47.4	41.6	40.8	35.1	29.4	26.6	24.8	22.8	23
53.9	49.7	47.9	46	41.3	39.6	34.5	28.7	25.7	24.5	22.5	22.7
53.9	49.7	48.1	46	41.4	39.6	34.4	28.5	25	23.6	22.3	22.7
56.8	52	50.7	46.4	42.3	39.3	34.2	28.5	24.6	22.8	22.6	23
57.8	53.9	50.2	46.7	44.3	39.1	34.2	28	23.9	22.6	22.6	22.9
58.5	51.8	49.9	46.1	44.2	37.6	32.4	27	23.4	22.2	22.4	22.9
56.7	48.7	48.4	44.2	42.8	36	30.6	26	23.1	22.3	22.2	22.7
55.8	46.6	46.7	43.1	42.7	34.9	30.2	26.1	23.6	22.9	22.3	22.8
53.5	45.7	45.3	42.6	42.9	35.4	31.6	29	28.7	28.2	26.1	24.8
51.4	44.6	44.2	41.2	41.7	36.5	32	27.8	27.1	26.3	24.6	24.3
48.9	43.6	43	39.7	40.5	35.7	30.6	27.4	25.9	24.6	23.7	23.7
46.7	42.9	41.6	38	38.4	34.3	29.2	25.8	24.3	23.3	22.9	23.3
45.7	42.2	41.4	37.7	36.4	32.4	29.4	27.9	25.6	24.7	23.9	23.5
45.8	41.7	41.1	37.1	36.1	32.6	29.5	29	26.4	24.9	24.2	23.8
44.8	40.8	40.1	36.3	35.4	32.6	30	29.2	26.9	24.1	23.3	23.3
43.5	39.7	38.9	35.2	37.7	34	31	28.4	25.5	23.3	22.9	23.1
42.8	39.1	38.3	35	38.7	33.5	30.7	28	24.9	23	22.8	23
43.4	41	39.8	39.9	41.8	38.9	36.1	34.5	31.1	27.2	26.2	24.6
41.1	39.1	37.6	36.9	39.5	36.5	33.9	32.2	29.4	24.8	24.2	23.5
39.8	37.6	36.4	35.1	39.9	36.6	33.8	31.3	28	23.9	23.3	23.2
39.1	37	36.2	34.6	41.1	37.9	36.3	31.2	27.6	23.4	23.1	23.2
39	37.1	36.8	36.3	41	37.2	36.3	34.1	32.2	30	28.5	27.2
39.3	37.6	36.4	35.6	40.3	36.6	35.7	33.4	31.1	28.7	27.1	26
37.3	36.2	35.4	35.2	41.2	36.1	35.3	32.2	28.2	26.2	25.1	24.6
35.9	35	34.2	33.7	40.4	35.5	34.6	31.1	27	24.1	23.6	23.6
35.2	34.9	33.3	32	38.7	33.7	32.6	29	25.2	22.6	22.6	23
35.1	34.8	33.1	31.8	38	33.3	32.1	28.6	24.6	22.3	22.3	23
35.8	34.8	34.7	32.9	40.3	35.9	34.5	30.1	25.2	22.2	22.2	22.9
35.4	34.4	33.5	32.9	38.4	34	32	29.1	24.9	22.3	22.1	22.8
35.3	34.3	33.5	32.9	38.3	33.9	32	29.1	25	23.1	22.9	23.1
36.2	34.3	34.1	35.6	38.3	34.8	33.3	30.5	28.2	25.7	24.5	23.7
34	32.9	33.3	35.4	38.3	35.3	33.1	30.5	28.1	25.3	23.8	23.7

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
33	32.4	33.1	35.1	39.7	35.9	34.9	31.7	27.3	23.6	22.9	23.2
32.5	31.5	32.5	34.7	41.1	35.9	34.1	30.5	26.7	23.1	22.6	23
32.5	31.6	32.6	34.7	41.1	35.9	34.1	30.5	27	24	23.4	23.2
43.9	42.5	44	47.8	46.1	44.1	46	44.9	42	39.2	35	30.1
40.3	39.3	40.5	44.1	43.1	41.3	42.6	41.4	38.6	36	32.2	28.1
37.5	37.3	38.1	40.8	40.2	38.3	38.9	37.6	34.9	32.3	29.2	26
36.6	36.5	36.8	39	39.5	37.4	37	35.7	33.9	31.4	28.5	25.6
36.6	36.9	36.9	36.8	38.3	35.7	33.6	32.2	30.7	29.2	27	24.6
36.3	36.3	36.4	35.3	36.6	34.4	32.7	31.3	30	28.4	26.6	24.4
36.8	35.7	36.1	35.5	36.5	33.3	31.9	30.5	29.7	27.2	25.6	24.1
38.7	38	37.7	38.2	36.9	34.2	33.3	32.1	28.9	27.3	25.1	23.9
38	37.6	37.5	37.1	36	33.4	31.7	30.3	27.5	26	24.3	23.5
38.5	37.8	37.5	37	35.9	33.1	31.4	29.2	26.5	24.5	23.6	23.3
40.7	39.2	38.8	37.1	35.9	33.6	31.4	28.7	26.1	24.3	23.3	23.1
41.8	40.2	38.7	37.5	36.4	34.2	31.4	28.6	25.9	24.1	23.2	23
41.6	39.1	37.8	36.7	36.7	33.5	30	26.9	24.4	23.1	22.6	22.8
39.9	37.8	36.6	35.4	37.3	33	29.3	25.8	23.7	22.6	22.5	22.7
39.3	37.1	36.3	34.6	35.5	32	28.5	25.4	23.6	22.6	22.6	22.7
39.2	37.1	36.8	35.2	36	32	28.8	26.1	24.1	22.7	22.4	22.7
39.8	38.2	38.8	38.7	35.1	31.7	29.2	27	24.8	23.8	23.4	22.9
39.7	37.6	37.6	37.8	34.5	31.3	28.9	27.4	25.4	24.6	23.4	23.3
38.7	37.2	36.3	37	34.3	31.5	29.2	27.5	25.9	25	24.1	24
37.6	36.1	35.4	35.7	32.4	29.7	27.6	25.8	24.2	23.4	23	23.4
37.6	36	35.3	35.8	32.5	30.3	28.5	27.7	25.2	23.7	23	23.3
38.7	37.7	37.4	36.2	34	32	29.2	27.1	25.2	29.5	24	23.1
39.4	37.7	37.7	37	35	33.5	31.1	29.2	27.1	27.4	23.9	23.4
38.9	36.9	37	36.2	33.8	31.6	29.4	27.4	25.7	25.2	23.1	23.1
38.6	37	36.7	36.3	33.4	30.7	28.8	26.8	25.2	24	22.7	22.8
39.5	37.2	36.6	36.3	34	30.8	28.8	26.8	25.2	23.9	22.6	22.7
39.7	37.7	37.3	37.6	34.6	32	29	26.7	24.8	23.4	22.3	22.7
39.3	37.6	36.5	36.5	34.8	31.7	28.5	26	23.6	22.4	22.1	22.6
39.1	37.2	35.8	35.5	33.5	30.4	27.3	24.8	22.8	22	21.9	22.5
38.2	36.5	35.1	34	32.7	30.8	28.2	25	23.4	22.4	22.3	22.6
37.6	36	34.4	33.4	32.7	30.8	28.3	25.6	23.3	22.4	22.3	22.6
37.5	36.2	34.5	33.4	34.7	32.1	29.7	26.1	23.3	22.5	22.5	22.8
38.6	36.7	35.3	33.6	34.5	32.4	29.6	26.2	23.7	23	22.8	23
40.8	38.5	37.2	34.6	34.9	32.8	30	26.6	24	23.8	23.2	23.1

23.7	24.6	0.5	No	No
23.6	24.5	6.2	No	No
23.8	24.6	3.7	No	No
23.7	24.6	2.5	No	No
23.6	24.5	2.1	No	No
23.6	24.5	9.1	No	No
23.9	24.7	9.1	No	No
23.7	24.6	5.1	No	No
23.6	24.5	1	No	No
23.5	24.4	0.3	No	No
23.5	24.5	0.5	No	No
23.6	24.5	2.5	No	No
23.7	24.5	2.9	No	No
23.6	24.5	0.4	No	No
23.6	24.5	2.6	No	No
23.6	24.5	0.9	No	No
23.7	24.5	4.4	No	No
23.8	24.6	8.1	No	No
23.7	24.6	2.2	No	No
23.9	24.6	8.8	No	No
24	24.7	0.8	No	No
24.8	25.1	5.9	No	No
24.3	24.8	4.3	No	No
23.8	24.6	7.6	No	No
23.7	24.5	0.5	No	No
23.7	24.5	1	No	No
23.7	24.6	2.2	No	No
24.5	24.7	1.5	No	No
24.6	24.8	1.1	No	No
24.8	24.8	2.9	No	No
24.3	24.8	2.8	No	No
24.2	24.8	-0.5	No	No
25.3	25	0.8	No	No
24.4	24.8	2.8	No	No
24	24.6	3.4	No	No
23.7	24.6	1.4	No	No
23.6	24.5	0.9	No	No
23.7	24.5	1.2	No	No
23.6	24.5	-0.3	No	No
23.5	24.5	0.2	No	No
23.7	24.5	3.5	No	No
23.6	24.6	4.7	No	No
23.5	24.5	1.6	No	No
23.5	24.5	1.7	No	No
23.5	24.5	0.6	No	No
24.5	24.9	-0.1	No	No
24.2	24.8	3.9	No	No
23.9	24.6	0.4	No	No
23.7	24.6	6.4	No	No
23.8	24.5	0.6	No	No
23.9	24.6	5.8	No	No
23.8	24.5	3.7	No	No
23.7	24.5	3.9	No	No
23.7	24.4	12.2	No	No
24.1	24.6	8.5	No	No
23.8	24.6	7.5	No	No
23.7	24.6	5.7	No	No
23.7	24.6	8.9	No	No
26	25.3	5.2	No	No
25.2	25	5.6	No	No
24.4	24.8	4.2	No	No
24	24.6	0	No	No
23.7	24.6	2.7	No	No
23.7	24.6	0.3	No	No
23.7	24.5	1.4	No	No
23.7	24.5	2.3	No	No
23.9	24.6	6.3	No	No
23.8	24.6	4.7	No	No
23.8	24.6	1.9	No	No

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.8	24.5	1.7	No	No	
23.7	24.5	0.5	No	No	
23.7	24.5	24.5	No	No	
27	25.6	21.3	No	No	
25.7	25.2	13.2	No	No	
24.7	24.9	15.6	No	No	
24.6	24.8	14.1	No	No	
24.4	24.7	12.1	No	No	
24.3	24.7	6.6	No	No	
23.9	24.7	14.8	No	No	
23.9	24.7	10	No	No	
23.7	24.6	6.2	No	No	
23.7	24.6	1.9	No	No	
23.7	24.5	0.3	No	No	
23.7	24.5	0.3	No	No	
23.6	24.5	1	No	No	
23.6	24.5	0.7	No	No	
23.5	24.5	0.2	No	No	
23.4	24.5	0.1	No	No	
23.5	24.5	1	No	No	
23.7	24.6	0.2	No	No	
24.2	24.7	2.6	No	No	
23.8	24.6	-0.7	No	No	
23.7	24.6	6	No	No	
23.8	24.5	-0.5	No	No	
23.9	24.5	2.3	No	No	
23.7	24.5	0.4	No	No	
23.6	24.5	0.1	No	No	
23.6	24.5	0.1	No	No	
23.5	24.5	3.7	No	No	
23.5	24.4	1.4	No	No	
23.5	24.4	0.2	No	No	
23.5	24.4	0.7	No	No	
23.6	24.4	1.1	No	No	
23.5	24.5	0.3	No	No	
23.5	24.5	0.6	No	No	
23.6	24.5	0.1	No	No	

529		11/19/2021	2:03:42 PM	58.5	71.2	57.4	52.9	90.6	6.1	53.0	52.8	55.5	60.6	54.4	52.5	54	55.9	49.7
530		11/19/2021	2:03:43 PM	60.4	74.1	59.4	57.4	90.6	7.5	57.2	54.2	56	64.4	56.6	56.6	55.9	58	51.3
531		11/19/2021	2:03:44 PM	55.9	69.7	59.3	57.4	90.6	12.7	52.0	58.9	60.4	68	60.1	54.3	51.2	53	46.3
532		11/19/2021	2:03:45 PM	52.9	65.7	57.4	55.0	90.7	14.3	53.1	59.7	61	66.6	59.3	51.7	48.3	49.1	44.2
533		11/19/2021	2:03:46 PM	50.3	62.7	55.0	52.7	90.7	13.7	58.9	59.5	61.2	65.3	53.3	49.3	45.6	46.8	40.6
534		11/19/2021	2:03:47 PM	48.1	59.7	52.7	50.3	90.6	13.5	58.2	54.1	55.2	60.6	52.2	47.5	43.5	44.4	39
535		11/19/2021	2:03:48 PM	45.1	58.4	50.2	47.8	90.4	14.8	57.8	55.8	56.6	59.1	49.8	46.2	41.7	39.5	36.1
536		11/19/2021	2:03:49 PM	43.8	58.4	47.7	45.7	90.6	15.6	54.7	54.6	55.6	57.8	50.2	44.7	40.7	37.3	34.6
537		11/19/2021	2:03:50 PM	49.1	70.5	49.3	44.7	90.6	18.5	51.3	54.9	55.8	57.6	49.7	45.1	40.9	40.5	39
538		11/19/2021	2:03:51 PM	48.1	66.9	50.4	48.0	90.6	18.2	49.1	53.6	68.7	67.3	58.9	50.6	47.4	41.8	37.6
539		11/19/2021	2:03:52 PM	54.1	82.5	53.9	47.4	90.6	6.7	50.9	69.1	56.2	58	53.5	48.4	51.1	48.9	47.5
540		11/19/2021	2:03:53 PM	45.3	53.7	52.4	49.4	90.7	15.1	60.8	57.1	55.1	57.6	54.6	47.1	41.8	38.2	36.4
541		11/19/2021	2:03:54 PM	45.6	53.7	49.3	47.4	90.7	14.4	48.6	55.4	54.4	57.3	55.1	46.0	43.1	39	36.4
542		11/19/2021	2:03:55 PM	45.1	58.4	47.3	46.1	90.6	14.4	51.0	54.9	54.2	56.7	53.8	46.3	42.1	39.7	34.9
543		11/19/2021	2:03:56 PM	45.4	56.7	46.1	45.6	90.4	14.9	53.2	54.9	55.9	59	52.2	44.9	42.3	40.3	36.2
544		11/19/2021	2:03:57 PM	46.3	56.7	46.1	45.6	90.6	14.6	51.0	54.5	55.2	59.2	52.3	46.3	42.8	41.1	37.3
545		11/19/2021	2:03:58 PM	47.4	59.7	47.1	46.1	90.6	13.7	52.0	55.6	56.8	59	51.8	46.3	43.3	43.4	37.4
546		11/19/2021	2:03:59 PM	47.1	58.4	47.5	47.0	90.7	13.1	50.2	55.2	54.8	60.5	52.3	45.6	43.2	43.9	37.5
547		11/19/2021	2:04:00 PM	45.9	56.7	46.9	46.3	90.6	13	48.4	57.3	55.2	56.3	50.2	45.0	42.1	41.9	37.4
548		11/19/2021	2:04:01 PM	45.4	58.4	46.3	45.7	90.6	13.4	51.0	54.4	56.3	56.8	50.1	44.9	42.2	40.6	37
549		11/19/2021	2:04:02 PM	44.9	56.7	45.7	45.2	90.7	13.6	51.7	55.9	56.1	56.3	50.6	44.2	41.4	39.8	36.7
550		11/19/2021	2:04:03 PM	46.4	66.2	46.2	45.2	90.4	12.6	48.6	55.4	56.7	56.6	50.3	45.4	42.4	39.9	39.2
551		11/19/2021	2:04:04 PM	47.3	59.7	47.0	46.2	90.6	12.2	50.6	54.4	55.8	56.8	51.8	45.8	43.5	42.2	39.6
552		11/19/2021	2:04:05 PM	48.1	62.1	48.0	47.0	90.6	11.4	53.9	58.5	56.1	56.1	50.8	45.1	43.7	43.4	41.6
553		11/19/2021	2:04:06 PM	47.5	60.7	47.6	47.3	90.6	12.8	51.2	54.3	54.5	58.2	49.9	46.1	43.5	43.5	39.5
554		11/19/2021	2:04:07 PM	48.9	62.1	48.5	47.5	90.6	11.4	49.0	54.2	57.2	58.6	50.4	46.1	43.8	45.3	41.5
555		11/19/2021	2:04:08 PM	48.4	59.7	48.4	48.3	90.6	11.7	50.2	55	55.1	58.1	52.5	47.9	44.1	44.4	40.3
556		11/19/2021	2:04:09 PM	46.3	58.4	48.4	47.1	90.6	11.9	49.1	53.9	54	57.8	50	45.7	42.1	41.4	39.2
557		11/19/2021	2:04:10 PM	46.4	58.4	47.1	46.5	90.6	12.6	48.9	51.2	54	56.3	50.7	43.8	41.7	41.4	40.2
558		11/19/2021	2:04:11 PM	45.7	58.4	46.8	46.0	90.6	13.5	49.6	52.4	53.8	57.3	48.6	44.0	41.2	40.6	39.3
559		11/19/2021	2:04:12 PM	46.9	59.7	46.8	45.9	90.6	12.1	50.6	51.8	55.8	57.7	52	44.5	42.1	42	40.5
560		11/19/2021	2:04:13 PM	53.5	71.5	52.8	46.8	90.6	6.3	48.5	54.1	53.1	57.5	52	44.1	43	46	48.9
561		11/19/2021	2:04:14 PM	47.3	58.4	52.5	50.1	90.7	12.7	50.7	54.4	56.1	57.4	53	44.7	41.7	43.2	40.6
562		11/19/2021	2:04:15 PM	48.1	59.7	50.1	49.0	90.6	11.2	50.6	53.8	55.2	56.9	53.2	44.8	43.4	43.8	41.5
563		11/19/2021	2:04:16 PM	53.5	71.1	53.0	48.7	90.6	6.8	49.8	53.5	54	57.4	53.4	45.2	44.6	47	48.2
564		11/19/2021	2:04:17 PM	50.1	63.2	52.8	51.4	90.4	11.3	50.9	52	55.3	59.5	53.9	46.7	46.3	46.5	42
565		11/19/2021	2:04:18 PM	50.2	63.2	51.4	50.6	90.6	11.5	49.9	52.3	57.4	58.3	56.8	48.9	45.1	47.1	41.3
566		11/19/2021	2:04:19 PM	54.3	70.6	53.9	50.4	90.6	7.6	51.5	54.7	56.3	59.8	56.8	49.8	44.8	47.8	49.3
567		11/19/2021	2:04:20 PM	49.2	63.7	53.7	51.5	90.6	11.7	52.5	53.1	55.5	57.9	55.6	46.4	44.5	45.4	41.6
568		11/19/2021	2:04:21 PM	49.6	62.1	51.5	50.4	90.6	11.3	48.7	54.5	54.7	58.3	53.3	47.4	44.3	46.7	41.7
569		11/19/2021	2:04:22 PM	54.5	72.1	53.9	50.2	90.6	9.7	49.0	52.2	55.8	60.2	53.2	46.8	46.6	48.7	48.8
570		11/19/2021	2:04:23 PM	52.8	64.8	53.7	53.2	90.6	10.8	52.6	56.3	56.6	63.5	59.5	48.5	48.3	50.2	44.6
571		11/19/2021	2:04:24 PM	54.5	66.5	54.1	53.2	90.6	10.5	51.5	55.3	58.1	61.6	56.3	49.6	50.4	51.4	46.2
572		11/19/2021	2:04:25 PM	56.2	69.7	55.7	54.2	90.6	8	46.3	54.6	59.1	61.6	58.5	50.7	51.1	53.1	48.3
573		11/19/2021	2:04:26 PM	58.0	72.6	57.4	55.8	90.6	8.3	49.7	53.3	58	62.5	56.6	53.3	54.2	55	49.7
574		11/19/2021	2:04:27 PM	61.8	73.9	60.6	57.5	90.6	5.7	51.2	52.9	64.6	63.8	57.7	58.0	56.3	59.2	54.3
575		11/19/2021	2:04:28 PM	59.1	73.4	60.9	59.4	90.6	8.7	49.7	53.2	62.5	64.2	63	57.3	53.8	55.9	51.8
576		11/19/2021	2:04:29 PM	52.4	66.0	59.3	56.3	90.6	9.5	52.0	55.8	62.2	58.7	53.2	50.3	47.6	49.1	45.6
577		11/19/2021	2:04:30 PM	49.5	64.5	56.2	53.3	90.7	12.1	54.4	51.5	58.2	58.4	53.8	48.3	45.2	44.9	41.6
578		11/19/2021	2:04:31 PM	47.9	58.4	53.3	50.7	90.6	13.5	50.0	52.8	58.3	60.3	54.3	47.2	44.8	42.6	39.7
579		11/19/2021	2:04:32 PM	48.7	62.1	50.7	49.4	90.6	12.8	48.9	51.9	57.1	58.3	54.2	46.5	45.8	43.4	40.8
580		11/19/2021	2:04:33 PM	48.9	61.5	49.8	49.0	90.6	12.5	52.0	54	55.9	60.1	54	45.4	44.4	44.7	42.1
581		11/19/2021	2:04:34 PM	52.4	66.9	51.9	49.3	90.6	8.5	53.4	52.9	57.1	60.2	54.4	45.8	45.2	49.8	45
582		11/19/2021	2:04:35 PM	55.2	67.7	54.3	52.0	90.6	8.9	51.7	52.4	55.8	61.4	55.9	45.8	47.2	52.4	47.8
583		11/19/2021	2:04:36 PM	51.1	65.4	54.3	52.4	90.6	10.3	48.8	55.3	54.8	61.9	53.9	45.9	45.2	48.4	44.1
584		11/19/2021	2:04:37 PM	51.3	66.2	52.4	51.8	90.6	10.6	47.4	53.1	57.2	59.2	53.4	47.0	46.1	48.5	43.2
585		11/19/2021	2:04:38 PM	51.7	64.5	51.9	51.7	90.6	11	50.0	51.7	56.9	60.7	54.8	47.3	46.4	48.8	43.6
586		11/19/2021	2:04:39 PM	53.5	65.1	53.0	51.8	90.3	9.5	51.5	55.9	57.2	61.5	55.3	46.1	48.4	51.5	43.3
587		11/19/2021	2:04:40 PM	54.4	66.7	54.0	53.0	90.6	9.2	52.1	55.8	59.7	61.2	56	45.4	49.7	52.9	43.2
588		11/19/2021	2:04:41 PM	55.2	70.5	55.0	54.0	90.7	11.5	52.2	60.9	57.4	60.6	55.9	45.3	49.6	53.4	44
589		11/19/2021	2:04:42 PM	53.8	66.5	55.1	54.2	90.6	10	54.4	55.7	58.5	64.3	63.4	49.7	49.4	52	42.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin	Int. Temp (°F)	LCeq-LAeq	1/1 LZeq 8.0	1/1 LZeq 16.0	1/1 LZeq 31.5	1/1 LZeq 63.0	1/1 LZeq 125	1/1 LZeq 250	1/1 LZeq 500	1/1 LZeq 1000	1/1 LZeq 2000
590		11/19/2021	2:04:43 PM	51.6	64.5	54.2	52.7	90.6	10.5	55.9	58.5	57.8	60.8	55.5	46.4	47.5	49.3	42.1
591		11/19/2021	2:04:44 PM	49.6	60.7	52.7	51.0	90.6	11	54.8	56.3	55.6	59.3	52.5	44.6	46.7	46.1	40.7
592		11/19/2021	2:04:45 PM	49.5	60.7	51.0	50.1	90.6	11.1	54.0	54.7	55.9	57.9	52.7	44.8	47.4	45.9	39.8
593		11/19/2021	2:04:46 PM	48.7	59.7	50.1	49.3	90.6	10.9	56.3	54.4	56.5	58.2	53.3	44.5	45.2	45.7	38.9
594		11/19/2021	2:04:47 PM	48.1	58.4	49.4	48.5	90.6	12.2	54.2	53.9	54.8	58.1	51.5	44.2	43.5	44.8	40.2
595		11/19/2021	2:04:48 PM	45.7	58.4	48.5	47.0	90.6	14.1	50.4	52.8	53.3	59.5	50.8	43.7	41.9	41.4	37.5
596		11/19/2021	2:04:49 PM	47.0	60.7	47.4	46.7	90.6	12.8	52.6	56.2	54.6	58.1	52	45.5	42.3	41.4	40.3
597		11/19/2021	2:04:50 PM	46.3	59.7	46.9	46.5	90.6	12.7	52.2	54.1	56.3	57	52	45.0	42.5	41.8	38.5
598		11/19/2021	2:04:51 PM	46.2	58.4	46.5	46.3	90.6	13.8	50.8	55.6	55.4	57.4	52.3	45.3	42.5	41.2	37.7
599		11/19/2021	2:04:52 PM	45.0	53.7	46.4	45.5	90.4	14.3	48.4	54	56.9	58	51.2	45.8	41.5	40	36
600		11/19/2021	2:04:53 PM	45.3	58.4	45.5	45.2	90.6	14.2	53.4	53.3	55.9	56.7	52.7	44.3	42.9	38.4	36.4
601		11/19/2021	2:04:54 PM	44.4	56.7	45.4	44.8	90.6	15	49.6	50	54.6	58.3	51.3	44.4	40.9	38	35.8
602		11/19/2021	2:04:55 PM	46.4	60.7	46.2	44.6	90.6	13.1	45.3	53.7	54.7	58.3	52.7	44.8	41.1	39.9	40.3
603		11/19/2021	2:04:56 PM	47.1	67.3	47.1	45.4	90.6	12.3	48.6	53.6	54.7	57.2	50.2	44.4	43.1	41.9	40.2
604		11/19/2021	2:04:57 PM	45.4	53.7	46.8	46.3	90.6	14.7	52.0	54.2	57.2	58.4	50.7	44.1	41.1	40.4	37.5
605	Stop	11/19/2021	2:04:58 PM															

43.7	34.9	30.5	54.1	54.2	56.9	60.7	54	51.9	53	54.5	48.6	42.5
45.5	39	33.7	57.4	54.3	56.7	63.5	56.1	55.4	55	56.9	50.5	44.7
41.1	34.6	30.6	55.5	57.5	59.8	66.9	58.9	55.4	54.8	56.8	50.4	44.4
37.2	32	29.3	53.7	59	61.5	67.2	59.6	54.5	52.7	54.7	48.2	42.6
35	29.7	28.4	57.8	59.7	61.5	66.5	58.8	52.9	50.5	52	46	39.9
33.3	28	28.5	58.9	59.2	60.8	65.7	56.1	51	48.1	49.5	43.4	37.4
33.6	27.4	28.4	58.2	56.7	58	63.3	54	49	45.7	46.9	41.1	35.4
30.5	26.7	28.3	57.5	56.5	57	61	51.9	47.4	43.6	43.7	38.6	34.2
36.4	27.7	28.4	55.9	55.9	56.6	59.4	50.8	45.9	42.2	41.5	39.5	36.3
34.3	28	28.4	53.7	54.7	68	66.8	58.1	50.4	46.9	43.1	39.9	36.9
43.4	33.7	29.2	51.9	68.5	68	65.1	56.2	49.1	51	48.6	47	43
29.4	26.6	28.3	60	65.6	64	62.1	54.8	48.3	49.4	47	45.4	41.3
31	26.6	28.3	58.5	62.4	60.6	60	55.1	47.7	46.3	43.6	41.9	37.5
29.2	26.5	28.3	55.1	59.3	57.9	58.6	55.2	46.9	44.6	41.3	39.3	34.5
31.2	26.6	28.4	53.4	57.1	56.3	58.8	54.1	46.3	43.2	40.5	37.2	32.2
30.7	26.6	28.4	53.3	56	56.2	59.3	53	46.1	42.9	40.9	37.1	31.5
30.9	26.7	28.3	52.6	55.9	56.5	59.2	52.5	46.3	43.4	42.8	37.4	31.3
30.7	26.9	28.4	52.1	55.8	56.1	60.2	52.8	46.4	43.5	43.8	37.5	31
30.6	26.9	28.4	50.4	57	55.9	59.8	52.1	45.7	43.1	43.3	37.8	30.7
30	26.8	28.4	51.4	56.9	56.4	58.1	51	45.2	42.6	42.4	37.4	30.7
31.7	27.4	28.4	51.3	56.1	56.2	57.4	51	45.2	42.3	41.4	37	31.2
36.2	28	28.4	51.4	56.2	56.9	57	50.6	45.2	42.3	40.5	38.7	35.6
36.7	28.2	28.4	50.8	55.9	57.1	57.1	51.5	45.8	43.1	41.7	39.4	36.4
35.7	28.2	28.4	53.3	57.9	57.1	57	51.2	45.9	43.8	42.9	41.5	36.9
33	27.1	28.3	53.2	58	56.1	57.8	51.1	45.9	43.7	43.3	40.5	35.7
32.8	26.7	28.3	52	55.9	56.5	58.8	50.6	46.1	43.9	44.8	41.2	34.2
33.2	26.7	28.2	51.1	55.8	56.7	58.4	51.8	47.5	44.1	44.6	40.9	33.5
34.6	26.4	28.4	51	55.5	55.9	58.4	51.9	47.6	43.9	44.4	40.6	34.3
33.6	26.5	28.3	49.5	54	55	57.8	50.9	46.3	42.8	42.6	40.2	34.3
30.2	26.2	28.3	49.9	53	54.6	57.8	50.7	45	42.2	42.1	40.2	33.9
32.8	26.2	28.3	50.7	52.7	55.3	58.2	51.4	44.6	41.9	42.2	40.4	32.5
46.3	37.5	28.4	50.4	53.6	55.2	57.8	52	44.5	42.7	45.2	48.2	45.6
33.3	26.4	28.3	50.9	54.5	56	57.6	52.7	44.8	42.8	45	48.1	45.3
33.8	26.4	28.4	51.2	54.2	55.8	58.4	53.2	44.8	43.1	44	44.9	41.4
46.6	37.7	28.4	50.8	54.6	55.4	58	53.7	45.2	44.4	46.4	47.8	46.1
35.8	27	28.3	51.3	53.3	55.6	58.8	53.8	46.3	45.7	46.5	47.6	45.7
32.8	26.8	28.3	50.7	53.6	57.1	58.7	56	48.1	45.8	46.9	44.9	42.1
46.7	37.7	28.4	51.5	54.1	57.3	59.5	56.6	49.4	45.3	47.6	48.7	46.2
34.3	26.9	28.3	52.5	53.9	56.5	59.3	56.5	49.1	45.2	47.6	48.4	45.7
35.3	27.6	28.3	52.1	54.3	56.1	58.7	56	47.8	44.7	46.6	45.5	41.9
46.2	37.8	28.5	50.2	54.2	55.9	59.7	54.5	47.5	46.3	48.3	48.3	45.6
36.7	29.7	28.5	51.8	55.5	56.5	62.6	59	48.1	47.8	49.7	47.9	45.1
37.5	30.6	28.7	52.1	55.7	57.6	62.4	56.9	49.3	49.8	50.9	46.3	41.8
40.1	33.2	28.9	51.7	55.6	58.7	62.3	58.3	50.3	50.9	52.6	48	40.2
41	34.9	30.5	49.9	54.9	58.7	62.5	57.6	52.6	53.5	54.3	49.1	40.7
43.5	35.8	30.3	51.3	54.2	63.6	63.7	57.9	56.9	55.5	57.9	53.1	42.8
41.2	32.5	28.7	50.6	53.9	64.1	64.6	62.7	58.4	55.7	58	53.3	43.2
34.9	27.8	28.4	52.6	55.5	62.9	63.9	60.7	56.5	54.2	56.5	52	41.4
36.4	29.2	28.8	53.8	54.7	62.1	61.4	57.6	53.6	51.2	53.2	49	38.5
33.7	27.5	28.4	53.7	53.6	60	60.5	56	51.2	48.4	49.9	45.9	37.4
36	30.4	28.4	51.8	53	59.2	60.2	54.7	49.1	46.4	46.8	43	36.3
34.4	26.7	28.4	51.9	53.7	57.7	60.3	54.9	47.9	46.1	45.2	42.4	36.2
35.6	27.3	29	53	53.8	57.5	60.2	54.6	46.5	45.4	49	44.5	35.7
42.6	34.4	29.8	52.7	53.1	56.9	61.4	55.8	46.2	46.7	51.4	47.1	41.9
36.1	28.4	28.5	51.9	54.9	56.5	62.1	56.2	46.4	46.8	51.4	47	41.6
37.2	28	28.4	50.2	54.5	57.1	61.4	54.4	46.7	46.2	49.5	45.2	39
37	27.1	28.4	49.6	53.9	57	61.1	54.7	47.2	46.3	49	44.2	38.1
36.6	27	28.3	51.2	55.1	57.5	61.3	55.2	47.3	48	50.9	43.9	37.5
36.3	26.8	28.3	52	56.1	59.1	61.3	55.8	46.5	49.2	52.4	43.6	36.9
37.6	29	28.3	52.3	60.1	58.7	61.5	56	45.8	49.5	53	44	37.6
35.9	27.7	28.4	53.7	59.7	58.6	64.3	63.2	49.5	49.6	53.1	44	37.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZeq 4000	1/1 LZeq 8000	1/1 LZeq 16000	1/1 LZSmax 8.0	1/1 LZSmax 16.0	1/1 LZSmax 31.5	1/1 LZSmax 63.0	1/1 LZSmax 125	1/1 LZSmax 250	1/1 LZSmax 500	1/1 LZSmax 1000	1/1 LZSmax 2000	1/1 LZSmax 4000
35.3	27.1	28.4	55.3	58.7	58.9	63	60.5	47.8	49.5	52.3	43.4	36.7
35.9	26.3	28.4	55.5	58.7	58	61.8	58.1	47	48.3	50.5	42.5	36.2
33.2	26.5	28.3	55.3	57.1	57	60.4	55.4	45.8	47.8	48.3	41.4	35.8
34.4	28	28.3	55.9	55.8	56.8	59.2	54	45.1	47.2	46.9	40.6	34.7
34.2	27.4	28.3	55.8	55.3	56.1	58.7	53.5	45	46.1	46.3	40.2	34.8
30.5	26.7	28.4	54.8	55.1	56.1	59.5	52.6	44.3	44.5	45.3	40	34.3
35.2	28.8	28.6	53.1	55.7	54.7	59.3	52	45.1	43.3	43.3	40.1	34.7
31.7	26.7	28.4	52.8	55.5	56.4	58.2	52.1	45.1	42.7	42.3	39.6	34.1
31.9	26.8	28.4	52.4	55.8	55.7	57.7	52.4	45.5	42.8	41.9	38.9	33
30.2	26.1	28.3	51.4	55.3	57.6	58	52.3	45.7	42.7	41.8	38.1	32.1
33.2	27	28.5	52.6	54.7	56.5	57.9	52.4	45.5	42.8	40.5	37	32.8
31.5	26.7	28.3	51.9	53.9	55.7	58.3	52.5	44.7	42.7	39.3	36.6	32.8
34.1	29	28.3	50.9	53.4	55.7	58.5	52.8	45	41.8	39.8	39.6	33.9
34.6	32.3	29.4	49.1	53.7	55.1	58.5	52.5	44.8	43.2	41.6	40.5	34.7
33.4	29.1	28.5	50.2	53.8	56	58	51.3	44.6	42.7	41.5	40	34.4

34	30.1	51.8	52.8	55.8	59.7	51.8	49.1	48.1	50.1	44.6	38.6	30.9
37.7	32.7	54.3	52.8	55.9	60	53.7	51.8	53.2	54.6	48.7	42.5	34
37.5	32.6	53.5	53.3	55.9	63.2	56.3	54.6	52.8	54.7	48.2	42.6	36
36	31.4	52.3	56.8	59.8	66.5	58.7	52.9	50.5	52	46	39.9	33.7
33.9	30.2	53.9	58.9	60	65.7	56.1	51	48.1	49.5	43.4	37.4	31.5
31.4	29.1	57.2	56.7	58	63.3	54	49.1	45.7	46.9	41.1	35.3	29.6
29.5	28.7	57.3	55.6	57.1	61	51.8	47.3	43.7	43.7	38.7	34.2	28.3
28.3	28.5	55.9	55.3	56	59.1	50.8	46	42.1	40.9	36.6	32.2	27.4
27.9	28.5	53.7	54.7	55.7	58	50.1	45.4	41.4	39	35.4	31.5	27
28.5	28.5	51.3	53.7	56.2	57.5	50.2	45.3	44.1	41	38	34.7	27.8
33.4	29.1	50.5	54.7	64.1	62.1	54.8	47.3	43.8	40.2	38.1	34	27.5
32	28.8	51	62.5	60.7	59.9	54.4	47.5	46.3	43.6	42	37.5	29.5
29.4	28.5	55	59.3	57.9	58.6	54.7	46.6	44.6	41.3	39.3	34.5	27.9
27.9	28.4	52.7	57.1	55.9	57.4	54.1	46.3	43.2	40.4	37.2	32.1	27
27.1	28.4	52.8	55.8	55.5	57.3	52.8	45.5	42.5	40.3	36.5	31.5	26.7
26.8	28.4	51.6	54.5	55.2	58.5	52.5	45.2	42.3	40.2	36.5	30.9	26.6
26.8	28.4	51.3	55.2	55.4	58.6	51.8	46.1	42.6	41	37.2	30.8	26.7
26.9	28.4	50.4	54.9	55	58.9	52	45.7	43.1	42.8	37.2	30.6	26.7
27	28.4	49.2	54.5	55.2	57.9	51	45.3	42.5	42.4	37.2	30.4	26.7
27	28.4	49	55.4	55.2	57	50	44.9	42.1	41.4	36.9	30.1	26.8
27.2	28.4	49.9	54.5	55	56.3	50.5	44.5	41.6	40.5	36.6	30.3	26.9
27.9	28.4	49.5	55.5	55.5	55.8	50.1	44.4	41.8	40.1	36.9	31.2	27.1
28.5	28.4	49.1	54.5	55.7	55.8	50.4	45.2	42.2	40.2	38.6	35.3	27.5
28.8	28.4	49.9	54.5	55.9	55.9	50.7	45.1	43	41.7	39.4	35.7	28
28	28.4	51.9	55.9	55	56.7	50.3	44.9	43.2	42.6	39.9	34.2	27.5
27.4	28.4	50.1	54.4	55.3	57.8	50	45.8	43.2	43.2	39.9	33.3	27
27	28.4	49.8	54.5	55.7	57.9	50.8	45.8	43.7	44.3	40.4	32.7	26.8
26.9	28.3	49	54	54.6	57.6	50.6	46.3	42.8	42.7	39.6	33.4	26.6
26.6	28.4	48.6	52.2	53.9	56.6	50.3	45	42.1	41.7	39.6	33.6	26.5
26.6	28.3	48	52.2	53.4	56.7	49.4	44.4	41.5	41	39.5	31.9	26.3
26.3	28.3	50	51.7	53.8	57.1	49.5	44.2	41.5	40.3	39.4	31.9	26.2
36.8	28.4	48.4	52	54	56.9	51.3	43.9	41.9	42.2	40.3	32.4	26.2
36.4	28.4	49.1	53.5	53.6	56.6	51.6	44.3	42	44	44.9	41.5	32.8
32.8	28.4	50.2	52.9	54.9	56.8	52.5	44.4	42.1	43.7	43.1	38.4	30
37.2	28.5	49.8	53.4	54.4	56.9	53.1	44.6	42.9	44.1	42.2	36.7	28.6
36.7	28.4	49.7	52.4	53.8	56.8	52.8	44.8	44.4	46.1	44.9	42.1	33.2
33.2	28.4	49.8	52.2	55	58.2	53.9	46.3	45.2	46.4	43	38.7	30.3
37.3	28.4	49.2	52.1	56.4	58.3	55.9	47.9	44.7	46.8	42.4	37.1	29.1
36.7	28.4	50.8	52.5	55.3	58.5	55.9	47.6	44.6	46.4	45.5	41.9	33.2
33.1	28.3	50.3	53.3	55.1	58.1	54.5	47.4	44.4	46.4	43.4	38.9	30.6
37.3	28.4	49	52.6	55.2	58.3	53.7	46.7	44.3	46.6	42.6	37.7	29.7
36.6	28.5	49.4	53.5	55.2	59.4	54.9	47.2	46.4	48.2	46.2	41.8	33.7
33.7	28.6	51	54.6	56.4	61.6	56.1	48	47.8	49.7	46.1	39.7	32.1
33	28.9	49	54.6	57.3	61.6	56.9	49.4	49.7	51	46.3	39.5	31.9
34.5	30.2	48.2	53.9	57.8	61.6	56.8	50.3	50.9	52.7	48	40.2	33.1
35.5	30.7	49.6	52.9	58.1	61.8	57	52.5	53.5	54.4	49.2	40.7	34.5
35.4	30	49.1	52.9	62.4	62.4	57.1	56.5	54.2	56.5	52	41.5	33.4
33.4	29.2	49.7	53.1	62.1	61.5	57.6	53.7	51.3	53.3	49	38.5	30.7
30.7	28.8	50.8	52.5	60.1	59.7	55.7	51.2	48.4	49.9	46	37.4	29.8
30	28.8	51.8	52.4	58.9	59.5	54.7	49.1	46.4	46.8	43	35.3	28.6
30.2	28.6	49.9	51.7	57.7	59	53.7	47.7	45.8	45.1	41.3	34.1	28.1
30.1	28.5	49.8	51.5	56.1	59	54	46.4	45.1	44.2	41.3	34.7	28.3
28.3	29	51.2	53.1	56.9	59.3	53.4	45.4	44.7	44.8	42.5	35.2	27.5
33.8	29.8	51.9	52.2	55.5	59.1	54	45.5	45.3	49.1	44.5	35.4	27.5
33.4	29.6	50.2	52.5	55.4	60.9	54.5	45.8	45.7	49.5	45.2	39	31
31	29	48.7	53.6	55.3	59.9	53.9	45.9	45.4	48.8	44.2	38	29.4
29.4	28.6	48.6	52.3	56.1	60.4	53.8	46.6	46	48.7	43.8	37.4	28.1
28.1	28.5	48.9	52.8	56.5	60.5	54.2	46.3	46.3	48.8	43.5	36.9	27.4
27.4	28.4	51.2	54.3	57	60.7	54.6	45.7	47.9	50.8	43.3	36.5	27
28.6	28.4	51.5	56.1	57.8	60.5	55.5	45.4	49.2	52.3	42.7	35.6	26.8
28.5	28.4	52.1	57.7	57.7	60.2	55.8	45.7	48.9	52.3	43.1	36.1	27.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmax 8000	1/1 LZSmax 16000	1/1 LZSmin 8.0	1/1 LZSmin 16.0	1/1 LZSmin 31.5	1/1 LZSmin 63.0	1/1 LZSmin 125	1/1 LZSmin 250	1/1 LZSmin 500	1/1 LZSmin 1000	1/1 LZSmin 2000	1/1 LZSmin 4000	1/1 LZSmin 8000
28.1	28.4	53.8	57.1	57.9	61.8	58.2	46.9	48.3	50.6	42.5	35.8	27.5
27.4	28.4	54.6	57.1	56.5	60.4	55.5	45.7	47.3	48.3	41.4	35.7	26.8
26.8	28.4	53.9	55.6	56.1	59.1	54	45	47.2	46.9	40.5	34.3	26.5
27.9	28.3	53.3	54.3	56.1	58.4	53.5	44.7	46	46.2	39.4	33.6	26.5
27.9	28.3	54.5	54.2	55.2	58	52.4	44.3	44.6	45.3	39.7	34.3	27.5
27.5	28.4	52.4	53.4	54	58.2	51.4	43.9	43.1	43.3	38.6	32.4	27
28.4	28.5	52.3	53.3	53.3	58.1	51.3	43.9	42.5	42.2	38.3	32.2	27
28	28.5	51.5	54.1	54.5	57.3	51.5	44.7	42.2	41.9	38.8	32.8	27.2
27.3	28.5	51.4	54.5	54.9	57.1	51.9	45	42.4	41.3	38.1	32.1	26.9
26.9	28.4	49.8	54.2	55.7	56.9	51.4	45.2	41.8	40.5	36.9	30.7	26.4
27	28.5	50.1	53.7	55.7	56.6	51.4	44.6	41.4	39.3	36.6	31.1	26.4
26.9	28.5	50	51.5	54.7	57.2	51.6	44.4	41.6	38.5	36.1	31.9	26.8
28.6	28.4	48.2	51.5	54.6	57.7	51.4	44.1	41.4	38.2	36.1	31.5	26.7
31.7	29.2	48.2	52.9	54.4	57.5	51.2	44.3	41	39.1	38.5	33.1	27.9
31.3	29	48	53.2	54.7	57.4	51	44.1	42.2	41	39.3	34	30.6

28.9	41.6	40.1	47.4	43.2	50.7	49.8	50.8	48.7	50.8	54	56.8	58.1	51.4	49.1
30.1	43	46.2	45.7	48.1	49.2	49.8	48.7	51.6	53.8	56	55.8	63	54.3	48.6
31.5	53	46.1	43.5	51.7	43.7	48.9	52.5	51.2	53.1	56.2	55.9	66.5	57.7	51.1
30.2	50.5	55.6	43.5	54.2	55.5	51	53.2	59.2	58.5	55.9	56.2	66.8	55.8	52.5
29.1	52.3	45.8	50.4	56.4	53.9	51	58	55.7	53.1	56.3	54.6	63.8	48.4	46.1
28.7	50.9	46	57.2	56.2	54.5	51.9	56.1	51.3	50	55.3	54.6	58.3	47.3	46.8
28.5	51.5	51.5	53.5	54.3	49.4	47	45.6	50.4	54.1	55.7	54.2	52.2	47.1	45.2
28.4	53	51.9	50	52.2	49.1	47.8	48.9	47.8	54.8	54.2	53.4	52.3	48	45.4
28.4	55.1	53.1	49.8	52.8	50.4	46.6	48.2	51	51.8	54.8	53.5	49.2	46.7	45.1
28.4	52.8	49.7	46.7	54.3	48.2	44.6	52.2	55	52.8	62.8	60.2	60.9	55.2	56.4
28.4	50.7	46.7	45.7	49.3	51.8	67.1	66.7	63.4	53.5	53.4	51	52.5	49	49.3
28.5	47.6	46	54.7	60.1	63.1	47.8	50	49.4	48.3	54.8	52	50.7	52.5	47.9
28.4	40	46.6	58.1	46.8	51	49.5	51.6	48	49.5	54.8	52.9	53.6	53.9	50.1
28.3	40.1	54.4	47.5	56.5	50.6	46.3	50.2	49.9	48.6	54	52.1	51.7	52.6	47.4
28.3	48.4	44.2	46.8	48.9	52.6	47.8	48	49.4	52.5	55.7	51.9	50.6	50.5	46.3
28.3	45.4	45.7	46.3	51	51.1	49.8	50.4	49.9	50.9	56.5	55.1	51	50.5	47
28.3	45.9	49.3	41.7	50.6	45.8	47.9	50.6	51.1	53	54.4	53.8	55.2	47.1	46.2
28.3	49	47	49.5	50.9	53.5	47.4	45.5	49.7	51	54.6	52.1	58.4	50.4	46.7
28.4	47.3	48.1	46.3	50.1	52.1	47.7	47.8	50.1	51.9	54.8	50.1	49.9	45.9	45.8
28.4	44.5	44.5	48.7	52	52.9	47.8	50.7	48	54.3	55.1	49.4	48.1	44.1	45.8
28.4	36.7	46.6	46.3	54.5	50.3	45.9	48.2	49.8	52.7	53.4	50.7	48.5	49.2	46.3
28.4	34.5	44.6	47.6	50.4	51.5	44.8	50.6	50.5	52.7	54.5	49.1	50.6	47.4	46.1
28.4	43.1	41.5	38.5	54.6	51.1	49.3	51.8	50.1	53	54.2	46.2	50	49.7	46.8
28.4	48	42.9	49.2	51.4	47	49.5	51.3	50.7	51.3	54.4	49.3	48.4	48.2	45.3
28.3	46.1	47.3	48	52.5	51.1	46.6	49.7	49.4	52.1	55.8	52.2	49.4	46.3	45.3
28.3	40.6	47.1	48.5	57.5	49.4	49.2	48.7	53.2	52.6	57.2	53.8	53	46.8	44.6
28.2	50.7	42.2	46.3	47.4	44	50.5	48.2	51.7	50.5	54.1	51.9	54.4	49.7	45.3
28.3	46.4	44.1	48.4	52.8	50.7	49.5	49	49.5	51.6	54.1	53.1	51.9	48.4	44.8
28.3	41.3	45.2	44.3	47.5	51.3	43.1	45.5	47.4	50.3	51.5	51.9	48.9	48.9	43.6
28.3	40.8	42.3	44.8	48.6	48.1	44.9	49.3	47.4	49.8	55	51.6	51.2	45.5	43.1
28.2	41.3	45.4	43.8	47.1	48	47.8	46.6	49.6	52	56.2	51.8	50.2	49.8	44.9
28.3	43	41.6	48	47	47.7	43.7	51.4	48.3	49.6	54.3	53.1	50.6	50.2	45.7
28.3	42.5	48.9	45.8	51.5	44.3	47.3	50	49.5	52	53.7	50.6	51.4	51.3	44.8
28.3	42.2	42.8	43.8	54	46.9	43.7	49.8	50.4	51.5	55.2	51.7	49.9	52.2	45.7
28.4	35.4	48.3	45.1	47	48.8	42.6	50.8	49.2	48.9	55.2	50.2	49.8	52.8	44.9
28.3	43.9	47.2	47	52.3	51.3	45.4	46.5	48.8	48.6	57.5	52.3	50.2	51.2	46.6
28.3	42.9	48.1	48.2	47.1	46.8	47.9	52	52.8	53.5	54.5	53.6	52.4	55.6	48.8
28.3	44.4	44.9	46.5	50.4	41.2	50.5	49.4	53.8	51.6	55.2	53.4	55.6	55.4	47.1
28.3	41	44.2	50.2	47.5	49.2	46	50.6	48.6	51.3	53.1	51.8	55.3	55	46
28.3	46.7	40.5	51	49.7	47.7	48.8	49.7	50.8	51.4	53.1	54.4	53.4	51.4	47.3
28.3	44.7	38	44.2	48.9	50.8	49.2	50.8	51.4	51.4	55.9	55.1	51.9	51.1	47.2
28.4	42.9	46	46.3	46.6	47.8	47.9	49.4	52.9	53.4	55.6	61.5	53.8	53.3	57.2
28.4	42.7	41.3	47.6	52.3	48	48.8	50.5	52	55.2	59.8	55.9	50.9	55.1	46.3
28.6	43	45.8	50.1	54.3	51.2	50	52.1	50	58.1	60.9	53.8	56.9	58	47.9
28.9	48.9	44.4	44.7	51.5	49.5	48.8	52	53.3	57.4	55.6	53.1	60.3	54.4	50.5
30	39.9	40.5	48.9	49.7	48.8	48.4	50.3	57.6	62.2	57.5	55.8	62.2	54.2	49.9
29.3	35.1	42.7	45.7	46.8	48.6	44.8	53.3	58.5	61	56.3	57.6	61.8	58.5	58
28.7	43.9	46.1	48.4	49.4	50.8	49.7	51.9	59.8	55.3	55.4	55.7	54.4	50.5	46.2
28.6	41.3	46.8	48.4	49.4	53.2	47.4	51.1	52.7	56.8	56	54.2	48.8	51.7	46.2
28.6	44.6	47.7	52.9	46.2	46.8	46.2	49.8	52.6	55.1	53.9	54.2	57.6	52.7	47
28.5	44	45.8	42.3	46.8	49.2	45.2	51.3	52.3	53.9	53.4	54.2	53.8	51.3	47.8
28.4	37.1	47.6	45.5	48.6	47.6	45.7	50.3	49.4	51.1	55	55.5	56.6	53.3	47.2
28.4	43	47.9	42.8	48.4	49.1	51.4	54.5	50	53.9	55.1	55	53.3	51.6	46
28.7	43.9	49	45.3	47.8	48	49.4	51	49.9	52.8	57.1	55.3	57.7	54.9	48.9
29	44.8	48.5	47.1	46.2	46.7	49.3	48.3	50.5	52.1	57	54.6	57.3	51.9	48.3
28.6	51.7	44.1	46.7	45.5	51.9	51.3	47.3	52.3	55	55.8	54.5	51.5	51.5	46
28.5	47.4	43.1	45.2	48	46.3	46.6	46.7	52.3	53.9	57.5	57.3	50.6	53.5	47.3
28.3	42.4	40.9	46.9	48.2	48.2	49	49.1	54.4	52.5	57	58.7	51.1	54.7	46.9
28.3	42.2	44	50.9	52.6	47.6	49.9	52.7	55	53.1	55.8	57.8	53.2	55.1	47.1
28.3	43.8	43.1	49	52.5	43.1	52.5	54.4	54.7	48.7	56.6	57.6	54.1	55	47.4
28.3	39.6	48.9	50.3	55.8	56.3	51.5	53	53.7	51.1	55.6	59.1	61.9	61.9	57.2

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/1 LZSmin 16000	1/3 LZeq 6.3	1/3 LZeq 8.0	1/3 LZeq 10.0	1/3 LZeq 12.5	1/3 LZeq 16.0	1/3 LZeq 20.0	1/3 LZeq 25.0	1/3 LZeq 31.5	1/3 LZeq 40.0	1/3 LZeq 50.0	1/3 LZeq 63.0	1/3 LZeq 80.0	1/3 LZeq 100	1/3 LZeq 125
28.3	39.9	46.9	53.3	57	48.3	50.4	54.4	54.4	52.8	57.6	56.4	51.8	53.5	48.7
28.3	40.3	48.6	53.4	53.7	53.8	52.3	51.7	52.2	50.3	54.6	54.6	52.5	51.9	46.3
28.3	47.2	48.6	52.4	55.4	51.8	49.6	52.4	52.6	48.9	55.1	53.6	52.1	50.3	45.7
28.3	44.6	49.7	51.9	48.9	49.1	49.3	50.4	50.9	51.7	54.7	54.3	52.7	52.2	45.8
28.3	42.3	46.1	54.9	48.3	50.3	49.5	48.1	51.5	50.2	55	53.3	50	49.3	45.8
28.3	45.8	49	51.4	51.8	46.9	48.4	49.6	49.4	50	55.8	55.3	53.3	49.6	44
28.4	50.2	44.2	46.2	49.5	51.2	45.5	47.1	47.1	48.3	54	54.3	51.5	48.6	47.2
28.4	47.8	43.1	48.6	51.1	53.9	44.4	52	52	51.4	53.2	52.3	51.5	50	45.8
28.4	40.4	50.3	50.2	43.7	52.5	50.6	47.7	50.7	51.6	53.8	50.9	52.5	49.4	47
28.3	42.2	47.2	46	38.4	53.9	47.2	50.1	54	51.9	54.7	51.7	52.6	47.3	45.4
28.3	41.7	47.1	49.1	48.7	51.3	48.2	46.7	51.5	51.8	52.4	52	50.8	48.3	49.9
28.3	46.8	39	50	48.8	49	47.9	47.1	49.2	51.7	53.5	54.5	52.4	48.1	48.3
28.3	38.2	49.5	46.6	45.4	46.3	45.3	49.9	50.6	50.1	53.7	53	50.9	46.7	49.1
28.3	42.5	41.1	43.5	42.9	50.8	46.5	46.4	49.3	51.3	53	52.6	53.7	46.3	46.4
28.8	33.7	42.8	44.8	49.2	51.1	45.8	50	54	51.6	53.9	50.1	50.7	47.8	45.8

46.9	49.4	47.5	43.8	47.5	47.5	51.3	52.9	51.1	48.4	46.9	44.2	42.9	41.3	38.6	34.7
47.9	53.6	52	47.9	49.7	50.6	53.2	55.4	53.1	49.7	48.9	45.2	43.8	42.4	40.8	37.8
49.6	51.8	49.6	45.9	45.5	46.6	47.3	49.6	48.8	44.9	43.6	40.6	39.7	38.2	36.3	33.3
50.3	48.3	46.9	42.7	44.3	43.7	43.3	45	44.7	43.2	41.4	38.6	36.8	33.9	32.4	29.7
47.6	47	44.7	40.5	42.2	40.8	41.2	43.5	42.3	40.1	37.5	34.9	34.7	32.4	29	27.9
47.6	45.1	42	38.4	39	39.2	38.7	40	40.7	37.6	36.1	32.6	33.6	30.4	27.9	25.5
44.4	43.4	41.7	37.1	38.2	36.2	36	35.1	35.2	33.4	32	29.9	32.3	30.6	28.8	25.9
43.3	42.2	40.5	36.4	36.6	35.3	36.1	33.4	32.7	31	30.2	29.7	29.8	27.4	25.5	23.8
42.2	42.1	40.5	36.6	37	35.7	35.3	33.2	34.6	35.4	32.9	33.3	35.3	32.9	32.8	26.1
52.7	45	46.6	45.4	45.3	41.2	41.1	40.7	37.6	34.7	34.2	33.4	33.2	31.7	29.3	26.5
46.6	44.4	45.4	41	43.8	42.6	48.3	43.8	44	42.6	44.7	41.4	41.2	40.3	38.5	36.1
43.8	44	41.9	37.9	38.2	36.4	37.2	35.4	33.4	31.7	34.3	29.8	29.3	26	23.9	22.5
42.9	43.8	41.1	36.7	39.2	36.3	37.5	35.5	34.4	31.9	32	31.5	31.1	28.8	24.9	23.2
43.2	43.3	40.6	38.4	38.8	36	36.8	35.6	35.6	33.1	32	28.8	28.6	25.9	24.1	22.7
43.7	41.1	41.2	37.5	37.7	37.2	37.4	35.9	36.4	34.4	32.7	31.2	30.3	28.3	26	24.1
46.6	43.5	41.4	39.2	38.2	37.9	38.3	36.9	36.1	35.3	34.3	32.3	30.9	28	25.3	23.1
45.5	42	41.5	39.7	39.1	38.1	39.8	38	39.6	37.2	33.8	32.4	31	28.2	25.4	23.3
47.7	42.2	41	39.3	38.3	38.1	38.1	38.7	40.3	38.2	34.5	32.4	30.2	28.2	25.3	23.2
45	41.2	40.8	38.1	37.4	37.3	36.8	36.2	38.4	36	33.7	32.9	30.7	27.2	25	23.7
42.3	40.6	40.6	39.2	37.2	37.1	36.9	36.2	36.3	34.6	32.8	32.3	30.8	26.9	24.5	23.6
41.9	41.5	39.3	36.4	37.8	36.1	35.6	35.2	36	34.2	32.9	31.4	31.4	28.5	26.1	25.2
41.5	42.1	40.6	38.4	38	37.5	37.4	34.6	35.4	35.1	34.3	33.3	35.6	34.5	29.5	27
43.4	41.9	41.7	38.4	38.7	38.4	38.8	37.9	37.9	36.4	35.9	33.7	34.5	34.4	31.5	27.8
43.1	41.8	40.2	36.7	38.3	38.1	40.1	39	38.4	38.4	38.5	35.4	37	33.1	30.4	27.5
44.3	41.8	41.8	38.7	38.2	38.6	38.6	39.3	39	37.4	36.4	34.7	32.3	30.7	27.1	26
43	42	41.6	38.5	37.6	39.5	39.7	39.3	42.1	39.8	38.6	36.9	33.7	30.9	26.7	24
45.5	44.1	43.9	39.4	39	39.6	40	39.2	40.1	38.8	36.9	35.5	33.2	30.6	27.6	25.1
42.4	42.4	40.5	38.9	36.9	38	37.1	36.8	37.6	35.7	34.6	34	34.2	32.7	29.1	25.2
42.6	40.3	40	35.8	36.5	37.6	36.2	36	36.2	37.1	33.8	36.2	35.9	31	27.9	25
40.8	39.9	39.4	36.9	37.1	37.6	35.1	35.2	35.2	37.2	33.1	34.7	34.8	27.2	24.8	22.5
42.9	40	40.2	37.9	36.7	38.1	36.8	39.3	36.1	34.4	34.6	36.5	35.7	30.8	26.9	22.6
43	39.3	40.8	39.3	36.9	38.4	39.1	44.4	38.1	41.1	41.2	44.1	45.8	43.6	41.2	38.9
43.6	41	40.7	38.8	36.3	36.9	38.1	40.9	37.2	36.2	35	35.3	36.9	31.4	27.4	24.4
42.3	41	40.1	37.6	37.2	39	39	41.5	37.5	36.7	36.1	36	37.8	30.7	28.6	25
42.8	41	40.8	38.5	39.7	39.5	39.9	43.6	40.5	41.4	42.2	43.7	45	43.1	42.6	39.1
45.9	42.2	41.6	40.2	41.1	41.7	42	44.4	40.3	38.3	36.6	37.2	37.7	32.9	30.9	27.3
46.9	46.2	44.2	41.6	39.5	40.5	40.1	44.5	42.6	38.4	37.1	36.3	35.9	30.3	26.9	24.1
48.9	46	46.4	41.3	39.3	40	40.7	45.2	41.8	41.3	41.9	44.7	46.3	43.7	41.6	39.5
47.6	42.9	42.4	39.8	39.4	39.6	40.5	44.1	38.8	37.2	36	36.7	37.5	31.4	28.9	25.6
44.5	43.9	43.2	40.3	38.8	39.3	39.7	44.9	40.1	37.3	36.8	36.1	37.5	32.6	30.3	26.1
45.1	40.2	43.1	41.4	39.3	42.1	42.1	46.6	42.8	40.9	42.7	43.5	45.8	42.8	40.8	40.2
48.5	42.6	44	43.1	42	44.5	44.3	47.7	45.2	41.5	40.7	40.4	37.5	33.7	31.9	28.2
46.3	44.9	45.5	44.5	45	46.1	45.7	46	48.3	44.2	43.2	41.6	37.2	35.1	32.2	29.1
45.5	43.7	46.8	46.6	44.1	46.1	47.7	48.4	49.7	46.8	45.6	43.8	40	37.7	34.6	32.1
47.4	47.3	50	48.3	47.6	49.7	50.3	51	51.4	48	47	45	41.1	38.2	35.8	33.2
51.5	50.5	55.1	52.6	49.4	52.2	52.1	54.1	55.2	53.6	52.4	48.6	43.2	41.3	37.9	34.9
57	52.6	53.8	49.8	47.2	50.3	49.1	50.2	52.3	50.6	49.9	46.4	42.5	38.8	35.7	33.2
44.9	44.7	46.4	45.1	42.3	43	43.2	43.9	45.4	44.3	43.4	40.1	36.6	32.5	29.4	26.1
44.5	43.7	44.6	43	39.9	41.4	41.2	40.1	41.2	39.4	38.9	36.6	34.8	33.4	31.7	28.2
45.7	43.4	43.4	40.9	39.1	40	40.8	39	37.9	36.5	36.1	34.9	34	31.5	27.8	25.1
45.2	43	41.2	38.9	38.9	41.7	41.4	40	37.7	37.4	35.8	36.8	35.6	32.9	31.2	29
44.7	41.7	40.7	38.2	38.5	39.6	40.5	39.4	41.5	38	38.2	37.8	34.9	32	29.4	24.7
46.7	42.6	41	37.7	36.9	40.1	42.5	42.3	48.1	41.4	40.7	40.5	38.2	32.9	30.5	25.5
44.1	41.7	41.8	40.3	38.9	41.5	45	44.9	50.4	45.3	42.9	43.6	42.6	40.9	36.6	32
46.2	42.3	41.1	39.6	39.1	39.2	42.3	44	45	41.7	40.5	38.9	36.9	34.2	29.9	26.8
44.4	43.3	42.5	41	40.9	40.2	42.2	45	42.7	42.9	39.7	37.1	37.6	35.1	31	27.7
45.3	42.8	43.8	41.3	40.4	41.8	42.3	45.5	43.1	43.3	40.8	37.5	37.1	35.3	30.5	26.3
43.3	41.8	42.1	39.9	40.2	44.3	44.9	50.7	43.3	43.2	40.6	37.3	37.3	34.9	30	26
43.9	41.1	41	39.5	38.9	45.6	46.2	52.4	42.9	41.6	40.8	37.6	36.5	34	30.6	26.9
43.7	41.1	40.1	38.7	37.4	45.8	46.7	53	41.9	41.4	39.9	39.5	37.5	35.6	31.9	28.8
49.3	46.9	41.8	40	39.9	44.9	46.4	51.6	41.4	42.5	40	37.1	35.9	33.7	30.1	26.9

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZeq 160	1/3 LZeq 200	1/3 LZeq 250	1/3 LZeq 315	1/3 LZeq 400	1/3 LZeq 500	1/3 LZeq 630	1/3 LZeq 800	1/3 LZeq 1000	1/3 LZeq 1250	1/3 LZeq 1600	1/3 LZeq 2000	1/3 LZeq 2500	1/3 LZeq 3150	1/3 LZeq	1/3 LZeq
43.3	42.9	42.4	39.8	39	43.1	44.4	48.2	40.4	42.1	39.1	36.5	35.5	33.1	29.4	26.2
42.4	40.7	40.5	38.9	37.8	43	43.5	43.7	39.7	39.5	37.8	34	34.9	34.1	29.8	25.9
42.5	41.3	40.4	37.6	37.2	43.5	44.5	43.3	40.1	39.3	36.4	33.6	34.3	30	28.5	24.6
41.7	41.3	39.3	37.6	36.2	39	42.6	43.2	38.2	39.6	35.5	33.4	33.2	31.4	29.8	26.3
43	40.2	40	37.2	36.9	38.5	40.3	40.8	38	41.3	37	34.6	33.6	30.8	30.1	25.8
40.7	39.9	38.8	37.6	36	37.1	37.8	37.8	36.2	35.8	34.1	32	31.4	27.3	25.8	23.1
46.4	41.9	40.7	38.4	37.1	38.3	37.9	37.4	36.5	36.2	36.4	35.7	34.3	32.9	29.3	26.9
43.6	40.9	40.5	38	36.8	36.5	38.7	38.7	36.6	35.2	35.5	34.2	31.2	29.5	25.6	23.9
44.9	42.6	41.5	38.4	37.2	37.4	38.3	37.7	36.5	34.3	34	33.3	31.4	29.3	25.9	24.3
44.9	43.3	41.4	38.7	36.9	37.2	36.3	37.3	34.7	33.5	32.6	30.1	30.4	27.7	24.3	22.7
41.7	40.6	40.3	36.6	38.4	39	36.3	35.3	33.2	32.7	32.3	30.7	31.7	31.1	26.9	24.6
43.4	40.6	39.9	37.4	37	36.9	35.5	34.3	32.8	32	31.6	30.2	31.7	29.3	25.9	23.3
45.3	41.2	41.2	36.9	36.4	36.8	36.5	34.7	35.1	35.4	37.4	34.9	33.4	31.5	28.4	27.4
43	40.6	40	38.1	36.7	40	38.9	36.9	36.7	37	37.8	33.9	34.6	31.1	29	28.6
41.6	39.4	39.2	36.7	35.6	37.5	36.7	36	35.6	34.4	33.4	32.1	31.9	30.6	27.8	26.1

30.7	30.3	28.8	27	25	24.7	52.2	48.8	48.7	48.4	51.1	49.3	51.3
34.2	34.5	33.6	31.2	27.5	25.4	48.4	46.7	46.8	47.8	50.8	50.1	50.6
29.9	30.1	29.5	27	25	24.9	51.6	47.5	46.6	51.1	49.8	50.3	52.1
27.4	27.7	26.7	24.9	24	24.6	51.6	54.4	45	54.1	53.8	51.1	53.6
26.4	24	24	23	23.6	24.4	52.2	53.2	49.2	56.2	54.4	51.3	57.4
23.6	23	22.9	22.9	23.7	24.5	52.3	49.9	55.5	56.5	54.9	52.2	58.2
23.2	22.4	22.2	22.7	23.5	24.6	52.1	50.6	55.5	56.9	54.3	51.7	56.1
22.1	21.8	22	22.6	23.6	24.5	53.3	52.3	54.6	54.6	51.7	49.5	52.6
23.8	22.6	22.4	22.9	23.5	24.5	54.8	52.7	52.2	53.9	50.9	48.4	51
24.1	23	22.5	22.9	23.7	24.5	53.7	52.5	50.7	54	50.3	47.2	51.6
30.6	28.8	25.2	25.1	23.9	24.5	53.3	50.9	48.8	54.1	51.6	66.3	66
21.6	21.7	22	22.6	23.5	24.5	51.7	48.8	54.3	59.3	62.4	65.4	63.9
21.8	21.5	22	22.6	23.4	24.5	49.5	47.5	58.3	58.8	60.4	61.2	59.9
21.7	21.5	21.9	22.6	23.5	24.6	46.1	53.4	55.8	56.3	57	57.4	56.6
21.9	21.7	21.9	22.5	23.5	24.6	47.6	53	52.6	55.9	54	53.6	53.7
21.7	21.8	22	22.7	23.6	24.5	46.6	49.6	49.7	52.8	53.5	51.3	51.5
21.9	21.8	22.1	22.7	23.6	24.5	46.6	49.1	47.9	51.7	52.3	50.5	51.2
22.2	22.1	22.2	22.8	23.6	24.5	48.3	49.2	48.4	51.4	52.7	48.7	50.7
22.1	22.1	22.3	22.7	23.7	24.5	48.9	48.3	49.2	51.2	52.4	48	48.6
21.8	22	22.2	22.7	23.6	24.5	47.7	48.3	48.6	51.6	53.1	48.3	50.2
23.1	22.3	22.3	22.8	23.5	24.6	45.4	46.9	48.6	53.7	53.2	48	49.6
23.9	23.7	22	22.7	23.6	24.6	42	46.7	48.2	53.2	51.8	46.5	50.4
24.2	22.6	23.2	22.7	23.6	24.5	42.3	45.3	47.2	54.1	52.7	49	52
25.3	22.1	22.2	22.7	23.6	24.5	46.8	44.1	48.2	53.8	50.9	49.3	51.7
22.8	22.1	22.1	22.5	23.5	24.6	47.5	46.5	49.2	52.8	50.5	49	51.4
22.2	21.9	21.8	22.8	23.6	24.4	45.8	47.2	48.7	56.9	50.3	49.1	50.5
22.4	21.6	21.9	22.4	23.4	24.4	49.8	47.3	48	55.5	49.9	50.3	49.8
21.7	21.3	21.9	22.6	23.6	24.6	50	44.6	48.3	53.8	49.8	50.3	49.8
21.6	21.3	22.1	22.7	23.5	24.5	47.8	45.5	48.3	52	51.6	49.5	48.7
21.2	21.2	21.8	22.5	23.5	24.4	44.7	45.4	46	49.9	50.4	46.6	48.8
21.1	21.4	21.8	22.5	23.5	24.6	42.9	45.1	45.6	49.2	49.6	47.5	48.9
35.9	30.6	24.5	22.9	23.6	24.5	42.8	44.9	47.2	48.8	48.2	47.3	50.4
21.6	21.3	21.8	22.5	23.6	24.5	43.1	47.5	46.8	50.9	47.8	46.7	50.4
21.6	21.2	21.9	22.6	23.6	24.5	44.1	47.2	46.4	53.2	46.9	46.6	51.2
36.5	29.5	24.6	22.7	23.6	24.6	41.9	47.6	45.6	53	48.7	45.1	50.6
23	21.7	21.8	22.7	23.4	24.4	43	48.1	47	52.6	50.4	45.4	50.4
22.4	21.6	21.8	22.7	23.5	24.5	44	47.9	48.2	51	50.2	47.5	51.3
36.3	29.8	24.7	22.7	23.6	24.5	43.9	47.7	47.6	50.2	48.7	50.3	51
22.8	21.7	21.9	22.4	23.5	24.4	43.8	45.9	49.3	50.1	48.4	49.5	50.8
23.6	22.5	22.1	22.6	23.5	24.5	45.8	45.1	51.3	50.4	48.8	49.2	50.6
36.3	30.2	25.2	23	23.5	24.6	45.6	43	49.8	49.3	50.1	49.2	50.9
26.6	24.6	23.1	22.8	23.7	24.6	45.2	45	47.4	49.1	50.2	49	50.5
27.3	25.7	23.8	23.2	23.8	24.6	43.7	45	47.7	51.4	49.6	49	50.9
30	28.4	25.4	23.9	23.9	24.6	43.3	45.3	50.1	54.1	50.1	49.8	51.6
31.5	30.2	28.3	26.3	25.7	25.1	48	45.9	49	52.6	50.7	50.2	52
32.6	30.9	28.5	26.1	25.5	24.9	47	44.4	48.6	52.6	49.8	49.4	52
29.9	27.2	24.6	23.6	23.8	24.6	44.1	42.9	49	51.2	49.8	48.5	53.7
23.8	22.8	22.6	22.7	23.6	24.5	43	45.3	48.5	49.8	50.8	49.1	52.9
25.9	23.7	23.1	23.4	23.9	24.7	43	46.6	49.1	50.1	53	49.2	52.3
23.2	22.4	22.5	22.9	23.8	24.4	43.9	47.7	51.9	49.2	52.5	47.9	51.5
27.9	24.2	23.3	22.9	23.6	24.5	44.9	47.5	51.3	47.7	51	47.2	51.7
22.3	21.8	21.9	22.8	23.6	24.6	43.4	47.6	47.8	48.7	48.8	46.1	51.8
22.8	21.8	22.4	23.6	24.9	24.5	42.8	48.3	46.8	49.2	49.5	50.1	54.3
31.7	29.1	27.5	25.1	24.9	24.9	43.9	48.7	45.5	49.1	49.7	50.4	53.4
24.1	23.3	23.6	23.1	23.7	24.6	44.7	49.6	47	47.3	47.9	49.9	51.7
24.2	22.7	22.3	22.7	23.6	24.6	50.2	48.1	47.5	46.8	51.7	51.1	49.8
22.8	21.9	21.9	22.6	23.6	24.6	50.3	46.4	46.3	48.5	50.7	50.3	48.9
22.7	21.8	21.9	22.5	23.6	24.5	48.1	44.6	46.9	48.7	49.2	48.9	48.9
22.8	21.5	21.8	22.5	23.7	24.5	45.4	43.7	50.2	52	48.5	50.3	51.7
26.2	23.5	22.3	22.7	23.5	24.5	44.4	43.7	49.7	52.6	47.7	51.8	53.8
24.2	22.3	22.2	22.7	23.5	24.5	43.3	48.1	50.3	55	55	52.1	53.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZeq 6300	1/3 LZeq 8000	1/3 LZeq 10000	1/3 LZeq 12500	1/3 LZeq 16000	1/3 LZeq 20000	1/3 LZSmax 6.3	1/3 LZSmax 8.0	1/3 LZSmax 10.0	1/3 LZSmax 12.5	1/3 LZSmax 16.0	1/3 LZSmax 20.0	1/3 LZSmax 25.0
22.9	21.7	21.9	22.6	23.6	24.5	41.2	48.3	52.9	57.7	55	52	54.8
21.7	21.2	21.7	22.7	23.5	24.5	40.9	49	53.9	55.4	53.7	52.5	53.6
21.8	21.4	21.8	22.7	23.4	24.5	46.2	48.6	53.2	55.4	54	51.6	52.7
24.3	22.6	22.2	22.5	23.6	24.5	47	49.8	53.5	54.9	52.5	50.4	52.6
24.1	21.6	22	22.6	23.5	24.5	44.7	48.9	54	52.1	51.5	49.9	51.4
22	21.8	22.2	22.7	23.6	24.5	45.8	49.1	53.7	51.9	50.2	50.2	50.3
25	23.8	23	23.2	23.7	24.5	49.5	48.4	52.2	50.9	51.1	48.8	49.4
21.9	21.7	22	22.7	23.7	24.7	49.9	46.2	50	51.2	53.4	47.1	51.1
22	22	22.1	22.9	23.5	24.5	48.5	49.4	50.5	51	53.9	49.9	51.6
21	21.2	21.7	22.5	23.5	24.5	45.1	48.6	49.3	47.7	54	49.4	50.5
22.5	22	22.2	22.9	23.6	24.6	44	48	48.8	47.9	53.4	49.1	49.5
21.9	22	21.9	22.7	23.6	24.4	45.9	47	49.8	49.3	52.3	49	49.1
25.7	23.7	22.6	22.7	23.5	24.5	45.2	48.7	49.4	48.1	50.7	47.7	49.4
27.2	29	26.1	24.7	24.5	24.9	42.9	47.7	47.8	46.5	50.1	47.3	49.7
25.9	23.6	23.2	22.6	23.6	24.6	42.2	44.7	45.9	47.2	50.7	46.2	48.7

53.1	53.4	54.6	56.9	57.2	50.9	48.9	46.8	49	47	43	46.5	46.8
51.7	53.5	55.6	56.3	61.9	54	49	47.9	52.5	50.9	46.8	48.8	49.5
51.7	53.5	56.4	56.5	65.6	56.7	50.4	49.2	52.7	51	46.7	48.7	49.5
58.1	58.2	56.2	57.5	66.5	56.3	52.3	50.6	52.1	49.9	46.1	46.8	47.8
56.5	56.7	56.7	55.9	66.3	56.1	51.5	49.6	50	48.1	44.3	45.5	45.6
56.4	54.7	56.4	55.4	65	52.9	49	48.6	48.5	46.3	42.2	43.7	43.2
53.6	54.1	56.4	55.3	61.9	50.3	47.8	47.8	46.5	44	40.2	41.3	41
52.1	54.7	55.7	54.6	58.3	48.7	46.3	46	44.7	42.8	38.4	39.9	38.7
51	54.8	55.2	54.4	55.5	48.4	45.7	44.3	43.3	41.4	37.3	38	37
53.7	53.2	62.2	59.3	60.4	54.1	56	52.1	45.7	46.4	45	44.8	40.8
62.9	54.6	61.7	59	59.1	53.2	53.7	49.9	44.5	46	42.7	44.4	42.8
60.2	52.8	58.6	55.7	56	52.2	51.7	48.1	44.3	45.1	41.5	43.4	41.5
56.6	50.5	56.9	54.4	53.9	53.7	50.2	46.2	44.5	43.5	39.7	40.9	39.1
53.1	50.4	55.4	53.3	54	53.7	50	44.3	44.1	42.1	38.6	40.2	37.5
51.5	52.1	55.6	52.5	52.6	52.7	48.5	44.3	43.4	41.5	38.3	39.3	37.2
50.3	52	56.4	54.3	51.7	51.3	47.3	46	43.1	41.5	38.8	38.5	37.7
51.2	52.7	56.1	54.7	54.4	50.8	47.1	45.9	43.5	41.8	39.6	39	38.1
50.5	52.9	55.3	54	57.5	50	47.2	47.5	42.8	41.7	39.6	39.1	38.5
50.6	52.9	55.6	53.1	57	49.8	46.6	46.7	42.3	41.2	39.3	38.4	38
50.3	53.8	55.3	51.3	53.7	47.7	46.4	45.9	41.6	41.1	39.2	38	37.8
49.8	53.6	54.9	51.7	51.2	48.4	46.9	44	41.5	40.6	39.1	37.7	37.3
50.6	53.8	54.9	50.3	50.7	48	46.4	42.7	41.9	40.5	38.4	38.2	37.4
51.2	53.4	54.9	49.6	50.6	49.4	46.8	43.4	42.3	41.3	39.1	38.7	38.1
51	53	55.3	49.2	50.3	49.5	46.6	43.4	42.5	41.2	38.2	38.9	38.6
50.6	52.3	56	51.5	49.8	48.9	45.8	44	42	41.6	38.6	38.5	38.5
52.6	52.6	56.8	53.2	52.1	47.5	45.9	44.2	42.3	42	38.8	38.1	39.4
52.2	52.8	56.4	52.9	53.6	49.1	45.8	45	43.8	43.3	39.2	38.8	39.7
52.2	51.6	55.7	53.6	53.6	49.9	45.3	44.4	44	43.2	39.7	38.5	39.6
50.1	52	54.5	53.1	52.5	48.9	44.9	43.7	42.7	41.7	38.7	37.6	38.6
48.7	51.1	55	52.6	51.3	49	44.3	42.7	41.3	40.7	37.3	37.1	38.3
49.6	51.8	56.1	52.3	51.3	49.3	44.5	42.8	40.6	40.6	37.9	37	38
49.2	51.4	55.3	53	51.1	50.1	45.3	43	40.2	40.8	39	37.1	38.4
49.7	51.9	55.1	52.5	51.4	51	45.2	43.7	40.8	41.1	39.2	37.2	38.5
50.3	51.8	55.9	52.4	51.2	52.1	45.7	43	41.2	40.8	38.8	37.1	38.5
50.2	51.6	55.3	52.2	50.7	52.7	45.5	43	41.4	40.9	38.7	39.2	39.5
49.5	50.2	57.1	51.9	50.4	52.5	46.5	45.5	42.1	41.5	39.8	40.6	41.3
52	52.5	56.9	53.4	51.9	54.7	48.3	46.6	45.1	43.3	41.4	40.8	41.1
53.8	52.6	55.9	53.7	54.8	55.2	48.3	48.5	45.8	46	41.2	39.9	40.6
52.9	52	55.6	53.4	55.5	55.5	47.6	48.5	45.7	45.4	41.1	39.6	40.4
51.5	52	54	54.2	55.1	54.9	47.2	48.3	44.4	43.9	40.5	39.5	39.8
51.6	51.9	55.3	54.9	54.3	52.8	47.3	46.1	44.1	43.6	41.4	39.4	41.9
52.7	53.1	56	60.3	54.6	53.4	56.6	47.8	42.8	44	43	41.2	43.9
52.3	54.6	58.7	60.3	53.1	54.7	54.1	47	44.2	45	44	44	45.5
52.2	57.1	60.7	57.7	55.7	57.6	50.9	46.7	44.6	46.3	46	44.2	46
52.9	57.8	59.7	55.7	59.7	56.5	50.3	47.4	46.6	49.1	47.6	46.5	48.8
57	61.5	58.1	55.6	62	55.2	50.9	50.3	49.4	54.1	51.8	48.9	51.3
58.7	61.9	57.5	57.3	62.8	58.3	57.2	56.6	52.9	55	51.8	49.1	51.9
59.4	60.9	57.5	57.8	62	57	55.8	54.6	50.7	53.5	50.5	47.5	50.3
59.1	59.1	56.7	56	58.8	54.2	52.2	51.1	47.9	50.4	47.8	45	47.2
56.2	57.2	56.1	55	57.4	53.6	49.5	48.3	45.8	47.8	45.5	42.6	44.4
54.5	55.8	55.3	54.7	57	52.7	48.1	46.9	44.5	45.6	43.2	40.7	42.1
53.1	54.6	54.9	55.4	57.1	53	48.7	45.9	44	43.6	41	40	42
51.7	54.3	55	55.7	55.8	52.7	47.1	46.9	42.9	41.9	39.5	38.9	40.7
50.7	53.5	56.9	55.8	57.9	54.5	48.7	46.8	43.1	41.9	40	38.8	41.4
51.3	53.6	57.5	55.5	58.3	54.8	49.3	46.3	42.6	41.9	40.1	39.3	41.3
52.2	54.6	58	55.5	56.8	52.7	48.1	45.9	43	42.2	40.6	40.5	40.4
52.5	54.6	57.9	56.8	54.3	53	47.4	45.4	43.1	43.4	41.2	40.5	41.4
54.5	54.5	57.5	58.3	52.4	54.4	47.2	45.2	43.2	43.4	41.3	40.6	43.7
54.8	53.8	56.6	58.3	53.2	54.9	47.4	44.3	42.3	42.6	40.4	40.3	45.1
54.9	53.1	56.8	58.3	54.1	55.3	47.6	44.2	41.6	41.8	39.8	39.3	45.9
54.6	51.4	56.3	59.2	61.4	61.8	56.5	49.1	46.6	41.6	39.9	39.6	45.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 31.5	1/3 LZSmax 40.0	1/3 LZSmax 50.0	1/3 LZSmax 63.0	1/3 LZSmax 80.0	1/3 LZSmax 100	1/3 LZSmax 125	1/3 LZSmax 160	1/3 LZSmax 200	1/3 LZSmax 250	1/3 LZSmax 315	1/3 LZSmax 400	1/3 LZSmax 500
54.6	52.8	57.6	59	60.1	59.7	54.5	47.1	44.7	42.2	39.9	39.6	45.2
54.6	52.4	57.5	57.5	56.8	57	51.9	45.1	43.7	42	39.9	39.2	44
53	50.7	56.3	56	54.6	54.3	49.2	43.6	42.2	41.3	39.3	38.3	44.1
53	51.5	55.5	55.1	53.2	52.6	47.4	43.1	41.8	40.6	38.3	37.7	43.2
51.7	51.3	55.2	54.6	52.9	52.2	46.7	42.9	41.2	40.4	37.9	37.2	41.1
51.7	51.1	56	55.2	53.1	50.9	46	42.8	40.7	39.9	37.8	36.8	39.4
50.2	50.1	55.7	55	53.2	49.9	46.8	45.9	41.8	40.4	38.3	37.1	38.9
51.6	50.8	55	54.4	52.2	50.1	46.8	45.1	41.6	40.8	38.4	36.9	38
51.1	51.4	54.3	53.5	52.4	50.1	47.3	45.3	42.3	41.2	38.5	37.3	37.5
53.1	53	54.6	52.2	53.1	49.5	46.7	45.5	43.2	41.5	38.8	37.5	37.8
52.9	52.2	54.9	52.6	52.7	48.7	49.1	44.6	42.7	41.3	38.5	38.1	38.8
52.1	51.9	53.7	54.1	52.2	48.8	49.5	43.7	41.5	40.7	37.6	38.1	38.7
51.1	51.8	54.1	54	52.2	48.2	49.1	45.2	41.4	41.1	37.8	37.5	37.8
50.6	51.8	54.1	53	53.1	47.5	49	45.1	41.3	40.9	37.7	37.1	40
52	51.4	53.7	52.8	53	47.6	47.7	44	41	40.4	37.8	36.8	39.4

50.3	51.5	49.8	47.2	45.7	43	41.9	40	37.4	33.7	29.9	29.5
52.5	54.3	52	48.9	48	44.5	43.3	41.8	39.9	36.6	33	33.2
52	54.1	52	48.8	47.9	44.5	43.1	41.5	39.7	36.5	32.9	33
49.6	51.7	50.2	46.7	45.6	42.4	41.3	39.6	37.9	34.7	31.3	31.5
46.7	48.7	47.5	44.7	43.3	40.2	39	36.8	35.1	32.4	29.6	29.3
44	46.2	44.9	42.4	40.6	37.6	36.6	34.6	32.3	29.7	27.2	26.6
41.4	43.2	42.6	39.8	38.2	35.1	35.1	32.6	30.4	27.5	25.2	24.7
38.8	39.9	39.4	36.9	35.4	32.6	33.6	31.2	29.2	26.6	24.1	23.4
37.3	37	36.4	36.1	33.9	33.7	35.4	32.7	32.8	26.4	24.1	22.8
40.7	40.5	38.2	36.8	35.2	35	35.7	33.7	33.3	27.5	25	23.4
48	43.7	43.8	42.3	44.1	40.8	41	40	38.3	35.7	30.3	28.5
46.4	42.2	42.1	40.8	42.6	39.3	39.3	38.3	36.5	33.9	28.8	27.1
42.9	39.2	38.8	37.3	39.2	35.7	35.7	34.4	32.6	30.2	25.7	24.5
40.3	37.2	36.5	34.8	36.1	33.5	33.4	31.7	29.5	27.2	23.7	22.9
38.5	36.3	36.5	34.5	34.1	31.4	31.3	29.1	27.1	25.1	22.6	22.1
38.3	36.6	36.2	35	34	32	31	28.5	26.3	24.3	22.1	21.9
39.6	37.6	38.8	36.7	34	32.4	31.4	28.8	25.8	23.7	22	21.9
39.4	38.9	40.1	37.8	34.3	32.5	30.9	28.5	25.7	23.5	22.1	22.1
38.5	37.9	39.6	37.6	34.3	33	30.9	27.9	25.2	23.8	22.2	22.2
37.5	36.9	38.9	36.5	33.7	32.8	31	27.6	25.2	23.9	22.3	22.2
37.1	36.5	37.5	35.5	33.3	32.4	31.5	28.1	25.6	24.7	22.6	22.2
37.3	35.8	36.7	35.1	34	32.9	35.1	33.8	28.9	26.7	23.8	23.4
38.3	37.4	37.5	36.1	35.6	33.5	35.2	34.3	31	27.5	24.5	23.4
39.9	38.5	38.1	38.3	38.1	35.3	36.8	34.4	31.8	28.2	25.6	23
39.4	39.2	38.6	37.5	37	34.8	35.9	33.4	30.2	27.4	24.5	22.3
39.8	39.6	41.1	39.3	38.2	36.4	34.3	31.9	28.5	26.4	23.5	22.2
40.1	39.3	40.9	39	37.9	36.1	33.7	31.2	27.8	25.3	22.7	22
39.7	39.2	40.4	39	37.3	35.8	34.1	32.2	28.8	25.5	22.6	21.9
38.1	37.7	38.7	37.4	35.6	35.8	35.6	32.2	29.1	25.4	22.1	21.5
37	36.8	37.3	38.3	34.6	35.8	35.9	31.5	28.1	25.1	21.8	21.4
36.5	39.3	36.2	36.9	34.4	36.4	35.6	30.3	26.8	23.7	21.4	21.4
38.4	42.9	37.9	40.4	40.4	43.5	45.1	42.9	40.4	38.2	35.2	30
38.4	42.7	37.9	40.2	40.3	43.4	44.9	42.6	40.2	37.8	34.8	29.5
38.9	41.7	37.7	38.2	37.7	40.1	41.7	38.8	36.2	33.8	30.8	26.2
39.9	43	40.1	41	41.6	43.2	44.7	42.6	42	38.5	36.1	29.1
41.5	44	40.3	40.9	41.5	43	44.4	42.3	41.6	38.1	35.5	28.7
41.7	44.5	42.1	39.7	39.3	40.2	41.3	38.8	37.9	34.4	31.6	25.7
40.8	45	42	40.9	41.6	44.1	45.7	43.1	41.1	38.9	35.9	29.4
40.9	45.1	41.9	40.8	41.3	43.8	45.2	42.7	40.7	38.4	35.3	28.9
40.5	44.9	40.4	38.9	38.8	40.8	42.2	39	36.9	34.5	31.4	25.8
41.8	46.2	42.2	40.5	42	43	45.3	42.2	40.2	39.6	35.8	29.7
43.7	47.2	44.5	41.4	41.8	42.6	44.8	41.7	39.7	38.9	35.1	29.2
45.2	47.2	47.3	43.5	42.7	41.7	41.8	38.5	36.6	35.3	31.8	26.9
47.1	48	49.2	46.2	45.1	43.4	40.1	37.6	34.7	32.6	30.1	28
49.8	50.1	50.8	47.4	46.4	44.4	40.8	38	35.5	33	31.1	29.7
51.3	52.9	54.2	52.3	51	47.6	42.5	40.5	37.2	34.4	32.1	30.8
51.3	52.8	54.2	52.5	51.4	47.8	43.2	40.8	37.7	35.3	32.4	30.3
49.9	51.1	52.7	51	50.1	46.6	42.2	39.1	35.9	33.1	30.4	28.3
46.9	48	49.5	48	47	43.5	39.4	36.1	32.9	30	27.4	25.6
44.3	44.7	46.1	44.6	43.7	40.6	37.3	34.7	32.3	29.1	26.7	24.7
42.4	42.1	42.7	41.3	40.5	37.8	35.9	33.4	31.3	28.9	27.6	24.2
41.9	41.1	41.7	39.4	38.6	38	36	33.3	31.2	28.8	27.5	24.1
42.3	42.1	47.1	40.9	40.3	40.1	37.7	32.9	30.8	26.7	24.9	22.8
44.3	44.1	49.6	44.2	42.2	42.8	42	40.1	35.9	31.3	30.9	28.4
44.5	44.3	49.4	44.3	42.5	42.8	41.9	39.9	35.6	31.1	30.6	28.1
42.9	44.8	46.8	43	41	40.5	39.3	37.2	32.9	28.8	27.7	25.7
42.8	45.4	44.8	43.3	40.8	38.7	38.4	36.1	32	28.3	26	24.1
44.4	49.6	43.9	43.5	40.9	38.1	37.6	35.7	31.1	27.2	24.3	22.9
45.7	51.7	43.7	43.2	40.8	37.9	37.4	35.1	30.7	27	23.5	22.2
46.5	52.5	43.1	42.2	40.7	39.2	37.6	35.7	31.7	28.4	25.5	23
46.7	52.7	42.3	42.3	40.5	39.1	37.5	35.3	31.7	28.4	25.5	23.1

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 630	1/3 LZSmax 800	1/3 LZSmax 1000	1/3 LZSmax 1250	1/3 LZSmax 1600	1/3 LZSmax 2000	1/3 LZSmax 2500	1/3 LZSmax 3150	1/3 LZSmax 4000	1/3 LZSmax 5000	1/3 LZSmax 6300	1/3 LZSmax 8000
46.5	51.8	41.8	42.6	40.3	38	36.6	34.7	30.9	27.6	24.8	22.6
45.2	49.8	40.9	42.1	39.4	37	35.9	34.3	30.2	26.7	23.6	22.1
45	47	40.3	40.6	38.3	35.3	35.5	33.7	30.3	26.3	22.6	21.5
44.3	45.1	40	40	37.3	34.5	34.9	31.8	29.8	26.3	24.1	22.5
43.3	44	39.1	41	37	34.6	34.1	31.8	30.3	26.6	24.4	22.5
41.6	42.1	38.3	40.7	36.7	34.2	33.6	31.3	29.8	25.9	24	21.9
39.6	40	37.1	38.1	36.3	35.3	34.1	32.2	29.3	26.2	24.6	23.4
38.9	38.8	37.2	37	36.1	34.9	33.5	31.6	28.6	26	24.1	22.9
38.8	38.7	36.7	35.8	35.5	34.5	32.3	30.6	27.1	25	22.9	22.3
38.5	39	36.7	35	34.6	33.6	31.6	29.6	26.2	24.4	22.3	22
37.2	37.2	35.5	34.1	33.5	31.8	31.9	30.6	26.5	24.3	22.3	21.9
36.7	36.3	34.2	33.3	32.8	31.2	31.8	30.8	26.7	24.3	22.2	22
36.7	35.3	34.8	34.9	36.6	34.2	33.3	31.4	28.2	26.8	25.2	23.4
38.7	36.7	36.4	36.8	38.1	34.4	34.5	31.5	29.1	28.4	26.7	28.3
38.4	36.4	36.3	36.6	37.5	33.9	34.1	31.2	28.9	28.1	26.7	27.7

28	26.3	24.7	24.7	48.5	45.7	46.9	45.8	50.2	46.8	50.3	50.9	51.7
32.3	29.9	26.7	25.1	46	44.1	45.3	45.2	49.6	47.7	48.8	50.6	52.3
32.2	29.8	26.6	25.1	46.2	45.8	45	47.1	47.2	49.1	50	50.8	52.5
30.8	28.3	25.7	25	50	46.2	44	49.6	47.2	49.2	50.7	51.4	53.6
28.5	26.4	24.6	24.7	51.5	49.9	44.1	52.9	52.2	49.6	52.6	55.1	54.7
26.1	24.6	24	24.6	50.9	48.1	49.3	55.5	54.1	51.3	56.2	53.7	52.3
24.3	23.6	23.8	24.6	49.2	47.9	54.4	54.6	51.7	49.1	52.6	52.1	51.8
23.2	23	23.6	24.6	52	50.7	52.2	53.2	49.9	48.3	50.2	49.8	53.3
22.6	22.9	23.7	24.6	52.4	50.6	50.7	52.7	50.3	47.2	49.4	49.8	53.2
22.7	22.9	23.6	24.5	52.9	50.9	48.8	52.5	48.9	45.7	49.4	50.4	52.2
25	25.1	23.9	24.6	51.7	48.8	46.5	51.6	48.6	45.8	51.5	53.8	52.8
24.2	24.3	23.8	24.6	49.6	47.1	47.4	51.4	51.6	61.3	60	56.6	50.5
23	23.3	23.6	24.6	46.1	46.6	54.5	55	57	57.5	56.7	53.1	49
22.4	22.9	23.5	24.6	43.4	45.9	52.6	54.8	54	53.7	53.8	51.4	49.1
22.1	22.7	23.6	24.6	43.4	49.6	49.7	52.8	52.6	51	51.2	50.2	49
22	22.7	23.7	24.6	45.5	47.4	47.9	51.7	52.2	50.1	50.6	49.4	50.9
22.1	22.7	23.7	24.5	44.6	46.6	44.8	50.7	49.4	48.4	49.9	50.1	50.7
22.2	22.8	23.7	24.5	46.6	47.8	45.2	50.8	49.3	47.6	48	49.4	51.6
22.3	22.8	23.7	24.5	47.5	46.7	46.6	50.1	51.6	47.1	47.5	50	51.3
22.3	22.8	23.7	24.5	45.4	46.1	45.8	50.3	51.1	46.9	48.3	48.5	50.4
22.3	22.8	23.7	24.6	42.1	45.3	47.3	51.6	51.3	46.5	48.7	47.9	52.3
22.3	22.8	23.6	24.6	39	45.3	47.2	51.5	50.3	44.8	48.7	49.3	52.8
23.2	22.8	23.7	24.5	39.1	43.4	43.9	51	50.8	46.2	49.9	49.9	52.7
22.9	22.8	23.7	24.5	42.4	42.6	43.8	52.5	48.6	47.6	50.6	49.3	51.7
22.4	22.7	23.6	24.6	45.8	42.2	47.6	52	48.1	47.2	49.5	49.4	51.6
22.3	22.7	23.6	24.6	43.4	45.6	47.5	52.6	49.4	47.3	49.2	49.8	51.5
22	22.7	23.5	24.5	43.6	44.6	46.7	52.4	47.3	48	48.6	51.4	51
22	22.6	23.5	24.6	47.8	43.4	46.9	52	47.2	49.2	48.7	50.1	50.6
22.1	22.7	23.6	24.6	44.7	44.3	46	49.9	49.4	46.6	46.9	48.7	50.5
22	22.7	23.5	24.5	42.7	42.9	44.8	49.2	49	45.3	46.7	47.3	49.8
21.9	22.6	23.5	24.5	41.7	42.2	44.3	48	48	45.4	46.9	47.6	49.8
24.3	22.8	23.6	24.5	41.4	42.5	44.5	46.9	47.7	45.3	48.1	48.1	50
24	22.8	23.7	24.5	41.6	43.8	45.8	46	46	45.1	48.6	48.6	49.7
22.8	22.7	23.7	24.5	41.9	44.9	44.6	50.9	45.6	44.9	49.7	49.4	50.8
24.5	22.7	23.6	24.6	39.1	45.1	44.1	50.3	47	43.3	49.5	49.1	50.1
24.2	22.8	23.6	24.5	38.7	47.1	44.3	50.4	47.5	44	48.3	48.7	49.1
22.9	22.7	23.5	24.5	42.4	47.2	47.1	48.9	48.2	44.4	48.2	49.2	49.4
24.5	22.8	23.6	24.5	42.2	46	45.9	49.2	45.5	46.7	50	52	51.9
24.2	22.7	23.5	24.5	42	44.7	47.3	48.4	45.6	47.7	49.6	50.5	50.6
22.9	22.6	23.5	24.5	41.7	43.1	48.9	48.9	47.3	47.7	49.5	50.6	51.3
24.9	22.9	23.6	24.6	44.7	40.5	47.4	48.4	47.7	48.2	50.1	49.9	51.2
24.5	22.9	23.7	24.6	43.7	40.4	46.1	47.3	48.5	48.2	48.7	51.1	51
23.8	23.1	23.8	24.6	43	42.8	46.4	47	47.6	47.1	50	51.7	52.9
25.2	23.8	23.9	24.6	41.9	42.4	47.7	51.3	47.7	48.7	50.1	50.9	54.4
27.7	25.8	25.3	25.1	43.3	44.4	46.4	51.4	49.3	48.9	50.7	50.9	56.6
28.6	26.5	25.9	25.2	44.1	42.1	46.1	50.3	48.5	48.5	50.4	52.2	56.6
27.9	25.7	25.2	24.9	40.7	41.3	46.7	48.7	48.6	46.6	50.5	57.1	60.9
26	24.4	24.4	24.7	40.6	43	45.7	48.5	48.4	46.5	51.9	56.7	58.5
24.2	23.5	24	24.6	42	44.1	47.8	48	49.2	48	51.4	56.2	57.2
23.6	23.5	24	24.6	41.5	45.9	48.4	47.7	49.8	46.8	50.4	54.2	55.9
23.3	23.1	23.8	24.5	43.5	46.3	47.8	46.9	48.8	45.8	49.4	53.1	54.6
23.2	23	23.7	24.6	40.7	46.7	46.3	46.9	48	44.8	50.6	50.8	52.3
22.6	23.6	24.8	24.6	40.4	46.6	44.6	47.8	47.6	46	50.6	50.3	53
27.1	25.1	25.2	24.8	41.9	46.3	44.1	47.3	47.9	49.2	51.7	49.2	52.1
26.7	24.8	25	24.8	43	48.1	45.4	46.2	46.2	49.2	49.9	50.2	52.2
25.1	23.8	24.2	24.7	44.8	45.8	46.2	45	47.8	49.1	48	50.3	52.5
23.5	23.2	23.9	24.7	48.2	44.5	45.4	46.8	48.6	48.2	47.4	51.2	53.3
22.6	22.8	23.7	24.6	45.4	42.5	45.3	47.1	47.9	47.9	47.1	52	53.4
22.2	22.6	23.7	24.5	43.4	42.7	46.5	47.1	47.7	49	48.6	53.1	52.8
22.3	22.7	23.7	24.5	43.4	42.3	47.8	51.4	45.2	49	51.8	54.2	51
22.3	22.7	23.6	24.5	41.2	43.2	49.1	52.4	45.4	50.5	52.8	53.8	50.4

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmax 10000	1/3 LZSmax 12500	1/3 LZSmax 16000	1/3 LZSmax 20000	1/3 LZSmin 6.3	1/3 LZSmin 8.0	1/3 LZSmin 10.0	1/3 LZSmin 12.5	1/3 LZSmin 16.0	1/3 LZSmin 20.0	1/3 LZSmin 25.0	1/3 LZSmin 31.5	1/3 LZSmin 40.0
22.2	22.7	23.6	24.5	40.3	47.3	49.6	55	51.8	50.9	52.4	54	51
22	22.7	23.6	24.6	39.4	47	53	54.5	51	51.2	52.4	52.8	50.7
21.9	22.7	23.5	24.5	41	47.6	52.4	54.4	52.3	50.4	51.9	52.2	49.7
22.1	22.7	23.6	24.5	44.7	48.2	51.6	52.2	50.6	49.6	51.1	51.5	49.5
22.1	22.7	23.6	24.5	43.1	47.4	51.8	49.9	49.9	49.2	49.8	51.1	50.2
22.1	22.7	23.6	24.5	43.1	47.1	52.2	49.9	48.3	48.8	49.4	50.2	50
22.8	23.1	23.7	24.5	43.8	46.3	49.4	49.8	48.7	47.1	48.1	48.3	48.9
22.6	22.9	23.7	24.6	48.5	44.3	48.6	48.4	49	45.6	48.1	48.7	48.9
22.3	22.9	23.7	24.6	45.1	44.4	48.4	47.8	52.7	45.8	48.8	50.6	49.7
22.1	22.8	23.6	24.6	43.6	47.6	47.6	44.3	52.5	47.9	48.6	50.7	51.1
22.2	22.9	23.6	24.6	42.2	47	47.6	44.6	51.9	47.5	47.8	52	51.1
22.1	22.9	23.6	24.6	42.1	43.8	48.9	48	50.7	47.8	47.2	50.6	51
22.5	22.8	23.6	24.5	42.5	43.9	47.8	46.5	48.4	46.4	46.7	50.4	50.8
25.5	24.3	24.3	24.8	42.2	44.7	45.5	44.4	48.3	45.9	47.3	49.6	50.5
25	23.9	24.1	24.7	40.5	44.1	45.1	44.8	49.8	45.5	47.3	49.5	50.5

53.6	54.9	54.1	48	46.2	46.1	46.3	44.6	40.6	42.2	43.2	44.7	46.7
53.3	55	56.7	50.4	48.4	46.2	48.7	46.7	42.9	46.5	46.9	50.4	51.6
54.1	54.9	62	54.1	48.5	47.6	51.9	49.9	46.1	46.8	47.8	49.6	51.8
55.1	55.9	65.6	55.7	50.1	48.8	50	48.2	44.2	45.5	45.6	46.7	48.7
56.1	54.8	65	53	48.9	48.4	48.4	46.2	42.3	43.7	43.2	44	46.2
55.5	54.6	62	50.4	47.5	47.8	46.5	44.1	40.2	41.4	41	41.4	43.3
55.4	54.4	58.3	48.5	46	45.9	44.7	42.7	38.4	39.8	38.7	38.8	40
54.4	53.4	55.5	47.9	45.5	44.3	43.3	41.3	37.2	38	36.9	37.3	37.1
54	53.3	52.5	47.3	45	43	42.6	40.8	36.8	37.4	36.2	36.2	35
53.1	53	51.6	47.1	45.2	42.9	42.5	40.6	36.7	37.3	36.3	36.4	36.7
58.6	55.7	56.1	50.9	51.3	48.1	42.8	43.3	41.2	40.9	38	38.2	37.1
56.6	53.8	53.5	50.9	49.7	46	43.5	43.5	39.7	40.9	39.1	43	39.2
55.2	52.9	53	52.3	49.8	44.2	43.9	42.1	38	39.9	37.5	40.3	37.2
54.2	52.2	52.5	52.6	48.4	43.5	43.4	41.1	37.8	39.2	36.6	38.4	36.3
53.8	51.8	51.3	51.3	47.1	43.4	41.9	41.1	37.7	38.2	36.8	37.7	36
55.4	52	50.8	50.6	46.5	43.3	42	40.8	37.5	38.1	36.8	37.6	36
54.7	53.7	51.6	48.9	46	45.3	42.2	41	38.7	38.1	37.3	37.9	36.7
54.7	52.5	54.4	48.8	46.6	45.9	42.1	41.1	39.3	38.4	38	38.5	37.7
54.5	51.2	53.8	47.8	45.8	45.4	41.5	40.7	38.6	37.6	37.3	37.4	36.9
54	50.2	51.2	45.8	45.5	44	40.8	40.6	38.7	37.4	37.2	37	36.4
53.5	49.8	49.6	46	46	42.8	40.9	39.8	37.4	37.3	36.6	36.2	35.8
53	49.1	49	47.4	45.5	41.4	41	39.6	36.9	37.7	36.5	36.4	35
53.7	47.9	49.9	47.5	46.1	41.9	41.8	40.3	38.1	37.5	37.3	36.8	35
54.2	47.9	48.6	48.2	45.7	42.3	41.6	40.5	37.2	38.1	37.8	38	37.2
54.3	48.7	48.7	47.4	44.8	43.1	41	40.5	36.6	38	37.6	38.9	38.3
54.6	51.4	49.2	46.4	44.9	43.3	41.5	41.3	38.1	37.6	38.2	38.8	38.8
55	51.8	52	47.5	44.9	43.3	41.6	41.3	38.4	38	39.1	39.4	39
54.4	51.8	52.5	48.2	44.8	43.3	42.7	41.6	38.8	37.5	38.6	38.1	37.8
52.8	52	50.7	47.8	43.9	42.7	41.2	40.7	37.2	36.8	37.9	37	36.7
52.8	51.4	50.7	46.9	43.3	41.5	40.5	39.6	36.8	36.7	37.7	35.7	35.8
53.6	51.3	50.2	47	43.5	41.5	40	40	36.9	36.6	37.5	35.8	35.4
54	51.6	50.1	49.4	44.3	42.2	39.5	39.4	37.7	36.4	37.9	36.5	39.4
53.8	51.4	50.3	49.3	44.4	43	39.4	40.5	38.8	36.6	37.3	37.8	41.7
54.3	51.3	50.4	50.8	44.8	42.3	40.4	40.3	38	36.3	37.5	38.1	41.5
53.9	50.1	50	52.1	44.7	42.2	40.5	40.2	37.6	37.1	38.3	38.4	41.6
54.3	49.7	49.3	51.4	44.7	42.8	40.5	40.4	38.6	39	39.4	39.9	43
55.4	52	49.9	51.8	46.6	44.8	42	41.5	39.7	39.8	40.6	40.5	43.8
55	52.3	51.5	54.7	47.5	45.6	44.5	43.3	40.5	39.3	40	40.2	44.5
53.9	52.2	54.6	54.9	46.4	47.6	44	43.8	40.1	39.3	39.9	40.5	44.3
53.1	52.2	53.8	52.9	46.2	45.9	43.7	43.4	39.9	39	39.5	40	44.5
53.2	54.1	52.8	51.8	46.5	45.2	42	42.8	40	38.4	39.5	39.8	44.8
54.3	54.6	52.6	51.8	47.1	45.1	42	43	41.2	39.4	42.2	41.9	46.1
55.8	57.8	51.9	52.3	51	46.3	42.4	43.8	42.5	41.1	43.9	43.5	46.5
58.8	55.8	51.8	54.8	49.4	45.8	43.8	44.8	44	43.8	45.1	45.2	46.5
57.6	54.2	55.7	55.2	49.1	45.6	43.8	46.3	45.9	44.2	46.1	47.1	48.2
57.4	54.1	58.4	54.6	49.8	47.3	46.5	48.8	47.4	46.4	48.8	49.8	50.1
55.7	54.8	60.4	54	49.5	49.8	49.4	53.5	50.5	47.6	50.3	49.9	51.2
56	56	58.9	54.3	52.3	51.1	48	50.4	47.9	45.1	47.2	46.9	48
55.3	54.9	55.2	52.5	49.6	48.3	45.8	47.8	45.5	42.6	44.5	44.3	44.8
54.5	54.1	54.4	52.7	48.1	46.7	44.3	45.6	43.2	40.7	42.1	42.4	42.1
53.4	53.4	55.3	51.8	47.4	45.3	43.4	43.6	41.1	39.3	41.5	41.5	40.8
53	54.4	54.9	52	47.1	45	42.4	41.8	39.5	38.9	40.6	41.1	40.1
53.9	54.7	54.3	51.8	46.3	44.3	41.6	41.1	38.3	37.6	39.9	41	39.9
54.4	53.9	53.6	52	46.1	45.1	42	40.8	38.4	37.7	40.1	42.2	42.1
56.5	54.7	56.5	52.7	48.1	45.3	41.7	41.3	39.7	38.6	40.1	43	43.9
55.7	54.5	54.3	52	46.8	44.8	42.5	41.3	39.7	38.9	39.5	42.3	43.9
55.9	54.4	52.4	52.1	46.6	44.7	42.6	42.2	40.4	40.2	40.5	42.2	44.7
56.2	56.4	51.6	52.9	46.6	44	42	42.3	40.3	40.1	41.5	42.3	45.3
55.9	57.4	51.1	53.9	46.7	43.3	41.4	41.2	39.8	39.4	43.8	44.4	49.6
55.7	57	53	54.6	46.5	43.3	41	40.6	39	38.2	45.1	45.5	51.7
55.5	56.7	53	54.7	47.4	44.1	41.3	40.7	39.2	38.4	44.7	46.2	51.8

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 50.0	1/3 LZSmin 63.0	1/3 LZSmin 80.0	1/3 LZSmin 100	1/3 LZSmin 125	1/3 LZSmin 160	1/3 LZSmin 200	1/3 LZSmin 250	1/3 LZSmin 315	1/3 LZSmin 400	1/3 LZSmin 500	1/3 LZSmin 630	1/3 LZSmin 800
55.3	57.3	56.8	57	51.9	45.1	43.5	41.1	39.1	39.1	43.9	45.2	49.8
55.7	56	54.6	54.4	49.2	43.6	42	41.1	39.2	38.3	43.1	44.1	47
54.9	54.1	53.2	52.4	47.4	42.9	41.4	40.5	38.3	37.6	43.2	44.2	45.1
54.5	53.9	52.7	52	46.2	42.1	41.2	39.9	37.8	36.7	41	43.3	44
54	53	51.3	50.5	46	41.8	40.5	39.8	37.4	36.8	39.4	41.6	42.1
53.9	54.1	50.8	49.7	44.7	41.5	40	39	37.2	36.2	38	39.6	40
54.6	54.4	51.7	49.1	44.7	41.5	40.1	39.1	37.4	36.3	38	38.6	38.5
53.9	52.9	51.4	48.7	45.9	44.2	41	40.3	37.8	36.3	37	38	38.3
52.9	51.8	50.8	49.5	46.2	43.6	41	40.4	38	36.7	36.9	38.5	37.9
54	50.6	52	48.2	45.6	44.6	42.1	40.9	38	36.8	36.9	37.2	37.3
52.9	51.9	51.3	48	45.8	43.1	41.4	40.6	37.2	36.8	36.6	36.5	36.1
52.8	52	51.2	48.1	48.2	43	40.8	40.1	37.1	37.3	37.4	35.7	34.9
53.2	52.9	51	47.3	47.9	42.6	40.3	40	36.9	36.8	37.1	36.2	34.2
52.6	52.4	51.7	46.3	47.5	43.9	40.7	40.3	36.8	36.2	36.7	36	34.8
52.7	51.9	51.7	46.5	46.8	43.2	40.4	39.8	37.3	36.3	38.8	37.6	36.2

45.3	43.1	41.4	38.6	38.6	35.8	33.5	30	26.8	26.1	24.9	24.1
49.8	47.3	45.9	43	42	39.9	37.4	33.7	29.9	29.5	28	26.4
50.2	46.7	45.6	42.4	41.3	39.7	37.9	34.7	31.3	31.5	30.7	28.3
47.5	44.7	43.3	40.2	38.8	36.8	35.2	32.2	29.1	29.3	28.5	26.4
45	42.4	40.6	37.6	36.6	34.6	32.3	29.8	27.2	26.7	26.1	24.6
42.6	39.8	38.2	35.1	34.8	32.5	30.1	27.5	25.2	24.7	24.3	23.6
39.4	37	35.4	32.6	33.4	31.2	29.2	26.6	24	23.4	23.2	23
36.5	34.3	32.9	30.9	31.6	29.1	27.2	25	23	22.5	22.5	22.8
34.6	32.6	31.5	29.7	30.6	28.3	26.2	24.1	22.3	22.1	22.2	22.8
36.2	34.8	33.3	33	33.9	31.6	30.5	26	23.7	22.7	22.4	22.8
35.4	34.2	33	33.1	33.4	30.9	29.6	25.4	23.3	22.4	22.3	22.8
38.8	37.4	39.2	35.8	35.7	34.4	32.7	30.2	25.8	24.6	23	23.3
36.6	34.9	36.1	33.5	33.4	31.7	29.5	27.2	23.7	22.9	22.4	22.9
36	33.8	34.1	31.2	31	29	27	24.9	22.6	22.1	22.1	22.7
35.9	33.9	33.2	31.1	30.6	28.5	26.3	24.3	22.1	21.8	21.9	22.6
35.7	34.1	33.2	31.1	29.9	28.1	25.7	23.6	21.8	21.7	21.9	22.6
36.3	34.8	33.7	32	30.9	27.9	25.4	23.4	21.8	21.7	22	22.6
38.8	36.7	33.8	32	30.4	27.9	25.2	23.2	21.9	21.8	22.1	22.6
38.9	36.6	33.8	32.3	30.2	27.5	24.8	23	21.7	21.7	22.1	22.6
37.5	35.4	33.2	32.1	30.3	26.9	24.6	23.5	21.9	22	22.2	22.7
36.5	34.6	32.9	31.6	30	27	24.6	23.8	22	22	22.2	22.7
35.9	34.5	32.8	31.7	31.5	28.1	25.6	24.3	22.6	22.1	22.1	22.7
35.8	34.8	33.8	32.6	34.3	33.5	28.6	26.4	23.4	22.8	22	22.7
37.4	36.1	35.3	33.5	35	33.4	30.2	27.2	24.1	22.3	22.4	22.7
37.9	37	36.5	34.1	34.1	31.9	28.6	26.4	23.5	22.2	22.2	22.6
38.6	37.4	36.6	34.7	33.7	31.3	27.4	25	22.7	22	21.9	22.6
40.4	38.5	37.1	35.5	33.1	30.4	26.8	24.5	22.4	21.7	21.9	22.5
38.7	37	35.6	34.4	33.4	30.9	27.8	25	22	21.5	21.9	22.5
37.3	36	34.5	34.8	34.2	31.3	28.1	24.9	21.7	21.3	21.9	22.6
36.1	36.9	33.7	35.2	34.9	29.3	26.3	23.6	21.3	21.2	21.9	22.5
35.7	35.5	33.5	34.9	34.8	29.3	26.3	23	21.2	21.2	21.8	22.5
35.9	35.7	34.4	36.1	35.2	30.2	26.7	22.8	21.2	21.3	21.8	22.5
37.3	38.2	37.7	40.1	41.7	38.9	36.3	33.9	30.9	26.3	22.8	22.6
37.1	37	36.7	38	39.7	35.7	33.2	30.5	27.4	23.8	22.3	22.6
37.6	37.2	36.6	37.2	38.5	34.2	31.4	28.6	25.6	22.9	22	22.6
39.8	39.5	39.1	40.2	41.4	38.8	37.9	34.4	31.7	25.7	22.9	22.7
40.3	38.7	37.8	38.2	38.8	35.4	34.2	30.8	28.2	23.6	22.3	22.7
41.3	38.6	37.1	37.8	38	34	32.4	29.1	26.5	22.9	22.1	22.5
40.3	38.9	38.8	40.8	42.2	39	36.9	34.5	31.4	25.8	22.9	22.5
40.1	37.9	37.5	38.4	39.7	36	33.9	31.2	28.2	24.1	22.4	22.5
40.1	37.7	37.3	37.7	38.3	34.8	32.7	29.8	27	23.7	22.3	22.6
42	40.3	40.9	41.5	41.8	38.5	36.6	35.3	31.8	27	23.7	22.8
44.5	41.3	41.3	41.4	39.6	36.8	34.4	32.5	29.6	26.2	23.6	22.9
47.3	43.5	42.7	41.6	39.2	36.7	34.1	31.7	29.1	26.2	23.8	23.1
49.1	46.2	45.1	43.4	40.1	37.6	34.8	32.6	30.1	28	25.2	23.8
50.8	47.5	46.5	44.3	40.6	38	35.5	33	31.1	29.7	27.7	25.7
52.7	51.1	50.1	46.6	42.2	39.1	35.9	33.1	30.4	28.3	26	24.4
49.5	48	47	43.5	39.5	36.1	32.9	30	27.5	25.7	24.2	23.4
46.1	44.6	43.8	40.6	37.3	34.7	31.8	28.9	26.4	24.6	23.6	23.2
42.8	41.3	40.5	37.8	35.4	32.8	29.9	27	24.8	23.3	22.9	23.1
40.4	39.4	38.4	36	34.4	31.5	28.7	25.9	24.1	22.8	22.8	22.9
39.3	38.4	37.6	36.7	34.8	32.1	29.4	26.7	24.9	22.8	22.4	22.9
41.3	38.6	38.5	38	35.7	32.5	30.4	26	23.8	22.1	22.1	22.7
47.1	40.9	40.3	40.1	37.6	32.7	30.2	25.6	23.4	22	22.4	23.2
46.8	42.6	41	40.5	39.3	37.2	32.9	28.9	27.7	25.8	25.1	23.8
44.8	42.1	40.2	38.8	38.3	36.1	31.8	28	26	24.1	23.6	23.2
43.8	42.7	40.3	38	37.6	35.6	31	27.1	24.3	22.9	22.6	22.8
43.4	43.1	40.6	37.6	37.3	35.1	30.4	26.4	23.3	22.2	22.2	22.6
43	42.1	40.6	37.5	36.7	34.3	30.1	26	22.9	21.7	22	22.5
42.3	41.6	39.9	37	36.1	33.4	29.8	26.3	22.7	21.6	21.8	22.5
41.7	41.6	39.7	38	36.2	34	30.3	27.2	24.5	22.5	22.1	22.6

NM3 KWAQN 1020 El Centro Street, South Pasadens. **Raw Data**

1/3 LZSmin 1000	1/3 LZSmin 1250	1/3 LZSmin 1600	1/3 LZSmin 2000	1/3 LZSmin 2500	1/3 LZSmin 3150	1/3 LZSmin 4000	1/3 LZSmin 5000	1/3 LZSmin 6300	1/3 LZSmin 8000	1/3 LZSmin 10000	1/3 LZSmin 12500
40.9	42.1	39.5	37.1	36	33.5	29.9	26.8	23.6	22.1	22	22.6
40.1	40.6	38.4	35.3	35.4	33.6	29.6	26.2	22.5	21.5	21.8	22.6
39.9	39.7	37.2	34.4	34.6	31.8	28.9	25.3	22.1	21.4	21.7	22.6
39	39.2	36.2	33.4	33.8	31.1	28.4	24.6	21.7	21.3	21.8	22.6
38.3	40	36.3	34.2	33.5	31.2	29.7	25.9	24	21.9	22	22.6
37.1	38.1	35.2	33	32.5	29.2	27.8	24.4	22.8	21.8	22	22.6
36.5	37	34.8	32.7	32.2	29	27.5	24.3	22.7	21.9	22.1	22.7
36.6	35.8	35.5	34.3	32.2	30.4	26.9	24.8	22.9	22.2	22.2	22.7
36.2	35	34.6	33.6	31.6	29.6	26.2	24.4	22.3	22	22.2	22.8
35.5	34.1	33.5	31.8	30.4	28	24.9	23.3	21.5	21.5	21.9	22.6
34.2	33.3	32.7	30.9	30.9	28.8	25.1	23.3	21.6	21.5	21.8	22.6
33.4	32.3	31.9	30.5	31.2	29.7	26	23.7	22	21.8	22	22.7
33.1	32.4	32.2	30.4	31.1	29.4	25.5	23.3	21.9	21.8	22	22.7
34.2	33.9	35.1	33.3	32.6	30.4	27.3	26	24.1	22.8	22.2	22.7
35.8	35.9	36.4	33.3	33.4	30.7	28.4	27.4	26.3	26.5	24.3	23.4

23.8	24.5	0	No	No
24.7	24.7	1	No	No
25.7	25	2.3	No	No
24.6	24.7	2.8	No	No
24	24.5	2.2	No	No
23.7	24.5	2.6	No	No
23.6	24.5	0.8	No	No
23.5	24.5	1.9	No	No
23.5	24.5	-2.1	No	No
23.5	24.5	11.2	No	No
23.5	24.5	18.2	No	No
23.6	24.5	15.6	No	No
23.5	24.5	12.4	No	No
23.5	24.5	9.1	No	No
23.5	24.6	6.3	No	No
23.5	24.5	1.9	No	No
23.6	24.5	0.7	No	No
23.5	24.4	2	No	No
23.6	24.5	1.5	No	No
23.6	24.5	0.8	No	No
23.6	24.5	0.2	No	No
23.6	24.5	0.7	No	No
23.6	24.5	2.4	No	No
23.5	24.5	4.1	No	No
23.5	24.5	1.7	No	No
23.5	24.5	1.3	No	No
23.4	24.4	0.3	No	No
23.5	24.4	0.9	No	No
23.5	24.5	1.6	No	No
23.4	24.4	0.6	No	No
23.4	24.4	0.7	No	No
23.5	24.5	9.9	No	No
23.6	24.5	9.9	No	No
23.6	24.5	4.8	No	No
23.6	24.5	9.3	No	No
23.5	24.5	6.7	No	No
23.4	24.5	3.5	No	No
23.5	24.5	8.5	No	No
23.4	24.4	7	No	No
23.5	24.4	4.4	No	No
23.5	24.5	5.9	No	No
23.5	24.5	2.5	No	No
23.6	24.5	-0.1	No	No
23.7	24.6	0.3	No	No
23.9	24.6	0	No	No
25.2	24.9	1.2	No	No
24.4	24.7	5.2	No	No
23.9	24.5	7.8	No	No
23.8	24.5	6	No	No
23.8	24.5	5.8	No	No
23.7	24.5	3	No	No
23.6	24.5	0.4	No	No
23.6	24.5	2	No	No
24.3	24.5	2.7	No	No
24.2	24.6	3.9	No	No
23.8	24.6	0.7	No	No
23.6	24.6	0.2	No	No
23.5	24.5	1	No	No
23.6	24.4	0.9	No	No
23.6	24.5	0	No	No
23.5	24.5	4.4	No	No

NM3 KWAQN 1020 El Centro Street, South Pasadens. Raw Data

1/3 LZSmin 16000	1/3 LZSmin 20000	LAleq-LAeq	OVLD	OBA OVLD	Marker
23.5	24.5	3.5	No	No	
23.5	24.5	2.1	No	No	
23.4	24.5	0.5	No	No	
23.4	24.4	0	No	No	
23.5	24.4	1.9	No	No	
23.5	24.4	0.7	No	No	
23.5	24.5	3.9	No	No	
23.6	24.5	0.7	No	No	
23.5	24.5	-0.2	No	No	
23.5	24.5	0.2	No	No	
23.5	24.5	2.5	No	No	
23.6	24.5	0.5	No	No	
23.5	24.4	5	No	No	
23.5	24.5	7.7	No	No	
23.9	24.7	6.2	No	No	

APPENDIX C: RCNM CONSTRUCTION NOISE AND FHWA ROAD NOISE CALCULATIONS

Table A
Construction Noise by Phase - Receptor West of the Project Site (NM1)

A	B	C	D	E	F	G	H	I
Equipment Type	# of Equipment	Equipment Lmax at 50 feet, dBA[1, 2]	Distance to Receptor[3]	Equipment Usage Percent	Usage Factor	Dist. Correction dB	Usage Adj. dB	Noise Level Leq (dBA) at Receptor
Demolition								
Concrete/Industrial Saw	1	89.6	193	20	0.20	-11.7	-7.0	70.9
Rubber Tired Dozers	1	82	193	40	0.40	-11.7	-4.0	66.3
Tractors/Loaders/Backhoes	3	80	193	40	1.20	-11.7	0.8	69.1
							Log Sum	63.3
Site Preparation								
Excavators	1	81	193	40	0.40	-11.7	-4.0	65.3
Dumpers/Tenders	2	76	193	40	0.80	-11.7	-1.0	63.3
Tractors/Loaders/Backhoes	1	79	193	40	0.40	-11.7	-4.0	63.3
							Log Sum	68.8
Building Construction								
Cranes	1	81	193	16	0.16	-11.7	-8.0	61.3
Forklifts	1	64	193	50	0.50	-11.7	-3.0	49.3
Generator Sets	1	81	193	40	0.40	-11.7	-4.0	65.3
Tractors/Loaders/Backhoes	1	79	193	40	0.40	-11.7	-4.0	63.3
Welders	3	73	193	40	1.20	-11.7	0.8	62.1
							Log Sum	69.3
Architectural Coating								
Aerial Lifts	1	75	193	20	0.20	-11.7	-7.0	56.3
Air Compressors	1	78	193	40	0.40	-11.7	-4.0	62.3
							Log Sum	63.3

Notes:

(1) Source: Referenced noise levels from the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual (September 2018).

(2) Source: https://www.google.com/url?q=http://www.noisetesting.info/blog/warehouse-forklift-workplace-noise-levels/&sa=D&source=hangouts&ust=1545259247311000&usg=AFQjCNHFcKKoEKUjv5VZMOtw_KO977Em1A

(3) Distance to receptor calculated from center of site. Construction noise projected from the center of the project site to the structural façade of the nearest sensitive use.

Table B
Construction Noise by Phase - Receptor Southeast of the Project Site (NM2)

A	B	C	D	E	F	G	H	I
Equipment Type	# of Equipment	Equipment Lmax at 50 feet, dBA[1, 2]	Distance to Receptor[3]	Equipment Usage Percent	Usage Factor	Dist. Correction dB	Usage Adj. dB	Noise Level Leq (dBA) at Receptor
Demolition								
Concrete/Industrial Saw	1	89.6	306	20	0.20	-15.7	-7.0	66.9
Rubber Tired Dozers	1	82	306	40	0.40	-15.7	-4.0	62.3
Tractors/Loaders/Backhoes	3	80	306	40	1.20	-15.7	0.8	65.1
							Log Sum	59.3
Site Preparation								
Excavators	1	81	306	40	0.40	-15.7	-4.0	61.3
Dumpers/Tenders	2	76	306	40	0.80	-15.7	-1.0	59.3
Tractors/Loaders/Backhoes	1	79	306	40	0.40	-15.7	-4.0	59.3
							Log Sum	64.8
Building Construction								
Cranes	1	81	306	16	0.16	-15.7	-8.0	57.3
Forklifts	1	64	306	50	0.50	-15.7	-3.0	45.3
Generator Sets	1	81	306	40	0.40	-15.7	-4.0	61.3
Tractors/Loaders/Backhoes	1	79	306	40	0.40	-15.7	-4.0	59.3
Welders	3	73	306	40	1.20	-15.7	0.8	58.1
							Log Sum	65.3
Architectural Coating								
Aerial Lifts	1	75	306	20	0.20	-15.7	-7.0	52.3
Air Compressors	1	78	306	40	0.40	-15.7	-4.0	58.3
							Log Sum	59.3

Notes:

(1) Source: Referenced noise levels from the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual (September 2018).

(2) Source: https://www.google.com/url?q=http://www.noisetesting.info/blog/warehouse-forklift-workplace-noise-levels/&sa=D&source=hangouts&ust=1545259247311000&usg=AFQjCNHFcKKoEKUjv5VZMOtw_KO977Em1A

(3) Distance to receptor calculated from center of site. Construction noise projected from the center of the project site to the structural façade of the nearest sensitive use.

Table C
Construction Noise by Phase - Receptor Northeast of the Project Site (NM3)

A	B	C	D	E	F	G	H	I
Equipment Type	# of Equipment	Equipment Lmax at 50 feet, dBA[1, 2]	Distance to Receptor[3]	Equipment Usage Percent	Usage Factor	Dist. Correction dB	Usage Adj. dB	Noise Level Leq (dBA) at Receptor
Demolition								
Concrete/Industrial Saw	1	89.6	420	20	0.20	-18.5	-7.0	64.1
Rubber Tired Dozers	1	82	420	40	0.40	-18.5	-4.0	59.5
Tractors/Loaders/Backhoes	3	80	420	40	1.20	-18.5	0.8	62.3
							Log Sum	56.5
Site Preparation								
Excavators	1	81	420	40	0.40	-18.5	-4.0	58.5
Dumpers/Tenders	2	76	420	40	0.80	-18.5	-1.0	56.5
Tractors/Loaders/Backhoes	1	79	420	40	0.40	-18.5	-4.0	56.5
							Log Sum	62.1
Building Construction								
Cranes	1	81	420	16	0.16	-18.5	-8.0	54.6
Forklifts	1	64	420	50	0.50	-18.5	-3.0	42.5
Generator Sets	1	81	420	40	0.40	-18.5	-4.0	58.5
Tractors/Loaders/Backhoes	1	79	420	40	0.40	-18.5	-4.0	56.5
Welders	3	73	420	40	1.20	-18.5	0.8	55.3
							Log Sum	62.6
Architectural Coating								
Aerial Lifts	1	75	420	20	0.20	-18.5	-7.0	49.5
Air Compressors	1	78	420	40	0.40	-18.5	-4.0	55.5
							Log Sum	56.5

Notes:

(1) Source: Referenced noise levels from the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual (September 2018).

(2) Source: https://www.google.com/url?q=http://www.noisetesting.info/blog/warehouse-forklift-workplace-noise-levels/&sa=D&source=hangouts&ust=1545259247311000&usg=AFQjCNHFcKKoEKUjv5VZMOtw_KO977Em1A

(3) Distance to receptor calculated from center of site. Construction noise projected from the center of the project site to the structural façade of the nearest sensitive use.

Table D
Construction Noise by Phase - Library Receptor South of the Project Site (NM2)

A	B	C	D	E	F	G	H	I
Equipment Type	# of Equipment	Equipment Lmax at 50 feet, dBA[1, 2]	Distance to Receptor[3]	Equipment Usage Percent	Usage Factor	Dist. Correction dB	Usage Adj. dB	Noise Level Leq (dBA) at Receptor
Demolition								
Concrete/Industrial Saw	1	89.6	300	20	0.20	-15.6	-7.0	67.0
Rubber Tired Dozers	1	82	300	40	0.40	-15.6	-4.0	62.5
Tractors/Loaders/Backhoes	3	80	300	40	1.20	-15.6	0.8	65.2
							Log Sum	59.4
Site Preparation								
Excavators	1	81	300	40	0.40	-15.6	-4.0	61.5
Dumpers/Tenders	2	76	300	40	0.80	-15.6	-1.0	59.5
Tractors/Loaders/Backhoes	1	79	300	40	0.40	-15.6	-4.0	59.5
							Log Sum	65.0
Building Construction								
Cranes	1	81	300	16	0.16	-15.6	-8.0	57.5
Forklifts	1	64	300	50	0.50	-15.6	-3.0	45.4
Generator Sets	1	81	300	40	0.40	-15.6	-4.0	61.5
Tractors/Loaders/Backhoes	1	79	300	40	0.40	-15.6	-4.0	59.5
Welders	3	73	300	40	1.20	-15.6	0.8	58.2
							Log Sum	65.5
Architectural Coating								
Aerial Lifts	1	75	300	20	0.20	-15.6	-7.0	52.4
Air Compressors	1	78	300	40	0.40	-15.6	-4.0	58.5
							Log Sum	59.4

Notes:

(1) Source: Referenced noise levels from the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual (September 2018).

(2) Source: https://www.google.com/url?q=http://www.noisetesting.info/blog/warehouse-forklift-workplace-noise-levels/&sa=D&source=hangouts&ust=1545259247311000&usg=AFQjCNHFcKKoEKUjv5VZMOtw_KO977Em1A

(3) Distance to receptor calculated from center of site. Construction noise projected from the center of the project site to the structural façade of the nearest sensitive use.

Table E

Noise Levels 50 feet from Roadway Centerline*

Road Segments	Existing		Existing Plus Project			Is the Increase Significant ?
	ADT	dB CNEL	ADT	Total	Project-Specific Increase	
Meridian Avenue						
n/o Mission Street	1,160	58.3	1,200	58.5	0.2	**No**
s/o Mission Street	1,700	60.0	1,700	60.0	0.0	**No**
Fairview Avenue						
n/o Mission Street	510	54.8	510	54.8	0.0	**No**
s/o Mission Street	560	55.2	900	57.2	2.0	**No**
s/o El Centro Street	1,050	57.9	1,110	58.2	0.3	**No**
Fremont Avenue						
n/o Mission Street	7,890	66.7	7,930	66.7	0.0	**No**
s/o Mission Street	7,850	66.6	7,850	66.6	0.0	**No**
s/o El Centro Street	7,830	66.6	7,900	66.7	0.1	**No**
Mission Street						
w/o Meridian Avenue	3,740	63.4	3,780	63.5	0.1	**No**
e/o Meridian Avenue	5,040	64.7	5,220	64.9	0.2	**No**
w/o Fairview Avenue	4,550	64.3	4,650	64.4	0.1	**No**
e/o Fairview Avenue	5,530	65.1	5,620	65.2	0.1	**No**
w/o Fremont Avenue	4,200	63.9	4,370	64.1	0.2	**No**
e/o Fremont Avenue	4,670	64.4	4,710	64.4	0.0	**No**
El Centro Street						
w/o Fairview Avenue	1,100	58.1	1,170	58.4	0.3	**No**
e/o Fairview Avenue	1,590	59.7	1,690	60.0	0.3	**No**
w/o Fremont Avenue	1,160	58.3	1,340	59.0	0.7	**No**
e/o Fremont Avenue	1,700	60.0	1,720	60.1	0.1	**No**

*The uniform distance of 50 feet allows for direct comparisons of potential increases or decreases in noise levels based upon various traffic scenarios; however, at this distance, no specific noise standard necessarily applies

Appendix D

Air Quality, Global Climate Change, and Energy Analysis

Kimley»Horn

1020 El Centro Street
Air Quality, Global Climate Change, and Energy Analysis

Prepared for:

City of South Pasadena
Community Development Department
1414 Mission Street
South Pasadena, CA 91030

Prepared By:

Katie Wilson, M.S.
EcoTierra Consulting, Inc.
633 W. 5th Street, 26th Floor
Los Angeles, CA 90071

December 2021 (Revised July 2022)

EcoTierra
consulting

TABLE OF CONTENTS

I. INTRODUCTION AND SUMMARY 1

1. Purpose of Analysis and Study Objectives 1
2. Project Location 1
3. Project Description 3
4. Sensitive Receptors in Project Vicinity 3
5. Summary of Impacts 5
   - A. Construction-Source Emissions 5
   - B. Operational-Source Emissions 5
   - C. Greenhouse Gases 5
   - D. Energy 5

II. AIR QUALITY ANALYSIS 7

1. Existing Air Quality Conditions 7
   - A. Local Air Quality 7
   - B. Pollutants 8
   - C. Other Pollutants of Concern 11
2. Regulatory Setting 12
   - A. Federal – United States Environmental Protection Agency 13
   - B. State – California Air Resources Board 15
   - C. Regional 16
   - D. Local – City of South Pasadena 21
3. Monitored Air Quality 21
   - A. Ozone 23
   - B. Carbon Monoxide 23
   - C. Nitrogen Dioxide 23
   - D. Particulate Matter 23
4. Air Quality Standards 24
   - A. Significance Thresholds 24
   - B. Regional Air Quality 25

C. Local Air Quality 26
D. Toxic Air Contaminants (TACs) 27
E. Odor Impacts 28
5. Short-Term Construction Emissions 28
A. Methodology 28
B. Construction-Related Regional Impacts 30
C. Construction-Related Local Impacts 31
D. Construction-Related Toxic-Contaminant Impacts 32
E. Construction-Related Odor Impacts 32
6. Long-Term Operational Emissions 33
A. Operations-Related Regional Air Quality Impacts 33
B. Operations-Related Local Air Quality Impacts 34
C. Operations-Related Odor Impacts 36
7. Cumulative Air Quality Impacts 36
A. Project Specific Impacts 36
B. Air Quality Compliance 38
III. GLOBAL CLIMATE CHANGE ANALYSIS 41
1. Existing Greenhouse Gas Environment 41
A. Water Vapor 41
B. Carbon Dioxide (CO_2) 42
C. Nitrous Oxide (N_2O) 42
D. Hydrofluorocarbons (HFC) 42
E. Perfluorocarbons (PFC) 43
F. Sulfur Hexafluoride (SF_6) 43
G. Aerosols 43
H. Global Warming Potential 43
2. Greenhouse Gas Standards and Regulation 44
A. International 44
B. Federal 45
C. State of California 49

D. Regional – South Coast Air Quality Management District 63
E. Local – City of South Pasadena 65
3. Significance Thresholds 65
A. Appendix G of State CEQA Guidelines 65
B. Thresholds of Significance for this Project 66
4. Methodology 66
A. Area Sources 67
B. Energy Usage 67
C. Mobile Sources 67
D. Waste 68
E. Water 68
F. Sequestration 68
G. Construction 68
5. Project Greenhouse Gas Emissions 68
6. Consistency with Applicable Greenhouse Gas Reduction Plans and Policies 69
7. Cumulative Greenhouse Gas Impacts 70
IV. ENERGY ANALYSIS 71
1. Existing Conditions 71
A. Overview 71
B. Electricity 73
C. Natural Gas 74
D. Transporation Energy Resources 75
2. Regulatory Background 75
A. Federal Regulations 75
B. State Regulations 76
3. Project Energy Demands and Energy Efficiency Measures 81
A. Evaluation Criteria 81
B. Methodology 82
C. Construction Energy Demands 82
D. Operational Energy Demands 87

4. Renewable Energy and Energy Efficiency Plan Consistency 89
5. Conclusion 90
V. EMISSIONS/EXPOSURE REDUCTION MEASURES 91
1. Construction Measures 91
2. Operational Measures 91
VI. LIST OF ACRONYMS AND ABBREVIATIONS 92
VII. REFERENCES 94

APPENDICES

Appendix A: CalEEMod Model Daily Emissions Printouts
Appendix B: CalEEMod Model Annual Emissions Printouts
Appendix C: EMFAC Data

LIST OF FIGURES

Figure 1: Project Location Map 2
Figure 2: Site Plan 4

LIST OF TABLES

Table 1: Local Monthy Climate Data 8
Table 2: State and Federal Criteria Pollutant Standards 14
Table 3: South Coast Air Basin Attainment Status 15
Table 4: Air Quality Monitoring Summary 22
Table 5: SCQAMD Air Quality Significance Thresholds 25
Table 6: Construction-Related Regional Pollutant Emissions 30
Table 7: Local Construction Emissions at the Nearest Receptors 32
Table 8: Regional Operational Pollutant Emissions 34
Table 9: Global Warming Potentials and Atmospheric Lifetimes 44
Table 10: Project-Related Greenhouse Gas Emissioins With Incorporation of Regulation 69
Table 11: Total Electricity System Power (California 2019) 72
Table 12: 2020 CPA Power Content Mix 73

Table 13: Project Construction Power Cost and Electricity Usage 83
Table 14: Construction Equipment Fuel Consumption Estimates 84
Table 15: Construction Worker Fuel Consumption Estimates 85
Table 16: Construction Vendor Fuel Consumption Estimates (MHD Trucks) 86
Table 17: Construction Hauling Fuel Consumption Estimates (HHD Trucks) 86
Table 18: Estimated Vehicle Operations Fuel Consumption 88
Table 19: Project Annual Operational Energy Demand Summary 89

I. INTRODUCTION AND SUMMARY

1. PURPOSE OF ANALYSIS AND STUDY OBJECTIVES

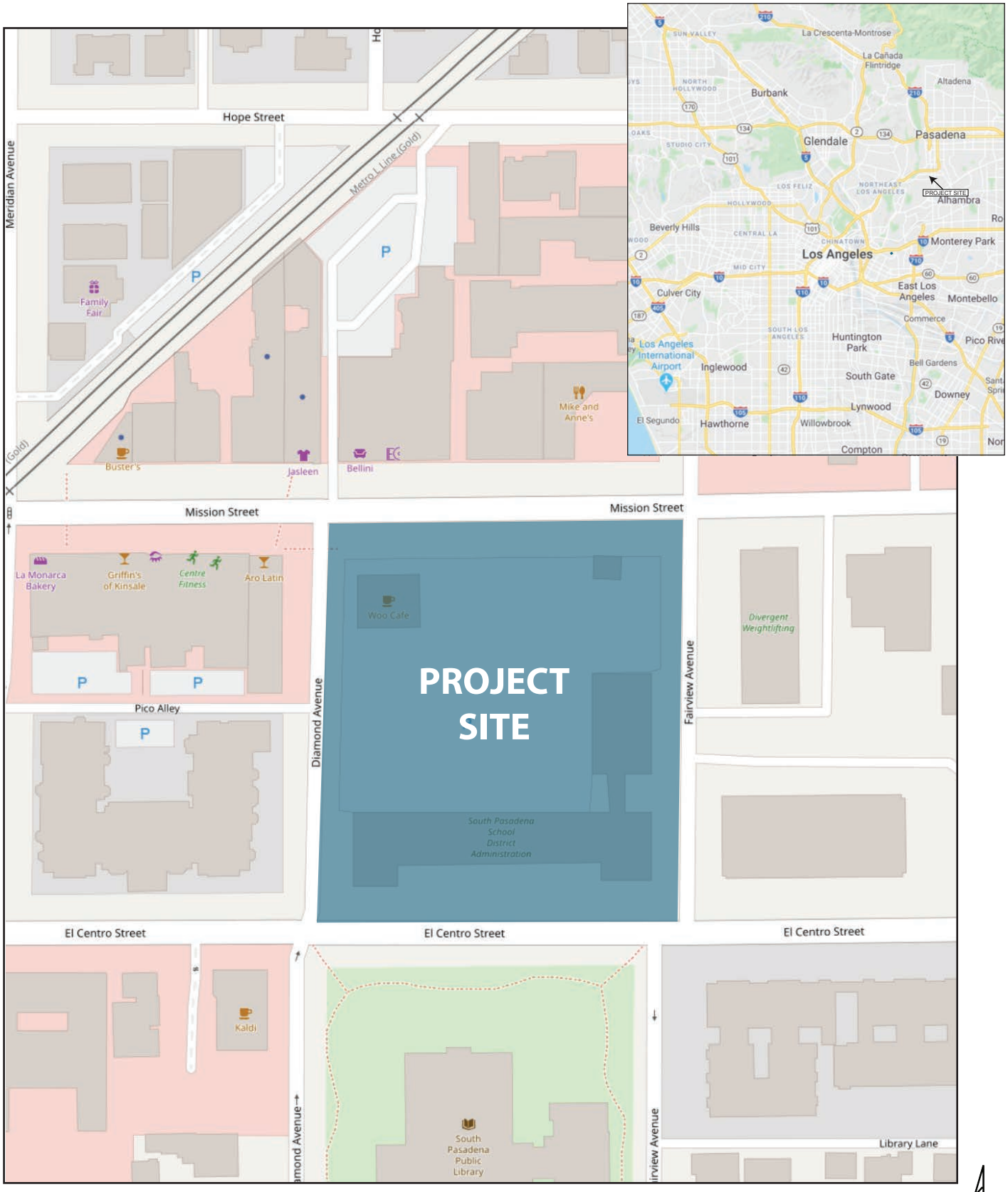
The purpose of this air quality, global climate change, and energy impact analysis is to provide an assessment of the impacts resulting from development of the 1020 El Centro Project and to identify measures that may be necessary to reduce potentially significant impacts. This study was performed to address the possibility of regional/local air quality impacts and global climate change impacts, from project-related air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality and greenhouse gases thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- analysis of the conformity of the proposed project with the SCAQMD AQMP
- analysis of the project's energy use during construction and operation.
- recommendations for mitigation measures

The City of South Pasadena is the lead agency for this air quality, greenhouse gas, and energy analysis, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality and global climate change, a definition of terms has been provided in Appendix A.

2. PROJECT LOCATION

The project is located at 1020 El Centro Street in the City of South Pasadena. The project site is bounded by Mission Street to the north, Fairview Avenue to the east, El Centro Street to the south, and Diamond Avenue to the west. The Project is located within the City's Mission Street Specific Plan (April 1996) area. Most nearby uses include local-serving commercial and residential, as well as the South Pasadena Public Library. The project site is also located approximately 400 feet east of the Los Angeles County Metropolitan Transportation Authority (Metro) L Line (formerly Gold Line) South Pasadena Station and approximately 0.25 miles south of the Arroyo Seco Parkway (SR 110). A vicinity map showing the project location is provided on **Figure 1, Project Location Map**.



Project Site

Source: Google Earth and Open Street Maps, December 2021.

Figure 1
Project Location Map

3. PROJECT DESCRIPTION

The project includes the construction of up to 108 multi-family housing units, including 22 affordable housing units, and new ground-floor commercial space. Additionally, the Project includes the adaptive reuse of an existing school administrative office building and auditorium located along the southern and eastern boundaries of the Project Site as part of its proposed commercial space.[1] The project site is approximately 1.9 total acres (with the existing buildings). The total commercial space would include up to 26,468 square feet (SF) of floor area with 13,234 SF of retail and 13,234 SF of high-turnover restaurant. The project would provide 274 automobile parking spaces in a subterranean parking structure with access via one driveway proposed at the approximate location of the existing driveway on Fairview Avenue. Pedestrian and bicycle access to the project site would be provided via entrances along all street frontages around the project site perimeter. The existing surface parking lot (approximately 56,628 SF) would be removed to accommodate the development of the Project.[2] **Figure 2, Site Plan**, illustrates the proposed site plan.

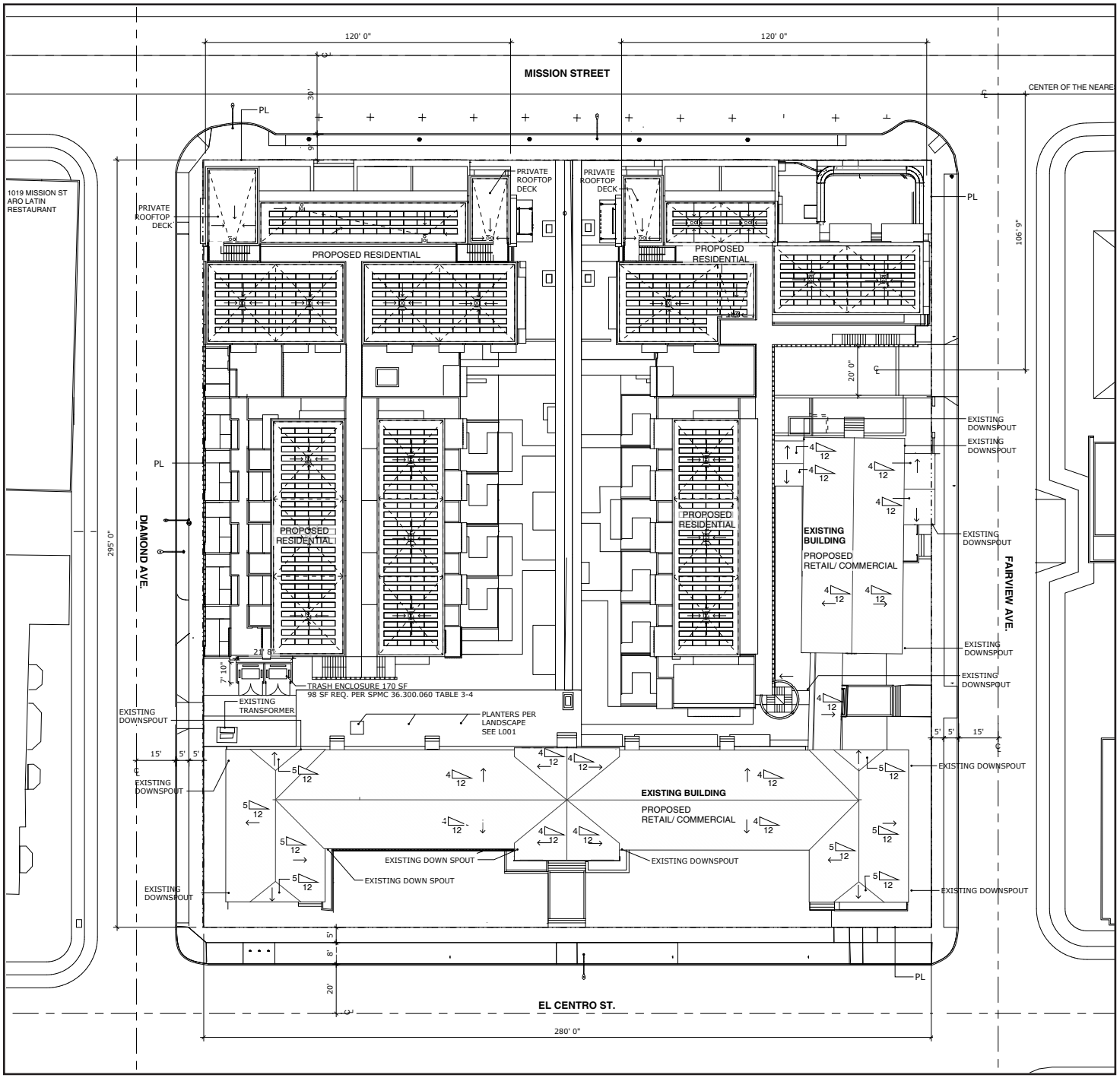
The project is anticipated to be built in one phase with project construction to start no sooner than March 2023 and be completed before 2025. The Project is anticipated to be operational in 2024.[3] The Project would include approximately 37,420 cubic yards (CY) of cut (export).

4. SENSITIVE RECEPTORS IN PROJECT VICINITY

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site are: multi-family residential dwelling units located approximately 40 feet to the west (north of El Centro Street and west of Diamond Avenue) and 180 feet to the southeast (east of Fairview Avenue and south of El Centro Street) of the project site. Other air quality sensitive land uses are located further from the project site and would experience lower impacts.

[1] Adaptive re-use will involve the re-use of approximately 11,435 SF of office space (school administration building).
[2] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. As the original analysis was based on a larger project, the original analysis is more conservative and considered to be worst-case.
[3] Operational year in the Transportation Study (Gibson, 2021) is 2024.



Source: Gangi Architecs, April 2022.

Figure 2
Site Plan

5. SUMMARY OF IMPACTS

A. Construction-Source Emissions

Project construction-source emissions would not exceed applicable regional or local thresholds of significance established by the South Coast Air Quality Management District (SCAQMD).

As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS) or result in toxic air contaminant (TAC)-related impacts.

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less than significant.

B. Operational-Source Emissions

The project operational-sourced emissions would not exceed applicable regional or local thresholds of significance established by the SCAQMD. Additionally, project-related trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO “hotspots”). Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

The project's emissions would not exceed SCAQMD regional thresholds and will not result in a significant cumulative impact. The project does not propose any such uses or activities that would result in potentially significant operational-source toxic air contaminants or odor impacts. Potential operational-source odor impacts are therefore considered less than significant.

C. Greenhouse Gases

With incorporation of project design features and compliance with regulatory requirements, the Project’s GHG emissions will not exceed per capita GHG emissions targets within the City of South Pasadena Climate Action Plan (CAP). Therefore, the project would not conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases and impacts are considered to be less than significant.

D. Energy

For new development such as that proposed by the Project, compliance with California Building Standards Code Title 24 energy efficiency requirements (CALGreen), are considered demonstrable evidence of

efficient use of energy. As discussed below, the project would promote energy efficiencies required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the project's operation is calculated to be comparable to, or less than, energy consumed by other uses of similar scale and intensity that are constructed and operating in California. On this basis, the project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the project would not cause or result in the need for additional energy producing facilities or energy delivery system.

II. AIR QUALITY ANALYSIS

1. EXISTING AIR QUALITY CONDITIONS

A. Local Air Quality

The project site is located within the City of South Pasadena, within the west San Gabriel Valley portion of Los Angeles County; which is part of the South Coast Air Basin (Basin). The Basin includes all of Orange County and the non-desert portions of Los Angeles, San Bernardino, and Riverside Counties. Bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, the Basin is an area of high air pollution potential. The regional climate within the Basin is considered semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. Air quality within the Basin is influenced by a wide range of emissions sources—such as dense population centers, heavy vehicular traffic, and industry. Climate change within the Basin is influenced by a wide range of emission sources, such as utility usage, heavy vehicular traffic, industry, and meteorology.

The annual average temperature varies throughout the Basin, ranging from the low to mid 60s to over 100 degrees during the summer, measured in Fahrenheit (°F). With a more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas.

The Basin experiences a persistent temperature inversion, which is characterized by increasing temperature with increasing altitude. This inversion limits the vertical dispersion of air contaminants, holding them relatively near the ground. As the sun warms the ground and the lower air layer, the temperature of the lower air layer approaches the temperature of the base of the inversion (upper) layer until the inversion layer finally breaks, allowing vertical mixing with the lower layer.

Aside from a persistent temperature inversion, the vertical dispersion of air contaminants in the Basin is also affected by wind conditions. The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. Conversely, on days of no inversion or high wind speeds, ambient air pollutant concentrations are the lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas in the Basin are transported eastward, predominantly into Riverside and San Bernardino Counties. Santa Ana winds, which are strong and dry north or northeasterly winds that occur during the fall and winter months, disperse air contaminants differently through the Basin, generally resulting in worse air conditions in the inner basin areas. Santa Ana conditions tend to last for several days at a time. Wind speeds in South Pasadena area average about 6.9 miles per hour (mph)[1].

[1] *Weather Spark, Average Weather in South Pasadena, website: https://weatherspark.com/y/1733/Average-Weather-in-South-Pasadena-California-United-States-Year-Round, accessed December 2021.*

The majority of annual rainfall in the Basin occurs between December and March. Summer rainfall is minimal and generally limited to scattered thundershowers in coastal regions. The annual average total of rainfall in the South Pasadena area is approximately 19 inches[2].

In the winter, light nocturnal winds result mainly from the drainage of cool air off of the mountains toward the valley floor while the air aloft over the valley remains warm. This forms a type of inversion known as a radiation inversion. Such winds are characterized by stagnation and poor local mixing and trap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution "hot spots" in heavily developed coastal areas of the basin, there is not enough traffic in inland valleys to cause any winter air pollution problems. Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

The temperature and precipitation levels for the South Pasadena area (area based on the Pasadena, CA Station, the closest monitoring station to the project site), are shown below in **Table 1, Local Monthly Climate Data**. Table 1 shows that August is typically the warmest month and January is typically the coolest month. Rainfall in the project area varies considerably in both time and space. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

Table 1
Local Monthly Climate Data

Descriptor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature	66.5	67.8	69.9	73.4	76.3	81.7	88.4	89.2	87.1	80.6	73.8	67.2
Avg. Min. Temperature	42.6	44.1	45.1	48.8	52.2	55.7	59.9	60.3	58.5	53.4	47.2	43.2
Avg. Total Precipitation (in.)	4.39	4.54	3.39	1.39	0.43	0.13	0.03	0.08	0.36	0.7	1.67	3.14
Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6719 *Data from the Pasadena, CA station (046719) for period 1/1/1898 to 6/10/2016*												

B. Pollutants

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

[2] *Best Places, Climate in South Pasadena, California, website: https://www.bestplaces.net/climate/city/california/south_pasadena, accessed December 2021.*

i) Criteria Pollutants

The criteria pollutants consist of ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

ii) Nitrogen Dioxides

Nitrogen Oxides (NOx) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NOx are colorless and odorless, concentrations of nitrogen dioxide (NO_2) can often be seen as a reddish-brown layer over many urban areas. NOx form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NOx are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NOx reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO_2, which cause respiratory problems. NOx and the pollutants formed from NOx can be transported over long distances, following the patterns of prevailing winds. Therefore, controlling NOx is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

iii) Ozone

Ozone (O_3) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NOx and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NOx and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NOx and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NOx and VOC emissions.

iv) Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust.

Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

v) Sulfur Dioxide

Sulfur Oxide (SOx) gases (including sulfur dioxide [SO_2]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

vi) Lead

Lead (Pb) is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants, and children to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

vii) Particulate Matter

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

viii) Reactive Organic Gases (ROG)

Although not a criteria pollutant, reactive organic gases (ROGs), or volatile organic compounds (VOCs), are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM10 and lower visibility.

C. Other Pollutants of Concern

i) Toxic Air Contaminants

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of TACs include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different TACs. The most important of these TACs, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to TACs can result from emissions from normal operations as well as from accidental releases. Health effects of TACs include cancer, birth defects, neurological damage, and death.

TACs are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of TACs with varying degrees of toxicity. Sources of TACs include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2013 California Almanac of Emissions and Air Quality (CARB 2013), the majority of the estimated health risk from TACs can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). DPM is a subset of PM2.5 because the size of diesel particles are typically 2.5 microns and smaller. The identification of DPM as a TAC in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in DPM by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot". Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of DPM as a TAC was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to DPM is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

ii) Asbestos

Asbestos is listed as a TAC by the CARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in Los Angeles County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located at Asbestos Mountain in the San Jacinto Valley, over 100 miles southeast of the site. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos. Demolition activities are subject to SCAQMD Rule 1403 which specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities.

2. REGULATORY SETTING

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

A. Federal – United States Environmental Protection Agency

The EPA is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The NAAQS pollutants were identified using medical evidence and are shown below in **Table 2, State and Federal Criteria Pollutant Standards**.

The EPA and the CARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in **Table 3, South Coast Air Basin Attainment Status**.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The SIP must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the SIP.

As indicated below in Table 3, the South Coast Air Basin has been designated by the EPA as a non-attainment area for ozone (O_3) and PM10. Currently, the Basin is in attainment with the ambient air quality standards for CO, lead, SO_2, NO_2 and PM2.5.

Table 2
State and Federal Criteria Pollutant Standards

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O_3)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO_2)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO_2)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM10)	50 µg/m^3/24-hour 20 µg/m^3/annual	150 µg/m^3/24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter (PM2.5)	12 µg/m^3 / annual	35 µg/m^3/24-hour 12 µg/m^3/annual	
Sulfates	25 µg/m^3/24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m^3/30-day	0.15 µg/m^3/3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html, accessed December 2021.

Table 3
South Coast Air Basin Attainment Status

Pollutant	State Status	National Status
Ozone	Nonattainment	Nonattainment (Extreme)
Carbon monoxide	Attainment	Attainment/Unclassified
Nitrogen dioxide	Attainment	Attainment/Unclassified
Sulfur dioxide	Attainment	Attainment/Unclassified
PM10	Nonattainment	Attainment (Maintenance)
PM2.5	Nonattainment	Nonattainment (Moderate)

Source (Federal and State Status): California Air Resources Board, October 2018 and August 2019.

B. State – California Air Resources Board

The CARB, which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the CAAQS, compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the SIP. The CAAQS for criteria pollutants are shown in Table 2. In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

The SCAQMD-portion of the South Coast Air Basin (SCAB) has been designated by the CARB as a nonattainment area for ozone, PM10 and PM2.5. Currently, the SCAB is in attainment with the ambient air quality standards for CO, lead, SO_2, NO_2, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 μg/m^3 and established an annual average standard for PM2.5 of 12 μg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007, CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projects attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008, the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009, Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, Title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

The CARB is also responsible for regulations pertaining to TACs. The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the South Coast Air Basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

i) AB 617 Nonvehicular Air Pollution: Criteria Air Pollutants and TACs

This bill requires the CARB to develop a uniform statewide system of annual reporting of emissions of criteria air pollutants and TACs for use by certain categories of stationary sources. The bill requires those stationary sources to report their annual emissions of criteria air pollutants and TACs, as specified. This bill required the state board, by October 1, 2018, to prepare a monitoring plan regarding technologies for monitoring criteria air pollutants and TACs and the need for and benefits of additional community air monitoring systems, as defined. The bill requires the state board to select, based on the monitoring plan, the highest priority locations in the state for the deployment of community air monitoring systems. The bill requires an air district containing a selected location, by July 1, 2019, to deploy a system in the selected location. The bill would authorize the air district to require a stationary source that emits air pollutants in, or that materially affect, the selected location to deploy a fence-line monitoring system, as defined, or other specified real-time, on-site monitoring. The bill authorizes the state board, by January 1, 2020, and annually thereafter, to select additional locations for the deployment of the systems. The bill would require air districts that have deployed a system to provide to the state board air quality data produced by the system. By increasing the duties of air districts, this bill would impose a state-mandated local program. The bill requires the state board to publish the data on its Internet Web site. The new databases, policy resources, technical guidance, and more are available online to help communities understand local air quality, identify reduction strategies, and build capacity.

C. Regional

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

i) SCAG

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. Although SCAG is not an air quality management agency, it is

responsible for developing transportation, land use, and energy conservation measures that affect air quality. SCAG's 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) identifies growth forecasts that are used in the development of air quality-related land use and transportation control strategies by the South Coast Air Quality Management District.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The Plan charts a course for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than $556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses, and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

On May 7, 2020, SCAG's Regional Council adopted Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy) for federal transportation conformity purposes only. In light of the COVID-19 pandemic, the Regional Council will consider approval of Connect SoCal in its entirety and for all other purposes within 120 days from May 7, 2020. Connect SoCal is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. Connect SoCal outlines more than $638 billion in transportation system investments through 2045. It was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura.

ii) South Coast Air Quality Management District (SCAQMD)

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs.

1) *AQMP*

On June 30, 2016, the SCAQMD released its Draft 2016 AQMP. The 2016 AQMP is a regional blueprint for achieving the federal air quality standards and healthful air.

The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NOx) emissions sufficiently to meet the upcoming ozone standard deadlines. On March 23, 2017 the CARB approved the 2016 AQMP. The primary goal of this Air Quality Management Plan is to meet clean air standards and protect public health, including ensuring benefits to environmental justice and disadvantaged communities. Now that the Plan has been approved by the CARB, it has been forwarded to the U.S. EPA for its review. The Plan was approved by the EPA on June 15, 2017.

2) *SCAQMD Rules*

During construction and operation, the project must comply with applicable rules and regulations. The following are rules that the project may be required to comply with, either directly, or indirectly:

a) SCAQMD Rule 402

Prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

b) SCAQMD Rule 403

Governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are

summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM10 component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.

c) SCAQMD Rule 445

Prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

d) SCAQMD Rule 481

Applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

(1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.

(2) Coatings are applied with high-volume low-pressure, electrostatic, and/or airless spray equipment.

(3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

e) SCAQMD Rule 1108

Governs the sale, use, and manufacturing of asphalt and limits the VOC content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

f) SCAQMD Rule 1113

Governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

g) SCAQMD Rule 1143

Governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

h) SCAQMD Rule 1186

Limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency, or special district such as water, air, sanitation, transit, or school district.

i) SCAQMD Rule 1403

Asbestos Emissions from Demolition/Renovation Activities, specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM).

3) *SCAQMD and CEQA*

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook) prepared by the SCAQMD (1993) with the most current updates found at http://www.aqmd.gov/ceqa/hdbk.html, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA

Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. SCAQMD is in the process of developing an "Air Quality Analysis Guidance Handbook" to replace the CEQA Air Quality Handbook approved by the AQMD Governing Board in 1993. The 1993 CEQA Air Quality Handbook is still available but not online. In addition, there are sections of the 1993 Handbook that are obsolete. In order to assist the CEQA practitioner in conducting an air quality analysis while the new Handbook is being prepared, supplemental information regarding: significance thresholds and analysis, emissions factors, cumulative impacts emissions analysis, and other useful subjects, are available at the SCAQMD website[3].

D. Local – City of South Pasadena

Local jurisdictions, such as the City of South Pasadena, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the 2016 AQMP and SCAQMD Attainment Plans. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

3. MONITORED AIR QUALITY

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2016 Air Quality Management Plan prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NOx emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM2.5, with another 13 percent of PM2.5 from road dust.

The EPA and the CARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered

[3] *http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook, accessed December 2021.*

"unclassified". National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in **Table 4, Air Quality Monitoring Summar**y.

Table 4
Air Quality Monitoring Summary

Pollutant (Standard)[1]		Year		
		2018	**2019**	**2020**
Ozone:	Maximum 1-Hour Concentration (ppm)	0.112	0.120	0.163
	Days > CAAQS (0.09 ppm)	**8**	**11**	**41**
	Maximum 8-Hour Concentration (ppm)	0.090	0.098	0.115
	Days > NAAQS/CAAQS (0.070 ppm)	**19**	**24**	**60**
Carbon Monoxide:	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:	Maximum 1-Hour Concentration (ppm)	0.068	0.059	0.061
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):[2]	Maximum 24-Hour Concentration (µg/m^3)	81.2	93.9	185.2
	Days > NAAQS (150 µg/m3)	0	0	*
	Days > CAAQS (50 µg/m3)	**31**	**15**	**34**
	Annual Average (µg/m3)	34.0	*	33.9
Ultra-Fine Particulates (PM2.5):	Maximum 24-Hour Concentration (µg/m3)	32.5	41.8	67.7
	Days > NAAQS (35 µg/m3)	0	1	2
	Annual Average (µg/m3)	10.3	8.7	11.9

Notes:
Source: http://www.arb.ca.gov/adam/topfour/topfour1.php. Data from the Pasadena-S. Wilson Avenue Monitoring Station, unless otherwise noted.
(1) CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million
(2) Data obtained from the Los Angeles - North Main Street Station.
** Means there was insufficient data available to determine value.*

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in the West San Gabriel Valley Source Receptor Area (SRA 8). The nearest air monitoring station to the project site is the Pasadena – S. Wilson Avenue Monitoring Station (Pasadena Station). The Pasadena Station is located approximately 1.94 mile southwest of the project site at 752 S. Wilson Avenue, Pasadena. Table 4 presents the monitored pollutant levels from the Pasadena Station. However, it should be noted that due to the air monitoring station distance from the project site, recorded air pollution levels at the air monitoring station reflect

with varying degrees of accuracy, local air quality conditions at the project site. As PM10 data was not available for the Pasadena station, data was obtained from the Los Angeles- North Main Street Station.

Table 4 summarizes 2018 through 2020 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the State ozone and PM10 standards.

A. Ozone

During the 2018 to 2020 monitoring period, the State 1-hour concentration standard for ozone was exceeded between 8 and 41 days at the Pasadena Station. The State/Federal 8-hour ozone standard has been exceeded between 19 and 60 days each year over the past three years at the Pasadena Station. Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO_2, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

B. Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Pasadena Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

C. Nitrogen Dioxide

The Pasadena Station did not record an exceedance of the State or Federal NO_2 standards for the last three years.

D. Particulate Matter

From 2018 to 2020, the State 24-hour concentration standards for PM10 was exceeded between 15 and 34 days at the Pasadena Station. There was insufficient data to determine the number of days the Federal standards for PM10 were exceeded. Over the past three years, the Federal 24-hour standards for PM2.5 were not exceeded at the Pasadena Station.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people

who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

4. AIR QUALITY STANDARDS

A. Significance Thresholds

i) Appendix G of the State CEQA Guidelines

Appendix G of the State CEQA Guidelines states that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make a significance determination. Pursuant to Appendix G, the project would result in a significant impact related to air quality if it would:

- Conflict with or obstruct the implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The CEQA Guidelines Section 15064.7 provides the significance criteria established by the applicable air quality management district or air pollution control district, when available, may be relied upon to make determinations of significance. The potential air quality impacts of the Project are, therefore, evaluated according to thresholds developed by SCAQMD in their CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent guidance, which are listed below.[4] Therefore, the project would result in a potentially significant impact to air quality if it would:

AIR-1: Conflict with or obstruct the implementation of the applicable air quality plan;

AIR-2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation as a result of:

- Criteria pollutant emissions during construction (direct and indirect) in excess of the SCAQMD's regional significance thresholds,
- Criteria pollutant emissions during operation (direct and indirect) in excess of the SCAQMD's regional significance thresholds.

[4] *While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from industrial land use projects such as the Project. As a result, lead emissions are not further evaluated herein.*

AIR-3: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

AIR-4: Expose sensitive receptors to substantial pollutant concentrations that would:

- Exceed SCAQMD's localized significance thresholds,
- Cause or contribute to the formation of CO hotspots.

AIR-5: Create objectionable odors affecting a substantial number of people.

B. Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in **Table 5, SCQAMD Air Quality Significance Thresholds.**

Table 5
SCAQMD Air Quality Significance Thresholds

Mass Daily Thresholds		
Pollutant	**Construction (lbs/day)**	**Operation (lbs/day)**
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3
Toxic Air Contaminants, Odor and GHG Thresholds		
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
GHG	10,000 MT/yr CO_2e for industrial projects	

Table 5
SCAQMD Air Quality Significance Thresholds

Ambient Air Quality Standards	
Pollutant	**SCAQMD Standards**
NO2 -1-hour average	0.18 ppm (338 µg/m^3)
Annual arithmetic mean	0.03 ppm (state) and 0.0534 (federal)
PM10 -24-hour average	
Construction	10.4 µg/m^3
Operations	2.5 ug/ m^3
Annual average	1.0 µg/ m^3
PM2.5 -24-hour average	
Construction	10.4 µg/ m^3
Operations	2.5 µg/ m^3
SO2	
1-hour average	0.25 ppm (state) and 0.075 ppm (federal – 99th percentile)
24-hour average	0.04 ppm (state)
CO	
1-hour average	20 ppm (23,000 µg/ m^3)
8-hour average	9 ppm (10,000 µg/ m^3)
Lead	
30-day average	1.5 µg/ m^3
Rolling 3-month average	0.15 µg/ m^3
Quarterly average	1.5 µg/ m^3

Source: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2

C. Local Air Quality and Localized Significance Thresholds

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significance Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant Threshold Methodology found that the primary emissions of concern are NO_2, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO_2 and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 4 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significant Thresholds. Table 5 shows the ambient air quality standards for NO_2, CO, and PM10 and PM2.5.

D. Toxic Air Contaminants (TACs)

i) Construction

Temporary TAC emissions associated with DPM emissions from heavy construction equipment would occur during the construction phase of the Project. According to the Office of Environmental Health Hazard Assessment (OEHHA)[5] and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),[6] health effects from TACs are described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of TACs over a 30-year lifetime will contract cancer based on the use of standard risk-assessment methodology. Additionally, the SCAQMD CEQA guidance does not require a HRA for short-term construction emissions. Construction activities associated with the project would be sporadic, transitory, and short-term in nature (approximately 21 months). Thus, construction of the project would not result in a substantial, long-term (i.e., 30-year) source of TAC emissions. Nonetheless, a qualitative assessment of TAC emissions associated with short-term construction TAC emissions is provided in the analysis section below.

ii) Operation

CARB published the *Air Quality and Land Use Handbook* in April 2005 to serve as a general guide for considering impacts to sensitive receptors from facilities that emit TAC emissions. The recommendations provided therein are voluntary and do not constitute a requirement or mandate for either land use agencies or local air districts. The goal of the guidance document is to protect sensitive receptors, such as children, the elderly, acutely ill, and chronically ill persons, from exposure to TAC emissions. Some examples of CARB's siting recommendations include the following: (1) avoid siting sensitive receptors within 500 feet of a freeway, urban road with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day; (2) avoid siting sensitive receptors within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units per day, or where transport refrigeration unit operations exceed 300 hours per week); (3) avoid siting sensitive receptors within 300 feet of any dry cleaning operation using perchloroethylene and within 500 feet of operations with two or more machines; and (4) avoid siting sensitive receptors within 300 feet of a large gasoline dispensing facility (3.6 million gallons per year or more) or 50 feet of a typical gasoline dispensing facility (less than 3.6 million gallons per year). The project will not be located near any such land uses.

---

[5] *Office of Environmental Health Hazard Assessment, Air Toxic Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessment, February 2015, https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.*

[6] *South Coast Air Quality Management District, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, August 2003, http://www.aqmd.gov/docs/default-source/ceqa/handbook/mobile-source-toxics-analysis.doc?sfvrsn=2.*

E. Odor Impacts

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

5. SHORT-TERM CONSTRUCTION EMISSIONS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the phasing, duration, and required equipment for the construction of the proposed project were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: demolition of 56,628 square feet (SF) of existing parking lot,[7] site preparation/excavation, construction of a 4-story mixed-use building with 108 apartments, 13,234 SF of regional shopping center, 13,234 SF of high-turnover (sit-down restaurant), and a 274-space subterranean parking garage, and application of architectural coatings. The project is anticipated to export approximately 37,420 CY of material during site preparation/excavation.[8] See Appendix A for more details.

The proposed project is anticipated to start construction no sooner than March 2023 and be completed by 2025. The project is anticipated to be operational in late 2024.

A. Methodology

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria

[7] Parking lot is assumed to be 0.3 ft thick, which would yield 382.2 tons of asphalt (see the CalEEMod output notes in Appendix A for calculation details).

[8] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. As the original analysis was based on a larger project, the original analysis is more conservative and considered to be worst-case.

pollutants. The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

Emissions are estimated using the CalEEMod (Version 2020.4.0) software, which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Regional data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California.

Daily regional emissions during construction are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The input values used in this analysis were adjusted to be project-specific for the construction schedule and the equipment used was based on CalEEMod defaults. The CalEEMod program uses the EMFAC2017 computer program to calculate the emission rates specific for Los Angeles County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2017 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Daily truck trips and CalEEMod default trip length data were used to assess roadway emissions from truck exhaust. The maximum daily emissions are estimated values for the worst-case day and do not represent the emissions that would occur for every day of project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators. Detailed construction equipment lists, construction scheduling, and emission calculations are provided in Appendix A.

The project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 1.9 acres total [1.3 acres being disturbed]) a Fugitive Dust Control Plan or Large Operation Notification would not be required.

SCAQMD's Rule 403 minimum requirements require that the application of the best available dust control measures is used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rule 403 would require the use of water trucks during all phases where earth moving operations would occur. Compliance with Rule 403 has been included in the CalEEMod modeling for the proposed project.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied to buildings after January 1, 2014 will be limited to an average of 50 grams per liter or less. CalEEMod defaults have been adjusted accordingly.

The phases of the construction activities which have been analyzed below for each phase are: (1) demolition, (2) site preparation/excavation, (3) building construction, and (4) application of architectural coatings. Details pertaining to the project's construction timing and the type of equipment modeled for each construction phase are available in the CalEEMod output in Appendix A of this technical report.

B. Construction-Related Regional Impacts

The construction-related criteria maximum daily pollutant emissions for each phase are shown below in **Table 6 Construction-Related Regional Pollutant Emissions**. Table 6 shows the worst-case of either summer or winter criteria pollutant emissions and that none of the project's emissions will exceed regional thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

Table 6
Construction-Related Regional Pollutant Emissions

Activity		Maximum Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO_2	PM10	PM2.5
Demolition	On-Site[1]	1.47	14.32	13.46	0.02	0.84	0.66
	Off-Site[2]	0.05	0.29	0.54	0.00	0.18	0.05
	Subtotal	1.52	14.61	14.00	0.03	1.02	0.71
Site Preparation	On-Site[1]	0.49	4.01	5.99	0.01	0.20	0.18
	Off-Site[2]	0.10	4.27	1.45	0.02	0.68	0.20
	Subtotal	0.59	8.29	7.44	0.03	0.89	0.38
Building Construction	On-Site[1]	1.52	11.71	12.61	0.02	0.51	0.50
	Off-Site[2]	0.50	1.70	5.36	0.02	1.73	0.47
	Subtotal	2.02	13.41	17.97	0.04	2.25	0.97
Architectural Coating	On-Site[1]	61.96	1.61	2.63	0.00	0.07	0.07
	Off-Site[2]	0.09	0.06	0.91	0.00	0.30	0.08
	Subtotal	62.05	1.67	3.54	0.01	0.37	0.15
Total for overlapping phases[3]		64.07	15.08	21.51	0.05	2.62	1.12
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No
Notes:							

Table 6
Construction-Related Regional Pollutant Emissions

Activity	Maximum Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO_2	PM10	PM2.5
(1) On-site emissions from equipment operated on-site that is not operated on public roads. On-site demolition and site preparation PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.						
(2) Off-site emissions from equipment operated on public roads.						
(3) Construction and painting phases may overlap.						
Source: CalEEMod Version 2020.4.0.						

C. Construction-Related Local Impacts

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from TACs; and from construction-related odor impacts. The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold Methodology prepared by SCAQMD (revised July 2008). The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the West San Gabriel Valley source receptor area (SRA) 8 and a disturbance value of one acre per day (as the area disturbed is approximately 1.3 acres). According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors to the project site are multi-family residential dwelling units located approximately 40 feet to the west (north of El Centro Street and west of Diamond Avenue) and 180 feet to the southeast (east of Fairview Avenue and south of El Centro Street) of the project site; therefore, the SCAQMD 25-meter Look-up Tables were used. **Table 7, Local Construction Emissions at the Nearest Receptors,** shows the on-site emissions from the CalEEMod model for the different construction phases and the LST emissions thresholds. Other air quality sensitive land uses are located further from the project site and would experience lower impacts.

The data provided in Table 7 shows that none of the analyzed criteria pollutants would exceed the local emissions thresholds at the nearest sensitive receptors. Therefore, a less than significant local air quality impact would occur from construction of the proposed project.

Table 7
Local Construction Emissions at the Nearest Receptors

Activity	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Demolition	14.32	13.46	0.84	0.66
Site Preparation/Excavation	4.01	5.99	0.20	0.18

Building Construction	1.61	2.63	0.07	0.07
Architectural Coating	4.01	5.99	0.20	0.18
SCAQMD Thresholds[1]	**69**	**535**	**4**	**3**
Exceeds Threshold?	No	No	No	No

Notes:
(1) The nearest sensitive receptors to the site are: multi-family residential dwelling units located approximately 40 feet to the west (north of El Centro Street and west of Diamond Avenue) and 180 feet to the southeast (east of Fairview Avenue and south of El Centro Street) of the project site; therefore, the 25-meter threshold was used.
Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 1 acre, at a distance of 25 m in SRA 8 West San Gabriel Valley.

D. Construction-Related Toxic Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to the Office of Environmental Health Hazard Assessment (OEHHA) and the SCAQMD Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (August 2003), health effects from TACs are described in terms of individual cancer risk based on a lifetime (i.e., 30-year) resident exposure duration. Given the temporary and short-term construction schedule (approximately 21 months), the Project would not result in a long-term (i.e., lifetime or 30-year) exposure as a result of project construction. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds.

The project would comply with the CARB Air Toxics Control Measure that limits diesel powered equipment and vehicle idling to no more than 5 minutes at a location, and the CARB In-Use Off-Road Diesel Vehicle Regulation; compliance with these would minimize emissions of TACs during construction. Therefore, impacts from TACs during construction would be less than significant.

E. Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of short-term in nature and the odor emissions are expected to cease upon the drying or hardening of the odor producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

6. LONG-TERM OPERATIONAL EMISSIONS

The on-going operation of the proposed project would result in a long-term increase in air emissions. This increase would be due to emissions from the project-generated vehicle trips and through other

operational emissions from the on-going use of the proposed project. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality impacts with the on-going operations of the proposed project.

A. Operations-Related Regional Air Quality Impacts

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of the CalEEMod model. The project also includes the removal/reuse of 11,435 SF of existing office (school administrative building). The existing emissions were also calculated using the CalEEMod model and are reported in the table below. The operating emissions for the project were based on the year 2024, which is the anticipated opening year for the proposed project per the project-specific traffic analysis (Gibson, 2021). The existing emissions are based on year 2023, when construction is anticipated to begin. The operations daily emissions printouts from the CalEEMod model are provided in Appendix A. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

i) Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the existing use and the proposed project have been analyzed by inputting the project-generated trip generation data from the Transportation Study (TIA) for the 1020 El Centro Street Mixed-Use Development Project, prepared by Gibson Transportation Consulting, Inc. (October 2021) for the proposed project into the CalEEMod Model. The TIA showed that the project would generate 1,704 vehicle trips and the existing use (to be removed) would generate 94 vehicle trips, for a net total new project trips of 1,610. The trip generation estimates took into account the reductions for internal capture and transit/walk-in reduction. The CalEEMod program then applies the emission factors for each trip, which is provided by the EMFAC2017 model, to determine the vehicular traffic pollutant emissions.

ii) Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment. No changes were made to the default area source parameters.

iii) Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Table 8
Regional Operational Pollutant Emissions

Activity	Pollutant Emissions (tons/year)					
	ROG	**NOx**	**CO**	**SO2**	**PM10**	**PM2.5**
Area Sources[1]	2.66	1.72	9.62	0.01	0.18	0.18
Energy Usage[2]	0.13	1.12	0.82	0.01	0.09	0.09
Mobile Sources[3]	3.93	3.65	32.94	0.07	6.94	1.88
Subtotal Emissions	**6.72**	**6.49**	**43.38**	**0.08**	**7.21**	**2.15**
Minus Existing Uses[4]	*-0.54*	*-0.32*	*-2.85*	*-0.01*	*-0.64*	*-0.18*
Total Emissions	**6.18**	**6.16**	**40.53**	**0.08**	**6.56**	**1.97**
SCAQMD Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Notes:
(1) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.
(2) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.
(3) Mobile sources consist of emissions from vehicles and road dust.
(4) Minus the emissions from the removal/reuse of 11.435 TSF of office (school administration building).
Source: CalEEMod Version 2020.4.0. Daily Emissions (see Appendix A for daily emissions).

iv) Project Impacts

The worst-case summer or winter criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown in Table 8 above. Table 8 shows that even before the emissions from the existing uses were subtracted, none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

B. Operations-Related Local Air Quality Impacts

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations per SCAQMD LST methodology, and odor impacts.

i) Local CO Emission Impacts from Project-Related Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented above.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" potentially can occur at high traffic volume intersections with a Level of Service (LOS) E or worse.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: South Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The Los Angeles County Metropolitan Transportation Authority evaluated the Level of Service in the vicinity of the Wilshire Boulevard/Veteran Avenue intersection and found it to be Level of Service E during the morning peak hour and Level of Service F during the afternoon peak hour.

Gibson TIA showed that the project would generate a maximum of approximately 1,610 net vehicle trips. Table 7 of the TIA also showed that none of the intersections analyzed for the future with project conditions scenario would have less than LOS C. Therefore, as the future with project conditions would not cause an intersection with LOS E or worse, no CO "hot spot" modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

i) Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The nearest sensitive receptors to the project site are: multi-family residential dwelling units located approximately 40 feet to the west (north of El Centro Street and west of Diamond Avenue) and 180 feet to the southeast (east of Fairview Avenue and south of El Centro Street) of the project site.

According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources, or attracts mobile sources (such as heavy-duty trucks) that may spend long periods queuing and idling at the site; such as industrial warehouse/transfer facilities. The proposed project consists of a mixed-uses (residential and retail/commercial), and does not include such uses. Therefore, due the lack of stationary source emissions, no long-term localized significance threshold analysis is warranted.

C. Operations-Related Odor Impacts

Potential sources that may emit odors during the on-going operations of the proposed project would include odor emissions from the intermittent diesel delivery truck emissions and trash storage areas. Due to the distance of the nearest receptors from the project site and through compliance with SCAQMD's Rule 402 no significant impact related to odors would occur during the on-going operations of the proposed project.

7. CUMULATIVE AIR QUALITY IMPACTS

There are a number of cumulative projects in the project area that have not yet been built or are currently under construction. Since the timing or sequencing of the cumulative projects is unknown, any quantitative analysis to ascertain daily construction emissions that assumes multiple, concurrent construction projects would be speculative. Further, cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. The SCAQMD recommends using two different methodologies: (1) that project-specific air quality impacts be used to determine the potential cumulative

impacts to regional air quality;[9] and (2) that a project's consistency with the current AQMP be used to determine its potential cumulative impacts.

A. Project Specific Impacts

The project area is out of attainment for ozone and in 2019 was out of attainment for PM10, as indicated in Table 3. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air quality will be the incremental addition of pollutants mainly from increased traffic volumes from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or state non-attainment pollutant. As stated previously, the Air Basin is currently in non-attainment for ozone, PM10, and PM2.5.

The project would result in the emission of criteria pollutants for which the region is in nonattainment during both construction and operation. The emissions from construction of the project are not predicted to exceed any applicable SCAQMD regional or local impact threshold and therefore, are not expected to result in ground level concentrations that exceed the NAAQS or CAAQS. Therefore, the project would not result in a cumulatively considerable net increase for non-attainment pollutants or ozone precursors and would result in a less than significant impact for construction emissions.

Project operations would generate emissions of NOx, ROG, CO, PM10, and PM2.5, which would not exceed the SCAQMD regional or local thresholds and would not be expected to result in ground level concentrations that exceed the NAAQS or CAAQS. Since the project would not introduce any substantial stationary sources of emissions, CO is the benchmark pollutant for assessing local area air quality impacts from post-construction motor vehicle operations. As indicated earlier, no violations of the state and federal CO standards are projected to occur for the project, based on the magnitude of traffic the project is anticipated to create. Therefore, operation of the project would not result in a cumulatively considerable net increase for non-attainment of criteria pollutants or ozone precursors. As a result, the project would result in a less than significant cumulative impact for operational emissions.

[9] *South Coast Air Quality Management District, Potential Control Strategies to Address Cumulative Impacts from Air Pollution White Paper, 1993, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.*

B. Air Quality Compliance

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP". Strict consistency with all aspects of the plan is usually not required. A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

(1) Whether the project will result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.

(2) Whether the project will exceed the assumptions in the AQMP in 2016 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated below.

i) Air Quality Compliance Analysis

a) Criteria 1 – Increase in the Frequency or Severity of Violations

Based on the air quality modeling analysis contained in this Air Quality Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that long-term operations impacts will not result in significant impacts based on the SCAQMD local and regional thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

b) Criteria 2 – Exceed Assumptions in the AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to ensure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2016-2040 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2016) includes chapters on: the challenges in a changing region, creating a plan for our future, and the road to greater mobility and sustainable growth. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA.

On September 3, 2020, SCAG's Regional Council adopted the 2020-2045 RTP/SCS. The 2020-2045 RTP/SCS was determined to conform to the federally-mandated state implementation plan (SIP), for the attainment and maintenance of NAAQS standards. On October 30, 2020, CARB also accepted SCAG's determination that the SCS met the applicable state greenhouse gas emissions targets. The 2020-2045 RTP/SCS will be incorporated into the forthcoming 2022 AQMP. However, the 2016 RTP/SCS is used herein as that document was the basis of the analysis within the current (2016) AQMP.

For this project, the City of South Pasadena General Plan defines the assumptions that are represented in the AQMP.

The Project Site has a City of South Pasadena General Plan land use designation and zoning designation of Mission Street Specific Plan (MSSP). The South Pasadena Municipal Code establishes the MSSP as a Special Purpose Zoning District. MSSP allows for the development of pedestrian-oriented, retail and service uses. The Project would involve demolition of the existing surface parking lot and construction of an approximately 96,252 square-foot, four story mixed-use building with a maximum height of 50 feet. The mixed-use building would include the development of approximately 108 residential units (74,220 square foot of residential area) and approximately 22,032 square feet of ground floor commercial space including the existing school district building. Of the 108 residential units, a total of 19 residential units would be moderate income residential units. The Project proposes approximately 274 vehicular parking spaces in two subterranean levels, with access from Fairview Avenue.[10] Therefore, the proposed project is consistent with the existing zoning/land use, would not exceed the AQMP assumptions for the project site, and is found to be consistent with the AQMP for the second criterion.

[10] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. As the original analysis was based on a larger project, the original analysis is more conservative and considered to be worst-case.

Based on the above, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

III. GLOBAL CLIMATE CHANGE ANALYSIS

1. EXISTING GREENHOUSE GAS ENVIRONMENT

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these GHGs in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO_2 and nitrous oxide (NOx) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2, where CO_2 is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

A. Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop". The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

B. Carbon Dioxide (CO_2)

The natural production and absorption of CO_2 is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid-1700s. Each of these activities has increased in scale and distribution. CO_2 was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC Fifth Assessment Report, 2014) shows that emissions of CO_2 from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important drivers of increases in CO_2 emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

C. Nitrous Oxide (N_2O)

Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

D. Hydrofluorocarbons (HFC)

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CF_3CH_2F), and HFC-152a (CH_3CHF_2). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

E. Perfluorocarbons (PFC)

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). Concentrations of CF_4 in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

F. Sulfur Hexafluoride (SF_6)

SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 has the highest global warming potential of any gas evaluated; 23,900 times that of CO_2. Concentrations in the 1990s where about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

G. Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

H. Global Warming Potential

The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of CO_2. The larger the GWP, the more that a given gas warms the Earth compared to CO_2 over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in **Table 9, Global Warming Potentials and Atmospheric Lifetimes**. As shown in **Table 9,** the global warming potential of GHGs ranges from 1 to 22,800.

Table 9
Global Warming Potentials and Atmospheric Lifetimes

Gas	Atmospheric Lifetime	Global Warming Potential[1] (100 Year Horizon)
Carbon Dioxide (CO_2)	—[2]	1
Methane (CH_4)	12	28-36
Nitrous Oxide (NO)	114	298
Hydrofluorocarbons (HFCs)	1-270	12-14,800
Perfluorocarbons (PFCs)	2,600-50,000	7,390-12,200
Nitrogen trifluoride (NF_3)	740	17,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

Notes:
(1) Compared to the same quantity of CO_2 emissions.
(2) Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean–atmosphere–land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html

2. GREENHOUSE GAS STANDARDS AND REGULATION

A. International

i) Montreal Protocol

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

ii) The Paris Agreement

The Paris Agreement became effective on November 4, 2016. Thirty days after this date at least 55 Parties to the United Nations Framework Convention on Climate Change (Convention), accounting in total for at

least an estimated 55 % of the total global greenhouse gas emissions, had deposited their instruments of ratification, acceptance, approval, or accession with the Depositary.

The Paris Agreement built upon the Convention and – for the first time – attempted to bring all nations into a common cause to undertake ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement's central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. Additionally, the agreement aims to strengthen the ability of countries to deal with the impacts of climate change. To reach these ambitious goals, appropriate financial flows, a new technology framework and an enhanced capacity building framework will be put in place, thus supporting action by developing countries and the most vulnerable countries, in line with their own national objectives. The Agreement also provides for enhanced transparency of action and support through a more robust transparency framework. Although the Trump administration withdrew the United States federal government from the Paris Agreement on November 4, 2020, the current administration reversed course and the federal government rejoined the Paris Agreement on January 20, 2021.

B. Federal

The United States Environmental Protection Agency (USEPA) is responsible for implementing federal policy to address GHGs. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated in the United States. These programs focus on energy efficiency, renewable energy, methane and other non-CO_2 gases, agricultural practices, and implementation of technologies to achieve GHG reductions. The USEPA implements numerous voluntary programs that contribute to the reduction of GHG emissions. These programs (e.g., the ENERGY STAR labeling system for energy-efficient products) play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the USEPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO_2 and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large

sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

i) Clean Air Act

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), the U.S. Supreme Court held in April of 2007 that the USEPA has statutory authority under Section 202 of the federal CAA to regulate GHGs. The court did not hold that the USEPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. On December 7, 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA. The USEPA adopted a Final Endangerment Finding for the six defined GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) on December 7, 2009. The Endangerment Finding is required before USEPA can regulate GHG emissions under Section 202(a)(1) of the CAA consistently with the United States Supreme Court decision. The USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

ii) Energy Independence Security Act

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022;

- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances;
- Requiring approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200 percent greater efficiency for light bulbs, or similar energy savings, by 2020; and
- While superseded by the USEPA and NHTSA actions described above, (i) establishing miles per gallon targets for cars and light trucks and (ii) directing the NHTSA to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for trucks.

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.[8]

iii) Executive Order 13432

In response to the Massachusetts v. Environmental Protection Agency ruling, the President signed Executive Order 13432 on May 14, 2007, directing the USEPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision. Executive Order 13432 was codified into law by the 2009 Omnibus Appropriations Law signed on February 17, 2009. The order sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reductions, recycling, sustainable buildings, electronics stewardship, fleets, and water conservation. Light-Duty Vehicle Greenhouse Gas and Corporate Average Fuel Economy Standards.

On May 19, 2009, President Obama announced a national policy for fuel efficiency and emissions standards in the United States auto industry. The adopted federal standard applies to passenger cars and light-duty trucks for model years 2012 through 2016. The rule surpasses the prior Corporate Average Fuel Economy standards (CAFE)[9] and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO2 per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg

[8] *A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.*

[9] *The Corporate Average Fuel Economy standards are regulations in the United States, first enacted by Congress in 1975, to improve the average fuel economy of cars and light trucks. The U.S Department of Transportation has delegated the National Highway Traffic Safety Administration as the regulatory agency for the Corporate Average Fuel Economy standards.*

(if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO_2 per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.[10] In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

In August 2018, the USEPA and NHTSA proposed the Safer Affordable Fuel-Efficient Vehicles Rule that would, if adopted, maintain the CAFE and CO_2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO_2 standards for model year 2020 are 43.7 mpg and 204 grams of CO_2 per mile for passenger cars and 31.3 mpg and 284 grams of CO_2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. The proposal, if adopted, would also exclude CO_2- equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.[11]

On May 12, 2021, the National Highway Traffic Safety Administration (NHTSA) published a notice of proposed rulemaking in the Federal Register, proposing to repeal "The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program," published Sept. 27, 2019 (SAFE I Rule), in which NHTSA codified regulatory text and made additional pronouncements regarding the preemption of state and local laws related to fuel economy standards. Specifically, this document proposes to fully repeal the regulatory text and appendices promulgated in the SAFE I Rule.[12] In addition, this document proposes to repeal and withdraw the interpretative statements made by the Agency in the SAFE I Rule preamble, including those regarding the preemption of particular state Greenhouse Gas (GHG) Emissions standards or Zero Emissions Vehicle (ZEV) mandates. As such, this document proposes to establish a clean slate with respect to NHTSA's regulations and interpretations concerning preemption under the Energy Policy and Conservation Act (EPCA).[13]

[10] *United States Environmental Protection Agency, EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks, August 2012, https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EZ7C.PDF?Dockey=P100EZ7C.PDF.*

[11] *National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf.*

[12] *Federal Register, Vol. 86, No. 90, Wednesday, May 12, 2021, Proposed Rules https://www.govinfo.gov/content/pkg/FR-2021-05-12/pdf/2021-08758.pdf*

[13] *https://www.federalregister.gov/documents/2021/05/12/2021-08758/corporate-average-fuel-economy-cafe-preemption*

C. State of California

i) California Air Resources Board

CARB, a part of the California Environmental Protection Agency (CalEPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, CARB conducts research, sets state ambient air quality standards (California Ambient Air Quality Standards [CAAQS]), compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2004, the CARB adopted an Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other toxic air contaminants (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure generally does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While this measure primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

In 2008, CARB approved the Truck and Bus regulation to reduce particulate matter and nitrogen oxide emissions from existing diesel vehicles operating in California (13 CCR, Section 2025, subsection (h)). CARB has also promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes, and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation, adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. While these regulations primarily target reductions in criteria air pollutant emission, they have co-benefits of minimizing GHG emissions due to improved engine efficiencies.

The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

ii) Assembly Bill 1493

California Assembly Bill (AB) 1493 enacted on July 22, 2002, required the CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB

submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO_2 and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009. EPA's recent withdrawal of the waiver was upheld by the Ninth Circuit on February 10, 2021. Per CARB, while the federal action is in effect, CARB will administer the zero-emission vehicle program on a voluntary basis. After adopting these initial greenhouse gas standards for passenger vehicles, CARB adopted continuing standards for future model years.

iii) Executive Order S-3-05

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- By 2010, California shall reduce GHG emissions to 2000 levels;
- By 2020, California shall reduce GHG emissions to 1990 levels; and
- By 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.

The Executive Order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

iv) Executive Order N-79-20

Executive Order N-79-20 Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

v) Assembly Bill 32 (California Health and Safety Code, Division 25.2. – California Global Warming Solutions Act of 2006

In 2006, the California State Legislature adopted AB 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6 and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020.

vi) Senate Bill 32 and Assembly Bill 197

In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown. SB 32 and AB 197 amends HSC Division 25.5 and establishes a new climate pollution reduction target of 40 percent below 1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

vii) Climate Change Scoping Plan (2008)

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (Health and Safety Code section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap. The initial Scoping Plan was approved in 2008, and contains a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 $MMTCO_2e$ using the GWP values from the IPCC Second Assessment Report (SAR). CARB also projected the state's 2020 GHG emissions under no-action-taken (NAT) conditions – that is, emissions that would occur without any plans, policies, or regulations to reduce GHG emissions. CARB originally used an average of the state's GHG emissions from 2002 through 2004 and projected the 2020 levels at approximately 596 $MMTCO_2e$ (using GWP values from the IPCC SAR). Therefore, under the original projections, the state must reduce its 2020 NAT emissions by 28.4 percent in order to meet the 1990 target of 427 $MMTCO_2e$.

viii) First Update to the Climate Change Scoping Plan (2014)

The First Update to the Scoping Plan was approved by CARB in May 2014 and builds upon the initial Scoping Plan with new strategies and recommendations. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 $MMTCO_2e$. CARB also updated the State's 2020 NAT emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy. CARB's projected statewide 2020 emissions estimate using the GWP values from the IPCC AR4 is 509.4 $MMTCO_2e$.

ix) 2017 Climate Change Scoping Plan

In response to the 2030 GHG reduction target, CARB adopted the 2017 Climate Change Scoping Plan at a public meeting held in December 2017. The 2017 Scoping Plan outlines the strategies the State will implement to achieve the 2030 GHG reduction target of 40 percent below 1990 levels. The 2017 Scoping Plan also addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The 2017 Scoping Plan considered the Scoping Plan Scenario and four alternatives for achieving the required GHG reductions but ultimately selected the Scoping Plan Scenario.

CARB states that the Scoping Plan Scenario "is the best choice to achieve the State's climate and clean air goals." [14] Under the Scoping Plan Scenario, the majority of the reductions would result from the continuation of the Cap-and-Trade regulation. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply at least 50 percent renewable electricity by 2030), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived GHG strategy (e.g., hydrofluorocarbons), and implementing the mobile source strategy and sustainable freight action plan. The alternatives were designed to consider various combinations of these programs, as well as consideration of a carbon tax in the event the Cap-and-Trade regulation is not continued. However, in July 2017, the California Legislature voted to extend the Cap-and-Trade regulation to 2030. Implementing this Scoping Plan will ensure that California's climate actions continue to promote innovation, drive the generation of new jobs, and achieve continued reductions of smog and air toxics. The ambitious approach draws on a decade of successful programs that address the major sources of climate-changing gases in every sector of the economy:

[14] *California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf*

- More Clean Cars and Trucks: The plan sets out far-reaching programs to incentivize the sale of millions of zero-emission vehicles, drive the deployment of zero-emission trucks, and shift to a cleaner system of handling freight statewide.
- Increased Renewable Energy: California's electric utilities are ahead of schedule meeting the requirement that 33 percent of electricity come from renewable sources by 2020. The Scoping Plan guides utilities to 50 percent renewables, as required under SB 350.
- Slashing Super-Pollutants: The plan calls for a significant cut in super-pollutants such as methane and HFC refrigerants, which are responsible for as much as 40 percent of global warming.
- Cleaner Industry and Electricity: California's renewed cap-and-trade program extends the declining cap on emissions from utilities and industries and the carbon allowance auctions. The auctions will continue to fund investments in clean energy and efficiency, particularly in disadvantaged communities.
- Cleaner Fuels: The Low Carbon Fuel Standard will drive further development of cleaner, renewable transportation fuels to replace fossil fuels.
- Smart Community Planning: Local communities will continue developing plans which will further link transportation and housing policies to create sustainable communities.
- Improved Agriculture and Forests: The Scoping Plan also outlines innovative programs to account for and reduce emissions from agriculture, as well as forests and other natural lands.

The 2017 Scoping Plan also evaluates reductions of smog-causing pollutants through California's climate programs.

x) Senate Bill 32, California Global Warming Solutions Act 2006

(1) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.

(2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which directs implementation of emission-reduction programs, should target direct reductions

at both stationary and mobile sources. AB 197 of the 2015-2016 Regular Session was approved on September 8, 2016.

xi) Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs the CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009, the CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

xii) Senate Bill 97

SB 97 was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to the CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009, the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010, and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies, or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that "to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation".
- OPR's emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

xiii) Senate Bill 100

Senate Bill 100 (SB 100) requires 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. SB 100 was adopted September 2018.

The interim thresholds from prior Senate Bills and Executive Orders would also remain in effect. These include Senate Bill 1078 (SB 1078), which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) which changed the target date to 2010. Executive Order S-14-08, which was signed on November 2008 and expanded the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed the CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

xiv) Senate Bill 375

Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). The CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. The CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by the CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

xv) Senate Bill X7-7

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition, SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

xvi) Assembly Bill 939 and Senate Bill 1374

Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling, or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004, suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

xvii) California Code of Regulations (CCR) Title 24, Part 6

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling defaults to 2008 standards. 2013 Standards were approved and have been effective since July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020.

Section 120.1 Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times. The 2019 version of the Code also completely revised the minimum ventilation requirements including DVC airflow rates within Section 120.1 Table 120.1–A. Table 120.1-A now includes air classification and recirculation limitations, these are based on either the number of occupants or the CFM/ft^2 (cubic feet per minute per square foot), whichever is greater.

Section 120.6 Covered Processes added information in regards to adiabatic chiller requirements that included that all condenser fans for air-cooled converseness, evaporative-cooled condensers, adiabatic condensers, gas coolers, air or water fluid coolers or cooling towers must be continuously variable speed,

with the speed of all fans serving a common condenser high side controlled in unison .Further, the mid-condensing setpoint must be 70 degrees Fahrenheit for all of the above mentioned systems.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regards to sunlight provided through skylights and overhangs.

Section 130.2 Outdoor Lighting Controls and Equipment added automatic scheduling controls which included that outdoor lighting power must be reduced by 50 to 90 percent, turn the lighting off during unoccupied times and have at least two scheduling options for each luminaire independent from each other and with a 2-hour override function. Furthermore, motion sensing controls must have the ability to reduce power within 15 minutes of area being vacant and be able to come back on again when occupied. An exception allows for lighting subject to a health or life safety statute, ordinance, or regulation may have a minimum time-out period longer than 15 minutes or a minimum dimming level above 50 percent when necessary to comply with the applicable law.

xviii) California Code of Regulations Title 24, Part 11

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. 2013 Standards were approved and were effective July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020.

All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are

estimated to be approximately 30 percent more efficient than the 2016 standards[15]. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

xix) California Green Building Standards

2019 CALGreen Code: During the 2019-2020 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2018 Triennial Code Adoption Cycle. The 2019 CALGreen code built upon the 2016 code.

a) 2016

In 2016 HCD adopted three new definitions related to electric vehicle charging regulations. These definitions provided clarity to the code user as to the differences between an electric vehicle charging space and an electric vehicle charging station. HCD replaced the term "electric vehicle charging stations" with "electric vehicle charging spaces" since the term "electric vehicle charging space" better describes a space available for future installation of electric vehicle supply equipment, but with no electric vehicle charger installed.

HCD also increased the required construction waste reduction from 50 percent to 65 percent of the total building site waste. This increase aids in meeting CalRecycle's statewide solid waste recycling goal of 75 percent for 2020 as stated in Chapter 476, Statutes of 2011 (AB 341). HCD adopted new regulations requiring recycling areas for multifamily projects of five or more dwelling units. This regulation requires developers to provide readily accessible areas adequate in size to accommodate containers for depositing, storage and collection of non-hazardous materials (including organic waste) for recycling. This requirement assists businesses that were required as of April 1, 2016, to meet the requirements of Chapter 727, Statutes of 2014 (AB 1826).

HCD adopted new regulations to require information on photovoltaic systems and electric vehicle chargers to be included in operation and maintenance manuals. Currently, CALGreen section 4.410.1 Item 2(a) requires operation and maintenance instructions for equipment and appliances. Photovoltaic systems and electric vehicle chargers are systems that play an important role in many households in California, and their importance is increasing every day. HCD incorporated these two terms in the existing language in order to provide clarity to code users as to additional systems requiring operation and maintenance instructions.

[15] *California Energy Commission, Efficiency Division, 2019 Building Energy Efficiency Standards, Frequently Asked Questions, website: https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf, accessed: December 11, 2020.*

HCD updated the reference to Clean Air Standards of the United States Environmental Protection Agency applicable to woodstoves and pellet stoves. HCD also adopted a new requirement for woodstoves and pellet stoves to have a permanent label indicating they are certified to meet the emission limits. This requirement provides clarity to the code user and is consistent with the United States Environmental Protection Agency's New Source Performance Standards. HCD updated the list of standards which can be used for verification of compliance for exterior grade composite wood products. This list now includes four standards from the Canadian Standards Association (CSA): CSA O121, CSA O151, CSA O153 and CSA O325. HCD updated heating and air-conditioning system design references to the ANSI/ACCA 2 Manual J, ANSI/ACCA 1 Manual D, and ANSI/ACCA 3 Manual S to the most recent versions approved by ANSI. HCD adopted a new elective measure for hot water recirculation systems for water conservation. The United States Department of Energy estimates that 3,600 to 12,000 gallons of water per year can be saved by the typical household (with four points of hot water use) if a hot water recirculation system is installed.

b) 2019

2019 CALGreen Code: During the 2019-2020 fiscal year, the HCD updated CALGreen through the 2019 Triennial Code Adoption Cycle.

HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regards to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regards to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regards to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regards to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

xx) Executive Order B-30-15

On April 29, 2015, Governor Brown issued Executive Order B-30-15. Therein, the Governor directed the following:

- Established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030.
- Ordered all state agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets.
- Directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

xxi) Executive Order B-29-15

Executive Order B-29-15, mandates a statewide 25 percent reduction in potable water usage. EO B-29-15 signed into law on April 1, 2015.

xxii) Executive Order B-37-16

Executive Order B-37-16, continuing the State's adopted water reductions, was signed into law on May 9, 2016. The water reductions build off the mandatory 25 percent reduction called for in EO B-29-15.

xxiii) Senate Bill X1 2

Signed into law in April 2011, Senate Bill (SB)X1 2, requires one-third of the State's electricity to come from renewable sources. The legislation increases California's current 20 percent renewables portfolio standard target in 2010 to a 33 percent renewables portfolio standard by December 31, 2020.

xxiv) Senate Bill 350

Signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions, and ramp up the deployment of clean energy resources.

xxv) Energy Sector and CEQA Guidelines Appendix F

The CEC first adopted Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR, Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the state. Although not originally intended to reduce GHG emissions, increased energy efficiency and reduced consumption of electricity, natural gas, and other fuels would result in fewer GHG emissions from residential and nonresidential buildings subject to the standard. The standards are updated periodically (typically every three years) to allow for the consideration and inclusion of new energy efficiency technologies and methods. The 2019 update to the Energy Efficiency Standards for Residential and Nonresidential Buildings focuses on several key areas to improve the energy efficiency of renovations and addition to existing buildings as well as newly constructed buildings and renovations and additions to existing buildings. The major efficiency improvements to the residential Standards involve improvements for attics, walls, water heating, and lighting, whereas the major efficiency improvements to the nonresidential Standards include alignment with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 90.1-2013 national standards. Furthermore, the 2019 update requires that enforcement agencies determine compliance with CCR, Title 24, Part 6 before issuing building permits for any construction.[16]

The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality."[17] As of January 1, 2011, the CALGreen Code is mandatory for all new buildings constructed in the state. The CALGreen Code

[16] *California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015, http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf*

[17] *California Building Standards Commission, 2010 California Green Building Standards Code, (2010).*

establishes mandatory measures for new residential and non-residential buildings. Such mandatory measures include energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2019 to include new mandatory measures for residential and nonresidential uses; the new measures took effect on January 1, 2020.

D. Regional – South Coast Air Quality Management District

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

i) SCAQMD Regulation XXVII, Climate Change

SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches, but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 $MTCO_2e$ per year would be less than significant; however, the CARB has not approved those thresholds and has not published anything since then. The SCAQMD is in the process of developing thresholds, as discussed below.

ii) SCAQMD Threshold Development

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration ("SCAQMD draft local agency threshold"); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
  - All land use types: 3,000 $MTCO_2e$ per year
  - Based on land use type: residential: 3,500 $MTCO_2e$ per year; commercial: 1,400 $MTCO_2e$ per year; or mixed use: 3,000 $MTCO_2e$ per year.
  - Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 $MTCO_2e$ per year.
- Tier 4 has the following options:
  - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
  - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 $MTCO_2e$/SP/year for projects and 6.6 $MTCO_2e$/SP/year for plans;
  - Option 3, 2035 target: 3.0 $MTCO_2e$/SP/year for projects and 4.1 $MTCO_2e$/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough

to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 $MMTCO_2eq$/year). In addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to best available control technology (BACT) for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

E. Local – City of South Pasadena

The City of South Pasadena adopted the South Pasadena 2020 Final Climate Action Plan (CAP) on December 16, 2020. The purpose of the CAP is to guide the City of South Pasadena towards reducing GHG emissions consistent with the targets set out by AB 32 and SB 32, as well as fulfill the requirements of the California Environmental Quality Act (CEQA Guidelines § 15183.5(b)). California AB 32 established a statewide target to reduce GHG emissions to 1990 levels by 2020 and SB 32 established a statewide target to reduce GHG emissions to 40 percent below 1990 levels by 2030.

If projects are consistent with the CAP, CEQA analysis can be streamlined by presuming that the project's emissions are not significant. The following GHG reduction targets were established by the City of South Pasadena to remain consistent with the state's 2030 (SB 32) goal and be in line with the reduction trajectory to achieve the state's long-term 2045 goal.

- Reduce GHG emissions to 2.9 $MTCO_2e$ per capita by 2030 (the SB 32 target year)
- Reduce GHG emissions to 0.0 $MTCO_2e$ per capita by 2045 (the EO B-55-18 target year).

Per Table 4 of the CAP, the year 2020 GHG emissions target is 4.8 $MTCO_2e$ per capita.

3. SIGNIFICANCE THRESHOLDS

A. Appendix G of State CEQA Guidelines

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;

- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions[18].

B. Thresholds of Significance for this Project

The methodology for evaluating the Project's impacts related to GHG emissions focuses on its consistency with the City's CAP. As the project will be operational in 2024, a year 2024 GHG emissions target of 4.0 $MTCO_2e$ per capita was calculated by interpolating the year 2020 GHG emissions target of 4.8 $MTCO_2e$ per capita and the year 2030 GHG emissions target of 2.9 $MTCO_2e$ per capita. As stated above, if projects are consistent with the CAP, CEQA analysis can be streamlined by presuming that the project's emissions are not significant. Therefore, if the project's emissions are less than the interpolated 2024 GHG emissions target of 4.0 $MTCO_2e$ per capita, the project's GHG emissions are less than significant and the project is in compliance with the City's CAP.

4. METHODOLOGY

CalEEMod Version 2020.4.0 was used to calculate the GHG emissions from the proposed project. This analysis quantifies the project's total annual GHG emissions, taking into account compliance with regulation and GHG emission reduction features that would be incorporated into the Project's design.

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions and the project impacts.

According to the CalEEMod Output (see Appendix B), based on CalEEMod defaults, the Project would add 309 residents to the Project site.[19] Using the calculation of approximately 500 SF per employee for commercial/retail uses,[20] it was estimated that the project would add approximately 53 employees, for a

[18] *The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.*

[19] Per CalEEMod Appendix A: Calculation Details, the population per dwelling unit is based on the statewide default or information supplied by individual air districts

[20] Source: *2018 Developer Fee Justification Study Los Angeles School District*. https://achieve.lausd.net/cms/lib/CA01000043/Centricity/Domain/921/LAUSD%20Dev%20Fee%20Study%202018%20FINAL.pdf. An average of 500 SF per employee was used as the type of commercial land use is unknown, and it reflects a conservative, approximate average between community shopping center (652 feet per employee), and

total per capita population of 362. The CalEEMod Annual Outputs for both the existing use (year 2023) to be removed and the project (year 2024) are available in Appendix B. Each source of GHG emissions is described in greater detail below.

A. Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. No changes were made to the default area source emissions.

B. Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No other changes were made to the default energy usage parameters.

C. Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the existing use and the proposed project have been analyzed by inputting the project-generated trip generation data from the Transportation Study (TIA) for the 1020 El Centro Street Mixed-Use Development Project, prepared by Gibson Transportation Consulting, Inc. (October, 2021) for the proposed project into the CalEEMod Model. The TIA showed that the project would generate 1,704 vehicle trips and the existing use (to be removed) would generate 94 vehicle trips, for a net total new project trips of 1,610. The trip generation estimates took into account the reductions for internal capture and transit/walk-in reduction.[21] See Section II for details. As the project will increase dwelling unit density, create jobs, and is located in downtown South Pasadena, the analysis also included California Air Pollution Control Officers Association (CAPCOA)-based reductions from measures LUT-1 – Increase density and LUT-4 – Improve Destination Accessibility. See CalEEMod Output for details.

neighborhood shopping centers (369 SF per employee). 500 SF per employee is also consistent with County of Riverside General Plan Socioeconomic Build-Out Projects Assumptions & Methodology, Appendix E, data for Commercial Retail (CR) Uses (source: Table E-5 https://planning.rctlma.org/Portals/14/genplan/general_Plan_2017/appendices/Appendix%20E-2_April%202017.pdf?ver=2017-10-23-153612-743)

[21] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. The traffic study was updated in December 2021 and revised again in April 2022. However, as the original analysis was based on a larger project, the original analysis using the original traffic data is more conservative and considered to be worst-case, as emissions would be over-estimated.

D. Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. AB 341 requires that 75 percent of waste be diverted from landfills by 2020. Reductions for this are shown in the mitigated CalEEMod output values and were incorporated into the analysis. No other changes were made to the default waste parameters.

E. Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. CALGreen requires a 20 percent reduction in indoor water use and water efficient irrigation systems, this regulation is shown in the mitigated CalEEMod output value and was incorporated into the analysis. No other changes were made to the default water usage parameters.

F. Sequestration

The analysis includes reduction of GHG emissions from the project design feature calling for the planting of approximately 80 new trees. The CAPCOA states that trees sequester CO_2 over 20 years of their life, after that, sequestration is nominal and outweighed by tree maintenance-related emissions. The total sequestration value given in the Annual CalEEMod output (see Appendix B) was divided by 20 years to yield an annual value, which was then subtracted from the project's emissions.

G. Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30-year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod using the methodology detailed above in *Section II, Air Quality Analysis*, of this technical report.

5. PROJECT GREENHOUSE GAS EMISSIONS

The GHG emissions have been calculated based on the parameters described above. A summary of both the existing use (to be removed) and the proposed project's emissions are shown in Table 10 below. Table 10, shows that the project's total net emissions (with incorporation of regulatory requirements) would be 1,228.61 $MTCO_2e$ per year, which would yield 3.39 $MTCO_2e$/capita.

Table 10
Project-Related Greenhouse Gas Emissions With Incorporation of Regulation

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO_2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Area Sources[1]	0.00	25.17	25.17	0.00	0.00	25.35
Energy Usage[2]	0.00	602.11	602.11	0.03	0.01	605.06
Mobile Sources[3]	0.00	640.90	640.90	0.03	0.01	653.57
Waste[4]	11.22	0.00	11.22	0.66	0.00	27.79
Water[5]	3.05	39.42	42.48	0.32	0.01	52.69
Construction[6]	0.00	25.09	25.09	0.00	0.00	25.55
Sequestration[7]	-	-	-	-	-	-2.83
Subtotal Emissions	14.27	1,332.69	1,346.96	1.05	0.02	1,387.17
Minus Existing Uses[8]	*-2.80*	*-148.72*	*-151.53*	*-0.20*	*-653.00*	*-158.57*
Total Net Emissions	11.46	1,183.97	1,195.43	0.84	-652.98	1,228.61
Per Capita Emissions ($MTCO_2e$/capita)						**3.39**
Year 2024 Interpolated South Pasadena CAP GHG emissions target ($MTCO_2e$/capita)[9]						**4.0**
Exceeds Threshold						**No**

Notes:
(1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.
(2) Energy usage consist of GHG emissions from electricity and natural gas usage.
(3) Mobile sources consist of GHG emissions from vehicles. Includes reductions from CAPCOA-based measures LUT-1 and LUT-4.
(4) Solid waste includes the CO_2 and CH_4 emissions created from the solid waste placed in landfills (75% reduction for compliance with AB341 applied).
(5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater (CalGreen standards applied).
(6) Construction GHG emissions CO_2e based on a 30-year amortization rate.
(7) Sequestration from the planting of approximately 80 new trees (56.64 $MTCO_2e$/20 [lifetime of tree sequestration = 20 years]).
(8) Minus the emissions from the adaptive reuse of 11.435 TSF of office (school administration building).
(9) City of South Pasadena GHG per capita emissions target of 4.0 $MTCO_2e$/capita for year 2024 obtained by interpolation using the 2020 4.8 $MTCO_2e$/capita target and the 2030 2.9 $MTCO_2e$/capita target.

Source: CalEEMod Version 2020.4.0 for Opening Year 2024 and year 2023 for existing uses (being removed).

6. CONSISTENCY WITH APPLICABLE GREENHOUSE GAS REDUCTION PLANS AND POLICIES

The proposed project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

As stated above, if projects are consistent with the CAP, CEQA analysis can be streamlined by presuming that the project's emissions are not significant. The following GHG reduction targets were established by

the City of South Pasadena to remain consistent with the state's 2030 (SB 32) goal and be in line with the reduction trajectory to achieve the state's long-term 2045 goal.

- Reduce GHG emissions to 2.9 $MTCO_2e$ per capita by 2030 (the SB 32 target year)
- Reduce GHG emissions to 0.0 $MTCO_2e$ per capita by 2045 (the EO B-55-18 target year).

Per Table 4 of the CAP, the year 2020 GHG emissions target is 4.8 $MTCO_2e$ per capita.

As the project will be operational in 2024, an interpolated year 2024 GHG emissions target of 4.0 $MTCO_2e$ per capita was used. As shown above in Table 10, the project emissions (with incorporation of regulation) were 3.39 $MTCO_2e$/capita. Therefore, as the Project's emissions do not exceed the CAP's GHG reduction targets, the Project is consistent with the CAP and the project will not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

7. CUMULATIVE GREENHOUSE GAS IMPACTS

Although the project is expected to emit GHGs, the emission of GHGs by a single project into the atmosphere is not itself necessarily an adverse environmental effect. Rather, it is the increased accumulation of GHG from more than one project and many sources in the atmosphere that may result in global climate change. Therefore, in the case of global climate change, the proximity of the project to other GHG emission generating activities is not directly relevant to the determination of a cumulative impact because climate change is a global condition. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective."[22] The resultant consequences of that climate change can cause adverse environmental effects. A project's GHG emissions typically would be very small in comparison to state or global GHG emissions and, consequently, they would, in isolation, have no significant direct impact on climate change.

The state has mandated a goal of reducing statewide emissions to 1990 levels by 2020, even though statewide population and commerce are predicted to continue to expand. In order to achieve this goal, CARB is in the process of establishing and implementing regulations to reduce statewide GHG emissions.

As discussed in the Consistency With Applicable Greenhouse Gas Reduction Plans and Policies section above, the project is consistent with the goals and objectives of the City's CAP. Therefore, the project's incremental contribution to greenhouse gas emissions and their effects on climate change would not be cumulatively considerable.

[22] *Source: California Air Pollution Control Officers Association, CEQA & Climate change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act, (2008).*

IV. ENERGY ANALYSIS

1. EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the project area and region.

A. Overview

California's estimated annual energy use as of 2020 included:

- Approximately 272,576 gigawatt hours of electricity;[21]
- Approximately 2,074,302 million cubic feet of natural gas per year[22]; and
- Approximately 23.2 billion gallons of transportation fuel (for the year 2015).[23]

As of 2019, the year of most recent data currently available by the United States Energy Information Administration (EIA), energy use in California by demand sector was:

- Approximately 39.3 percent transportation;
- Approximately 23.2 percent industrial;
- Approximately 18.7 percent residential; and
- Approximately 18.9 percent commercial.[24]

California's electricity in-state generation system generates approximately 190,913 gigawatt-hours each year. In 2020, California produced approximately 70 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 15 percent) and the U.S. Southwest (approximately 15 percent). Natural gas is the main source for electricity generation at approximately 48.34 percent of the total in-state electric generation system power as shown in Table 11.

A summary of and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below:

---

[21] *California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2021. https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation.*

[22] *Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] October 18, 2021. https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm.*

[23] *California Energy Commission. Revised Transportation Energy Demand Forecast 2018-2030. [Online] April 19, 2018. https://www.energy.ca.gov/assessments/*

[24] *U.S. Energy Information Administration. California Energy Consumption by End-Use Sector. California State Profile and Energy Estimates.[Online] January 16, 2020 https://www.eia.gov/state/?sid=CA#tabs-2*

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation's jet fuel consumption in 2018.
- California's total energy consumption is the second-highest in the nation, but, in 2018, the State's per capita energy consumption ranked the fourth-lowest, due in part to its mild climate and its energy efficiency programs.
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.
- In 2018, large- and small-scale solar PV and solar thermal installations provided 19% of California's net electricity generation[25].

As indicated above, California is one of the nation's leading energy-producing states, and California per capita energy use is among the nation's most efficient. Given the nature of the proposed project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity and natural gas for building uses, and transportation fuel for vehicle trips associated with the proposed project.

Table 11
Total Electricity System Power (California 2020)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total California Energy Mix (GWh)	Total California Power Mix
Coal	317	0.17%	194	6,963	7,474	2.74%
Natural Gas	92,298	48.35%	70	8,654	101,022	37.06%
Nuclear	16,280	8.53%	672	8,481	25,434	9.33%
Oil	30	0.02%	-	-	30	0.01%
Other (Petroleum Coke/Waste Heat)	384	0.20%	125	9	518	0.19%
Large Hydro	17,938	9.40%	14,078	1,259	33,275	12.21%
Unspecified Sources of Power	-	0.00%	12,870	1,745	14,615	5.36%
Renewables	63,665	33.35%	13,184	13,359	90,208	33.09%
Biomass	5,680	2.97%	975	25	6,679	2.45%
Geothermal	11,345	5.94%	166	1,825	13,336	4.89%
Small Hydro	3,476	1.82%	320	2	3,798	1.39%
Solar	29,456	15.43%	284	6,312	36,052	13.23%

[25] *State Profile and Energy Estimates. Independent Statistics and Analysis. [Online] [Cited: January 16, 2020.] http://www.eia.gov/state/?sid=CA#tabs2.*

Table 11
Total Electricity System Power (California 2020)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total California Energy Mix (GWh)	Total California Power Mix
Wind	13,708	7.18%	11,438	5,197	30,343	11.13%
Total	190,913	100%	41,193	40,471	272,576	100%

Source: California Energy Commission. 2020 Total System electric Generation. https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation

B. Electricity

Electricity would be provided to the project by Clean Power Alliance (CPA). In 2019, 10 member communities launched Clean Power Alliance service to their residents and businesses with 100% Green Power as the default rate option for customers. In 2021, that number grew from 12 to 15. In October, 2022, Clean Power Alliance had 18 member agencies receiving completely renewable power when CPA customers in Unincorporated Los Angeles County, Beverly Hills and Redondo Beach default to 100% Green Power.[26] CPA derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms.

Table 12 identifies CPA's specific proportional shares of electricity sources in 2020. As shown in Table 12, the 2020 CPA Power Mix has renewable energy at 29.6 percent of the overall energy resources, of which biomass and waste is at 7.8 percent, geothermal is at 01 percent, small hydroelectric is at 0 percent, solar energy is at 7.9 percent, and wind power is at 13.9 percent; other energy sources include coal at 39.6 percent, large hydroelectric at 4.9 percent, natural gas at 9.8 percent, nuclear at 8.5 percent and unspecified sources at 7.4 percent.

Table 12
2020 CPA CA Power Content Mix

Energy Resources	2020 CA Power Mix
Eligible Renewable	33.1%
Biomass & Waste	2.5%
Geothermal	4.9%
Eligible Hydroelectric	1.4%
Solar	13.2%
Wind	11.1%
Coal	2.7%
Large Hydroelectric	12.2%
Natural Gas	37.1%

[26] *CPA Clean Power Alliance, About Us, website: https://cleanpoweralliance.org/about-us/*

Table 12
2020 CPA CA Power Content Mix

Energy Resources	2020 CA Power Mix
Nuclear	9.3%
Other	0.2%
Unspecified Sources of power*	5.4%
Total	100%

Notes:
** Unspecified sources of power means electricity from transactions that are not traceable to specific generation sources.*

Source: https://cleanpoweralliance.org/power-sources/

C. Natural Gas

Natural gas would be provided to the project by Southern California Gas (SoCalGas). The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

The CPUC regulates natural gas utility service for approximately 11 million customers that receive natural gas from Pacific Gas and Electric (PG&E), SoCalGas, San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller investor-owned natural gas utilities. The CPUC also regulates independent storage operators Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage.

The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65 percent of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35 percent.

The CPUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering, and billing.

Most of the natural gas used in California comes from out-of-state natural gas basins. In 2017, for example, California utility customers received 38 percent of their natural gas supply from basins located in the U.S. Southwest, 27 percent from Canada, 27 percent from the U.S. Rocky Mountain area, and 8 percent from production located in California."[27]

[27] *California Public Utilities Commission. Natural Gas and California. http://www.cpuc.ca.gov/natural_gas/*

D. Transportation Energy Resources

The project would attract additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. Gasoline (and other vehicle fuels) are commercially-provided commodities and would be available to the project patrons and employees via commercial outlets.

The most recent data available shows the transportation sector emits 41 percent of the total greenhouse gases in the state (2017)[28] and about 84 percent of smog-forming oxides of nitrogen (NOx) (2016).[29] In 2019, petroleum products accounted for about 91 percent of the total U.S. transportation sector energy use.[30]

2. REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the PUC, and the California Energy Commissions (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

A. Federal Regulations

i) Corporate Average Fuel Economy (CAFE) Standards

First established by the U.S. Congress in 1975, the CAFE standards reduce energy consumption by increasing the fuel economy of cars and light trucks. The NHTSA and USEPA jointly administer the CAFE standards. The U.S. Congress has specified that CAFE standards must be set at the "maximum feasible level" with consideration given for: (1) technological feasibility; (2) economic practicality; (3) effect of other standards on fuel economy; and (4) need for the nation to conserve energy.[31]

[28] *California Air Resources Board (CARB), 2019 Edition, California Greenhouse Gas Emission Inventory: 2000 – 2017, website: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2017/ghg_inventory_trends_00-17.pdf accessed September 2020.*

[29] *CARB, 2016 SIP Emission Projection Data, website: https://www.arb.ca.gov/app/emsinv/2017/emseic1_query.php?F_DIV=-4&F_YR=2012&F_SEASON=A&SP=SIP105ADJ&F_AREA=CA accessed September 2020.*

[30] *US Energy Information Administration, Use of Energy in the United States Explained: Energy Use for Transportation, website: https://www.eia.gov/energyexplained/?page=us_energy_transportation accessed September 2020.*

[31] *United States Department of Transportation, National Highway Traffic Safety Administration, Laws and Regulations, Corporate Average Fuel Economy, website: https://www.nhtsa.gov/laws-regulations/corporate-average-fuel-economy.*

ii) Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

iii) The Transportation Equity Act of the 21st Century (TEA-21)

The Transportation Equity Act for the 21st Century (TEA-21) was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

B. State Regulations

i) Integrated Energy Policy Report (IEPR)

Senate Bill 1389 requires the California Energy Commission (CEC) to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the State's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety. The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The recently-approved 2017 Integrated Energy Policy Report Updated (2017 IEPR) was published in April 2018, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2016 IEPR focuses on a variety of topics such as implementation of Senate Bill 350, integrated resource planning, distributed energy resources, transportation electrification, solutions to increase resiliency in the electricity sector, energy efficiency, transportation electrification, 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 Senate Bill 1383), updates on Southern California electricity reliability, natural gas outlook, and climate adaptation and resiliency.[32]

ii) State of California Energy Plan

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. 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 and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access.

iii) California Building Standards Code (Title 24)

The California Building Standards Code Title 24 was previously discussed in Section II Air Quality Analysis of this report.

iv) Senate Bill 350

As previously discussed in Section III of this report, Senate Bill 350 (SB 350) was signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions, and ramp up the deployment of clean energy resources.

v) Assembly Bill 32

As discussed in Section III of this report, in 2006 the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall

[32] *California Energy Commission. Final 2017 Integrated Energy Policy Report. April 16, 2018. https://www.energy.ca.gov/2017_energypolicy/*

include carbon sequestration projects that would remove carbon from the atmosphere and best management practices that are technologically feasible and cost effective. Please see Section 4 for further detail on AB 32.

vi) Assembly Bill 1493/Pavley Regulations

As discussed in Section III of this report, California Assembly Bill 1493 enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO_2 and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009. EPA's recent withdrawal of the waiver was upheld by the Ninth Circuit on February 10, 2021. Per CARB, while the federal action is in effect, CARB will administer the zero-emission vehicle program on a voluntary basis. After adopting these initial greenhouse gas standards for passenger vehicles, CARB adopted continuing standards for future model years.

vii) Executive Order S-1-07/Low Carbon Fuel Standard

As discussed in Section III of this report, Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

viii) Executive Order N-79-20

Executive Order N-79-20 Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

ix) California Air Resources Board

a) CARB's Advanced Clean Cars Program

Closely associated with the Pavley regulations, the Advanced Clean Cars emissions control program was approved by CARB in 2012. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of zero-emission vehicles for model years 2015–2025.15 The components of the Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.[33]

[33] *California Air Resources Board, California's Advanced Clean Cars Program, January 18, 2017. www.arb.ca.gov/msprog/acc/acc.htm.*

b) Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling

The Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling (Title 13, California Code of Regulations, Division 3, Chapter 10, Section 2435) was adopted to reduce public exposure to diesel particulate matter and other air contaminants by limiting the idling of diesel-fueled commercial motor vehicles. This section applies to diesel-fueled commercial motor vehicles with gross vehicular weight ratings of greater than 10,000 pounds that are or must be licensed for operation on highways. Reducing idling of diesel-fueled commercial motor vehicles reduces the amount of petroleum-based fuel used by the vehicle.

c) Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and other Criteria Pollutants, form In-Use Heavy-Duty Diesel-Fueled Vehicles

The Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles (Title 13, California Code of Regulations, Division 3, Chapter 1, Section 2025) was adopted to reduce emissions of diesel particulate matter, oxides of nitrogen (NOX) and other criteria pollutants from in-use diesel-fueled vehicles. This regulation is phased, with full implementation by 2023. The regulation aims to reduce emissions by requiring the installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. The newer emission-controlled models would use petroleum-based fuel in a more efficient manner.

x) Senate Bill 375

The Sustainable Communities and Climate Protection Act of 2008, or SB 375, coordinates land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction mandates established in AB 32.

As previously stated in Section 3 of this report, SB 375 was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires MPOs to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with

reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. The 2016-2040 RTP/SCS states that the SCAG region is home to approximately 18.3 million people in 2012 and currently includes approximately 5.9 million homes and 7.4 million jobs. By 2040, the integrated growth forecast projects that these figures will increase by 3.8 million people, with nearly 1.5 million more homes and 2.4 million more jobs.

The SCAG region strives toward sustainability through integrated land use and transportation planning. The SCAG region must achieve specific federal air quality standards and is required by State law to lower regional GHG emissions. California law at the time required the region to reduce per capita GHG emissions in the SCAG region by eight percent by 2020—compared with 2005 levels—and by 13 percent by 2035. The strategies, programs, and projects outlined in the 2016-2040 RTP/SCS are projected to result in GHG emissions reductions in the SCAG region that meet or exceed these targets (i.e., the plan would reduce per capita transportation emissions by 8 percent by 2020, 18 percent by 2035, and 21 percent by 2040). Accordingly, CARB has accepted that the 2016-2040 RTP/SCS is expected to fulfill and exceed its portion of SB 375 compliance with respect to meeting the State's GHG emission reduction goals.

On September 3, 2020, SCAG approved and adopted the Connect SoCal 2020–2045 RTP/SCS. The RTP/SCS is currently pending certification by CARB that the RTP/SCS would meet statewide GHG reduction targets. Similar to the 2016-2040 RTP/SCS, the newly adopted 2020-2045 RTP/SCS encompasses and builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. The plan lays out a strategy for the region to meet CARB greenhouse gas reduction targets at eight percent below 2005 per capita emissions levels by 2020, and 19 percent below 2005 per capita emissions levels by 2035. In addition, the plan anticipates a 25.7 percent decrease in time spent in traffic delay per capita and a five percent decrease in daily miles driven per capita from 2016 to 2045.

For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

3. PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

A. Evaluation Criteria

In compliance with Appendix G of the State CEQA Guidelines, this report analyzes the project's anticipated energy use to determine if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In addition, Appendix F of the State CEQA Guidelines states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

B. Methodology

Information from the CalEEMod 2020.4.0 Daily and Annual Outputs contained in **Appendix A** and **B** of this technical report, utilized for air quality and greenhouse gas analyses in Sections II and III of this report, were also used for this analysis. The CalEEMod outputs detail project related construction equipment, transportation energy demands, and facility energy demands.

C. Construction Energy Demands

The proposed project is anticipated to start construction no sooner than March 2023 and be completed by 2025. Staging of construction vehicles and equipment will occur on-site. The approximately 21-month schedule is relatively short and the project site is relatively small at approximately 1.9 acres (including existing buildings).

i) Construction Equipment Electricity Usage Estimates

As stated previously, electrical service will be provided by CPA. The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed project. Based on the 2021 National Construction Estimator, Richard Pray (2021)[34], the typical power cost per 1,000 square feet of building construction per month is estimated to be $2.32. The project plans to develop the site with a total of 96.252 thousand square foot (TSF) of mixed residential/commercial uses. Based on **Table 13, Project Construction Power Cost and Electricity Usage,** the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately $4,790.46.

[34] *Pray, Richard. 2021 National Construction Estimator. Carlsbad : Craftsman Book Company, 2021.*

Table 13
Project Construction Power Cost and Electricity Usage

Power Cost (per 1,000 square foot of building per month of construction)	Total Building Size (1,000 Square Foot)	Construction Duration (months)	Total Project Construction Power Cost
$2.37	96.252	21	$4,790.46

Although Title 24 requirements typically apply to energy usage for buildings, construction equipment would also comply with Title 24 requirements, federal, and State regulations (as detailed above) where applicable. Therefore, construction of the Project would not result in the wasteful, inefficient, or unnecessary consumption of electricity. Accordingly, impacts would be less than significant and no mitigation measures would be required.

ii) Natural Gas

Construction activities, including the construction of new buildings and facilities, typically do not involve the consumption of natural gas. Thus, there would be no demand generated by construction. Therefore, construction of the Project would not result in the wasteful, inefficient, or unnecessary consumption of natural gas. Accordingly, impacts would be less than significant and no mitigation measures would be required.

iii) Construction Equipment Fuel Estimates

Fuel consumed by construction equipment would be the primary energy resource expended over the course of project construction. Fuel consumed by construction equipment was evaluated with the following assumptions:

- Construction schedule of 21 months
- All construction equipment was assumed to run on diesel fuel
- Typical daily use of 8 hours, with some equipment operating from ~6 hours
- Aggregate fuel consumption rate for all equipment was estimated at 18.5 horsepower hour per gallon (hp-hr/gal) (from CARB's 2017 Emissions Factors Tables and fuel consumption rate factors as shown in Table D-21 of the Moyer Guidelines: (https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf).
- Diesel fuel would be the responsibility of the equipment operators/contractors and would be sources within the region.
- Project construction represents a "single-event" for diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources during long term operation.

Using the CalEEMod data input for the air quality and greenhouse gas analyses (Sections II and IV of this report), the project's construction phase would consume electricity and fossil fuels as a single energy demand, that is, once construction is completed their use would cease. CARB's 2014 Emissions Factors Tables show that on average aggregate fuel consumption (gasoline and diesel fuel) would be approximately 18.5 hp-hr-gal. **Table 14, Construction Equipment Fuel Consumption Estimates,** shows the results of the analysis of construction equipment.

As presented in Table 14, project construction activities would consume an estimated 36,426 gallons of diesel fuel. As stated previously, project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

The Project would comply with CARB's anti-idling regulations as well as the In-Use Off-Road Diesel-Fueled Fleets regulation. Although these regulations are intended to reduce criteria pollutant emissions, compliance with the anti-idling and emissions regulations would also result in efficient use of construction-related energy. Therefore, construction of the Project would not result in the wasteful, inefficient, or unnecessary consumption of petroleum-based fuels. Accordingly, impacts would be less than significant and no mitigation measures would be required.

Table 14
Construction Equipment Fuel Consumption Estimates

Phase	Number of Days	Off Road Equipment Type	Quantity	Usage Hours	Horse Power	Load Factor	HP-hrs/ day	Total Fuel Consumption (gal diesel fuel)[1]
Demolition	20	Concrete Industrial Saw	1	8	81	0.73	473	511
	20	Rubber Tired Dozers	1	8	247	0.4	790	854
	20	Tractors/Loaders/ Backhoes	3	8	97	0.37	861	931
Site Preparation/ Excavation	150	Excavator	1	8	158	0.38	480	3894
	150	Dumpers/Tenders	2	8	16	0.38	97	789
	150	Tractors/Loaders/ Backhoes	1	8	97	0.37	287	2,328
Building Construction	290	Cranes	1	6	231	0.29	402	6,301
	290	Forklifts	1	6	89	0.2	107	1,674
	290	Generator Sets	1	8	84	0.74	497	7,795
	290	Tractors/Loaders/ Backhoes	1	6	97	0.37	215	3,376
	290	Welders	3	8	46	0.45	497	7,788
Architectural Coating	10	Aerial Lifts	1	6	63	0.31	117	63
	10	Air Compressors	1	6	78	0.48	225	121
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								**36,426**

Notes:
(1) Using Carl Moyer Guidelines Table D-21 Fuel consumption rate factors (bhp-hr/gal) for engines less than 750 hp.

Source: https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf

iv) Construction Worker Fuel Estimates

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated vehicle miles traveled (VMT), the construction worker trips would generate an estimated 601,083 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 model defaults.

Vehicle fuel efficiencies for construction workers were estimated in the air quality and greenhouse gas analyses (Sections II and III of this report) using information generated using CARB's EMFAC 2021 model for year 2023 emissions. An aggregate fuel efficiency of 28.21 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. **Table 15, Construction Worker Fuel Consumption Estimates,** shows that an estimated 21,307 gallons of fuel would be consumed for construction worker trips.

Table 15
Construction Worker Fuel Consumption Estimates

Phase	Number of Days	Worker Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	20	13	14.7	3,822	28.21	135
Site Preparation/ Excavation	150	10	14.7	22,050	28.21	782
Building Construction	290	134	14.7	571,242	28.21	20,250
Architectural Coating	10	27	14.7	3,969	28.21	141
Total Construction Worker VMT						**601,083**
Total Construction Worker Fuel Consumption						**21,307**

Notes:
(1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

v) Construction Vendor and Hauling Fuel Estimates

Table 16, Construction Vendor Fuel Consumption Estimates (MHD Trucks), and **Table 17, Construction Hauling Fuel Consumption Estimates (HHD Trucks),** show the estimated fuel consumption for vendor and hauling during building construction and architectural coating. With respect to estimated VMT, the vendor trips would generate an estimated 68,034 VMT and hauling trips would generate an estimated 94,320 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 model defaults.

Table 16
Construction Vendor Fuel Consumption Estimates (MHD Trucks)[1]

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	20	0	6.9	0	7.69	0.0
Site Preparation/ Excavation	150	0	6.9	0	7.69	0.0
Building Construction	290	34	6.9	68,034	7.69	8,847.1
Architectural Coating	10	0	6.9	0	7.69	0.0
Total Construction Worker Fuel Consumption						**8,847.1**

Notes:
(1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

For the architectural coatings it is assumed that the contractors would be responsible for bringing coatings and equipment with them in their light duty vehicles. Therefore, vendors delivering construction material would use medium with an average fuel consumption of 7.69 mpg and those hauling debris from the site during grading would use heavy duty vehicles with an average fuel economy of 5.97 mpg. Tables 16 and 17 show that an estimated 24,646.1 gallons of fuel would be consumed for vendor and hauling trips.

Table 17
Construction Hauling Fuel Consumption Estimates (HHD Trucks)[1]

Phase	Number of Days	Hauling Trips	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	20	38	20	760	5.97	127
Site Preparation/Excavation	150	4678	20	93,560	5.97	15,672
Building Construction	290	0	20	0	5.97	0
Architectural Coating	10	0	20	0	5.97	0
Total Construction Worker Fuel Consumption						**15,799**

Notes:
(1) Assumptions for the hauling trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

vi) Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately 21-month construction phase would conform to CARB regulations and California emissions standards and is evidence of related fuel efficiencies. There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in

construction of the project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with these measures would result in a more efficient use of construction-related energy and would minimize or eliminate wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption. Additionally, as required by California Code of Regulations Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby minimizing, or eliminating unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

D. Operational Energy Demands

Energy consumption in support of or related to project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

i) Transportation Fuel Consumption

Using the CalEEMod output from the air quality and greenhouse gas analyses (Sections II and III of this report), an average trip for autos and light trucks was assumed to be 14.7 miles and 3- and 4-axle trucks were assumed to travel an average of 8.7 miles.[35] To present a worst-case scenario, it was assumed that vehicles would operate 365 days per year. Furthermore, the project is located in close proximity to transit, which would likely reduce the number of vehicle trips and transportation-related energy use. **Table 18, Estimated Vehicle Operations Fuel Consumption,** shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks.[36]

[35] *CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 14.7 miles; 8.7 miles for H-O (home-other) or C-O (commercial-other).*

[36] *Average fuel economy based on aggregate mileage calculated in EMFAC 2021 for opening year (2024). See Appendix C for EMFAC output.*

Table 18
Estimated Vehicle Operations Fuel Consumption

Vehicle Type	Vehicle Mix	Number of Vehicle Trips	Average Trip (miles)[1]	Daily VMT[2]	Average Fuel Economy (mpg)	Total Gallons per Day	Total Annual Fuel Consumption (gallons)
Light Auto	Automobile	952	14.7	13,994	31.35	446.39	162,933
Light Truck	Automobile	95	14.7	1,397	24.4	57.23	20,890
Light Truck	Automobile	294	14.7	4,322	23.91	180.75	65,975
Medium Truck	Automobile	240	14.7	3,528	7.75	455.23	166,157
Light Heavy Truck	2-Axle Truck	45	14.7	662	15.57	42.49	15,507
Light Heavy Truck 10,000 lbs +	2-Axle Truck	21	14.7	309	14.86	20.77	7,582
Medium Heavy Truck	3-Axle Truck	21	8.7	183	7.75	23.57	8,605
Heavy Heavy Truck	4-Axle Truck	36	8.7	313	6.05	51.77	18,896
Total		1,704	--	24,707	--	1278.21	--
					Total Annual Fuel Consumption		**466,545**

Notes:
(1) Based on the size of the site and relative location, trips were assumed to be local rather than regional.

The proposed project would generate 1,704 trips per day.[37] With incorporation of adaptive re-use of 11,435 SF of the existing building, the project would generate 1,610 net new project trips. The vehicle fleet mix was obtained from the CalEEMod output. Table 18 shows that an estimated 466,545 gallons of fuel would be consumed per year for the operation of the proposed project.

ii) Facility Energy Demands (Electricity and Natural Gas)

Building operation and site maintenance (including landscape maintenance) would result in the consumption of electricity (provided by CPA) and natural gas (provided by SoCal Gas Company). The annual natural gas and electricity demands were provided per the CalEEMod output from the air quality and greenhouse gas analyses (Sections II and III of this report) and in **Table 19**, **Project Annual Operational Energy Demand Summary.**

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California,

[37] The Project has since been refined and reduced in size as follows: 108 multi-family housing units, including 19 affordable housing units. The total commercial space has been reduced from 26,468 SF down to 22,023 SF and the automobile parking spaces have been reduced from 274 down to 249 spaces. The traffic study was updated in December 2021 and revised again in April 2022. However, as the original analysis was based on a larger project, the original analysis using the original traffic data is more conservative and considered to be worst-case, as emissions would be over-estimated.

the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting. Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

Table 19
Project Annual Operational Energy Demand Summary[1]

Natural Gas Demand	kBTU/year
Apartments Mid Rise	1,161,800
Enclosed Elevator With Parking	0
High Turnover Sit Down Restaurant	3,048,190
Regional Shopping Center	21,571
Total	**4,231,561**
Electricity Demand	**kWh/year**
Apartments Mid Rise	415,855
Enclosed Elevator With Parking	596,224
High Turnover Sit Down Restaurant	572,635
Regional Shopping Center	172,968
Total	**1,757,682**

Notes:
(1) Taken from the CalEEMod 2020.4.0 annual output (Appendix B of this report).

4. RENEWABLE ENERGY AND ENERGY EFFICIENCY PLAN CONSISTENCY

Regarding federal transportation regulations, the project site is located in an already developed area. Access to/from the project site is from existing roads. These roads are already in place so the project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be proposed pursuant to the ISTEA because SCAG is not planning for intermodal facilities in the project area.

Regarding the State's Energy Plan and compliance with Title 24 CCR energy efficiency standards, the applicant is required to comply with CALGreen requirements for energy efficient buildings and appliances as well as utility energy efficiency programs implemented by CPA and SoCal Gas Company.

Regarding Pavley (AB 1493) regulations, an individual project does not have the ability to comply or conflict with these regulations because they are intended for agencies and their adoption of procedures and protocols for reporting and certifying GHG emission reductions from mobile sources.

Regarding the State's Renewable Energy Portfolio Standards, the project would be required to meet or exceed the energy standards established in CALGreen. CALGreen Standards require that new buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials.

As shown in *Section III, Global Climate Change Analysis*, above, the proposed project is consistent with the City's CAP.

5. CONCLUSION

As supported by the preceding analyses, project construction and operations would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the energy demands of the project can be accommodated within the context of available resources and energy delivery systems. The project would therefore not cause or result in the need for additional energy producing or transmission facilities. The project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the City of South Pasadena and the State of California. Notwithstanding, the project proposes mixed commercial/residential uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

V. EMISSIONS/EXPOSURE REDUCTION MEASURES

1. CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 and Rule 1113 are required.

2. OPERATIONAL MEASURES

None required.

VI. LIST OF ACRONYMS AND ABBREVIATIONS

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
$MTCO_2e$	Metric tons of carbon dioxide equivalent
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NOx	Nitrogen Oxides
NO_2	Nitrogen dioxide
N_2O	Nitrous oxide
O_3	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particulate matter
PM10	Particles that are less than 10 micrometers in diameter

PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SSAB	Salton Sea Air Basin
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SOx	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

VII. REFERENCES

California Air Resources Board (CARB)

2008 Resolution 08-43

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

2013 California Almanac of Emissions and Air Quality – 2013 Edition.

Source: https://ww2.arb.ca.gov/our-work/programs/resource-center/technical-assistance/air-quality-and-emissions-data/almanac

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 California's 2017 Climate Change Scoping Plan. November.

2021 Historical Air Quality, Top 4 Summary

City of South Pasadena

1996 Mission Street Specific Plan. April.

2019 Proposed 2020 General Plan Update

2020 South Pasadena 2020 Final Climate Action Plan. December 16.

Gibson Transportation Consulting

2021 Draft Transportation Study for the 1020 El Centro Street Mixed-Use Development Project. October.

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2018 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC).

2014 IPCC Fifth Assessment Report, Climate Change 2014: Synthesis Report

South Coast Air Quality Management District (SCAQMD)

1993 CEQA Air Quality Handbook

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2005 Rule 403 Fugitive Dust

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2016 2016 Air Quality Management Plan

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

Southern California Association of Governments

2016 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy

2020 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Environmental Protection Agency (EPA)

2017 Understanding Global Warming Potentials

(Source: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials)

U.S. Geological Survey

2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

Appendix A: CalEEMod Model Daily Emissions Printouts

Appendix B: CalEEMod Model Annual Emissions Printouts

Appendix C: EMFAC Data

APPENDIX A: CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1020 El Centro Street Project

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	274.00	Space	1.30	109,600.00	0
High Turnover (Sit Down Restaurant)	13.23	1000sqft	0.30	13,234.00	0
Apartments Mid Rise	108.00	Dwelling Unit	0.00	74,220.00	309
Regional Shopping Center	13.23	1000sqft	0.30	13,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Clean Power Alliance				
CO2 Intensity (lb/MWhr)	471.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 4-story mixed-use building with: 108 DU midrise apartments, 13,234 TSF of retail (shopping ctr), 13,234 TSF of high-turnover restaurant on top of 2 levels of a 274-space subterranean parking on ~1.3 acres. Site is 1.9 acres total (w/existing buildings)

Construction Phase - Construction to start no sooner than March 2023 and be completed before 2025. Operational year in TIA is 2024.

Off-road Equipment - Added Aerial lift.

Off-road Equipment -

Off-road Equipment - Extra equipment (dumper/tender and excavator) added for excavation of subterranean parking structure. No grader or dozer.

Trips and VMT -

Demolition - ~56,628 SF of existing parking lot to be demolished and removed = approx 382.2 tons.

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading - Site is 1.9 acres. No grading only excavation for subterranean parking structure. 37,420 CY cut (exported).

Architectural Coating - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Vehicle Trips - Trip generation rates per TIA and include rdxns for internal capture and transit. Apts = 3.33 trips/DU; Shopping Ctr = 20.02 trips/TSF; and High turnover restaurant = 81.53 trips/TSF.

Woodstoves - No woodburing stoves or fireplaces.

Area Coating - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation -

Area Mitigation - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Water Mitigation - 20% reduction in indoor water use per CalGreen requirements. Water efficient irrigation will be used on-site.

Waste Mitigation - At least 75% of waste recycled per AB341

Mobile Land Use Mitigation - Increased density: 108 DU/1.9 acres = 56.8 DU/acre. Using 500 SF/employee; 53 employees -> 53 employees/0.6076 job acres (26,468 SF) = 87 jobs/job acre. Project located in downtown So. Pas.

Sequestration - Approximately 80 new trees to be planted on site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	290.00
tblConstructionPhase	NumDays	2.00	150.00
tblFireplaces	NumberGas	91.80	97.20
tblFireplaces	NumberWood	5.40	0.00
tblGrading	AcresOfGrading	0.00	1.90
tblGrading	MaterialExported	0.00	37,420.00
tblLandUse	LandUseSquareFeet	108,000.00	74,220.00
tblLandUse	LotAcreage	2.47	1.30
tblLandUse	LotAcreage	2.84	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblSequestration	NumberOfNewTrees	0.00	80.00
tblVehicleTrips	ST_TR	4.91	3.33
tblVehicleTrips	ST_TR	122.40	81.53
tblVehicleTrips	ST_TR	46.12	20.02
tblVehicleTrips	SU_TR	4.09	3.33
tblVehicleTrips	SU_TR	142.64	81.53
tblVehicleTrips	SU_TR	21.10	20.02
tblVehicleTrips	WD_TR	5.44	3.33
tblVehicleTrips	WD_TR	112.18	81.53
tblVehicleTrips	WD_TR	37.75	20.02
tblWoodstoves	NumberCatalytic	5.40	0.00
tblWoodstoves	NumberNoncatalytic	5.40	0.00

2.0 Emissions Summary

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.9915	14.5954	17.9724	0.0417	1.7156	0.6791	2.2457	0.4599	0.6351	0.9714	0.0000	4,039.6492	4,039.6492	0.5993	0.3206	4,087.9535
2024	62.0447	12.6387	17.5318	0.0412	1.7156	0.4659	2.1814	0.4599	0.4491	0.9090	0.0000	4,001.5853	4,001.5853	0.3869	0.1253	4,048.5950
Maximum	**62.0447**	**14.5954**	**17.9724**	**0.0417**	**1.7156**	**0.6791**	**2.2457**	**0.4599**	**0.6351**	**0.9714**	**0.0000**	**4,039.6492**	**4,039.6492**	**0.5993**	**0.3206**	**4,087.9535**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.9915	14.5954	17.9724	0.0417	1.7156	0.6791	2.2457	0.4599	0.6351	0.9714	0.0000	4,039.6492	4,039.6492	0.5993	0.3206	4,087.9535
2024	62.0447	12.6387	17.5318	0.0412	1.7156	0.4659	2.1814	0.4599	0.4491	0.9090	0.0000	4,001.5853	4,001.5853	0.3869	0.1253	4,048.5950
Maximum	**62.0447**	**14.5954**	**17.9724**	**0.0417**	**1.7156**	**0.6791**	**2.2457**	**0.4599**	**0.6351**	**0.9714**	**0.0000**	**4,039.6492**	**4,039.6492**	**0.5993**	**0.3206**	**4,087.9535**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833
Energy	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242
Mobile	3.9352	3.3827	32.9413	0.0670	6.8896	0.0498	6.9394	1.8352	0.0462	1.8814		6,942.9851	6,942.9851	0.5145	0.3095	7,048.0769
Total	**6.7212**	**6.2158**	**43.3819**	**0.0845**	**6.8896**	**0.3160**	**7.2056**	**1.8352**	**0.3124**	**2.1476**	**0.0000**	**10,381.3665**	**10,381.3665**	**0.5956**	**0.3723**	**10,507.1843**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833
Energy	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242
Mobile	3.2550	2.3459	21.8253	0.0386	3.8662	0.0309	3.8971	1.0299	0.0286	1.0585		4,003.8781	4,003.8781	0.3674	0.2148	4,077.0755
Total	**6.0410**	**5.1791**	**32.2659**	**0.0562**	**3.8662**	**0.2971**	**4.1633**	**1.0299**	**0.2948**	**1.3247**	**0.0000**	**7,442.2596**	**7,442.2596**	**0.4485**	**0.2776**	**7,536.1829**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	10.12	16.68	25.62	33.53	43.88	5.99	42.22	43.88	5.63	38.32	0.00	28.31	28.31	24.70	25.44	28.28

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2023	3/28/2023	5	20	
2	Site Preparation/Excavation	Site Preparation	3/29/2023	10/24/2023	5	150	
3	Building Construction	Building Construction	10/25/2023	12/3/2024	5	290	
4	Architectural Coating	Architectural Coating	12/4/2024	12/17/2024	5	10	

Acres of Grading (Site Preparation Phase): 1.9

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.3

Residential Indoor: 150,296; Residential Outdoor: 50,099; Non-Residential Indoor: 39,702; Non-Residential Outdoor: 13,234; Striped Parking Area: 6,576 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation/Excavation	Dumpers/Tenders	2	8.00	16	0.38
Site Preparation/Excavation	Excavators	1	8.00	158	0.38
Site Preparation/Excavation	Graders	0	0.00	187	0.41
Site Preparation/Excavation	Rubber Tired Dozers	0	0.00	247	0.40

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	38.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation/Excavatio	4	10.00	0.00	4,678.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	134.00	34.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4089	0.0000	0.4089	0.0619	0.0000	0.0619			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**1.4725**	**14.3184**	**13.4577**	**0.0241**	**0.4089**	**0.6766**	**1.0856**	**0.0619**	**0.6328**	**0.6947**		**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1200e-003	0.2479	0.0662	1.1100e-003	0.0333	1.5600e-003	0.0348	9.1200e-003	1.5000e-003	0.0106		122.1054	122.1054	6.7300e-003	0.0194	128.0519
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0290	0.4711	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		131.6397	131.6397	3.2800e-003	3.0000e-003	132.6157
Total	**0.0458**	**0.2770**	**0.5373**	**2.4000e-003**	**0.1786**	**2.4400e-003**	**0.1810**	**0.0477**	**2.3100e-003**	**0.0500**		**253.7451**	**253.7451**	**0.0100**	**0.0224**	**260.6676**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1595	0.0000	0.1595	0.0242	0.0000	0.0242			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**1.4725**	**14.3184**	**13.4577**	**0.0241**	**0.1595**	**0.6766**	**0.8361**	**0.0242**	**0.6328**	**0.6569**	**0.0000**	**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1200e-003	0.2479	0.0662	1.1100e-003	0.0333	1.5600e-003	0.0348	9.1200e-003	1.5000e-003	0.0106		122.1054	122.1054	6.7300e-003	0.0194	128.0519
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0290	0.4711	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		131.6397	131.6397	3.2800e-003	3.0000e-003	132.6157
Total	**0.0458**	**0.2770**	**0.5373**	**2.4000e-003**	**0.1786**	**2.4400e-003**	**0.1810**	**0.0477**	**2.3100e-003**	**0.0500**		**253.7451**	**253.7451**	**0.0100**	**0.0224**	**260.6676**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation/Excavation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0417	0.0000	0.0417	5.7200e-003	0.0000	5.7200e-003			0.0000			0.0000
Off-Road	0.4870	4.0134	5.9907	9.7800e-003		0.1864	0.1864		0.1742	0.1742		923.5628	923.5628	0.2724		930.3718
Total	**0.4870**	**4.0134**	**5.9907**	**9.7800e-003**	**0.0417**	**0.1864**	**0.2280**	**5.7200e-003**	**0.1742**	**0.1800**		**923.5628**	**923.5628**	**0.2724**		**930.3718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0676	4.0695	1.0862	0.0182	0.5459	0.0257	0.5716	0.1497	0.0246	0.1742		2,004.2426	2,004.2426	0.1105	0.3183	2,101.8488
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0223	0.3624	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		101.2613	101.2613	2.5200e-003	2.3100e-003	102.0121
Total	**0.0997**	**4.0919**	**1.4486**	**0.0192**	**0.6577**	**0.0263**	**0.6840**	**0.1793**	**0.0252**	**0.2045**		**2,105.5039**	**2,105.5039**	**0.1130**	**0.3206**	**2,203.8609**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation/Excavation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0162	0.0000	0.0162	2.2300e-003	0.0000	2.2300e-003			0.0000			0.0000
Off-Road	0.4870	4.0134	5.9907	9.7800e-003		0.1864	0.1864		0.1742	0.1742	0.0000	923.5628	923.5628	0.2724		930.3718
Total	**0.4870**	**4.0134**	**5.9907**	**9.7800e-003**	**0.0162**	**0.1864**	**0.2026**	**2.2300e-003**	**0.1742**	**0.1765**	**0.0000**	**923.5628**	**923.5628**	**0.2724**		**930.3718**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0676	4.0695	1.0862	0.0182	0.5459	0.0257	0.5716	0.1497	0.0246	0.1742		2,004.2426	2,004.2426	0.1105	0.3183	2,101.8488
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0320	0.0223	0.3624	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		101.2613	101.2613	2.5200e-003	2.3100e-003	102.0121
Total	**0.0997**	**4.0919**	**1.4486**	**0.0192**	**0.6577**	**0.0263**	**0.6840**	**0.1793**	**0.0252**	**0.2045**		**2,105.5039**	**2,105.5039**	**0.1130**	**0.3206**	**2,203.8609**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**		**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0391	1.3050	0.5056	6.3300e-003	0.2178	6.5600e-003	0.2243	0.0627	6.2700e-003	0.0690		680.9604	680.9604	0.0228	0.0979	710.7058
Worker	0.4291	0.2992	4.8558	0.0133	1.4978	9.0400e-003	1.5068	0.3972	8.3200e-003	0.4056		1,356.9011	1,356.9011	0.0338	0.0309	1,366.9619
Total	**0.4682**	**1.6042**	**5.3614**	**0.0196**	**1.7156**	**0.0156**	**1.7312**	**0.4599**	**0.0146**	**0.4745**		**2,037.8615**	**2,037.8615**	**0.0566**	**0.1288**	**2,077.6677**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**	**0.0000**	**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0391	1.3050	0.5056	6.3300e-003	0.2178	6.5600e-003	0.2243	0.0627	6.2700e-003	0.0690		680.9604	680.9604	0.0228	0.0979	710.7058
Worker	0.4291	0.2992	4.8558	0.0133	1.4978	9.0400e-003	1.5068	0.3972	8.3200e-003	0.4056		1,356.9011	1,356.9011	0.0338	0.0309	1,366.9619
Total	**0.4682**	**1.6042**	**5.3614**	**0.0196**	**1.7156**	**0.0156**	**1.7312**	**0.4599**	**0.0146**	**0.4745**		**2,037.8615**	**2,037.8615**	**0.0566**	**0.1288**	**2,077.6677**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**		**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0379	1.3077	0.4948	6.2300e-003	0.2178	6.6000e-003	0.2244	0.0627	6.3200e-003	0.0690		670.7337	670.7337	0.0229	0.0965	700.0736
Worker	0.3999	0.2672	4.5198	0.0129	1.4978	8.6700e-003	1.5065	0.3972	7.9800e-003	0.4052		1,328.9302	1,328.9302	0.0306	0.0288	1,338.2652
Total	**0.4379**	**1.5748**	**5.0146**	**0.0191**	**1.7156**	**0.0153**	**1.7309**	**0.4599**	**0.0143**	**0.4742**		**1,999.6639**	**1,999.6639**	**0.0535**	**0.1253**	**2,038.3388**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**	**0.0000**	**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0379	1.3077	0.4948	6.2300e-003	0.2178	6.6000e-003	0.2244	0.0627	6.3200e-003	0.0690		670.7337	670.7337	0.0229	0.0965	700.0736
Worker	0.3999	0.2672	4.5198	0.0129	1.4978	8.6700e-003	1.5065	0.3972	7.9800e-003	0.4052		1,328.9302	1,328.9302	0.0306	0.0288	1,338.2652
Total	**0.4379**	**1.5748**	**5.0146**	**0.0191**	**1.7156**	**0.0153**	**1.7309**	**0.4599**	**0.0143**	**0.4742**		**1,999.6639**	**1,999.6639**	**0.0535**	**0.1253**	**2,038.3388**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.7574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2067	1.6135	2.6297	4.2300e-003		0.0678	0.0678		0.0672	0.0672		403.4129	403.4129	0.0553		404.7953
Total	**61.9642**	**1.6135**	**2.6297**	**4.2300e-003**		**0.0678**	**0.0678**		**0.0672**	**0.0672**		**403.4129**	**403.4129**	**0.0553**		**404.7953**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0538	0.9107	2.6000e-003	0.3018	1.7500e-003	0.3035	0.0800	1.6100e-003	0.0817		267.7695	267.7695	6.1600e-003	5.7900e-003	269.6504
Total	**0.0806**	**0.0538**	**0.9107**	**2.6000e-003**	**0.3018**	**1.7500e-003**	**0.3035**	**0.0800**	**1.6100e-003**	**0.0817**		**267.7695**	**267.7695**	**6.1600e-003**	**5.7900e-003**	**269.6504**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.7574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2067	1.6135	2.6297	4.2300e-003		0.0678	0.0678		0.0672	0.0672	0.0000	403.4129	403.4129	0.0553		404.7953
Total	**61.9642**	**1.6135**	**2.6297**	**4.2300e-003**		**0.0678**	**0.0678**		**0.0672**	**0.0672**	**0.0000**	**403.4129**	**403.4129**	**0.0553**		**404.7953**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0806	0.0538	0.9107	2.6000e-003	0.3018	1.7500e-003	0.3035	0.0800	1.6100e-003	0.0817		267.7695	267.7695	6.1600e-003	5.7900e-003	269.6504
Total	**0.0806**	**0.0538**	**0.9107**	**2.6000e-003**	**0.3018**	**1.7500e-003**	**0.3035**	**0.0800**	**1.6100e-003**	**0.0817**		**267.7695**	**267.7695**	**6.1600e-003**	**5.7900e-003**	**269.6504**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2550	2.3459	21.8253	0.0386	3.8662	0.0309	3.8971	1.0299	0.0286	1.0585		4,003.8781	4,003.8781	0.3674	0.2148	4,077.0755
Unmitigated	3.9352	3.3827	32.9413	0.0670	6.8896	0.0498	6.9394	1.8352	0.0462	1.8814		6,942.9851	6,942.9851	0.5145	0.3095	7,048.0769

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	359.64	359.64	359.64	1,228,945	689,643
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,078.97	1,078.97	1078.97	1,470,451	825,168
Regional Shopping Center	264.94	264.94	264.94	573,034	321,568
Total	1,703.55	1,703.55	1,703.55	3,272,429	1,836,378

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking with Elevator	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
High Turnover (Sit Down Restaurant)	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242
NaturalGas Unmitigated	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3183.01	0.0343	0.2933	0.1248	1.8700e-003		0.0237	0.0237		0.0237	0.0237		374.4723	374.4723	7.1800e-003	6.8700e-003	376.6976
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8351.2	0.0901	0.8187	0.6878	4.9100e-003		0.0622	0.0622		0.0622	0.0622		982.4939	982.4939	0.0188	0.0180	988.3323
Regional Shopping Center	59.0998	6.4000e-004	5.7900e-003	4.8700e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9529	6.9529	1.3000e-004	1.3000e-004	6.9942
Total		**0.1250**	**1.1179**	**0.8174**	**6.8100e-003**		**0.0864**	**0.0864**		**0.0864**	**0.0864**		**1,363.9191**	**1,363.9191**	**0.0261**	**0.0250**	**1,372.0242**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3.18301	0.0343	0.2933	0.1248	1.8700e-003		0.0237	0.0237		0.0237	0.0237		374.4723	374.4723	7.1800e-003	6.8700e-003	376.6976
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8.3512	0.0901	0.8187	0.6878	4.9100e-003		0.0622	0.0622		0.0622	0.0622		982.4939	982.4939	0.0188	0.0180	988.3323
Regional Shopping Center	0.0590998	6.4000e-004	5.7900e-003	4.8700e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9529	6.9529	1.3000e-004	1.3000e-004	6.9942
Total		**0.1250**	**1.1179**	**0.8174**	**6.8100e-003**		**0.0864**	**0.0864**		**0.0864**	**0.0864**		**1,363.9191**	**1,363.9191**	**0.0261**	**0.0250**	**1,372.0242**

6.0 Area Detail

6.1 Mitigation Measures Area

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833
Unmitigated	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1887	1.6124	0.6861	0.0103		0.1304	0.1304		0.1304	0.1304	0.0000	2,058.3529	2,058.3529	0.0395	0.0377	2,070.5847
Landscaping	0.2706	0.1029	8.9370	4.7000e-004		0.0495	0.0495		0.0495	0.0495		16.1094	16.1094	0.0156		16.4985
Total	**2.6609**	**1.7153**	**9.6231**	**0.0108**		**0.1798**	**0.1798**		**0.1798**	**0.1798**	**0.0000**	**2,074.4624**	**2,074.4624**	**0.0550**	**0.0377**	**2,087.0832**

1020 El Centro Street Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1887	1.6124	0.6861	0.0103		0.1304	0.1304		0.1304	0.1304	0.0000	2,058.3529	2,058.3529	0.0395	0.0377	2,070.5847
Landscaping	0.2706	0.1029	8.9370	4.7000e-004		0.0495	0.0495		0.0495	0.0495		16.1094	16.1094	0.0156		16.4985
Total	**2.6609**	**1.7153**	**9.6231**	**0.0108**		**0.1798**	**0.1798**		**0.1798**	**0.1798**	**0.0000**	**2,074.4624**	**2,074.4624**	**0.0550**	**0.0377**	**2,087.0832**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1020 El Centro Street Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	274.00	Space	1.30	109,600.00	0
High Turnover (Sit Down Restaurant)	13.23	1000sqft	0.30	13,234.00	0
Apartments Mid Rise	108.00	Dwelling Unit	0.00	74,220.00	309
Regional Shopping Center	13.23	1000sqft	0.30	13,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Clean Power Alliance				
CO2 Intensity (lb/MWhr)	471.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 4-story mixed-use building with: 108 DU midrise apartments, 13,234 TSF of retail (shopping ctr), 13,234 TSF of high-turnover restaurant on top of 2 levels of a 274-space subterranean parking on ~1.3 acres. Site is 1.9 acres total (w/existing buildings)

Construction Phase - Construction to start no sooner than March 2023 and be completed before 2025. Operational year in TIA is 2024.

Off-road Equipment - Added Aerial lift.

Off-road Equipment -

Off-road Equipment - Extra equipment (dumper/tender and excavator) added for excavation of subterranean parking structure. No grader or dozer.

Trips and VMT -

Demolition - ~56,628 SF of existing parking lot to be demolished and removed = approx 382.2 tons.

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading - Site is 1.9 acres. No grading only excavation for subterranean parking structure. 37,420 CY cut (exported).

Architectural Coating - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Vehicle Trips - Trip generation rates per TIA and include rdxns for internal capture and transit. Apts = 3.33 trips/DU; Shopping Ctr = 20.02 trips/TSF; and High turnover restaurant = 81.53 trips/TSF.

Woodstoves - No woodburing stoves or fireplaces.

Area Coating - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation -

Area Mitigation - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Water Mitigation - 20% reduction in indoor water use per CalGreen requirements. Water efficient irrigation will be used on-site.

Waste Mitigation - At least 75% of waste recycled per AB341

Mobile Land Use Mitigation - Increased density: 108 DU/1.9 acres = 56.8 DU/acre. Using 500 SF/employee; 53 employees -> 53 employees/0.6076 job acres (26,468 SF) = 87 jobs/job acre. Project located in downtown So. Pas.

Sequestration - Approximately 80 new trees to be planted on site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	290.00
tblConstructionPhase	NumDays	2.00	150.00
tblFireplaces	NumberGas	91.80	97.20
tblFireplaces	NumberWood	5.40	0.00
tblGrading	AcresOfGrading	0.00	1.90
tblGrading	MaterialExported	0.00	37,420.00
tblLandUse	LandUseSquareFeet	108,000.00	74,220.00
tblLandUse	LotAcreage	2.47	1.30
tblLandUse	LotAcreage	2.84	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblSequestration	NumberOfNewTrees	0.00	80.00
tblVehicleTrips	ST_TR	4.91	3.33
tblVehicleTrips	ST_TR	122.40	81.53
tblVehicleTrips	ST_TR	46.12	20.02
tblVehicleTrips	SU_TR	4.09	3.33
tblVehicleTrips	SU_TR	142.64	81.53
tblVehicleTrips	SU_TR	21.10	20.02
tblVehicleTrips	WD_TR	5.44	3.33
tblVehicleTrips	WD_TR	112.18	81.53
tblVehicleTrips	WD_TR	37.75	20.02
tblWoodstoves	NumberCatalytic	5.40	0.00
tblWoodstoves	NumberNoncatalytic	5.40	0.00

2.0 Emissions Summary

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.0221	14.6094	17.5958	0.0410	1.7156	0.6791	2.2457	0.4599	0.6351	0.9714	0.0000	3,969.2605	3,969.2605	0.5993	0.3211	4,018.2798
2024	62.0510	12.7280	17.1858	0.0405	1.7156	0.4659	2.1815	0.4599	0.4491	0.9090	0.0000	3,932.7936	3,932.7936	0.3872	0.1275	3,980.4686
Maximum	**62.0510**	**14.6094**	**17.5958**	**0.0410**	**1.7156**	**0.6791**	**2.2457**	**0.4599**	**0.6351**	**0.9714**	**0.0000**	**3,969.2605**	**3,969.2605**	**0.5993**	**0.3211**	**4,018.2798**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.0221	14.6094	17.5958	0.0410	1.7156	0.6791	2.2457	0.4599	0.6351	0.9714	0.0000	3,969.2605	3,969.2605	0.5993	0.3211	4,018.2798
2024	62.0510	12.7280	17.1858	0.0405	1.7156	0.4659	2.1815	0.4599	0.4491	0.9090	0.0000	3,932.7936	3,932.7936	0.3872	0.1275	3,980.4686
Maximum	**62.0510**	**14.6094**	**17.5958**	**0.0410**	**1.7156**	**0.6791**	**2.2457**	**0.4599**	**0.6351**	**0.9714**	**0.0000**	**3,969.2605**	**3,969.2605**	**0.5993**	**0.3211**	**4,018.2798**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833
Energy	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242
Mobile	3.8347	3.6537	32.9205	0.0642	6.8896	0.0498	6.9394	1.8352	0.0462	1.8814		6,653.9970	6,653.9970	0.5370	0.3239	6,763.9274
Total	**6.6207**	**6.4869**	**43.3611**	**0.0817**	**6.8896**	**0.3160**	**7.2057**	**1.8352**	**0.3125**	**2.1476**	**0.0000**	**10,092.3784**	**10,092.3784**	**0.6181**	**0.3866**	**10,223.0348**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833
Energy	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242
Mobile	3.1483	2.5348	22.4610	0.0371	3.8662	0.0309	3.8971	1.0299	0.0286	1.0585		3,843.3248	3,843.3248	0.3906	0.2254	3,920.2604
Total	**5.9342**	**5.3679**	**32.9016**	**0.0546**	**3.8662**	**0.2971**	**4.1633**	**1.0299**	**0.2949**	**1.3247**	**0.0000**	**7,281.7063**	**7,281.7063**	**0.4718**	**0.2882**	**7,379.3679**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.37**	**17.25**	**24.12**	**33.15**	**43.88**	**5.99**	**42.22**	**43.88**	**5.63**	**38.32**	**0.00**	**27.85**	**27.85**	**23.68**	**25.47**	**27.82**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2023	3/28/2023	5	20	
2	Site Preparation/Excavation	Site Preparation	3/29/2023	10/24/2023	5	150	
3	Building Construction	Building Construction	10/25/2023	12/3/2024	5	290	
4	Architectural Coating	Architectural Coating	12/4/2024	12/17/2024	5	10	

Acres of Grading (Site Preparation Phase): 1.9

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.3

Residential Indoor: 150,296; Residential Outdoor: 50,099; Non-Residential Indoor: 39,702; Non-Residential Outdoor: 13,234; Striped Parking Area: 6,576 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation/Excavation	Dumpers/Tenders	2	8.00	16	0.38
Site Preparation/Excavation	Excavators	1	8.00	158	0.38
Site Preparation/Excavation	Graders	0	0.00	187	0.41
Site Preparation/Excavation	Rubber Tired Dozers	0	0.00	247	0.40

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	38.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation/Excavatio	4	10.00	0.00	4,678.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	134.00	34.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4089	0.0000	0.4089	0.0619	0.0000	0.0619			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**1.4725**	**14.3184**	**13.4577**	**0.0241**	**0.4089**	**0.6766**	**1.0856**	**0.0619**	**0.6328**	**0.6947**		**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8600e-003	0.2589	0.0671	1.1100e-003	0.0333	1.5700e-003	0.0348	9.1200e-003	1.5000e-003	0.0106		122.2341	122.2341	6.7200e-003	0.0194	128.1865
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0447	0.0321	0.4330	1.2200e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		124.6995	124.6995	3.3200e-003	3.2000e-003	125.7376
Total	**0.0486**	**0.2909**	**0.5001**	**2.3300e-003**	**0.1786**	**2.4500e-003**	**0.1810**	**0.0477**	**2.3100e-003**	**0.0500**		**246.9336**	**246.9336**	**0.0100**	**0.0226**	**253.9241**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1595	0.0000	0.1595	0.0242	0.0000	0.0242			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	**1.4725**	**14.3184**	**13.4577**	**0.0241**	**0.1595**	**0.6766**	**0.8361**	**0.0242**	**0.6328**	**0.6569**	**0.0000**	**2,324.3959**	**2,324.3959**	**0.5893**		**2,339.1278**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.8600e-003	0.2589	0.0671	1.1100e-003	0.0333	1.5700e-003	0.0348	9.1200e-003	1.5000e-003	0.0106		122.2341	122.2341	6.7200e-003	0.0194	128.1865
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0447	0.0321	0.4330	1.2200e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		124.6995	124.6995	3.3200e-003	3.2000e-003	125.7376
Total	**0.0486**	**0.2909**	**0.5001**	**2.3300e-003**	**0.1786**	**2.4500e-003**	**0.1810**	**0.0477**	**2.3100e-003**	**0.0500**		**246.9336**	**246.9336**	**0.0100**	**0.0226**	**253.9241**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation/Excavation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0417	0.0000	0.0417	5.7200e-003	0.0000	5.7200e-003			0.0000			0.0000
Off-Road	0.4870	4.0134	5.9907	9.7800e-003		0.1864	0.1864		0.1742	0.1742		923.5628	923.5628	0.2724		930.3718
Total	**0.4870**	**4.0134**	**5.9907**	**9.7800e-003**	**0.0417**	**0.1864**	**0.2280**	**5.7200e-003**	**0.1742**	**0.1800**		**923.5628**	**923.5628**	**0.2724**		**930.3718**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0633	4.2490	1.1011	0.0183	0.5459	0.0257	0.5716	0.1497	0.0246	0.1743		2,006.3552	2,006.3552	0.1102	0.3186	2,104.0580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0247	0.3331	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		95.9227	95.9227	2.5600e-003	2.4700e-003	96.7212
Total	**0.0977**	**4.2736**	**1.4342**	**0.0192**	**0.6577**	**0.0264**	**0.6841**	**0.1793**	**0.0252**	**0.2046**		**2,102.2779**	**2,102.2779**	**0.1128**	**0.3211**	**2,200.7792**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation/Excavation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0162	0.0000	0.0162	2.2300e-003	0.0000	2.2300e-003			0.0000			0.0000
Off-Road	0.4870	4.0134	5.9907	9.7800e-003		0.1864	0.1864		0.1742	0.1742	0.0000	923.5628	923.5628	0.2724		930.3718
Total	**0.4870**	**4.0134**	**5.9907**	**9.7800e-003**	**0.0162**	**0.1864**	**0.2026**	**2.2300e-003**	**0.1742**	**0.1765**	**0.0000**	**923.5628**	**923.5628**	**0.2724**		**930.3718**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0633	4.2490	1.1011	0.0183	0.5459	0.0257	0.5716	0.1497	0.0246	0.1743		2,006.3552	2,006.3552	0.1102	0.3186	2,104.0580
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0247	0.3331	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		95.9227	95.9227	2.5600e-003	2.4700e-003	96.7212
Total	**0.0977**	**4.2736**	**1.4342**	**0.0192**	**0.6577**	**0.0264**	**0.6841**	**0.1793**	**0.0252**	**0.2046**		**2,102.2779**	**2,102.2779**	**0.1128**	**0.3211**	**2,200.7792**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**		**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0378	1.3664	0.5215	6.3400e-003	0.2178	6.6000e-003	0.2244	0.0627	6.3100e-003	0.0690		682.1090	682.1090	0.0227	0.0982	711.9298
Worker	0.4610	0.3305	4.4633	0.0126	1.4978	9.0400e-003	1.5068	0.3972	8.3200e-003	0.4056		1,285.3638	1,285.3638	0.0343	0.0330	1,296.0643
Total	**0.4988**	**1.6968**	**4.9848**	**0.0189**	**1.7156**	**0.0156**	**1.7312**	**0.4599**	**0.0146**	**0.4746**		**1,967.4728**	**1,967.4728**	**0.0570**	**0.1312**	**2,007.9940**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	**1.5233**	**11.7104**	**12.6111**	**0.0221**		**0.5145**	**0.5145**		**0.4968**	**0.4968**	**0.0000**	**2,001.7877**	**2,001.7877**	**0.3399**		**2,010.2858**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0378	1.3664	0.5215	6.3400e-003	0.2178	6.6000e-003	0.2244	0.0627	6.3100e-003	0.0690		682.1090	682.1090	0.0227	0.0982	711.9298
Worker	0.4610	0.3305	4.4633	0.0126	1.4978	9.0400e-003	1.5068	0.3972	8.3200e-003	0.4056		1,285.3638	1,285.3638	0.0343	0.0330	1,296.0643
Total	**0.4988**	**1.6968**	**4.9848**	**0.0189**	**1.7156**	**0.0156**	**1.7312**	**0.4599**	**0.0146**	**0.4746**		**1,967.4728**	**1,967.4728**	**0.0570**	**0.1312**	**2,007.9940**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**		**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0365	1.3692	0.5105	6.2400e-003	0.2178	6.6400e-003	0.2244	0.0627	6.3500e-003	0.0691		671.8887	671.8887	0.0228	0.0968	701.3018
Worker	0.4311	0.2950	4.1581	0.0122	1.4978	8.6700e-003	1.5065	0.3972	7.9800e-003	0.4052		1,258.9834	1,258.9834	0.0310	0.0307	1,268.9105
Total	**0.4677**	**1.6642**	**4.6686**	**0.0184**	**1.7156**	**0.0153**	**1.7309**	**0.4599**	**0.0143**	**0.4743**		**1,930.8722**	**1,930.8722**	**0.0538**	**0.1275**	**1,970.2123**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	**1.4200**	**11.0639**	**12.5172**	**0.0221**		**0.4506**	**0.4506**		**0.4348**	**0.4348**	**0.0000**	**2,001.9214**	**2,001.9214**	**0.3334**		**2,010.2563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0365	1.3692	0.5105	6.2400e-003	0.2178	6.6400e-003	0.2244	0.0627	6.3500e-003	0.0691		671.8887	671.8887	0.0228	0.0968	701.3018
Worker	0.4311	0.2950	4.1581	0.0122	1.4978	8.6700e-003	1.5065	0.3972	7.9800e-003	0.4052		1,258.9834	1,258.9834	0.0310	0.0307	1,268.9105
Total	**0.4677**	**1.6642**	**4.6686**	**0.0184**	**1.7156**	**0.0153**	**1.7309**	**0.4599**	**0.0143**	**0.4743**		**1,930.8722**	**1,930.8722**	**0.0538**	**0.1275**	**1,970.2123**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.7574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2067	1.6135	2.6297	4.2300e-003		0.0678	0.0678		0.0672	0.0672		403.4129	403.4129	0.0553		404.7953
Total	**61.9642**	**1.6135**	**2.6297**	**4.2300e-003**		**0.0678**	**0.0678**		**0.0672**	**0.0672**		**403.4129**	**403.4129**	**0.0553**		**404.7953**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0594	0.8378	2.4600e-003	0.3018	1.7500e-003	0.3035	0.0800	1.6100e-003	0.0817		253.6758	253.6758	6.2500e-003	6.1900e-003	255.6760
Total	**0.0869**	**0.0594**	**0.8378**	**2.4600e-003**	**0.3018**	**1.7500e-003**	**0.3035**	**0.0800**	**1.6100e-003**	**0.0817**		**253.6758**	**253.6758**	**6.2500e-003**	**6.1900e-003**	**255.6760**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	61.7574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2067	1.6135	2.6297	4.2300e-003		0.0678	0.0678		0.0672	0.0672	0.0000	403.4129	403.4129	0.0553		404.7953
Total	**61.9642**	**1.6135**	**2.6297**	**4.2300e-003**		**0.0678**	**0.0678**		**0.0672**	**0.0672**	**0.0000**	**403.4129**	**403.4129**	**0.0553**		**404.7953**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0869	0.0594	0.8378	2.4600e-003	0.3018	1.7500e-003	0.3035	0.0800	1.6100e-003	0.0817		253.6758	253.6758	6.2500e-003	6.1900e-003	255.6760
Total	**0.0869**	**0.0594**	**0.8378**	**2.4600e-003**	**0.3018**	**1.7500e-003**	**0.3035**	**0.0800**	**1.6100e-003**	**0.0817**		**253.6758**	**253.6758**	**6.2500e-003**	**6.1900e-003**	**255.6760**

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1483	2.5348	22.4610	0.0371	3.8662	0.0309	3.8971	1.0299	0.0286	1.0585		3,843.3248	3,843.3248	0.3906	0.2254	3,920.2604
Unmitigated	3.8347	3.6537	32.9205	0.0642	6.8896	0.0498	6.9394	1.8352	0.0462	1.8814		6,653.9970	6,653.9970	0.5370	0.3239	6,763.9274

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	359.64	359.64	359.64	1,228,945	689,643
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,078.97	1,078.97	1078.97	1,470,451	825,168
Regional Shopping Center	264.94	264.94	264.94	573,034	321,568
Total	1,703.55	1,703.55	1,703.55	3,272,429	1,836,378

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking with Elevator	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
High Turnover (Sit Down Restaurant)	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242
NaturalGas Unmitigated	0.1250	1.1179	0.8174	6.8200e-003		0.0864	0.0864		0.0864	0.0864		1,363.9191	1,363.9191	0.0261	0.0250	1,372.0242

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3183.01	0.0343	0.2933	0.1248	1.8700e-003		0.0237	0.0237		0.0237	0.0237		374.4723	374.4723	7.1800e-003	6.8700e-003	376.6976
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8351.2	0.0901	0.8187	0.6878	4.9100e-003		0.0622	0.0622		0.0622	0.0622		982.4939	982.4939	0.0188	0.0180	988.3323
Regional Shopping Center	59.0998	6.4000e-004	5.7900e-003	4.8700e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9529	6.9529	1.3000e-004	1.3000e-004	6.9942
Total		**0.1250**	**1.1179**	**0.8174**	**6.8100e-003**		**0.0864**	**0.0864**		**0.0864**	**0.0864**		**1,363.9191**	**1,363.9191**	**0.0261**	**0.0250**	**1,372.0242**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3.18301	0.0343	0.2933	0.1248	1.8700e-003		0.0237	0.0237		0.0237	0.0237		374.4723	374.4723	7.1800e-003	6.8700e-003	376.6976
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	8.3512	0.0901	0.8187	0.6878	4.9100e-003		0.0622	0.0622		0.0622	0.0622		982.4939	982.4939	0.0188	0.0180	988.3323
Regional Shopping Center	0.0590998	6.4000e-004	5.7900e-003	4.8700e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004		6.9529	6.9529	1.3000e-004	1.3000e-004	6.9942
Total		**0.1250**	**1.1179**	**0.8174**	**6.8100e-003**		**0.0864**	**0.0864**		**0.0864**	**0.0864**		**1,363.9191**	**1,363.9191**	**0.0261**	**0.0250**	**1,372.0242**

6.0 Area Detail

6.1 Mitigation Measures Area

1020 El Centro Street Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833
Unmitigated	2.6610	1.7153	9.6231	0.0108		0.1798	0.1798		0.1798	0.1798	0.0000	2,074.4624	2,074.4624	0.0550	0.0377	2,087.0833

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1887	1.6124	0.6861	0.0103		0.1304	0.1304		0.1304	0.1304	0.0000	2,058.3529	2,058.3529	0.0395	0.0377	2,070.5847
Landscaping	0.2706	0.1029	8.9370	4.7000e-004		0.0495	0.0495		0.0495	0.0495		16.1094	16.1094	0.0156		16.4985
Total	**2.6609**	**1.7153**	**9.6231**	**0.0108**		**0.1798**	**0.1798**		**0.1798**	**0.1798**	**0.0000**	**2,074.4624**	**2,074.4624**	**0.0550**	**0.0377**	**2,087.0832**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1692					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0324					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1887	1.6124	0.6861	0.0103		0.1304	0.1304		0.1304	0.1304	0.0000	2,058.3529	2,058.3529	0.0395	0.0377	2,070.5847
Landscaping	0.2706	0.1029	8.9370	4.7000e-004		0.0495	0.0495		0.0495	0.0495		16.1094	16.1094	0.0156		16.4985
Total	**2.6609**	**1.7153**	**9.6231**	**0.0108**		**0.1798**	**0.1798**		**0.1798**	**0.1798**	**0.0000**	**2,074.4624**	**2,074.4624**	**0.0550**	**0.0377**	**2,087.0832**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1020 El Centro Project Exisitng Ops ONLY

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	11.44	1000sqft	0.26	11,435.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Clean Power Alliance				
CO2 Intensity (lb/MWhr)	471.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions for existing uses being removed.

Land Use - 11.435 TSF of Office (school admin building) being removed/reused.

Vehicle Trips - Existing office trips per TIA (inlcudes rdx for transit/walk-in) = 8.22 trips/TSF

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.21	8.22
tblVehicleTrips	SU_TR	0.70	8.22
tblVehicleTrips	WD_TR	9.74	8.22

2.0 Emissions Summary

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Energy	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Mobile	0.2833	0.2899	2.8861	6.2700e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		645.9505	645.9505	0.0420	0.0260	654.7514
Total	**0.5424**	**0.3215**	**2.9139**	**6.4600e-003**	**0.6375**	**6.9000e-003**	**0.6444**	**0.1698**	**6.5800e-003**	**0.1764**		**683.9529**	**683.9529**	**0.0428**	**0.0267**	**692.9798**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Energy	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Mobile	0.2833	0.2899	2.8861	6.2700e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		645.9505	645.9505	0.0420	0.0260	654.7514
Total	**0.5424**	**0.3215**	**2.9139**	**6.4600e-003**	**0.6375**	**6.9000e-003**	**0.6444**	**0.1698**	**6.5800e-003**	**0.1764**		**683.9529**	**683.9529**	**0.0428**	**0.0267**	**692.9798**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2833	0.2899	2.8861	6.2700e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		645.9505	645.9505	0.0420	0.0260	654.7514
Unmitigated	0.2833	0.2899	2.8861	6.2700e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		645.9505	645.9505	0.0420	0.0260	654.7514

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	94.00	94.00	94.00	302,803	302,803
Total	94.00	94.00	94.00	302,803	302,803

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.00337

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
NaturalGas Unmitigated	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	323	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Total		**3.4800e-003**	**0.0317**	**0.0266**	**1.9000e-004**		**2.4100e-003**	**2.4100e-003**		**2.4100e-003**	**2.4100e-003**		**38.0000**	**38.0000**	**7.3000e-004**	**7.0000e-004**	**38.2258**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.323	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Total		**3.4800e-003**	**0.0317**	**0.0266**	**1.9000e-004**		**2.4100e-003**	**2.4100e-003**		**2.4100e-003**	**2.4100e-003**		**38.0000**	**38.0000**	**7.3000e-004**	**7.0000e-004**	**38.2258**

6.0 Area Detail

6.1 Mitigation Measures Area

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Unmitigated	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Total	**0.2556**	**1.0000e-005**	**1.1700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.5000e-003**	**2.5000e-003**	**1.0000e-005**		**2.6700e-003**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Total	**0.2556**	**1.0000e-005**	**1.1700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.5000e-003**	**2.5000e-003**	**1.0000e-005**		**2.6700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1020 El Centro Project Exisitng Ops ONLY

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	11.44	1000sqft	0.26	11,435.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Clean Power Alliance				
CO2 Intensity (lb/MWhr)	471.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions for existing uses being removed.

Land Use - 11.435 TSF of Office (school admin building) being removed/reused.

Vehicle Trips - Existing office trips per TIA (inlcudes rdx for transit/walk-in) = 8.22 trips/TSF

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.21	8.22
tblVehicleTrips	SU_TR	0.70	8.22
tblVehicleTrips	WD_TR	9.74	8.22

2.0 Emissions Summary

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Energy	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Mobile	0.2782	0.3133	2.8201	6.0000e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		618.3793	618.3793	0.0433	0.0272	627.5620
Total	**0.5372**	**0.3449**	**2.8478**	**6.1900e-003**	**0.6375**	**6.9000e-003**	**0.6444**	**0.1698**	**6.5800e-003**	**0.1764**		**656.3818**	**656.3818**	**0.0440**	**0.0279**	**665.7905**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Energy	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Mobile	0.2782	0.3133	2.8201	6.0000e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		618.3793	618.3793	0.0433	0.0272	627.5620
Total	**0.5372**	**0.3449**	**2.8478**	**6.1900e-003**	**0.6375**	**6.9000e-003**	**0.6444**	**0.1698**	**6.5800e-003**	**0.1764**		**656.3818**	**656.3818**	**0.0440**	**0.0279**	**665.7905**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2782	0.3133	2.8201	6.0000e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		618.3793	618.3793	0.0433	0.0272	627.5620
Unmitigated	0.2782	0.3133	2.8201	6.0000e-003	0.6375	4.4900e-003	0.6419	0.1698	4.1700e-003	0.1740		618.3793	618.3793	0.0433	0.0272	627.5620

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	94.00	94.00	94.00	302,803	302,803
Total	94.00	94.00	94.00	302,803	302,803

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.00337

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
NaturalGas Unmitigated	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	323	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Total		**3.4800e-003**	**0.0317**	**0.0266**	**1.9000e-004**		**2.4100e-003**	**2.4100e-003**		**2.4100e-003**	**2.4100e-003**		**38.0000**	**38.0000**	**7.3000e-004**	**7.0000e-004**	**38.2258**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.323	3.4800e-003	0.0317	0.0266	1.9000e-004		2.4100e-003	2.4100e-003		2.4100e-003	2.4100e-003		38.0000	38.0000	7.3000e-004	7.0000e-004	38.2258
Total		**3.4800e-003**	**0.0317**	**0.0266**	**1.9000e-004**		**2.4100e-003**	**2.4100e-003**		**2.4100e-003**	**2.4100e-003**		**38.0000**	**38.0000**	**7.3000e-004**	**7.0000e-004**	**38.2258**

6.0 Area Detail

6.1 Mitigation Measures Area

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Unmitigated	0.2556	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Total	**0.2556**	**1.0000e-005**	**1.1700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.5000e-003**	**2.5000e-003**	**1.0000e-005**		**2.6700e-003**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1000e-004	1.0000e-005	1.1700e-003	0.0000		0.0000	0.0000		0.0000	0.0000		2.5000e-003	2.5000e-003	1.0000e-005		2.6700e-003
Total	**0.2556**	**1.0000e-005**	**1.1700e-003**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.5000e-003**	**2.5000e-003**	**1.0000e-005**		**2.6700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Date: 12/27/2021 4:38 PM

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX B: CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1020 El Centro Street Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	274.00	Space	1.30	109,600.00	0
High Turnover (Sit Down Restaurant)	13.23	1000sqft	0.30	13,234.00	0
Apartments Mid Rise	108.00	Dwelling Unit	0.00	74,220.00	309
Regional Shopping Center	13.23	1000sqft	0.30	13,234.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2024
Utility Company	Clean Power Alliance				
CO2 Intensity (lb/MWhr)	471.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 4-story mixed-use building with: 108 DU midrise apartments, 13,234 TSF of retail (shopping ctr), 13,234 TSF of high-turnover restaurant on top of 2 levels of a 274-space subterranean parking on ~1.3 acres. Site is 1.9 acres total (w/existing buildings)

Construction Phase - Construction to start no sooner than March 2023 and be completed before 2025. Operational year in TIA is 2024.

Off-road Equipment - Added Aerial lift.

Off-road Equipment -

Off-road Equipment - Extra equipment (dumper/tender and excavator) added for excavation of subterranean parking structure. No grader or dozer.

Trips and VMT -

Demolition - ~56,628 SF of existing parking lot to be demolished and removed = approx 382.2 tons.

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading - Site is 1.9 acres. No grading only excavation for subterranean parking structure. 37,420 CY cut (exported).

Architectural Coating - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Vehicle Trips - Trip generation rates per TIA and include rdxns for internal capture and transit. Apts = 3.33 trips/DU; Shopping Ctr = 20.02 trips/TSF; and High turnover restaurant = 81.53 trips/TSF.

Woodstoves - No woodburing stoves or fireplaces.

Area Coating - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Construction Off-road Equipment Mitigation -

Area Mitigation - Paints applied to buildings limited to 50g/L VOC per SCAQMD Rule 1113.

Water Mitigation - 20% reduction in indoor water use per CalGreen requirements. Water efficient irrigation will be used on-site.

Waste Mitigation - At least 75% of waste recycled per AB341

Mobile Land Use Mitigation - Increased density: 108 DU/1.9 acres = 56.8 DU/acre. Using 500 SF/employee; 53 employees -> 53 employees/0.6076 job acres (26,468 SF) = 87 jobs/job acre. Project located in downtown So. Pas.

Sequestration - Approximately 80 new trees to be planted on site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	200.00	290.00
tblConstructionPhase	NumDays	2.00	150.00
tblFireplaces	NumberGas	91.80	97.20
tblFireplaces	NumberWood	5.40	0.00
tblGrading	AcresOfGrading	0.00	1.90
tblGrading	MaterialExported	0.00	37,420.00
tblLandUse	LandUseSquareFeet	108,000.00	74,220.00
tblLandUse	LotAcreage	2.47	1.30
tblLandUse	LotAcreage	2.84	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblSequestration	NumberOfNewTrees	0.00	80.00
tblVehicleTrips	ST_TR	4.91	3.33
tblVehicleTrips	ST_TR	122.40	81.53
tblVehicleTrips	ST_TR	46.12	20.02
tblVehicleTrips	SU_TR	4.09	3.33
tblVehicleTrips	SU_TR	142.64	81.53
tblVehicleTrips	SU_TR	21.10	20.02
tblVehicleTrips	WD_TR	5.44	3.33
tblVehicleTrips	WD_TR	112.18	81.53
tblVehicleTrips	WD_TR	37.75	20.02
tblWoodstoves	NumberCatalytic	5.40	0.00
tblWoodstoves	NumberNoncatalytic	5.40	0.00

2.0 Emissions Summary

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1067	1.0927	1.1214	3.4300e-003	0.0978	0.0355	0.1333	0.0256	0.0336	0.0592	0.0000	316.0550	316.0550	0.0403	0.0249	324.4845
2024	0.5346	1.5497	2.1087	4.9600e-003	0.2051	0.0567	0.2618	0.0551	0.0547	0.1098	0.0000	436.6826	436.6826	0.0428	0.0141	441.9435
Maximum	**0.5346**	**1.5497**	**2.1087**	**4.9600e-003**	**0.2051**	**0.0567**	**0.2618**	**0.0551**	**0.0547**	**0.1098**	**0.0000**	**436.6826**	**436.6826**	**0.0428**	**0.0249**	**441.9435**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1067	1.0927	1.1214	3.4300e-003	0.0934	0.0355	0.1289	0.0250	0.0336	0.0585	0.0000	316.0549	316.0549	0.0403	0.0249	324.4843
2024	0.5346	1.5497	2.1087	4.9600e-003	0.2051	0.0567	0.2618	0.0551	0.0547	0.1098	0.0000	436.6824	436.6824	0.0428	0.0141	441.9433
Maximum	**0.5346**	**1.5497**	**2.1087**	**4.9600e-003**	**0.2051**	**0.0567**	**0.2618**	**0.0551**	**0.0547**	**0.1098**	**0.0000**	**436.6824**	**436.6824**	**0.0428**	**0.0249**	**441.9433**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**1.45**	**0.00**	**1.11**	**0.79**	**0.00**	**0.38**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-1-2023**	**5-31-2023**	0.3602	0.3602
2	**6-1-2023**	**8-31-2023**	0.2856	0.2856
3	**9-1-2023**	**11-30-2023**	0.3731	0.3731
4	**12-1-2023**	**2-29-2024**	0.4840	0.4840
5	**3-1-2024**	**5-31-2024**	0.4776	0.4776
6	**6-1-2024**	**8-31-2024**	0.4763	0.4763
7	**9-1-2024**	**9-30-2024**	0.1553	0.1553
		Highest	0.4840	0.4840

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4380	0.0330	1.1257	1.9000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	25.1681	25.1681	2.2100e-003	4.3000e-004	25.3509
Energy	0.0228	0.2040	0.1492	1.2400e-003		0.0158	0.0158		0.0158	0.0158	0.0000	602.1083	602.1083	0.0306	7.3300e-003	605.0583
Mobile	0.6828	0.6713	6.0175	0.0118	1.2295	9.0500e-003	1.2385	0.3280	8.4000e-003	0.3364	0.0000	1,110.0869	1,110.0869	0.0880	0.0536	1,128.2645
Waste						0.0000	0.0000		0.0000	0.0000	44.8630	0.0000	44.8630	2.6513	0.0000	111.1463
Water						0.0000	0.0000		0.0000	0.0000	3.8173	46.1313	49.9486	0.3953	9.6500e-003	62.7064
Total	**1.1436**	**0.9084**	**7.2924**	**0.0132**	**1.2295**	**0.0326**	**1.2621**	**0.3280**	**0.0320**	**0.3600**	**48.6803**	**1,783.4945**	**1,832.1749**	**3.1675**	**0.0710**	**1,932.5264**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4380	0.0330	1.1257	1.9000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	25.1681	25.1681	2.2100e-003	4.3000e-004	25.3509
Energy	0.0228	0.2040	0.1492	1.2400e-003		0.0158	0.0158		0.0158	0.0158	0.0000	602.1083	602.1083	0.0306	7.3300e-003	605.0583
Mobile	0.5577	0.4630	4.0803	6.8100e-003	0.6899	5.6100e-003	0.6955	0.1841	5.2000e-003	0.1893	0.0000	640.8990	640.8990	0.0638	0.0372	653.5675
Waste						0.0000	0.0000		0.0000	0.0000	11.2158	0.0000	11.2158	0.6628	0.0000	27.7866
Water						0.0000	0.0000		0.0000	0.0000	3.0539	39.4230	42.4768	0.3164	7.7400e-003	52.6938
Total	**1.0185**	**0.7000**	**5.3551**	**8.2400e-003**	**0.6899**	**0.0292**	**0.7191**	**0.1841**	**0.0288**	**0.2128**	**14.2696**	**1,307.5983**	**1,321.8679**	**1.0759**	**0.0527**	**1,364.4571**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.93**	**22.93**	**26.57**	**37.72**	**43.88**	**10.55**	**43.02**	**43.88**	**10.01**	**40.87**	**70.69**	**26.68**	**27.85**	**66.03**	**25.86**	**29.40**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	56.6400
Total	**56.6400**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2023	3/28/2023	5	20	
2	Site Preparation/Excavation	Site Preparation	3/29/2023	10/24/2023	5	150	
3	Building Construction	Building Construction	10/25/2023	12/3/2024	5	290	
4	Architectural Coating	Architectural Coating	12/4/2024	12/17/2024	5	10	

Acres of Grading (Site Preparation Phase): 1.9

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.3

Residential Indoor: 150,296; Residential Outdoor: 50,099; Non-Residential Indoor: 39,702; Non-Residential Outdoor: 13,234; Striped Parking Area: 6,576 (Architectural Coating – sqft)

OffRoad Equipment

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation/Excavation	Dumpers/Tenders	2	8.00	16	0.38
Site Preparation/Excavation	Excavators	1	8.00	158	0.38
Site Preparation/Excavation	Graders	0	0.00	187	0.41
Site Preparation/Excavation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation/Excavation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Aerial Lifts	1	6.00	63	0.31
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	38.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation/Excavatio	4	10.00	0.00	4,678.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	134.00	34.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0900e-003	0.0000	4.0900e-003	6.2000e-004	0.0000	6.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
Total	**0.0147**	**0.1432**	**0.1346**	**2.4000e-004**	**4.0900e-003**	**6.7700e-003**	**0.0109**	**6.2000e-004**	**6.3300e-003**	**6.9500e-003**	**0.0000**	**21.0866**	**21.0866**	**5.3500e-003**	**0.0000**	**21.2202**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.6100e-003	6.7000e-004	1.0000e-005	3.3000e-004	2.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1082	1.1082	6.0000e-005	1.8000e-004	1.1622
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.3000e-004	4.4400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1481	1.1481	3.0000e-005	3.0000e-005	1.1577
Total	**4.5000e-004**	**2.9400e-003**	**5.1100e-003**	**2.0000e-005**	**1.7500e-003**	**3.0000e-005**	**1.7700e-003**	**4.7000e-004**	**2.0000e-005**	**4.9000e-004**	**0.0000**	**2.2563**	**2.2563**	**9.0000e-005**	**2.1000e-004**	**2.3199**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	2.4000e-004	0.0000	2.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
Total	**0.0147**	**0.1432**	**0.1346**	**2.4000e-004**	**1.5900e-003**	**6.7700e-003**	**8.3600e-003**	**2.4000e-004**	**6.3300e-003**	**6.5700e-003**	**0.0000**	**21.0865**	**21.0865**	**5.3500e-003**	**0.0000**	**21.2202**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.6100e-003	6.7000e-004	1.0000e-005	3.3000e-004	2.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1082	1.1082	6.0000e-005	1.8000e-004	1.1622
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.3000e-004	4.4400e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1481	1.1481	3.0000e-005	3.0000e-005	1.1577
Total	**4.5000e-004**	**2.9400e-003**	**5.1100e-003**	**2.0000e-005**	**1.7500e-003**	**3.0000e-005**	**1.7700e-003**	**4.7000e-004**	**2.0000e-005**	**4.9000e-004**	**0.0000**	**2.2563**	**2.2563**	**9.0000e-005**	**2.1000e-004**	**2.3199**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation/Excavation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1200e-003	0.0000	3.1200e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0365	0.3010	0.4493	7.3000e-004		0.0140	0.0140		0.0131	0.0131	0.0000	62.8382	62.8382	0.0185	0.0000	63.3014
Total	**0.0365**	**0.3010**	**0.4493**	**7.3000e-004**	**3.1200e-003**	**0.0140**	**0.0171**	**4.3000e-004**	**0.0131**	**0.0135**	**0.0000**	**62.8382**	**62.8382**	**0.0185**	**0.0000**	**63.3014**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9300e-003	0.3216	0.0819	1.3700e-003	0.0402	1.9300e-003	0.0422	0.0111	1.8400e-003	0.0129	0.0000	136.4267	136.4267	7.5100e-003	0.0217	143.0707
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e-003	1.8900e-003	0.0256	7.0000e-005	8.2200e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.6238	6.6238	1.7000e-004	1.7000e-004	6.6789
Total	**7.3100e-003**	**0.3235**	**0.1075**	**1.4400e-003**	**0.0485**	**1.9800e-003**	**0.0504**	**0.0132**	**1.8900e-003**	**0.0151**	**0.0000**	**143.0505**	**143.0505**	**7.6800e-003**	**0.0218**	**149.7496**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation/Excavation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2200e-003	0.0000	1.2200e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0365	0.3010	0.4493	7.3000e-004		0.0140	0.0140		0.0131	0.0131	0.0000	62.8381	62.8381	0.0185	0.0000	63.3014
Total	**0.0365**	**0.3010**	**0.4493**	**7.3000e-004**	**1.2200e-003**	**0.0140**	**0.0152**	**1.7000e-004**	**0.0131**	**0.0132**	**0.0000**	**62.8381**	**62.8381**	**0.0185**	**0.0000**	**63.3014**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9300e-003	0.3216	0.0819	1.3700e-003	0.0402	1.9300e-003	0.0422	0.0111	1.8400e-003	0.0129	0.0000	136.4267	136.4267	7.5100e-003	0.0217	143.0707
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e-003	1.8900e-003	0.0256	7.0000e-005	8.2200e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.6238	6.6238	1.7000e-004	1.7000e-004	6.6789
Total	**7.3100e-003**	**0.3235**	**0.1075**	**1.4400e-003**	**0.0485**	**1.9800e-003**	**0.0504**	**0.0132**	**1.8900e-003**	**0.0151**	**0.0000**	**143.0505**	**143.0505**	**7.6800e-003**	**0.0218**	**149.7496**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0366	0.2811	0.3027	5.3000e-004		0.0124	0.0124		0.0119	0.0119	0.0000	43.5838	43.5838	7.4000e-003	0.0000	43.7688
Total	**0.0366**	**0.2811**	**0.3027**	**5.3000e-004**		**0.0124**	**0.0124**		**0.0119**	**0.0119**	**0.0000**	**43.5838**	**43.5838**	**7.4000e-003**	**0.0000**	**43.7688**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2000e-004	0.0329	0.0123	1.5000e-004	5.1400e-003	1.6000e-004	5.3000e-003	1.4800e-003	1.5000e-004	1.6400e-003	0.0000	14.8367	14.8367	5.0000e-004	2.1400e-003	15.4854
Worker	0.0102	8.1100e-003	0.1099	3.1000e-004	0.0352	2.2000e-004	0.0355	9.3600e-003	2.0000e-004	9.5600e-003	0.0000	28.4030	28.4030	7.5000e-004	7.3000e-004	28.6392
Total	**0.0111**	**0.0410**	**0.1222**	**4.6000e-004**	**0.0404**	**3.8000e-004**	**0.0408**	**0.0108**	**3.5000e-004**	**0.0112**	**0.0000**	**43.2396**	**43.2396**	**1.2500e-003**	**2.8700e-003**	**44.1246**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0366	0.2811	0.3027	5.3000e-004		0.0124	0.0124		0.0119	0.0119	0.0000	43.5837	43.5837	7.4000e-003	0.0000	43.7688
Total	**0.0366**	**0.2811**	**0.3027**	**5.3000e-004**		**0.0124**	**0.0124**		**0.0119**	**0.0119**	**0.0000**	**43.5837**	**43.5837**	**7.4000e-003**	**0.0000**	**43.7688**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2000e-004	0.0329	0.0123	1.5000e-004	5.1400e-003	1.6000e-004	5.3000e-003	1.4800e-003	1.5000e-004	1.6400e-003	0.0000	14.8367	14.8367	5.0000e-004	2.1400e-003	15.4854
Worker	0.0102	8.1100e-003	0.1099	3.1000e-004	0.0352	2.2000e-004	0.0355	9.3600e-003	2.0000e-004	9.5600e-003	0.0000	28.4030	28.4030	7.5000e-004	7.3000e-004	28.6392
Total	**0.0111**	**0.0410**	**0.1222**	**4.6000e-004**	**0.0404**	**3.8000e-004**	**0.0408**	**0.0108**	**3.5000e-004**	**0.0112**	**0.0000**	**43.2396**	**43.2396**	**1.2500e-003**	**2.8700e-003**	**44.1246**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1718	1.3387	1.5146	2.6700e-003		0.0545	0.0545		0.0526	0.0526	0.0000	219.7496	219.7496	0.0366	0.0000	220.6645
Total	**0.1718**	**1.3387**	**1.5146**	**2.6700e-003**		**0.0545**	**0.0545**		**0.0526**	**0.0526**	**0.0000**	**219.7496**	**219.7496**	**0.0366**	**0.0000**	**220.6645**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-003	0.1661	0.0608	7.5000e-004	0.0259	8.0000e-004	0.0267	7.4800e-003	7.7000e-004	8.2500e-003	0.0000	73.6794	73.6794	2.5100e-003	0.0106	76.9051
Worker	0.0480	0.0365	0.5159	1.5000e-003	0.1777	1.0500e-003	0.1787	0.0472	9.7000e-004	0.0482	0.0000	140.2560	140.2560	3.4100e-003	3.4200e-003	141.3608
Total	**0.0525**	**0.2026**	**0.5767**	**2.2500e-003**	**0.2036**	**1.8500e-003**	**0.2055**	**0.0547**	**1.7400e-003**	**0.0564**	**0.0000**	**213.9354**	**213.9354**	**5.9200e-003**	**0.0140**	**218.2659**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1718	1.3387	1.5146	2.6700e-003		0.0545	0.0545		0.0526	0.0526	0.0000	219.7494	219.7494	0.0366	0.0000	220.6643
Total	**0.1718**	**1.3387**	**1.5146**	**2.6700e-003**		**0.0545**	**0.0545**		**0.0526**	**0.0526**	**0.0000**	**219.7494**	**219.7494**	**0.0366**	**0.0000**	**220.6643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-003	0.1661	0.0608	7.5000e-004	0.0259	8.0000e-004	0.0267	7.4800e-003	7.7000e-004	8.2500e-003	0.0000	73.6794	73.6794	2.5100e-003	0.0106	76.9051
Worker	0.0480	0.0365	0.5159	1.5000e-003	0.1777	1.0500e-003	0.1787	0.0472	9.7000e-004	0.0482	0.0000	140.2560	140.2560	3.4100e-003	3.4200e-003	141.3608
Total	**0.0525**	**0.2026**	**0.5767**	**2.2500e-003**	**0.2036**	**1.8500e-003**	**0.2055**	**0.0547**	**1.7400e-003**	**0.0564**	**0.0000**	**213.9354**	**213.9354**	**5.9200e-003**	**0.0140**	**218.2659**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	8.0700e-003	0.0132	2.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	1.8299	1.8299	2.5000e-004	0.0000	1.8361
Total	**0.3098**	**8.0700e-003**	**0.0132**	**2.0000e-005**		**3.4000e-004**	**3.4000e-004**		**3.4000e-004**	**3.4000e-004**	**0.0000**	**1.8299**	**1.8299**	**2.5000e-004**	**0.0000**	**1.8361**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.0000e-004	4.3000e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.1678	1.1678	3.0000e-005	3.0000e-005	1.1770
Total	**4.0000e-004**	**3.0000e-004**	**4.3000e-003**	**1.0000e-005**	**1.4800e-003**	**1.0000e-005**	**1.4900e-003**	**3.9000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.1678**	**1.1678**	**3.0000e-005**	**3.0000e-005**	**1.1770**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3088					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0300e-003	8.0700e-003	0.0132	2.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	1.8299	1.8299	2.5000e-004	0.0000	1.8361
Total	**0.3098**	**8.0700e-003**	**0.0132**	**2.0000e-005**		**3.4000e-004**	**3.4000e-004**		**3.4000e-004**	**3.4000e-004**	**0.0000**	**1.8299**	**1.8299**	**2.5000e-004**	**0.0000**	**1.8361**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.0000e-004	4.3000e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.1678	1.1678	3.0000e-005	3.0000e-005	1.1770
Total	**4.0000e-004**	**3.0000e-004**	**4.3000e-003**	**1.0000e-005**	**1.4800e-003**	**1.0000e-005**	**1.4900e-003**	**3.9000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.1678**	**1.1678**	**3.0000e-005**	**3.0000e-005**	**1.1770**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5577	0.4630	4.0803	6.8100e-003	0.6899	5.6100e-003	0.6955	0.1841	5.2000e-003	0.1893	0.0000	640.8990	640.8990	0.0638	0.0372	653.5675
Unmitigated	0.6828	0.6713	6.0175	0.0118	1.2295	9.0500e-003	1.2385	0.3280	8.4000e-003	0.3364	0.0000	1,110.0869	1,110.0869	0.0880	0.0536	1,128.2645

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	359.64	359.64	359.64	1,228,945	689,643
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	1,078.97	1,078.97	1078.97	1,470,451	825,168
Regional Shopping Center	264.94	264.94	264.94	573,034	321,568
Total	1,703.55	1,703.55	1,703.55	3,272,429	1,836,378

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Enclosed Parking with Elevator	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
High Turnover (Sit Down Restaurant)	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Regional Shopping Center	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	376.2962	376.2962	0.0263	3.1900e-003	377.9043
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	376.2962	376.2962	0.0263	3.1900e-003	377.9043
NaturalGas Mitigated	0.0228	0.2040	0.1492	1.2400e-003		0.0158	0.0158		0.0158	0.0158	0.0000	225.8121	225.8121	4.3300e-003	4.1400e-003	227.1540
NaturalGas Unmitigated	0.0228	0.2040	0.1492	1.2400e-003		0.0158	0.0158		0.0158	0.0158	0.0000	225.8121	225.8121	4.3300e-003	4.1400e-003	227.1540

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.1618e+006	6.2600e-003	0.0535	0.0228	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	61.9981	61.9981	1.1900e-003	1.1400e-003	62.3665
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.04819e+006	0.0164	0.1494	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.6629	162.6629	3.1200e-003	2.9800e-003	163.6295
Regional Shopping Center	21571.4	1.2000e-004	1.0600e-003	8.9000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1511	1.1511	2.0000e-005	2.0000e-005	1.1580
Total		**0.0228**	**0.2040**	**0.1492**	**1.2500e-003**		**0.0158**	**0.0158**		**0.0158**	**0.0158**	**0.0000**	**225.8121**	**225.8121**	**4.3300e-003**	**4.1400e-003**	**227.1540**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.1618e+006	6.2600e-003	0.0535	0.0228	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	61.9981	61.9981	1.1900e-003	1.1400e-003	62.3665
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.04819e+006	0.0164	0.1494	0.1255	9.0000e-004		0.0114	0.0114		0.0114	0.0114	0.0000	162.6629	162.6629	3.1200e-003	2.9800e-003	163.6295
Regional Shopping Center	21571.4	1.2000e-004	1.0600e-003	8.9000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1511	1.1511	2.0000e-005	2.0000e-005	1.1580
Total		**0.0228**	**0.2040**	**0.1492**	**1.2500e-003**		**0.0158**	**0.0158**		**0.0158**	**0.0158**	**0.0000**	**225.8121**	**225.8121**	**4.3300e-003**	**4.1400e-003**	**227.1540**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	415855	89.0290	6.2200e-003	7.5000e-004	89.4094
Enclosed Parking with Elevator	596224	127.6435	8.9200e-003	1.0800e-003	128.1890
High Turnover (Sit Down Restaurant)	572635	122.5935	8.5700e-003	1.0400e-003	123.1174
Regional Shopping Center	172968	37.0302	2.5900e-003	3.1000e-004	37.1885
Total		**376.2962**	**0.0263**	**3.1800e-003**	**377.9043**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	415855	89.0290	6.2200e-003	7.5000e-004	89.4094
Enclosed Parking with Elevator	596224	127.6435	8.9200e-003	1.0800e-003	128.1890
High Turnover (Sit Down Restaurant)	572635	122.5935	8.5700e-003	1.0400e-003	123.1174
Regional Shopping Center	172968	37.0302	2.5900e-003	3.1000e-004	37.1885
Total		**376.2962**	**0.0263**	**3.1800e-003**	**377.9043**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4380	0.0330	1.1257	1.9000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	25.1681	25.1681	2.2100e-003	4.3000e-004	25.3509
Unmitigated	0.4380	0.0330	1.1257	1.9000e-004		7.8100e-003	7.8100e-003		7.8100e-003	7.8100e-003	0.0000	25.1681	25.1681	2.2100e-003	4.3000e-004	25.3509

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0309					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3709					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.3600e-003	0.0202	8.5800e-003	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.3413	23.3413	4.5000e-004	4.3000e-004	23.4800
Landscaping	0.0338	0.0129	1.1171	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8268	1.8268	1.7700e-003	0.0000	1.8709
Total	**0.4380**	**0.0330**	**1.1257**	**1.9000e-004**		**7.8100e-003**	**7.8100e-003**		**7.8100e-003**	**7.8100e-003**	**0.0000**	**25.1681**	**25.1681**	**2.2200e-003**	**4.3000e-004**	**25.3509**

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0309					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3709					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.3600e-003	0.0202	8.5800e-003	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	23.3413	23.3413	4.5000e-004	4.3000e-004	23.4800
Landscaping	0.0338	0.0129	1.1171	6.0000e-005		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	1.8268	1.8268	1.7700e-003	0.0000	1.8709
Total	**0.4380**	**0.0330**	**1.1257**	**1.9000e-004**		**7.8100e-003**	**7.8100e-003**		**7.8100e-003**	**7.8100e-003**	**0.0000**	**25.1681**	**25.1681**	**2.2200e-003**	**4.3000e-004**	**25.3509**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	42.4768	0.3164	7.7400e-003	52.6938
Unmitigated	49.9486	0.3953	9.6500e-003	62.7064

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	7.03663 / 4.43614	32.3992	0.2314	5.6700e-003	39.8737
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	4.01575 / 0.256325	13.0781	0.1317	3.1900e-003	17.3206
Regional Shopping Center	0.979979 / 0.600633	4.4713	0.0322	7.9000e-004	5.5121
Total		**49.9486**	**0.3953**	**9.6500e-003**	**62.7064**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.62931 / 4.43614	28.0297	0.1853	4.5500e-003	34.0183
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	3.2126 / 0.256325	10.5844	0.1054	2.5500e-003	13.9789
Regional Shopping Center	0.783984 / 0.600633	3.8628	0.0258	6.3000e-004	4.6966
Total		**42.4768**	**0.3164**	**7.7300e-003**	**52.6939**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

1020 El Centro Street Project - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.2158	0.6628	0.0000	27.7866
Unmitigated	44.8630	2.6513	0.0000	111.1463

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	49.68	10.0846	0.5960	0.0000	24.9842
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	157.44	31.9589	1.8887	0.0000	79.1768
Regional Shopping Center	13.89	2.8195	0.1666	0.0000	6.9853
Total		**44.8630**	**2.6513**	**0.0000**	**111.1463**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	12.42	2.5212	0.1490	0.0000	6.2460
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	39.36	7.9897	0.4722	0.0000	19.7942
Regional Shopping Center	3.4725	0.7049	0.0417	0.0000	1.7463
Total		**11.2158**	**0.6628**	**0.0000**	**27.7866**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	56.6400	0.0000	0.0000	56.6400

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	80	56.6400	0.0000	0.0000	56.6400
Total		**56.6400**	**0.0000**	**0.0000**	**56.6400**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1020 El Centro Project Exisitng Ops ONLY

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	11.44	1000sqft	0.26	11,435.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2023
Utility Company	Clean Power Alliance				
CO2 Intensity (lb/MWhr)	471.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions for existing uses being removed.

Land Use - 11.435 TSF of Office (school admin building) being removed/reused.

Vehicle Trips - Existing office trips per TIA (inlcudes rdx for transit/walk-in) = 8.22 trips/TSF

Table Name	Column Name	Default Value	New Value
tblVehicleTrips	ST_TR	2.21	8.22
tblVehicleTrips	SU_TR	0.70	8.22
tblVehicleTrips	WD_TR	9.74	8.22

2.0 Emissions Summary

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0466	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.8000e-004	2.8000e-004	0.0000	0.0000	3.0000e-004
Energy	6.4000e-004	5.7800e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	36.8923	36.8923	2.2600e-003	3.7000e-004	37.0605
Mobile	0.0498	0.0578	0.5180	1.1000e-003	0.1138	8.2000e-004	0.1146	0.0304	7.6000e-004	0.0311	0.0000	103.1960	103.1960	7.1100e-003	4.5200e-003	104.7194
Waste						0.0000	0.0000		0.0000	0.0000	2.1598	0.0000	2.1598	0.1276	0.0000	5.3509
Water						0.0000	0.0000		0.0000	0.0000	0.6451	8.6321	9.2772	0.0669	1.6400e-003	11.4366
Total	**0.0970**	**0.0636**	**0.5230**	**1.1300e-003**	**0.1138**	**1.2600e-003**	**0.1150**	**0.0304**	**1.2000e-003**	**0.0315**	**2.8049**	**148.7206**	**151.5255**	**0.2039**	**6.5300e-003**	**158.5676**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0466	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.8000e-004	2.8000e-004	0.0000	0.0000	3.0000e-004
Energy	6.4000e-004	5.7800e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	36.8923	36.8923	2.2600e-003	3.7000e-004	37.0605
Mobile	0.0498	0.0578	0.5180	1.1000e-003	0.1138	8.2000e-004	0.1146	0.0304	7.6000e-004	0.0311	0.0000	103.1960	103.1960	7.1100e-003	4.5200e-003	104.7194
Waste						0.0000	0.0000		0.0000	0.0000	2.1598	0.0000	2.1598	0.1276	0.0000	5.3509
Water						0.0000	0.0000		0.0000	0.0000	0.6451	8.6321	9.2772	0.0669	1.6400e-003	11.4366
Total	**0.0970**	**0.0636**	**0.5230**	**1.1300e-003**	**0.1138**	**1.2600e-003**	**0.1150**	**0.0304**	**1.2000e-003**	**0.0315**	**2.8049**	**148.7206**	**151.5255**	**0.2039**	**6.5300e-003**	**158.5676**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0498	0.0578	0.5180	1.1000e-003	0.1138	8.2000e-004	0.1146	0.0304	7.6000e-004	0.0311	0.0000	103.1960	103.1960	7.1100e-003	4.5200e-003	104.7194
Unmitigated	0.0498	0.0578	0.5180	1.1000e-003	0.1138	8.2000e-004	0.1146	0.0304	7.6000e-004	0.0311	0.0000	103.1960	103.1960	7.1100e-003	4.5200e-003	104.7194

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	94.00	94.00	94.00	302,803	302,803
Total	94.00	94.00	94.00	302,803	302,803

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.6010	30.6010	2.1400e-003	2.6000e-004	30.7318
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	30.6010	30.6010	2.1400e-003	2.6000e-004	30.7318
NaturalGas Mitigated	6.4000e-004	5.7800e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2913	6.2913	1.2000e-004	1.2000e-004	6.3287
NaturalGas Unmitigated	6.4000e-004	5.7800e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2913	6.2913	1.2000e-004	1.2000e-004	6.3287

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	117895	6.4000e-004	5.7800e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2913	6.2913	1.2000e-004	1.2000e-004	6.3287
Total		**6.4000e-004**	**5.7800e-003**	**4.8500e-003**	**3.0000e-005**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**6.2913**	**6.2913**	**1.2000e-004**	**1.2000e-004**	**6.3287**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	117895	6.4000e-004	5.7800e-003	4.8500e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2913	6.2913	1.2000e-004	1.2000e-004	6.3287
Total		**6.4000e-004**	**5.7800e-003**	**4.8500e-003**	**3.0000e-005**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**6.2913**	**6.2913**	**1.2000e-004**	**1.2000e-004**	**6.3287**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	142938	30.6010	2.1400e-003	2.6000e-004	30.7318
Total		**30.6010**	**2.1400e-003**	**2.6000e-004**	**30.7318**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	142938	30.6010	2.1400e-003	2.6000e-004	30.7318
Total		**30.6010**	**2.1400e-003**	**2.6000e-004**	**30.7318**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0466	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.8000e-004	2.8000e-004	0.0000	0.0000	3.0000e-004
Unmitigated	0.0466	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.8000e-004	2.8000e-004	0.0000	0.0000	3.0000e-004

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0413					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.8000e-004	2.8000e-004	0.0000	0.0000	3.0000e-004
Total	**0.0466**	**0.0000**	**1.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.8000e-004**	**2.8000e-004**	**0.0000**	**0.0000**	**3.0000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.3000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0413					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.8000e-004	2.8000e-004	0.0000	0.0000	3.0000e-004
Total	**0.0466**	**0.0000**	**1.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.8000e-004**	**2.8000e-004**	**0.0000**	**0.0000**	**3.0000e-004**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.2772	0.0669	1.6400e-003	11.4366
Unmitigated	9.2772	0.0669	1.6400e-003	11.4366

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.03327 / 1.2462	9.2772	0.0669	1.6400e-003	11.4366
Total		**9.2772**	**0.0669**	**1.6400e-003**	**11.4366**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.03327 / 1.2462	9.2772	0.0669	1.6400e-003	11.4366
Total		**9.2772**	**0.0669**	**1.6400e-003**	**11.4366**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.1598	0.1276	0.0000	5.3509
Unmitigated	2.1598	0.1276	0.0000	5.3509

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	10.64	2.1598	0.1276	0.0000	5.3509
Total		**2.1598**	**0.1276**	**0.0000**	**5.3509**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	10.64	2.1598	0.1276	0.0000	5.3509
Total		**2.1598**	**0.1276**	**0.0000**	**5.3509**

1020 El Centro Project Exisitng Ops ONLY - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX C: EMFAC DATA

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2023	HHDT	Aggregate	Aggregate	Gasoline	77.76705152	1555.963167	0	1.13577086	1135.77086	1902570.073	4463.059823	11350616.67	**5.97**	**HHDT**
South Coast	2023	HHDT	Aggregate	Aggregate	Diesel	88939.48335	1354183.938	0	1901.434302	1901434.302		11341687.62			
South Coast	2023	HHDT	Aggregate	Aggregate	Electricity	69.55210742	1090.269168	7969.44745	0	0		4465.990707			
South Coast	2023	HHDT	Aggregate	Aggregate	Natural Gas	9734.51825	62334.09461	0	108.4243363	108424.3363	7680508.917	635905.4264	228542169.3	**29.76**	**LDA**
South Coast	2023	LDA	Aggregate	Aggregate	Gasoline	5370115.979	25014254.84	0	7560.140191	7560140.191		216250190.4			
South Coast	2023	LDA	Aggregate	Aggregate	Diesel	15648.45784	65526.69936	0	11.94439033	11944.39033		486634.8854			
South Coast	2023	LDA	Aggregate	Aggregate	Electricity	241152.5368	1208859.723	4312325.17	0	0		11169438.62			
South Coast	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	136333.5236	563739.1202	971420.6342	116.5989322	116598.9322	870253.2499	6496196.814	24547955.06	**28.21**	**LDT1**
South Coast	2023	LDT1	Aggregate	Aggregate	Gasoline	499113.9009	2195668.394	0	753.4930394	753493.0394		18009866.74			
South Coast	2023	LDT1	Aggregate	Aggregate	Diesel	197.6298759	575.4909742	0	0.161278255	161.278255		3756.265001			
South Coast	2023	LDT1	Aggregate	Aggregate	Electricity	1012.723437	4715.252993	14723.34847	0	0		38135.23576			
South Coast	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	463.9603347	1918.475984	3964.563568	0.400339089	400.3390888	4351441.574	24314.99018	100316975.8	**23.05**	**LDT2**
South Coast	2023	LDT2	Aggregate	Aggregate	Gasoline	2429950.117	11422828.59	0	4340.074795	4340074.795		100292660.9			
South Coast	2023	LDT2	Aggregate	Aggregate	Diesel	7734.815855	37335.71589	0	10.96643985	10966.43985		337920.5463			
South Coast	2023	LDT2	Aggregate	Aggregate	Electricity	11160.73812	57317.98395	159502.5609	0	0		413130.7341			
South Coast	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	17128.65814	70827.00142	136848.0138	14.88755019	14887.55019	604831.9262	867992.1123	8688662.767	**14.37**	**LHDT1**
South Coast	2023	LHDT1	Aggregate	Aggregate	Gasoline	200398.3929	2985637.46	0	589.944376	589944.376		7820670.654			
South Coast	2023	LHDT1	Aggregate	Aggregate	Diesel	99896.36028	1256570.543	0	206.0356758	206035.6758	305180.3742	4194656.56	5351327.632	**17.53**	**LHDT2**
South Coast	2023	LHDT2	Aggregate	Aggregate	Gasoline	31213.47663	465034.2937	0	99.14469838	99144.69838		1156671.072			
South Coast	2023	LHDT2	Aggregate	Aggregate	Diesel	43691.53059	549584.4908	0	107.1632097	107163.2097	107163.2097	1828609.129	1828609.129	**17.06**	**MCY**
South Coast	2023	MCY	Aggregate	Aggregate	Gasoline	237586.076	475172.1521	0	36.88140998	36881.40998	3258846.142	1522726.619	62822547.87	**19.28**	**MDV**
South Coast	2023	MDV	Aggregate	Aggregate	Gasoline	1559902.035	7210563.701	0	3188.051046	3188051.046		60070040.07			
South Coast	2023	MDV	Aggregate	Aggregate	Diesel	19613.50466	92462.53217	0	33.91368569	33913.68569		784655.9403			
South Coast	2023	MDV	Aggregate	Aggregate	Electricity	12017.75416	61732.39119	171855.0799	0	0		445125.2375			
South Coast	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	10053.44096	41570.97836	70940.44124	8.322835871	8322.835871	67468.7074	464374.4805	752062.2021	**11.15**	**MH**
South Coast	2023	MH	Aggregate	Aggregate	Gasoline	30468.55432	3048.074174	0	59.14587153	59145.87153		287687.7216			
South Coast	2023	MH	Aggregate	Aggregate	Diesel	11533.11741	1153.311741	0	11.30112611	11301.12611	819648.6117	114141.8155	6302753.398	**7.69**	**MHDT**
South Coast	2023	MHDT	Aggregate	Aggregate	Gasoline	25436.77287	508938.9517	0	266.1846594	266184.6594		1361855.942			
South Coast	2023	MHDT	Aggregate	Aggregate	Diesel	112753.1691	1384256.954	0	542.1628262	542162.8262		4826755.64			
South Coast	2023	MHDT	Aggregate	Aggregate	Electricity	60.14211345	769.7741807	1354.591964	0	0	52048.54694	1295.841104	289973.7428	**5.57**	**OBUS**
South Coast	2023	MHDT	Aggregate	Aggregate	Natural Gas	1405.746156	12603.45034	0	8.268140472	8268.140472		68507.0989			
South Coast	2023	OBUS	Aggregate	Aggregate	Gasoline	5457.340752	109190.4738	0	43.78040647	43780.40647		220170.8028			
South Coast	2023	OBUS	Aggregate	Aggregate	Diesel	2949.128306	37294.91051	0	33.32983706	33329.83706	50038.16004	233227.1381	381057.5339	**7.62**	**SBUS**
South Coast	2023	OBUS	Aggregate	Aggregate	Natural Gas	467.0036657	4156.332625	0	3.280062265	3280.062265		28665.48863			
South Coast	2023	SBUS	Aggregate	Aggregate	Gasoline	2711.533402	10846.13361	0	13.42826072	13428.26072		119164.9071			
South Coast	2023	SBUS	Aggregate	Aggregate	Diesel	3377.128927	48900.82686	0	9.464602039	9464.602039	41441.52119	69271.73995	241028.6401	**5.82**	**UBUS**
South Coast	2023	SBUS	Aggregate	Aggregate	Electricity	3.674682915	53.20940862	49.36713892	0	0		42.69400814			
South Coast	2023	SBUS	Aggregate	Aggregate	Natural Gas	2976.329163	43097.24627	0	17.80624767	17806.24767		74753.64709			
South Coast	2023	UBUS	Aggregate	Aggregate	Gasoline	894.3697717	3577.479087	0	14.17067148	14170.67148		96960.55907			
South Coast	2023	UBUS	Aggregate	Aggregate	Diesel	14.61165815	58.44663261	0	0.262644403			1749.021883			
South Coast	2023	UBUS	Aggregate	Aggregate	Electricity	58.03212573	232.1285029	5326.224873	0			2539.586791			
South Coast	2023	UBUS	Aggregate	Aggregate	Natural Gas	4957.576963	19830.30785	0	190.2775974			593592.4153			

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2024	HHDT	Aggregate	Aggregate	Gasoline	64.44258918	1289.367324	0	1.014953313	1014.953313	2024777.341	4089.563798	12241163.02	**6.05**	**HHDT**
South Coast	2024	HHDT	Aggregate	Aggregate	Diesel	92441.35478	1412165.896	0	1913.394963	1913394.963		11547992.76			
South Coast	2024	HHDT	Aggregate	Aggregate	Electricity	291.6455699	3957.931048	53675.68637	0	0		29968.60823			
South Coast	2024	HHDT	Aggregate	Aggregate	Natural Gas	10239.41118	65591.6649	0	110.3674239	110367.4239		659112.0885			
South Coast	2024	LDA	Aggregate	Aggregate	Gasoline	5306414.643	24694249.92	0	7344.088111	7344088.111	7477826.02	213709568	234427100.1	**31.35**	**LDA**
South Coast	2024	LDA	Aggregate	Aggregate	Diesel	14576.24539	60769.87324	0	10.8801639	10880.1639		447477.6987			
South Coast	2024	LDA	Aggregate	Aggregate	Electricity	278128.8376	1389682.584	5111363.117	0	0		13239042.59			
South Coast	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	148523.7719	614145.7966	1077276.451	122.8577446	122857.7446		7031011.891			
South Coast	2024	LDT1	Aggregate	Aggregate	Gasoline	490973.66	2160511.155	0	732.0519082	732051.9082	732790.8073	17788975.08	17880208.77	**24.40**	**LDT1**
South Coast	2024	LDT1	Aggregate	Aggregate	Diesel	178.9755587	511.7069897	0	0.143610092	143.6100917		3350.970633			
South Coast	2024	LDT1	Aggregate	Aggregate	Electricity	1222.38175	5792.038269	19502.00434	0	0		50512.52673			
South Coast	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	719.1459798	2973.668627	6252.19918	0.595288961	595.288961		37370.18633			
South Coast	2024	LDT2	Aggregate	Aggregate	Gasoline	2478766.891	11657788.42	0	4349.789244	4349789.244	4378677.328	102696789.3	104694804	**23.91**	**LDT2**
South Coast	2024	LDT2	Aggregate	Aggregate	Diesel	8144.015434	39238.54602	0	11.30594953	11305.94953		354089.2658			
South Coast	2024	LDT2	Aggregate	Aggregate	Electricity	16093.72479	82313.84321	227422.9885	0	0		589052.7755			
South Coast	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	21096.29549	87233.18184	170348.4264	17.58213479	17582.13479		1054872.659			
South Coast	2024	LHDT1	Aggregate	Aggregate	Gasoline	200171.2476	2982253.334	0	578.7247685	578724.7685	792458.1109	7891021.12	12336952.39	**15.57**	**LHDT1**
South Coast	2024	LHDT1	Aggregate	Aggregate	Diesel	103884.7559	1306739.542	0	213.7333424	213733.3424		4387648.579			
South Coast	2024	LHDT1	Aggregate	Aggregate	Electricity	772.5188678	10791.59936	32624.15974	0	0		58282.68619			
South Coast	2024	LHDT2	Aggregate	Aggregate	Gasoline	31062.46526	462784.4493	0	96.72139231	96721.39231	208303.4828	1155378.828	3095264.249	**14.86**	**LHDT2**
South Coast	2024	LHDT2	Aggregate	Aggregate	Diesel	45926.82058	577701.627	0	111.5820905	111582.0905		1925592.444			
South Coast	2024	LHDT2	Aggregate	Aggregate	Electricity	199.9520404	2646.759351	8006.869611	0	0		14292.97674			
South Coast	2024	MCY	Aggregate	Aggregate	Gasoline	242059.9929	484119.9858	0	37.44895514	37448.95514	37448.95514	1554780.429	1554780.429	**41.52**	**MCY**
South Coast	2024	MDV	Aggregate	Aggregate	Gasoline	1571312.1	7270009.961	0	3162.700535	3162700.535	3206338.183	60817091.34	62832018.9	**19.60**	**MDV**
South Coast	2024	MDV	Aggregate	Aggregate	Diesel	19826.89781	93051.64962	0	33.54860069	33548.60069		786624.2122			
South Coast	2024	MDV	Aggregate	Aggregate	Electricity	17569.44798	89870.84023	248334.7848	0	0		643216.8322			
South Coast	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	12690.57185	52475.51459	92596.30611	10.08904803	10089.04803		585086.5214			
South Coast	2024	MH	Aggregate	Aggregate	Gasoline	29244.94397	2925.664195	0	57.51222476	57512.22476	68984.14797	279544.6577	395398.9997	**5.73**	**MH**
South Coast	2024	MH	Aggregate	Aggregate	Diesel	11703.55798	1170.355798	0	11.47192321	11471.92321		115854.342			
South Coast	2024	MHDT	Aggregate	Aggregate	Gasoline	24845.17438	497102.249	0	256.9342026	256934.2026	812250.5213	1326417.556	6295601.951	**7.75**	**MHDT**
South Coast	2024	MHDT	Aggregate	Aggregate	Diesel	114693.757	1409921.86	0	546.7152883	546715.2883		4878223.739			
South Coast	2024	MHDT	Aggregate	Aggregate	Electricity	355.3876422	4781.870526	20310.12518	0	0		19393.49808			
South Coast	2024	MHDT	Aggregate	Aggregate	Natural Gas	1491.278079	13281.28453	0	8.601030453	8601.030453		71567.15805			
South Coast	2024	OBUS	Aggregate	Aggregate	Gasoline	5296.379398	105969.959	0	41.44060197	41440.60197	78066.51924	209991.62	473651.4166	**6.07**	**OBUS**
South Coast	2024	OBUS	Aggregate	Aggregate	Diesel	2997.3176	37996.11149	0	33.30106375	33301.06375		233646.4445			
South Coast	2024	OBUS	Aggregate	Aggregate	Electricity	11.86106715	237.3162316	941.3362619	0	0		895.192351			
South Coast	2024	OBUS	Aggregate	Aggregate	Natural Gas	480.7769521	4278.914873	0	3.324853528	3324.853528		29118.15975			
South Coast	2024	SBUS	Aggregate	Aggregate	Gasoline	2763.091965	11052.36786	0	13.6568139	13656.8139	40972.05843	121721.653	266076.6289	**6.49**	**SBUS**
South Coast	2024	SBUS	Aggregate	Aggregate	Diesel	3283.370627	47543.20668	0	9.104107226	9104.107226		66807.29386			
South Coast	2024	SBUS	Aggregate	Aggregate	Electricity	21.89425828	248.8609268	740.8107178	0	0		640.6727128			
South Coast	2024	SBUS	Aggregate	Aggregate	Natural Gas	3093.465789	44793.38463	0	18.21113731	18211.13731		76907.00926			
South Coast	2024	UBUS	Aggregate	Aggregate	Gasoline	894.3284655	3577.313862	0	13.89822542	13898.22542	201736.9577	96953.45183	218542.299	**1.08**	**UBUS**
South Coast	2024	UBUS	Aggregate	Aggregate	Diesel	14.32857314	57.31429256	0	0.259550733	259.5507326		1721.679298			
South Coast	2024	UBUS	Aggregate	Aggregate	Electricity	109.3235246	437.2940985	19519.17282	0	0		9364.629999			
South Coast	2024	UBUS	Aggregate	Aggregate	Natural Gas	4918.59249	19674.36996	0	187.5791815	187579.1815		588192.4297			

Appendix E

Historic Resource Evaluation

Kimley»Horn

Historic Resource Evaluation

1020 El Centro Street

South Pasadena CA

December 15, 2021 (Rev. June 30, 2022)



Joseph Catalano AIA
Historic Preservation Consultant
480 North Lima Street, Sierra Madre CA 91024

Historic Resource Evaluation

1020 El Centro Street

South Pasadena CA

December 15, 2021 (Rev. June 30, 2022)

Joseph Catalano AIA
Historic Preservation Consultant
480 North Lima Street, Sierra Madre CA 91024
(626) 975-0757
jcatalano@jwca.net

Prepared for:
Gangi Architects

INDEX:

A. Executive Summary…… Page 1
B. Property and Location Data…… Page 1
MAP NO. 1 Location in Mission Street Specific Plan… . Page 2
MAP NO. 2 Location in Historic District……. Page 2
MAP NO. 3 Site Map…… Page 3
C. Administrative Background…… Page 4
D. Developmental History…… Page 4
E. Character Defining Features…… Page 5
F. Existing Conditions…… Page 10
G. Proposed Work and Treatment Plan…… Page 12
H. Proposed Project and Impacts of Sections E, F and G…….. Page 16
Drawing No. H.1 School Building Elevations and Section
Drawing No. H.2 School Building Elevations and Sections
Drawing No. H.3 Auditorium Elevations and Sections
Drawing No. H.4 Floor Plan
Drawing No. H.5 Roof Plan
APPENDIX NO. 1 Preliminary Structural Assessment…… (7 Pages)
APPENDIX NO. 2 Door and Window Types…… (11 Pages)
APPENDIX NO. 3 Proposed Roof Tiles…… (2 Pages)

A. EXECUTIVE SUMMARY

Joseph Catalano AIA, a qualified Historic Architect, has been retained by the developer to perform an Historic Resource Evaluation of the former South Pasadena Unified School District building at 1020 El Centro in South Pasadena.

This evaluation is being performed as part of a Certificate of Appropriateness Application for the building, which is proposed to be adaptively re-used and incorporated in the redevelopment of the remainder of the block.

The site is within both a National Register Historic district, and also within the City of south Pasadena's Mission Street Specific Plan. The subject building comprises the School building itself, the Auditorium, and the connecting Loggia. The building is a contributor within the district. The remainder of the site is paved for vehicle parking.

The conclusions of the report are as follows:

1. The building has a State Resources Status Code of 1D, meaning that it has been identified as a Contributor in a National Register Historic District.

2. The adaptive reuse of the building will follow The Secretary of the Interior's Standards and Guidelines for the treatment category of *Adaptive Reuse*. This report concludes with the Proposed Work and Treatment Plan for the building, for its incorporation into the proposed project. Compliance monitoring will be provided by a qualified Historic Architect. (See Sect. G, Proposed Work and Treatment Plan.)

3. The building is eligible for, and and will apply for the Federal historic restoration tax incentive program.

4. The adaptive reuse of the building qualifies for a CEQA Class 31 Categorical Exemption, based on 1, 2 and 3 above.

5. The building is largely unaltered from its construction in 1928, except for the interior spaces, the removal of the original tower, and the change in roofing material from clay tile to composition shingles. The building's general condition appears to be good. (See Sect. F, Existing Conditions.) Also the building possibly needs seismic upgrading to meet the present California State Building Code for purposes of its proposed new Occupancy use.

6. Under the proposed project the building exterior will remain unaltered and will be restored with no significant negative impacts.

B. PROPERTY AND LOCATION DATA

The subject building on the property is the former administrative offices of the South Pasadena Unified School District, until sold to the developer as of September 1, 2021. It is identified as given below:

1. Property address: 1020 El Centro Avenue, South Pasadena CA 90030.
2. Los Angeles County Assessor Parcel Number 5315-008-900.
3. USGS 7.5' Quad: Latitude 34 deg. 6'55.66"N, Longitude 118 deg. 9'20.55"W.
4. Lot Area: Approximately 82,424.66 square feet or approximately 1.89 acres.
5. Structures: (1) single story School building and (1) single story Auditorium, connected by a Loggia.
6. Date(s) built: The School building itself is docketed as built in 1928. There is conjecture that the Auditorium was built later, and presumably the Loggia with it, thought no documentation has been found to verify this.

7. California Historical Resource code: 1D. (Contributor to a district…….listed in National Register by the Keeper. Listed in the California Register.

8. District per Item 7 above: Mission West/Historic Business District.
9. Property is also within the City of South Pasadena Mission Street Specific Plan.

(See maps on the following two pages)

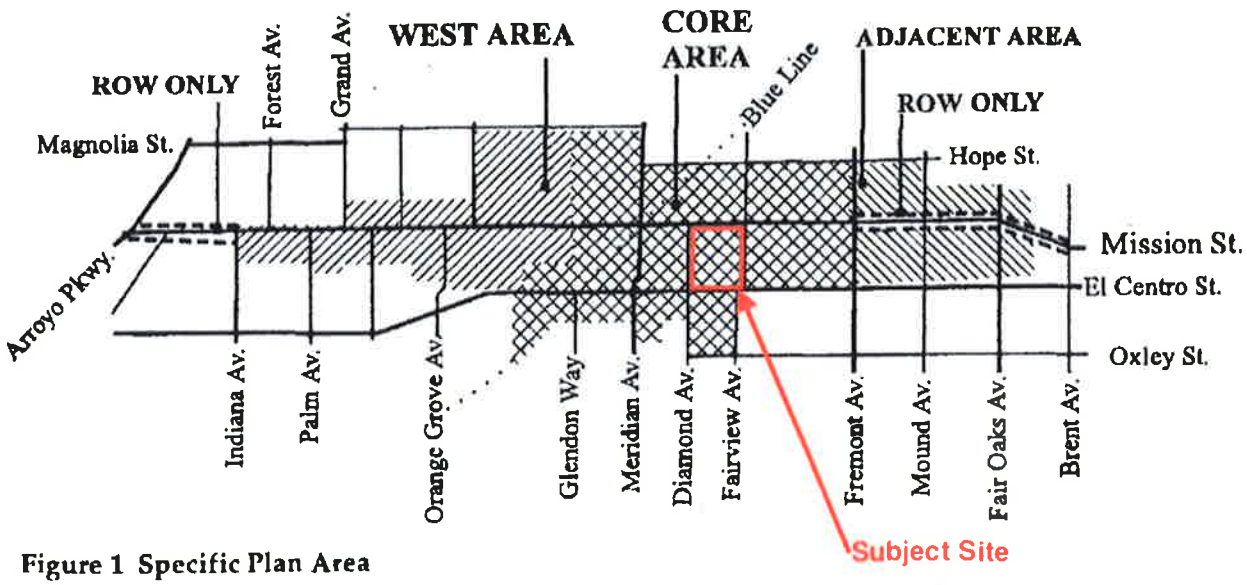
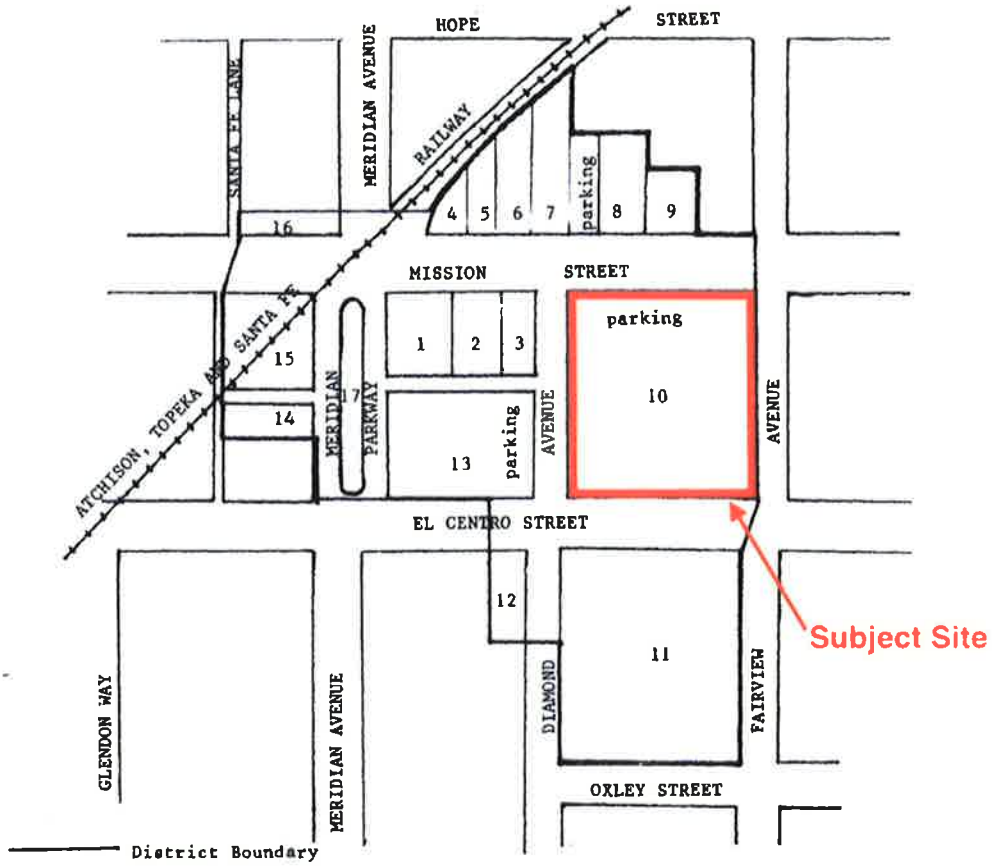
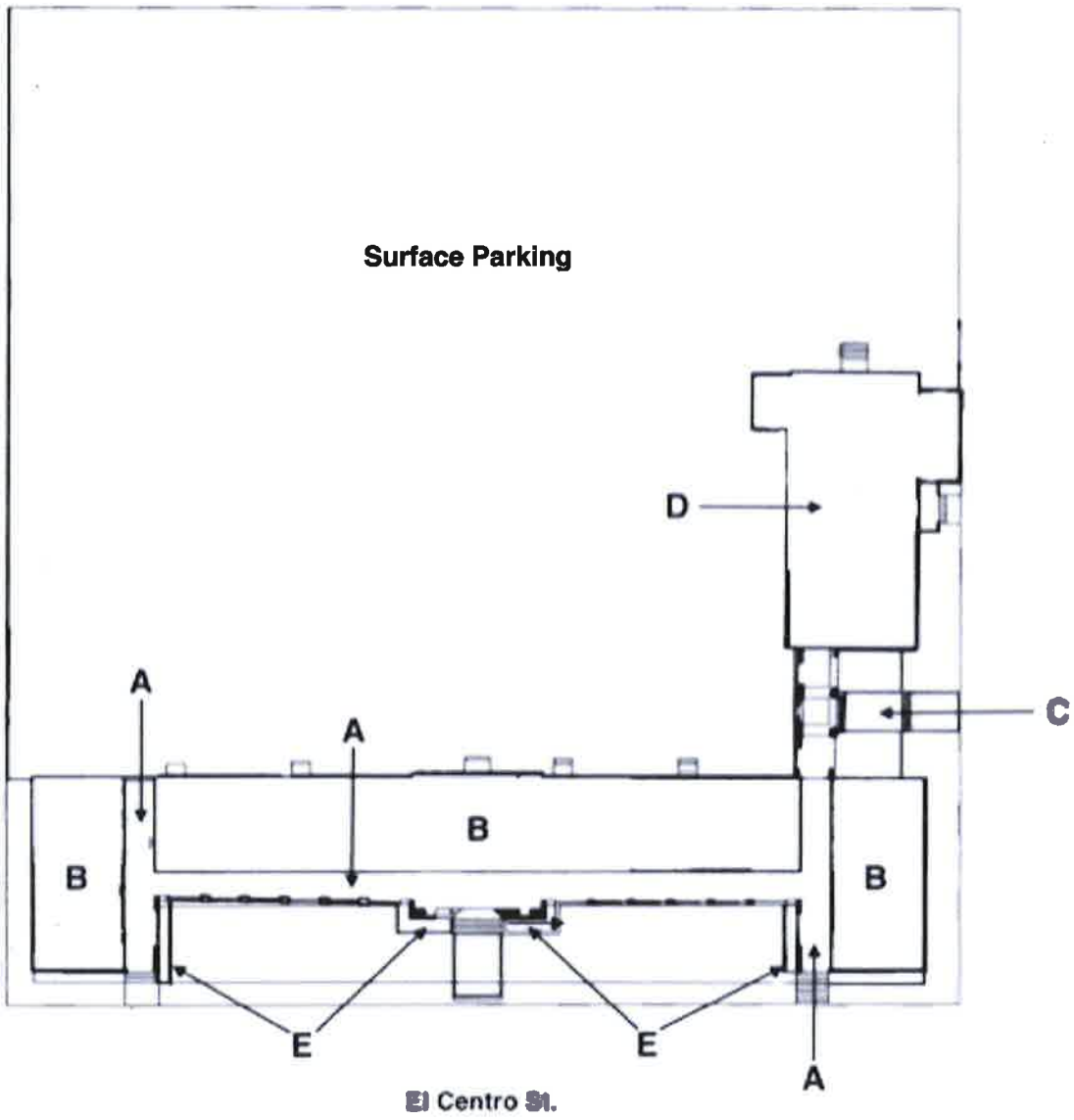


Figure 1 Specific Plan Area

MAP NO. 1 Subject Site location in the Mission Street Specific Plan
(Map from Mission Street Specific Plan document)



MAP NO.2 Subject Site location in the National Register Historic District
(Map from the National Register Nomination papers)



A Arcades in School Building
B School Building interior Spaces
C Loggia
D Auditorium
E Damaged Planters

MAP NO.3 Existing subject structures on site at 1020 El Centro Street

C. ADMINISTRATIVE BACKGROUND

This Evaluation will begin with the evaluation of the building** and the proposed project, and will accept that this is being performed with the building already having had a State Resources Status Code of 1D assigned to it. As such, there is no need as part of this evaluation to review for historic designation Criteria, because, as the State Office of Historic Preservation has confirmed, a Contributor is treated as if it were a designated building for purposes of compliance with *The Secretary of the Interior's Standards.*

Therefore as a practical matter this evaluation will proceed per this guidance, and further will proceed under the treatment directions for *Adaptive Reuse.* The reasons for this are:

1. That the use is changed from a school building to commercial space under this proposal.
2. That there is not an historical or aesthetic basis to support use of Historic Restoration treatment.

The general outline of this evaluation in the following sections will be:

1. The Developmental History of the building.
2. Analysis of the *Character Defining Features.*
3. Description of existing conditions.
4. Proposed work and Treatment as in compliance with The Secretary of the Interior's Standards.
5 Impacts of the proposed work.

(** Please note that throughout this report the term "building" will refer to the combined structure of the School Building, the Auditorium and the Loggia.)

D. DEVELOPMENTAL HISTORY

1. Construction dates:

a) School building construction 1928
b) Auditorium construction date is not certain. Possibly between 1928 and 1932.
c) Loggia evidently built with Auditorium.

2. Uses/Significant Dates:

a) Original construction as an elementary school 1928.
b) Construction of Auditorium and Loggia see 1. above.
c) Inclusion in Historic District as a Contributor 1977.
d) Converted to office use as School District offices 1979.
e) Vacated and sold to developer 2021.

3. Significant Alterations:

a) Bell Tower removed 1949.
b) School interior spaces ('B' on plan, Page 3) altered to office use 1979.
c) Clay tile roof (appears to be Mission or 'S' Type) replaced with asphalt composition shingles (Date unknown)
d) (Apparently) cast stone columns either side of front entrance removed. Date unknown.
e) Verify exterior and arcade doors replaced. Date unknown.
f) Classroom sliders sealed, probably in 1979 as part of office space conversion.
g) Rooftop HVAC units probably installed in 1979 as part of office space conversion.
h) Stucco over brick at School East and West Elevations and two South Elevation panels. Possible at Auditorium also.

4. Period of Significance:

The period of Historic Significance extends from the original construction in 1928 to 1949 when the Bell Tower was removed, or 21 years after the original construction The building's chief exterior characteristics have remained basically unaltered since that removal, which is 72 years ago from the date of this report. This is considerably longer than the length of time the Bell Tower actually existed. Therefore the building has acquired

significance in its own right without the Tower, including its inclusion as a Contributor in the Historic District, since that time.

5. Existing Documentation:

a) Permit History and Record Drawings not available.
b) HABS/HAER Documentation: On-line search indicates that the building is not recorded..
c) Historic Photographs.
d) City of South Pasadena Historic Resources Survey, June 17, 2017, Inventory page 43.
e) National Register of Historic Places Nomination Form, Mission West Historic Business District.

E. CHARACTER DEFINING FEATURES

With respect to the *Integrity of the resource (as defined)*, from the 1949 date per D.4 above, there have been no exterior alterations that have significantly impacted the character defining form of the building. Included in this, is that there have been none since its identification as a Contributor to the Historic District in 1977.

The building is classified as being *Romanesque Revival* in style. While this is true from the standpoint of the building's fabric, it also is somewhat uncharacteristic of the style in its sprawling single story configuration. This may reflect the following:

a) First, a developing trend in the last century away from multi-story, tall-massed school buildings to a "suburban" configuration, so to speak, closer to the ground and more spread out.

b) Second, a developing trend at the time in California of opening interior spaces to the outdoors, reflecting the favorable climate and the inclusion of outdoor activities for the students.

Within this configuration the *Romanesque Revival* style and detailing communicated civic importance which might otherwise have been lost during the transitions in school design described above.

There are at present four alterations that have affected the character definition of the building, below a level of significance, and it should be emphasized that none of these has degraded the definition significantly, due to the strength of the fundamental strength of its architecture. These are discussed briefly below:

a) Bell Tower: The Bell Tower was an odd feature on the building and its loss does not degrade the building. Its style was completely incongruous and incompatible with the building's style generally. Also, towers and turrets in Romanesque Revival always were integrated vertically into the main massing of the building. Admittedly this would be difficult to achieve on a single story building. However the tower appeared to be an alien object on the middle of the roof.

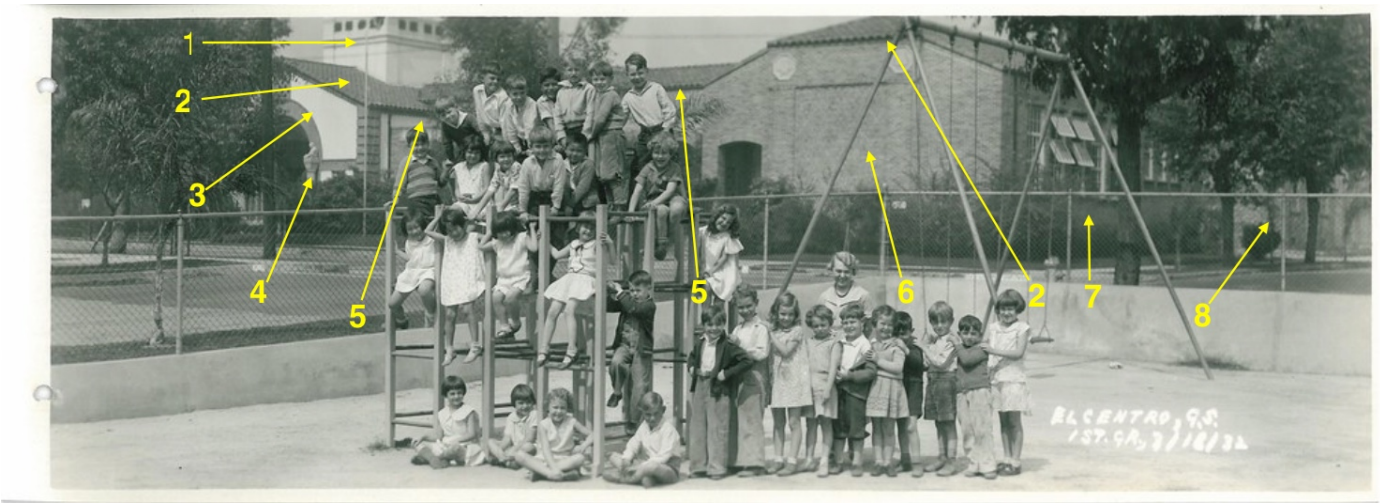
b) Use of Stucco: The 1928 photograph below indicates a mix of brickwork and stucco, with stucco around the main entrance and in the Arcade. Also that the end mass of building at Fairview Avenue was entirely brick.At some point the East Elevation was refinished in stucco, as was its center panel facing El Centro. The West Elevation received the same treatment.

c) Roof Extension over Arcade: Originally the roof over the two segments of Arcade to either side of the main entry were flat, with the building wall behind stepping up to the roof eaves. At some point, likely coinciding with the change in roof material (per below) the pitched roof was extended to the front wall of the Arcade.

d) Roof Material: The original roof material was clay tile, either Mission or 'S' Type, as seen on early photographs. It was later changed to three tab composition shingles.

e) Asphalt Paving: The entire remainder of the site is paved at present and used for parking. The conditions outside adjacent to the building during its use as a school are not known. However, the existing exterior concrete steps at the north Elevation, apparently original, indicate that there had been a fairly level grade slightly below that of the existing asphalt.

(Text continues on Page 7)



Photograph dated 1932, which is four years after the building's construction. It supports information in E. Character Defining Features and F. Existing Conditions. per this Key:

1. *Bell Tower (also see photograph below)*
2. *Clay tile roof*
3. *Stucco panel*
4. *Cast stone column with sculptured capital, either side of Entry*
5. *Visual evidence of original eave line over Arcade*
6. *Center panel originally brick.*
7. *East Elevation originally brick.*
8. *Inconclusive evidence consistent with Auditorium that would include its construction no later than 1932, with brick exterior.*



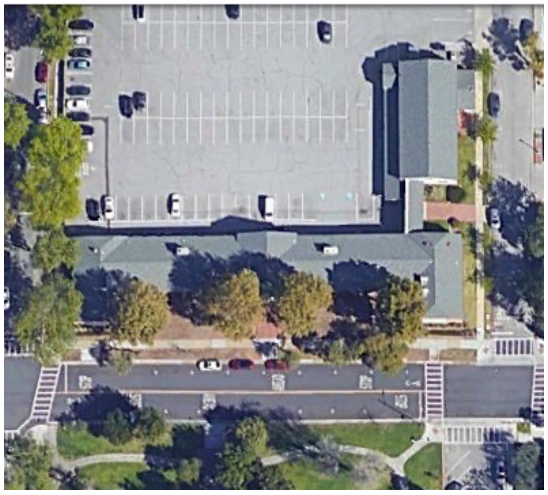
Undated photograph of Bell Tower

(Text continued from Page 5)

The following analysis of the building's Character Defining Features generally follows the format of National Park Service *Preservation Brief No. 17, Architectural Character-Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character.*

1. <u>Overall Visual Aspects</u>:

a) Shape and Form:





As noted previously the shape and form of the building is an early example of a "suburban" school with forms spread out horizontally and low to the ground. The masses are articulated unlike other contributing buildings in the Historic District, that are "zero lot line" with flat facades at the street line. Also the pitched roofs distinguish it from the other buildings which have flat roofs.





Further distinguishing the form are the Arcades and the arched openings in them, which penetrate the facade and, in the case of the two north-south Arcades, also penetrate through the building to the north side of the site.

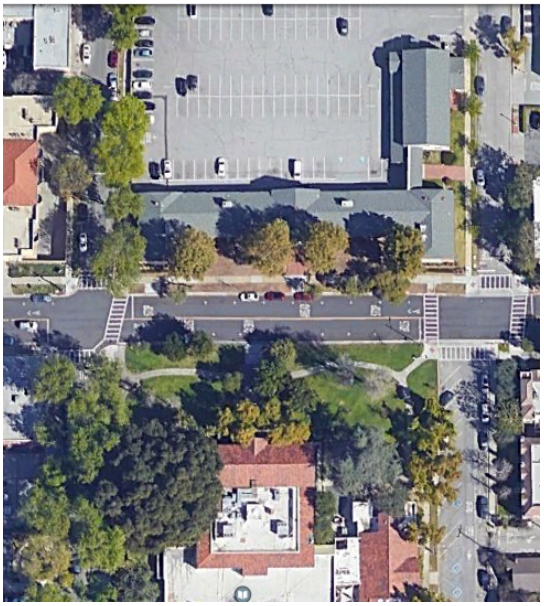
(Continued)





The Loggia (above left) connecting the School and Auditorium, performs similar functions and also allows passage through to the interior of the site. Repeating patterns of large Classroom windows are notable features on the east, west and north facades.

b) Setting:



The other building within the Historic District having a noteworthy figure is the Public Library directly across El Centro Street. Both also share block front-wide green space. This is in contrast to the other pattern in the Historic District of street line building facades.

(Continued)

2. Materials and Craft Details:









Character Defining Features are in the brick and cast stone work at the level of material and craft detail This includes the brick blend as well as the craft details. and the use of forms that support the Romanesque Revival sense of civic importance.

(Continued)

3. Interior Characteristics:





The interior spaces in the School Building (identified as 'B' on Map No. 3. page 3) are utilitarian, have no character defining features, other than the high ceilings and good light and air of the old classrooms, and do not impact the building's role as a Contributor. Significant however are the groups of vertical sliding panels at each classroom (above right), opening to the Arcade, which will be restored to use under the development proposal. The Auditorium comprises one main space, a proscenium arch stage and support spaces. As seen above (left) its exposed structure, large decorative light fixtures and wood paneling distinguish it from the other spaces, though not a significant work in and of itself.

F. EXISTING CONDITIONS

The building has a high level of *Integrity* (as defined), both from the standpoint of having minimal impacts on its *Character Defining Features*, as described above, and its present physical condition.

In general, and as described in Section G. below, the entire building will be treated per *The Secretary of the Interior's Standards*, including all minor defects such as stucco cracks.There are however a number of specific defects and areas for further investigation to note in particular, as follows:

1. **Structural:** The consulting Structural Engineer for the building has performed a preliminary analysis. While the building is generally sound, certain Code upgrades may be required for the new Occupancy. It is apparent from physical examination that some seismic upgrading has been performed in the past. However there is uncertainty about which Code version work may have been performed under due to unavailability of building permit records, at present, which would aid in the engineering analysis. Further examination, testing and analysis will be required during design development, and Deferred Submittals may be in order. It needs to be determined first if the present retrofit meets current Code, and whether it resolves all the seismic vulnerabilities. Therefore the Structural Engineer's recommendation are "possible retrofit measures," and qualified as being "if analysis proves remediation is necessary."

   Possible measures are listed in Section G Structural Upgrade below, and discussed more fully in Appendix 1.

2. **Windows:** Existing wood windows are in fair to poor condition due to weather exposure. However the issue of whether to restore or replace may be affected by Code-required energy calculations and analysis, as referred to in Section G., Item 8 below.This cannot be determined until during Design Development and and Deferred Submittals may be in order.

(Continued)

3. **HVAC:** Existing rooftop units will be removed. See Section G., Item 20 and 21 below. (Photo below left.)





4. **Planters:** Four damaged planters (Photo above right.) per Section G., Item 1 below, caused by growth of trees.

5. **Repointing:** Mortar erosion apparently caused by poor placement of irrigation sprinklers. See Section G. Item 5 below, and photograph below .



(Continued)

6. **Classroom Ceilings:** T-bar suspended ceiling with fluorescent light fixtures was installed as part of the conversion to office space in 1979. It was hung approximately three feet below the original classroom ceiling, and accommodated ducts for the HVAC system which evidently was installed at the same time. Upon recent removal of the T-bar ceiling to expose the original Classroom ceiling in one space (photo below) it was seen that the original ceiling, of 12 inch square acoustic tiles on 1x runners had been badly damaged. The existing retrofit cross bracing is above the original ceiling, so it is apparent that installation work for this bracing is responsible for ceiling damage in addition to that of the HVAC installation. See Section G. Item 29 below.



7. **Office Space build-out:** While the original Classroom walls generally remain intact, the other partitions added in the conversion to office space are distinguished by the differences in construction. These will be removed. See Section G, Item 11 below.

8. **Existing Roofing:** The existing three-tab composition shingles have one to two more years of serviceable life.

G. PROPOSED WORK AND TREATMENT PLAN

Note that the Item Numbers below are keyed on Drawings No. H.1 through H.5 which are part of this report Preservation Briefs referenced below are as published by the National Park Service.

Item #	Description	Where Located	Treatment
	Site		
1.	Trees at planters	Dwg. H.1 and H.2	Remove (4) trees. Remediate structure, rebuild damaged planters with matching brick and brickwork.
2.	General landscape	(See Site plans for overall project)	
3.	Parking lot grade.	Dwg. H.1 and H.2	Existing asphalt paving behind the building to be removed. Grade to be altered and new surface materials installed as part of overall site development plan. (See Site plans for overall project.)

Exterior Walls:

4. Brick generally	Dwg. H.1 and H.2	Preservation Brief No. 1, Cleaning and Water Repellant Treatments for Historic Masonry Buildings
5. Repointing	At exist. sprinklers	Preservation Brief No. 2, Repointing Mortar Joints in .Historic Masonry Buildings
6. Stucco	Dwg. H.1 and H.2	Preservation Brief No. 22, The Preservation and Repair of Historic Stucco
7. Cast Stone	Dwg. H.1 and H.2	Preservation Brief No. 42, The Maintenance, Repair and Replacement of Historic Cast Stone
8. Doors and Windows	Dwg. H.1 and H.2 and Appendix 2	Preservation Brief No. 9, The Repair of Historic Wooden Windows

Note No. 1: As of when in the overall design process this HRE is required by the City, it is premature to be able to apply Building Code calculations and determine if the existing windows are able to be restored, or will be required to be replaced with new. While new windows if required will follow the design of the existing, this will be a Deferred Submittal.

Note No. 2: For vertical sliding panels identified as Type K/L, the treatment will be as follows:

a) Remove and restore panels per Preservation Brief No. 9.

b) Remove stucco and drywall at locations where panels have been blanked out.

c) If panels exist underneath finishes per b) above, remove and restore per Preservation Brief No. 9

d) .If panels do not exist, fabricate new to match per Historic Reconstruction standards.

e) Refurbish all mechanisms for operational use.

9. Metal Railings	Dwg. H.1, H.2 and H.3	Modify existing, or fabricate new replacement railings, matching the original detail but with Code compliant railing height and picket spacing.

Structural Upgrade:

Note: Items below are possible upgrades subject to further examination, testing and analysis. See the Structural Engineer's report in Appendix No. 1 of this HRE. Impacts to the historic fabric are noted herein.

10. Diaphragm Strengthening	Dwg. H.3	Remove and later replace roofing material, to add plywood diaphragm to the roof, and/or improving the existing horizontal rod bracing system, This system is above the level of the original ceiling. No visible impacts at School. Minimal impact of rod bracing at Auditorium.
11. Shear Walls at School		Reinforcement or rebuilding of original Classroom walls to provide shear strength in the North-South direction.No visible impact.

12. Diaphragm Anchorage		Add or improve any existing out-of-plane anchorage at the top of the wall to the wood or horizontal rod braced diaphragms. No visible impact. at School. To be determined at Auditorium.
13. Cross Ties	Dwg. H.3	Introduce new or strengthening existing continuous elements that connect opposite concrete walls, to help maintain stability.No visible impact at School, Exposed at Auditorium
14. URM Wall	Dwg. H.1 Dtl. 3	Rebuild or reinforce one apparent URM wall on the North side of the west wing of the School building. Finish per Preservation Brief No. 22, The Preservation and Repair of Historic Stucco. No visible impact.
15. Roof Extension	Dwg. H.2 Dtl 3 roof.	Remove non-historic roof extension. Rehabilitate Arcade flat
16. Truss Supports	Dwg. H.3 Dtl.2 and 6	Possible, subject to further analysis.

(Items 17-19 reserved.)

Roof

20. Exist. HVAC Equipment	(Not shown)	Remove all roof-mounted HVAC equipment.
21. New HVAC Equipment	(Not shown)	Preservation Brief No. 24, Heating, Cooling and Ventilating Historic Buildings, Problems and Recommended Approaches.

Note: As of when in the overall design process this HRE is required by the City, it is premature to be able to plan new HVAC equipment. New equipment will be designed to minimize visual impact, will respect site lines from street level, and will be a Deferred Submittal.

22, Roof Material	(General on Dwgs.)	Project proposes to reinstate a clay tile roof similar to the original roofing.

SEE APPENDIX NO. 3 FOR ROOF TILES

23, Leaders and Gutters	(Not shown)	Existing leaders and gutters are a later alteration and not historic. These will be removed and replaced.

Note: As of when in the overall design process this HRE is required by the City, Code and regulation-compliant drainage is not yet able to be engineered for the site. Leaders and gutters may be a Deferred Submittal. However the existing leaders and gutters are not a character defining feature.

24, Trim and Flashings	Dwg. H.1 and H.2	Roof trim where indicated is a later alteration and not historic. This will be removed and the underlying historic condition examined for appropriate treatment.

Finish Floors at Arcade and Loggia, Cast Steps

25 Tile	Preservation Brief No. 40, Preservation of Historic Ceramic Tile Floors
26. Concrete	Preservation Brief No. 15, Preservation of Historic Concrete.
27. Brick	Preservation Brief No. 1, Cleaning and Water Repellant Treatments for Historic Masonry Buildings.

Interior Spaces

Note: Interior spaces are “Tenant Improvement” (TI) space, expected to be food service and/or health-related uses.

28. Removals		a) Remove partitions, doors and casework constructed for the office space conversion. Historic walls dividing classrooms and interior plaster at exterior walls to remain. Also see Item 11 above. b) Remove T-bar dropped ceiling and light fixtures. c) Remove carpet and other applied floor finishes. d) Remove the existing restrooms in their entirety. e) Remove all elements of dais and platform at Auditorium.
29. Finish Ceilings	Dwg. H.1 and H.2	New gypsum board ceiling at original ceiling height of 13’-3” in Classrooms.
30. Interior Plaster	(General)	Preservation Brief No. 21, Repairing Historic Flat Plaster-Walls and Ceilings
31. Auditorium Woodwork	Dwg. H.3	Clean and refinish only.
32. Finish Floors		a) Existing tongue and groove maple flooring appears to be in good condition under the existing glue-down carpet to be removed. Will be refinished. b) Original finish floor in Auditorium under the existing glue-down carpet to be investigated.

Miscellaneous:

33: Accessibility:	(General)	a) California State Historic Building Code (CHBC Ch. 8) b) Preservation Brief No. 32, Making Historic Buildings Accessible
34. Light Fixtures	Auditorium	Historic fixtures referred to Lighting Consultant
35. Ramp	Dwg. H.1 and H.2	Ramp near West wing of School to comply with ADA and CHCB Code accessibility requirements. Brickwork construction to match existing. Railings see Item 9 above.
36. Exterior Lighting		a) See overall Project Site Plan b) LED Downlights in Arcades and Loggia
37. Ironwork	(General)	Preservation Brief No. 27, The Maintenance and Repair of Historic Cast Iron. **Note:** Applicable to gates, handrails and guardrails throughout. May be restored, modified or replaced for Code compliance. Coordinate with Item No. 9 and 32 above.
38. Stained Glass	Dwg. H.3 Dtl. 3	Preservation Brief No. 33, The Preservation and Repair of Historic Stained and Leaded Glass

39. Vent Grilles	(General)	At attics and crawlspaces. Examine and either restore or replace. Code analysis required during Design Development.
40. New Cellar Stair	Dwg. H.3 Dtl.5	Relocate Auditorium Cellar exterior stair to North Elevation.
41. Shed Roof Structure	Dwg. H.3 Dtl. 1	Clean and repaint, including roof underside.
42. Proscenium Arch	Dwg. H.3, Dtl. 5, 6 Plaster	Preservation Brief No. 23, Preserving Historic Ornamental

H. PROPOSED PROJECT AND IMPACTS OF SECTIONS E, F AND G ABOVE

The proposed work for 1020 El Centro is summarized as follows:

1. Character Defining Features in their present state as described in Section E above will be restored

2. The project does not propose any work that would cause a negative impact to any Character Defining Feature.

3. The only visible impacts are expected to be the following:

   a) Accessibility ramp designed to fit in visually with minimal disruption.

   b) Possibly new windows as discussed in Section F, Item 8.

   c) Reinstatement of the original clay tile roof.

   d) The exterior generally will receive treatment repair and cleaning consistent with The Secretary of the Interior's Standards.

4. Existing rooftop HVAC units, which do have a negative impact, will be removed and new HVAC equipment will follow the Preservation Brief per Section F, Item 21.

5. The interior spaces in the School building (identified as 'B' on the map on page 3) comprise former office spaces (converted from the original classrooms) and outmoded restrooms. These have no significance and are not visible to the exterior. they will be reconstructed as Tenant Space and building service spaces. (See Section E.,3. Interior Characteristics.)

6. The Auditorium interior does not yet have an assigned use in this project. (See Section E., 3. Interior Characteristics.)

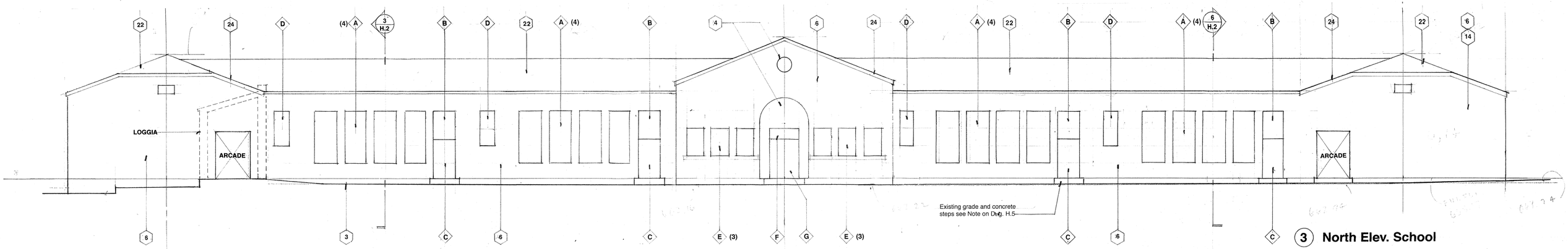
7. The proposed work qualifies for a CEQA Class 31 Categorical Exemption, for the reasons as follows:

   a) The building has a State Resources Status Code of 1D, as a Contributor in an Historic District, and also is locally designated as an historic building.

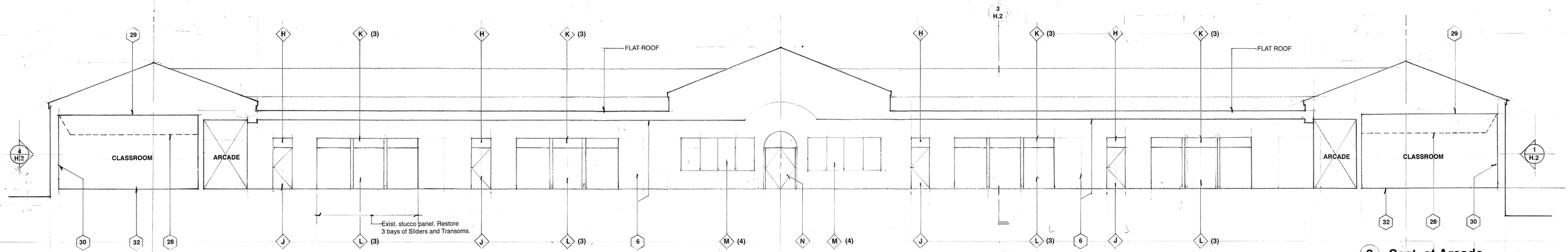
   b) All work proposed is consistent with The Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings (1995), Weeks and Grimmer.

   c) The historic building will not be altered to accommodate the adjoining new construction project.

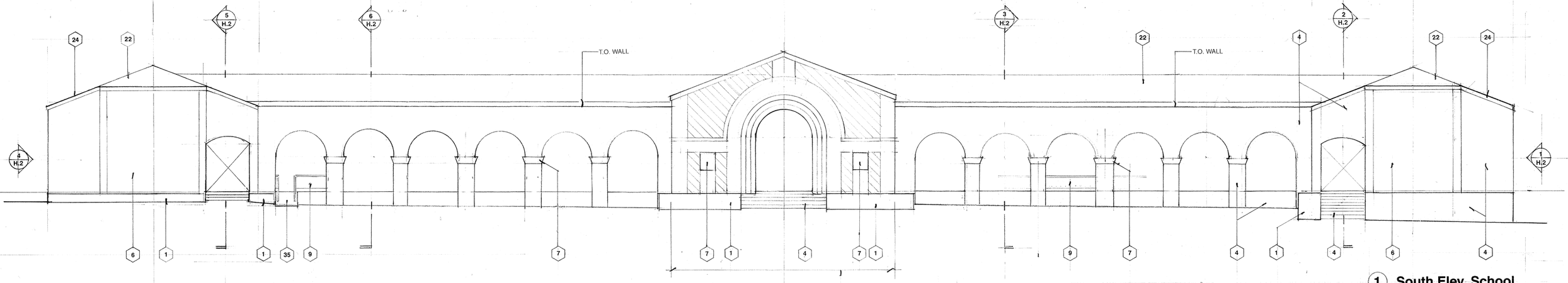
   d) No significant views of the building will be blocked by the adjoining new construction project, or have its significance reduced in any other way.



3 North Elev. School



2 Sect. at Arcade



1 South Elev. School

Historic Resource Evaluation
1020 El Centro Street, South Pasadena CA 91030
December 15, 2021 (Rev.)

Dwg. No. **H.1**

School Building Elevations & Section

Scale 1/8" = 1'-0"

Key Numbers are Identified in the Report

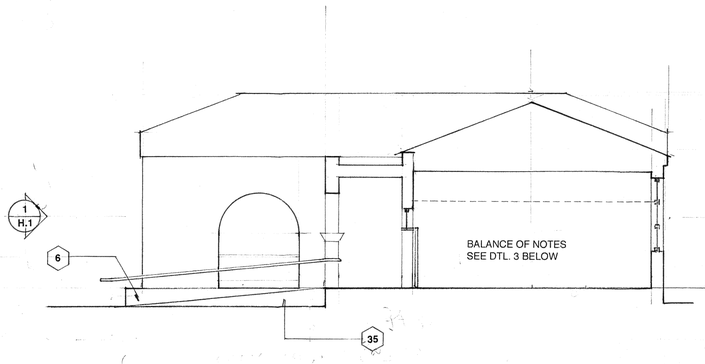
Joe Catalano AIA

6 Hatched areas
4 Other areas except as noted

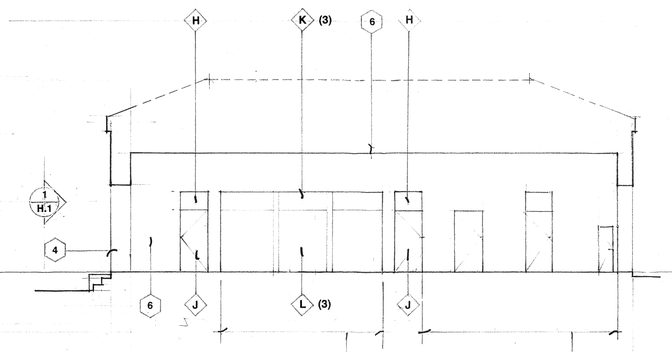
LEGEND

KEY NUMBERS FOR WORK ITEMS IN HRE SECT. 'G'

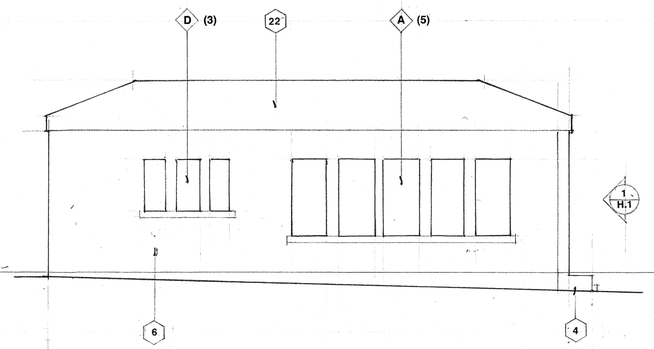
KEY FOR WINDOW AND DOOR TYPES IN HRE APPENDIX 2



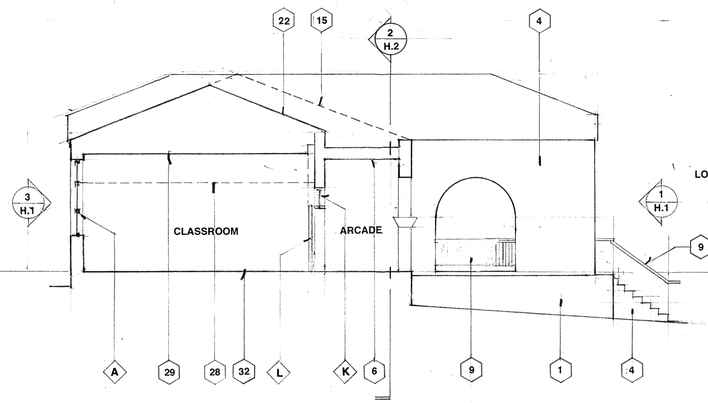
6 Sect. with New Ramp



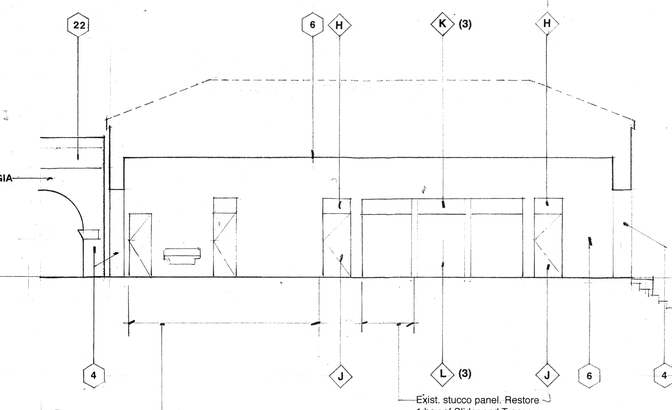
5 Sect. at West Arcade



4 West Elev. School

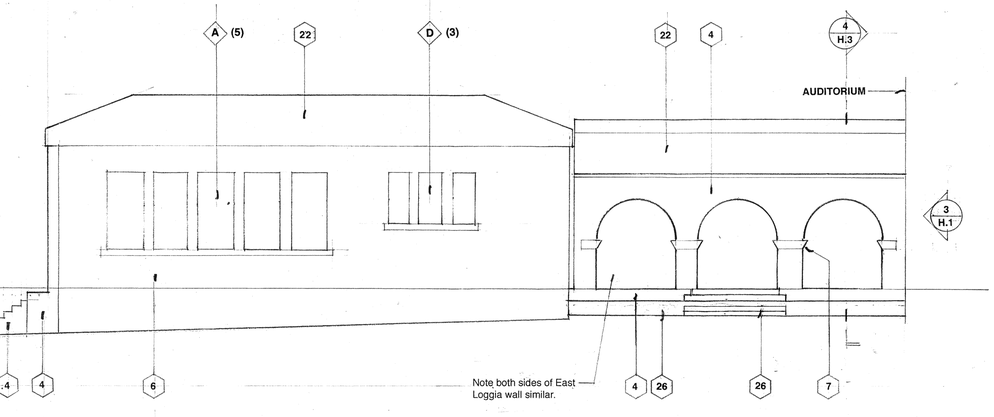


3 Sect. at Classroom



2 Sect. at East Arcade

This area of wall to be reworked to
accomodate Code-compliant Restrooms
(Door arrangement not a significant feature)



1 East Elev. School & Loggia

Historic Resource Evaluation
1020 El Centro Street, South Pasadena CA 91030
December 15, 2021 (Rev.)

Dwg. No. **H.2**

School Building Elevations & Sections

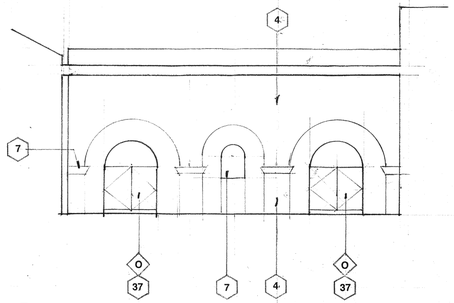
Scale 1/8" = 1'-0"

Key Numbers are identified in the Report

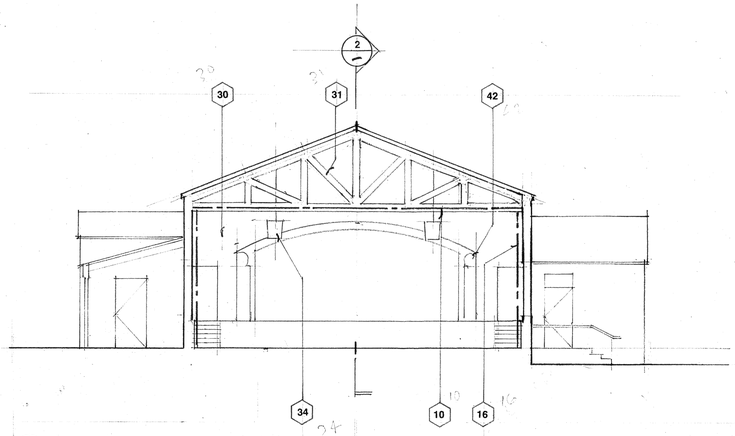
Joe Catalano AIA

LEGEND

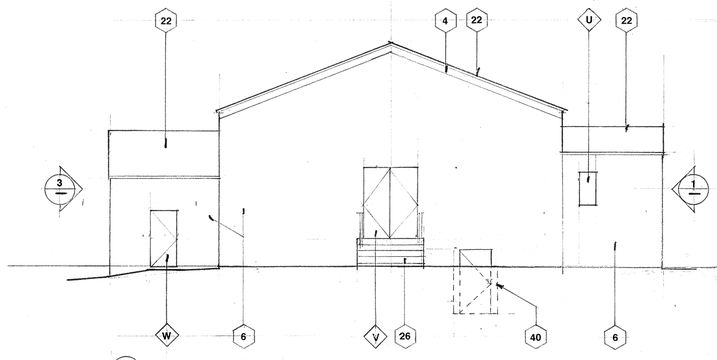
- ⬡ KEY NUMBERS FOR WORK ITEMS IN HRE SECT. 'G'
- ◇ KEY FOR WINDOW AND DOOR TYPES IN HRE APPENDIX 2



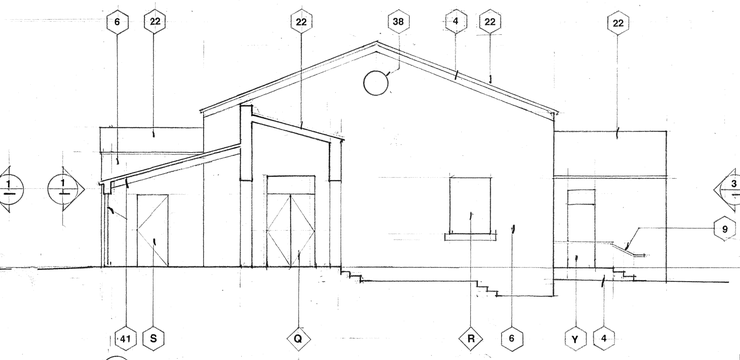
7 Loggia Inner West Wall



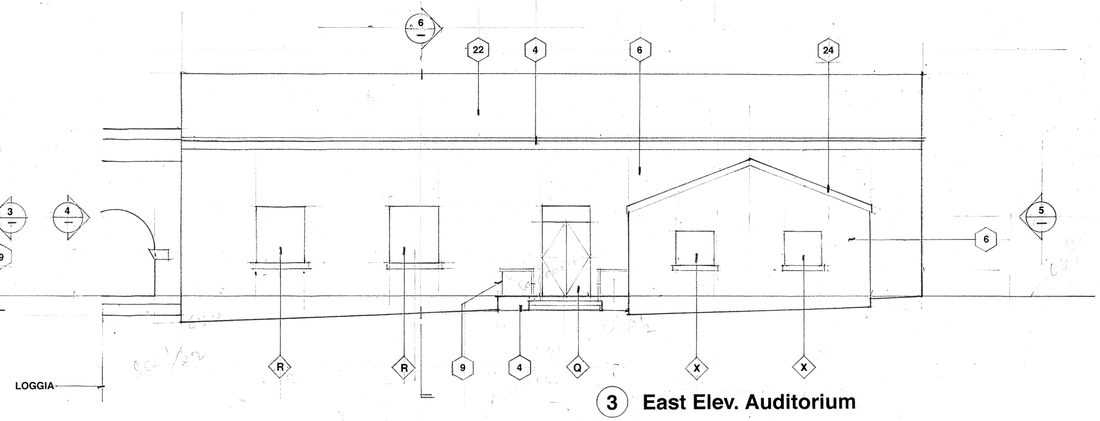
6 Sect. at Auditorium



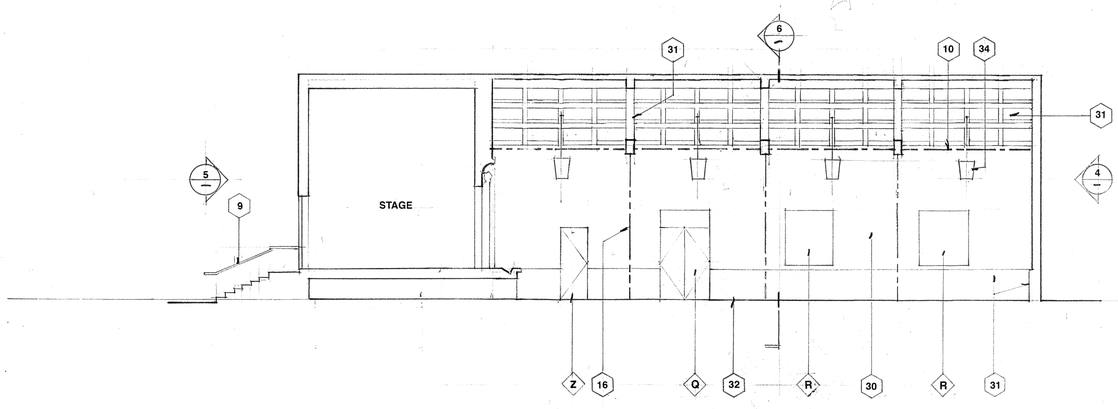
5 North Elev. Auditorium



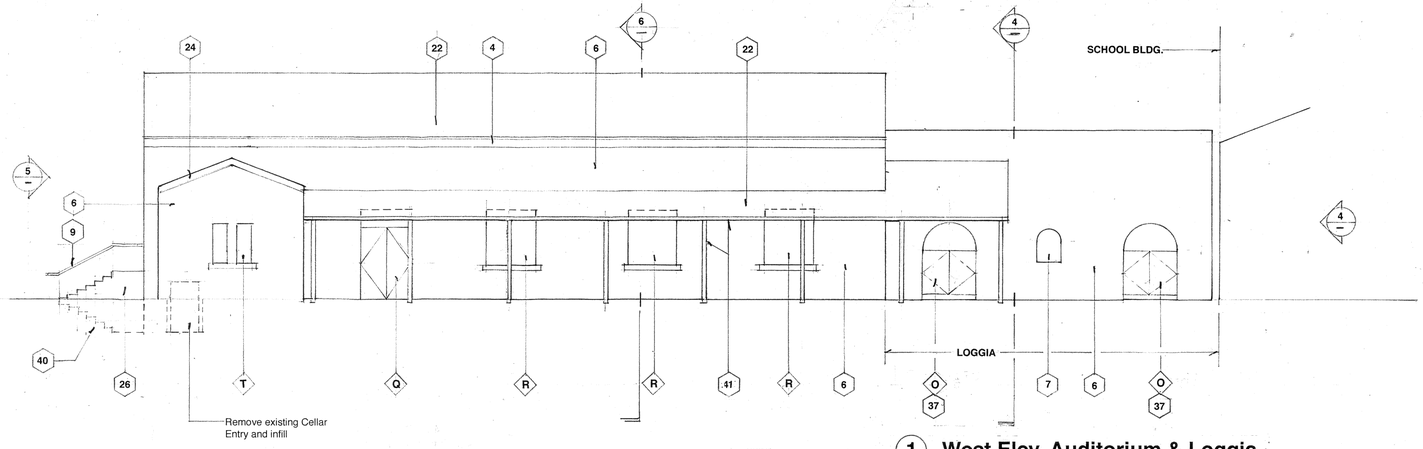
4 South Elev. Auditorium & Loggia Sect.



3 East Elev. Auditorium



2 Sect. at Auditorium



1 West Elev. Auditorium & Loggia

Historic Resource Evaluation
1020 El Centro Street, South Pasadena CA 91030
December 15, 2021 (Rev.)

Dwg. No. **H.3**

Auditorium Elevations & Sections

Scale 1/8" = 1"-0"

Key Numbers are identified in the Report

Joe Catalano AIA

LEGEND

- KEY NUMBERS FOR WORK ITEMS IN HRE SECT. 'G'
- KEY FOR WINDOW AND DOOR TYPES IN HRE APPENDIX 2

Notes:

1) All existing elements of building are to be maintained and treated per Section G of the Historic Resource Evaluation text, unless otherwise noted.

2) See Dwgs. H.1, H.2 and H.3 for balance of treatment notes.

3) Historic Classroom to be converted to Tenant Improvement (TI) space. Removal of partitions, part of 1979 office space conversion, not shown. Character Defining features to be restored, including original ceiling height, wood flooring, vertical sliding panels and windows. See Dtl. 2/ Dwg. H.1 and Dtls. 2,3, 5 and 6/ Dwg. H.2.

4) Non-Character Defining historic Restrooms and Building Service Areas to be re-worked for Code compliant Restrooms, and mechanical and building service areas. Removals not shown.See Dtls. 2 and 5 / Dwg. H.2.

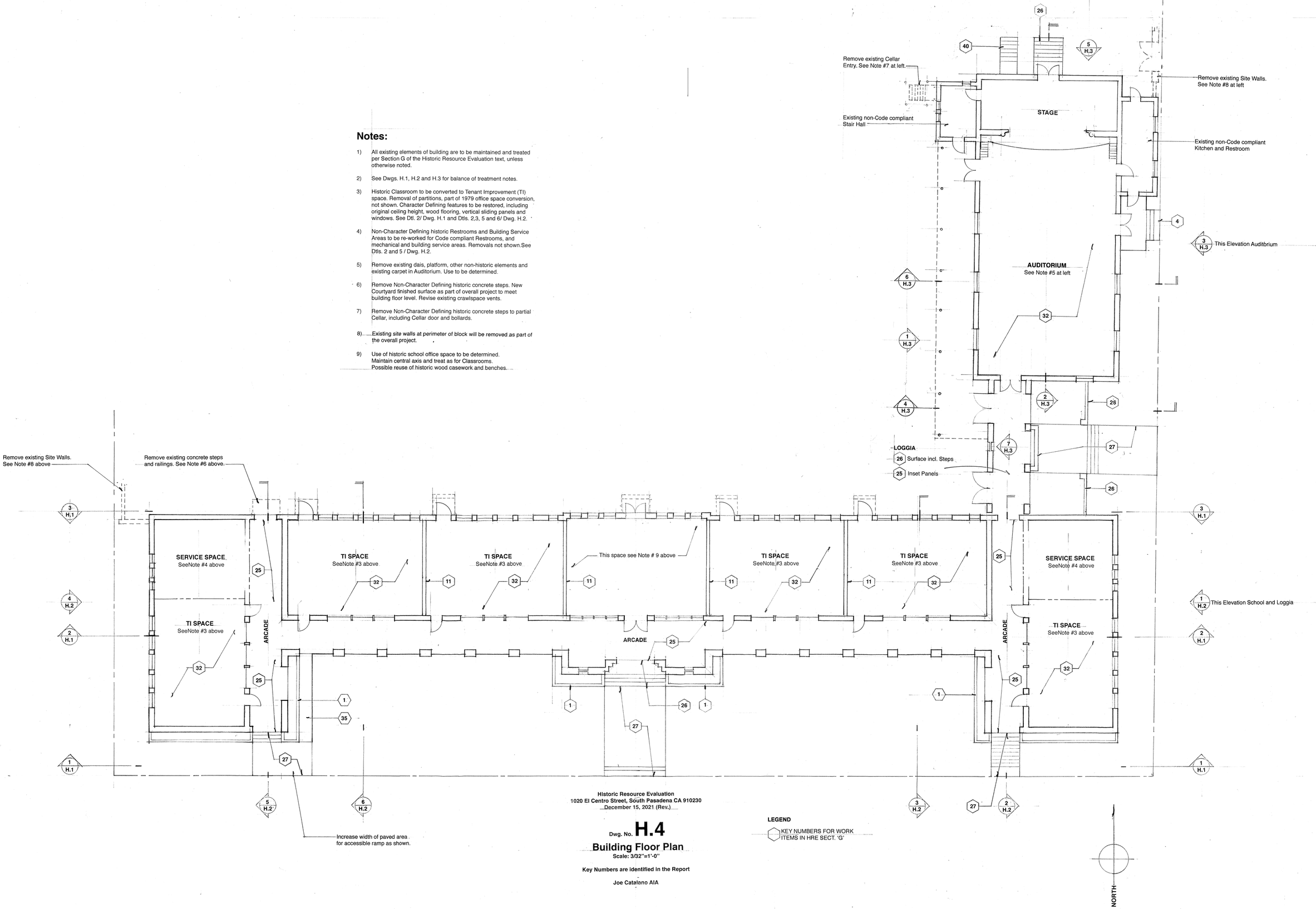
5) Remove existing dais, platform, other non-historic elements and existing carpet in Auditorium. Use to be determined.

6) Remove Non-Character Defining historic concrete steps. New Courtyard finished surface as part of overall project to meet building floor level. Revise existing crawlspace vents.

7) Remove Non-Character Defining historic concrete steps to partial Cellar, including Cellar door and bollards.

8) Existing site walls at perimeter of block will be removed as part of the overall project.

9) Use of historic school office space to be determined. Maintain central axis and treat as for Classrooms. Possible reuse of historic wood casework and benches.



Historic Resource Evaluation
1020 El Centro Street, South Pasadena CA 910230
December 15, 2021 (Rev.)

Dwg. No. **H.4**

Building Floor Plan

Scale: 3/32"=1'-0"

Key Numbers are identified in the Report

Joe Catalano AIA

LEGEND

KEY NUMBERS FOR WORK ITEMS IN HRE SECT. 'G'

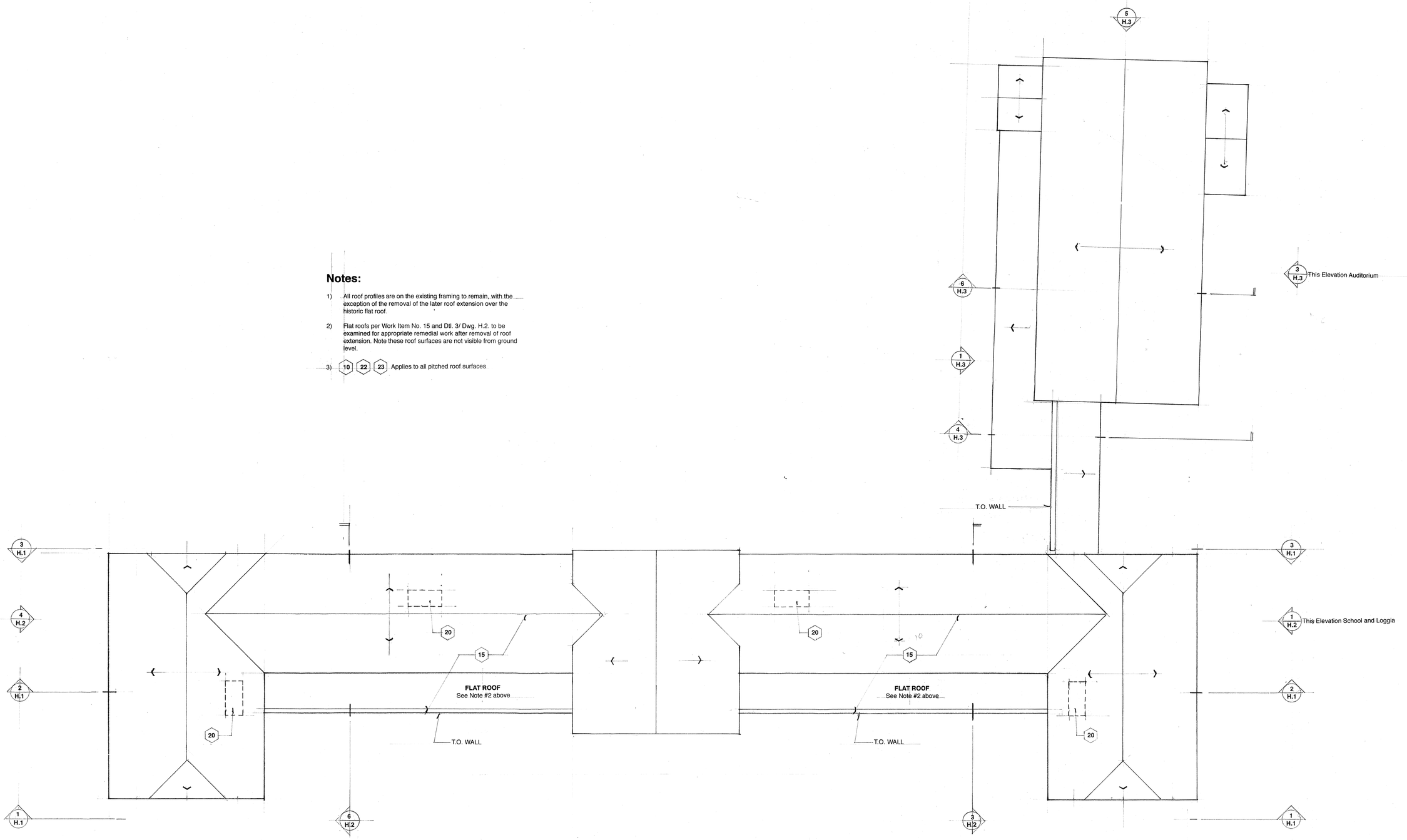
NORTH

Notes:

1) All roof profiles are on the existing framing to remain, with the exception of the removal of the later roof extension over the historic flat roof.

2) Flat roofs per Work Item No. 15 and Dtl. 3/ Dwg. H.2. to be examined for appropriate remedial work after removal of roof extension. Note these roof surfaces are not visible from ground level.

3) 10 22 23 Applies to all pitched roof surfaces



Historic Resource Evaluation
1020 El Centro Street, South Pasadena CA 910230
December 15, 2021 (Rev.)

Dwg. No. **H.5**

Roof Plan

Scale: 3/32 "=1'-0"

Key Numbers are identified in the Report

Joe Catalano AIA

LEGEND

KEY NUMBERS FOR WORK ITEMS IN HRE SECT. 'G'

10 22 23 ALL PITCHED ROOF SURFACES

NORTH

APPENDIX NO. 1
PRELIMINARY STRUCTURAL ASSESSMENT

Historic Resource Evaluation
1020 El Centro Street, South Pasadena CA

(7 PAGES TO FOLLOW)

STRUCTURAL FOCUS

October 28, 2021

Joe Catalano AIA
Architecture & Preservation
480 North Lima Street
Sierra Madre, CA 91024

Reference: **PRELIMINARY STRUCTURAL ASSESSMENT**
SOUTH PASADENA UNIFIED SCHOOL DISTRICT ADMINISTRATION BLDG
1020 EL CENTRO STREET
SOUTH PASADENA, CALIFORNIA
[SF PROJECT #21008]

Dear Joe,

We have completed our preliminary structural assessment of the South Pasadena Unified School District Administration Building located at 1020 El Centro Street in South Pasadena, California. We have based our assessment and recommendations on the following:

- Our January 21, 2021 site visit and our October 8, 2021 site visit performed in accordance with the document *Requested Exploratory Demolition Locations*, prepared by Structural Focus, dated October 5, 2021;
- The 1977 National Register of Historic Places Nomination Form;
- Our review of various historic building department documents including early permits and job cards;
- The conceptual design progress architectural drawing prepared by Gangi Architects, dated July 7, 2021.

The purpose of this report is as follows:

- Provide a description of the building's configuration and structural systems based on our site visits, review of available photographs, documents and drawings;
- Provide an overall assessment of the seismic vulnerabilities of the building's structure;
- Provide recommendations for testing, evaluation, and possible structural strengthening schemes to mitigate seismic vulnerability.

Building Description

The South Pasadena Unified School District Administration Building is an approximately 11,400 square-foot set of four separate, single story structures connected by arcades. Each structure is generally rectangular in shape. Three of the structures arranged in a C-shape along El Centro Street share a roof and form the "school building." The "auditorium" is situated to the northeast, with an entrance facing Fairview Avenue.

The school building is approximately 8,100 square feet. The building has overall approximate plan dimensions of 262 feet by 58 feet. The center portion of the school building is a 5,089 square foot space with approximate exterior plan dimensions of 187 feet by 38 feet (excluding arcade.) The east wing and west wing structures are each approximately 1,500 square feet with approximate exterior plan dimensions of 58 feet by 27 feet 6 inches. The east-west oriented arcade along the front of the center portion is approximately 9 feet 7 inches wide (including

column depth). At each end the arcade turns 90 degrees, separates the center portion from the east and west wings, and is 10 feet wide.

The auditorium building is approximately 3,330 square feet and has approximate exterior plan dimensions of 38 feet by 82 feet 4 inches.

The school building has a sloped roof, hipped over the east and west wings, and two gables at the center of the center portion facing north and south, at the front (over entrance) and rear of the building. We believe the roof over the center portion of the building is California-framed over the roof of the wings to the east and west, creating the appearance of a continuous roof. This roof is apparently not completely original, as historic photographs show the front arcade having a flat roof, with the sloped roof only over the interior space. The current roof extends over the front arcade. We believe the roof structure was either added to or partially rebuilt in order to expand the roof over the front arcade, shifting the apex of the roof up and to the south. The school building has a raised wood floor over an approximately 3-foot crawlspace.

The auditorium has a sloped gable roof, with a lower, lean-to roof along the west side. There is a basement or "pit level" underneath the stage of the auditorium, with an opening that affords a view of the approximately 3-foot crawlspace under the main seating area floor.

Original Gravity Force-Resisting System

The school building's gravity force-resisting system at the roof level consists of straight, flat wood sheathing boards spanning between wood carpenter trusses at 24 inches on center. The trusses generally consist of 2x6 rough sawn lumber chords (top and bottom) with 1x6 members attached flat to either side of the chords to create diagonal or vertical truss elements. In the center portion of the school building, trusses span north-south, and trusses span east west in the two wings to either side. The ends of the truss chords rest on concrete walls at the perimeter of the building. While our site visit did not take us into the crawlspace, we believe that at the floor level, joists span from the perimeter walls to beams that rest on wood posts and concrete footings. Perimeter walls deliver the vertical loads to what we believe is a conventional shallow concrete foundation, which delivers the vertical loads into the earth.

We noted a URM wall is present on the north end of the west wing of the school building. This is unusual in this building as most of the walls are brick-clad concrete. This may be an artifact of future plans for the school building.

The auditorium's gravity load-resisting system at the roof level consists of flat wood sheathing boards spanning between joists spaced at approximately 4 feet on center. Joists span to beams spaced at approximately 6 feet on center, and beams span between east-west oriented timber trusses spaced at approximately 16 feet on center. (Due to an existing finish ceiling, and the height of the space, we were not able to confirm joist, beam, and truss element sizes.) Trusses rest on what we believe are concrete bearing walls; there are no pilasters below the truss ends. We also believe the north and south perimeter walls are concrete; the composition of the proscenium arch wall is unconfirmed. The stage floor is evidently wood over concrete, as the underside of the concrete slab is visible from beneath the stage, at the trap level. The trap level shows concrete beams supporting the slab, spanning to perimeter concrete walls. The floor of the trap level is a concrete slab on grade. From the trap level one can see under the auditorium floor through a portal in the concrete wall under the front of the stage. The auditorium floor system consists of a suspended, reinforced concrete slab spanning between reinforced concrete beams, supported on either side by the perimeter concrete walls. We believe the bearing walls at the perimeter rest on shallow concrete foundations, which deliver vertical loads into the earth.

The lean-to roof along the south side of the auditorium consists of flat board sheathing spanning between 2x6 joists at 2 feet on center. At the building face, joists are supported by a steel angle ledger that is anchored to the concrete wall. A 4x wood beam carries the joists at the outer edge of the lean-to, and this beam is supported on round, steel post columns.

Original Lateral Force-Resisting System

The original lateral force-resisting system at the roof of the school building consists of flat wood sheathing boards spanning between perimeter concrete walls. Similarly, at the ground floor, we assume flat sheathing spans between concrete walls. Concrete walls then deliver the loads to the foundations and ultimately into the earth.

The original lateral force-resisting system at the auditorium is similar to the school building; however, the diaphragm at the floor level is concrete, and it delivers loads to the concrete walls.

Existing Retrofit

The school building has apparently undergone a seismic retrofit. As records are sparse and our exploration was limited, we do not currently know the vintage or the full extent of the retrofit. However, we did observe elements of a horizontal rod-braced diaphragm including steel rods, turnbuckles, cross beams, and anchorage to concrete walls, just below the roof truss bottom chord. Rod diameters are estimated at 1 inch. This diaphragm would serve to stabilize the concrete walls by tying them together at the top and delivering their out-of-plane load to perpendicular walls at the perimeter. We did not observe bracing perpendicular to trusses, so it remains unclear whether or how the roof lateral load is captured by this diaphragm; it may be that the roof still relies on straight sheathing to transfer loads into the concrete walls, or that the roof was sheathed in plywood before or at the time of the retrofit. It is of note, however, that we did not observe nails protruding through the straight sheathing, a telltale sign that plywood has been added to the roof.

It is not known whether the auditorium was retrofit. No new rod diaphragm was observed however, so if a retrofit did occur, it likely involved sheathing the roof in plywood.

Condition

The structure of the building is in good condition. Our site observation did not reveal wood rot, fire, termite, or other damage. We did not observe spalling of the concrete walls or delamination of concrete or brick. Visible retrofit elements appeared in very good condition. We did not observe evidence of structural distress, excess deflection, or prior earthquake damage.

Seismic Vulnerabilities

Shear Stress and Reinforcing Steel

The concrete walls are vertically-oriented lateral load-resisting elements. It is unknown whether the walls have any reinforcement. If shear stresses in the walls due to seismic loads exceed the capacity of the wall, the concrete will crack or fail, and any reinforcing bars will yield. The thicker the wall, and the more reinforcement that may be present, the higher the shear strength of the wall. With the exception of the central portion of the school building, walls are well-distributed and proportioned to resist lateral loads. At the central portion of the school building, there are only short, transverse direction walls at the far east and west ends resisting lateral loads in the north-south direction. Analysis may show that these walls are overstressed under current code-level seismic demands.

Wall Anchorage to Roof

In buildings with concrete bearing walls and flexible, wood roof diaphragms, it is imperative that the roof be tied to the walls with sufficient anchorage. Without this protection, during an earthquake, the roof may become detached from the concrete bearing wall, losing its support, potentially resulting in roof collapse. It is not clear that there is sufficient roof-to-wall anchorage in either the school building or the auditorium.

Force Transfer between Roof and Concrete Walls

During an earthquake, the roof develops inertial forces (forces generated by virtue of its own mass) that need to be resolved into vertically-oriented lateral load-resisting elements, like shear walls. Inadequate force transfer may result in detachment of the roof from the walls, and potential damage to the roof diaphragm that could lead to broader failure. While a sill plate was observed at the school building, it is not clear that either the school building or the auditorium has a proper force-transfer mechanism.

Cross Ties

A cross tie is a continuous element, like a beam or girder, that allows the out-of-plane force of the wall at an anchorage location to be developed into the full depth of the diaphragm, to the next parallel shear wall. In the case of the school building or the auditorium, a cross tie would extend from one concrete wall to the opposite wall. It is unclear whether the carpenter trusses in either the school building or the timber trusses in the auditorium, and the buildings' respective diaphragms, will provide proper cross-tie action.

Wood Diaphragm Span & Straight Sheathing

Wood diaphragms that span more than 24 feet must be constructed of plywood panels or diagonal sheathing. At the auditorium and the school building, spans are greater than 24 feet, so the sheathing must consist of either plywood panels or diagonal sheathing. Furthermore, straight-sheathed diaphragms, such as those at the school building and auditorium, may be configured in a maximum 2:1 aspect ratio. In the east-west dimension of the school building, the aspect ratio is nearly 7:1, so straight sheathing will no be an effective diaphragm for this building when forces are in the north-south direction. The auditorium has an aspect ratio of 2.2:1, making straight sheathing unsuitable in that building as well.

URM Walls

A URM wall discovered at the north end of the west wing presents unique local hazards. URM walls are notorious for poor performance during earthquakes. They can crumble and give way, creating a falling hazard and potentially leading to roof collapse.

Recommendations

Concrete Wall Examination

In order to understand the behavior of the concrete walls, it is important to know if they are reinforced, and the size and spacing of the reinforcement. Various technologies, including x-ray, radar, and ground-penetrating radar, can provide different levels of information about the reinforcement inside a wall or other concrete element. Alternatively, a portion of the concrete cover can be removed, revealing the type of rebar present. We recommend utilizing an acceptable method of quantifying the reinforcement in order to help us understand the shear strength of the wall and whether any overstress may result from expected seismic demands.

Existing Retrofit Examination

In order to understand the expected seismic performance of the building, and to understand what potential strengthening measures are in order, it is necessary to identify the nature and full extent of the retrofit that has already been completed. In the school building, we recommend gaining safe access to the "attic" space of the building to observe and document the existing horizontal rod-brace system. (We did observe a small walkway constructed of wood planks in the attic space, providing access to trusses in some areas.) At the auditorium, we recommend probing or removal of materials as required to detect whether plywood has been added to the roof.

Anchorage Examination

Similarly, we recommend closely observing and documenting any anchorage elements that may already exist. With this information, we can determine the extent to which additional roof to wall anchorage may be required throughout.

Foundation Examination

We recommend digging exploratory potholes at selected locations around the building to expose existing foundation. Revealing the type and size of the footings will inform any foundation work that may be required as part of a retrofit.

Materials Testing

In order to fully evaluate the structure, it is necessary to know the compressive strength of the original concrete. Core samples may be extracted from the walls and taken to a lab for testing. It would be important to locate the cores in places that do not significantly compromise the historic fabric of the building. Core holes can be repaired by filling the void with non-shrink grout.

Additional Available Information

We understand that because this was an operating public school building, certain permits, reports, drawings, and other documents may be in possession of the Division of the State Architect (DSA). We recommend contacting the DSA and attempting to gain access to any additional information about the building structures.

Seismic Analysis

With information gained from the above studies, we recommend conducting a seismic analysis of the building to understand the overall behavior of the structure, whether their current condition has adequate strength to meet current code-level demands, where weaknesses remain, and what additional measures to strengthen the structure would be most effective. An accepted methodology, such as that laid out in the standard ASCE 41-17 *Seismic Evaluation and Retrofit of Existing Buildings*, should be used to evaluate the structure, and develop appropriate retrofit measures.

Possible Retrofit Measures

Based on our preliminary assessment of the building, and our experience with similar buildings of similar vintage, we have identified the following strengthening measures that would be effective in bringing the building to a level of seismic performance commensurate with current code. The studies recommended above will help inform what measures are necessary. The strategies described here are commonly undertaken as part of seismic retrofits of similar buildings and are provided only for the purpose of understanding potential future structural scope.

Diaphragm Strengthening

Unfortunately, the straight sheathing of the original construction does not provide predictable, robust behavior under seismic loads, and will not meet current code requirements. If we find that plywood sheathing has not been applied and/or sufficiently nailed to either the roof of the school building or the auditorium, it will be necessary to improve the diaphragm at roof level. This can be accomplished by sheathing the roof in plywood. At the auditorium, it would also be possible to create a rod-braced diaphragm in the planes of the sloping roof, between the trusses. Proper diaphragms also help brace the tops of the trusses against out-of-plane movement. In either system, the diaphragm should be properly designed and constructed to deliver roof-level inertial seismic forces into the shear walls below.

Out-of-Plane Anchorage and Shear Transfer

With an appropriate diaphragm in place, it is necessary to both anchor the walls to the diaphragm in their out-of-plane direction, and to transfer the shear in the diaphragm into the wall. Anchorage can be accomplished by epoxy-doweling threaded rods into the concrete wall and attaching them to hardware connected to a truss, beam or blocking at the roof level that is sufficiently fastened to the diaphragm. Generally, this anchorage occurs at 8 feet on center or less. Proper shear transfer can be developed by installing epoxy anchor bolts or screw anchors through the sill plate and into the top of the concrete wall and installing snug blocking between the truss ends. The diaphragm is then nailed to the blocking and the blocking is clipped to the sill plate. At the floor level, or if the wall passes by the roof and continues above, a ledger can be similarly attached to the wall and used for shear transfer.

At the southern wall in the center portion of the school building, the roof truss bottom chord passes over the concrete wall, at the non-original roof condition described previously. Here, it will be necessary to provide out-of-plane anchorage by attaching the top of the wall to the bottom chord of the truss and delivering the load up to the roof diaphragm. Truss diagonals will likely need to be strengthened to provide this load path.

Cross Ties

Cross ties should be installed or developed in order to distribute the out-of-plane wall load fully into the diaphragm all the way across the building, or to the next parallel concrete shear wall. Cross tie action introduces compression in the cross-tie elements. This force can be resolved with a continuous beam at roof level, or through strengthening the truss, usually by sistering additional members to the truss elements and providing straps or hardware as necessary for continuity. The diaphragm must be sufficiently fastened to the cross tie.

Truss Anchorage

In addition to periodic out-of-plane anchorage, each truss should be adequately anchored to the wall. This anchorage prevents the truss end from detaching or slipping off the wall, which could result in roof collapse. While we did observe anchorage at each truss, the existing anchorage may not provide adequate resistance under current code-level seismic demands. In this case, it will be necessary to provide more robust anchorage at each truss.

New Shear Walls

The auditorium and the west and east wings of the school building are well-proportioned in terms of shear wall length and placement. It seems reasonable to expect that the concrete walls in these structures will be sufficient to carry the seismic loads, and this can be confirmed through analysis. The center portion of the school building, however, has a significant aspect ratio, with two very long concrete walls to resist east-west oriented lateral loads, and two

relatively short (and very far apart) concrete walls resisting north-south oriented loads. It may be necessary to add new shear walls in the north-south direction at strategic locations in the building, limiting the diaphragm span while also providing additional shear strength and stiffness to the building in that direction. Based on discussion about the original layout of classrooms in the building, new shear walls could be located at the original classroom dividing walls, preserving the historic layout of the building. These new transverse walls must be continuous concrete to the foundation, requiring new openings in the floor of the building. We understand the original floor is a very important part of the historical fabric of the building, so extreme care will need to be taken to limit disruption to the floor system.

New Foundations and Existing Foundation Strengthening

New shear walls necessitate new foundations, and existing foundations may need to be strengthened in order to provide sufficient load transfer into the earth and resist settlement or soil failure. New foundations at new transverse shear walls are ideally constructed within the crawlspace. However, construction may necessitate openings in the floor. Extreme care must be taken to protect the original floor and minimize the impact of construction. Existing foundations would ideally be strengthened from the outside of the building and strengthening can be accomplished by chipping away concrete cover on the side of the footing, epoxy doweling reinforcement into the footing, and pouring new concrete to effectively increase the area of the footing.

URM Wall Retrofit

Any URM walls in the building should be removed or retrofitted. Retrofit of URM walls may entail adding steel strongbacks to the wall to prevent out-of-plane failure and providing secondary support for any elements that rely on the URM wall for vertical support.

It is our sincere pleasure to be a part of this exciting and important project. If you have any questions or comments regarding our observations, findings or recommendations, please feel free to contact us. Thank you.

Sincerely,
STRUCTURAL FOCUS

Samuel Mengelkoch, S.E.
Associate

David W. Cocke, S.E.
President

APPENDIX NO. 2
DOOR AND WINDOW TYPES

December 15, 2021

NOTES:

1. Information given in this Appendix is for identification purposes. and should not be used for construction documents.

2. Dimensions given for windows are for masonry openings except as noted.

3. Dimensions given for doors are nominal door sizes except as noted.



TYPE ‘A” WINDOW

General Location: Classrooms

Operation: (3) Stacked Awnings

Dimensions: 4’-3” x 9’-6”

Construction: Wood

(Continued)



TYPE ‘B’ TRANSOM AND TYPE ‘C’ DOOR COMBINATION

General Location: Classrooms

Transom:

Operation: Fixed

Dimensions: 3’-8” x 4’-8”

Construction” Wood

Door:

Dimensions: 3’-6” x 7’-0”

Construction: Hollow metal / wood frame

NOTE: Original Classroom Entries on the building’s North side are proposed to become entries to Tenant spaces from the overall project’s Courtyard. The hollow metal itself may not be original, and is nevertheless not character-defining. It will be replaced by a new door with a full height lite tempered glass lite. (Also see Type L Door.)

(Continued)



TYPE ‘D’ WINDOW

General Location: Toilets and Classrooms

Operation: Double Hung

Dimensions: 2’-6” x 6’-10”

Construction: Wood



TYPE ‘E’ WINDOW

General Location: Center of North Elevation

Operation: Double Hung

Dimensions: 3’-2” x 5’-5”

Construction: Wood



TYPE ‘F’ TRANSOM AND TYPE ‘G’ DOOR COMBINATION

Location: Center North Elevation

Dimensions: 5’-7” x 9’-0” (Pr.) with Frame

Construction:
Combined Metal frame with fiberglass door panels.

NOTE: Door and transom combination is non-historic and should be replaced. Replacement shall match other door transoms, and the door type will be determined when use for this space is determined.



TYPE ‘H’ TRANSOM AND TYPE ‘J’ DOOR COMBINATION

General Location: Classroom and Toilet Entries on Arcade

Transom Operation: Fixed

Dimensions:

Door: 3’-0” x 7’-0”

Transom: 2’-0” x 3’-2” incl. frame

Construction: Wood with hollow metal door

NOTE: Original Classroom Entries on the building’s Arcade are proposed to become entries to Tenant spaces. The hollow metal itself may not be original, and is nevertheless not character-defining. It will be replaced by a new door with a full height lite tempered glass lite. (Also see Type B Door.)



TYPE 'K' TRANSOM AND TYPE 'L' DOOR COMBINATION

General Location: Classrooms at Arcade

Operation:

Transom: Fixed

Door Panel: Vertical slider

Dimensions: (Gang of three) 9'-0" H x 18'-0" W

Construction: Combined unit wood construction

NOTE: See Work Item No. 8, Note No. 2 on Page 13 of the HRE.





TYPE 'M' WINDOW

Location: Either side of Main Entrance in Arcade

Operation: Fixed transom over hopper

Dimensions: (Gang of four) 6'-0" H x 13'-0" W

Construction: Wood





TYPE ‘N’ DOOR

Location: Main Entrance doors on Arcade

Dimensions: 5’-0” x 7’-0” (Pr.)

Construction: Wood

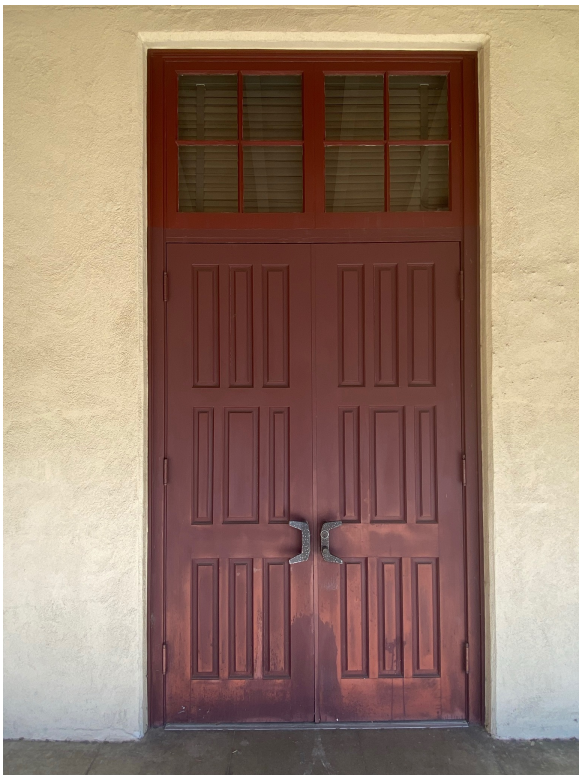


TYPE ‘O’ GATE

Location: Loggia Archways

Dimensions: 6’-0” W x 5’-6” H (Pr.)

Construction: Wrought iron



TYPE ‘Q’ TRANSOM AND TYPE ‘Q’ DOOR COMBINATION

General Location: Auditorium main space

Transom Operation: Fixed

Dimensions: 5’-6” W x 11’-2” H

Construction: Wood



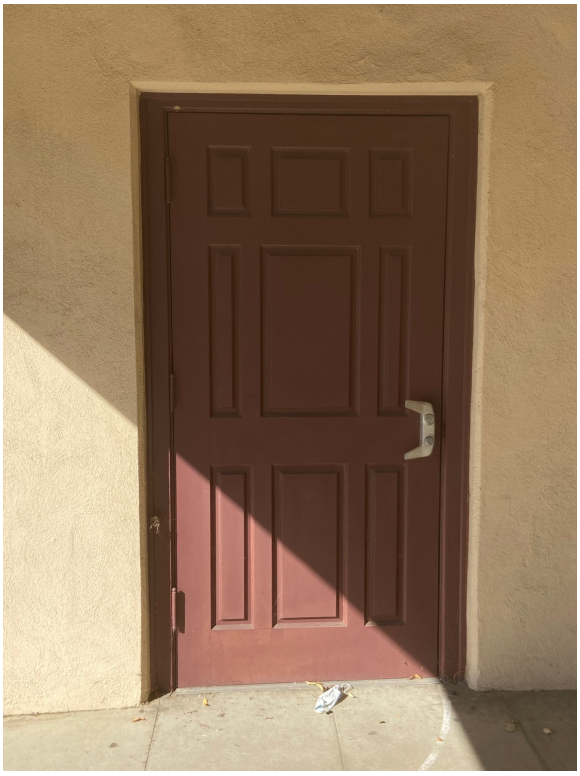
TYPE ‘R’ WINDOW

General Location: Auditorium main space

Operation: Fixed transom over double casement

Dimensions: 5’-6” W x 7’-2” H

Construction: Wood



TYPE ‘S’ DOOR

General Location: Auditorium Stair Hall

Dimensions:3’-8” W x 6’-8” H.

Construction: Wood



TYPE ‘T’ WINDOW

General Location: Auditorium main space

Operation: Casement

Dimensions:1’-9” W x 4’-0” W

Construction: Wood



TYPE ‘V’ DOOR

General Location: Auditorium Stage

Dimensions: 5’-7” W x 8’-0” H

Construction: Wood



TYPE ‘X’ WINDOW

General Location: Auditorium Service Area

Operation: Double casement

Dimensions: 4’-6” W x 4’-0” W

Construction: Wood



TYPE ‘Y’ DOOR AND TRANSOM COMBINATION

General Location: Auditorium Service Area

Dimensions: 3’-0” W x 8’-4” H

Construction: Wood

NOTE: Door is non-historic replacement. Should be replaced.

NOTES:

1) Existing Door Type ‘Q’ at Auditorium East Elevation has non-historic replacement doors similar to Type ‘Y’ Door. Needs to be replaced to match other Type ‘Q’ doors.

2) Existing Door Type ‘W’ at Auditorium Service space if plain hollow metal type in poor condition and needs replacement. Dimensions 3’-2” W x 6’-8” H.

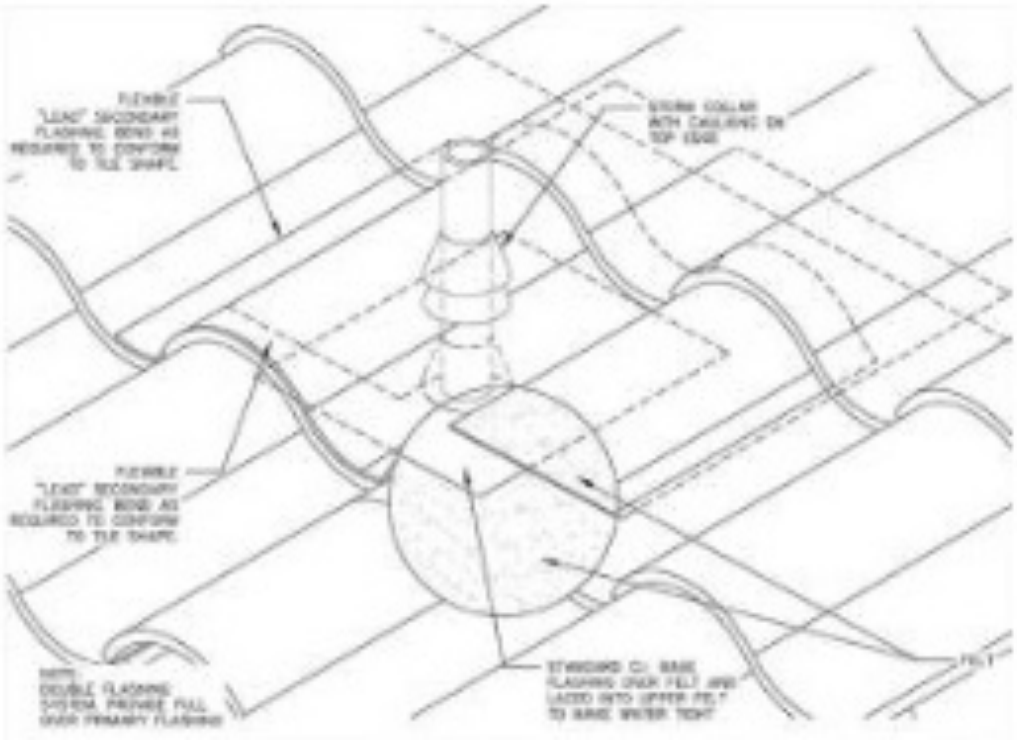
3) Existing Window Type ‘U’ at Auditorium Stair Hall similar to Window Type ‘D’ with dimensions of 2’-0” W x 3’-4” H.

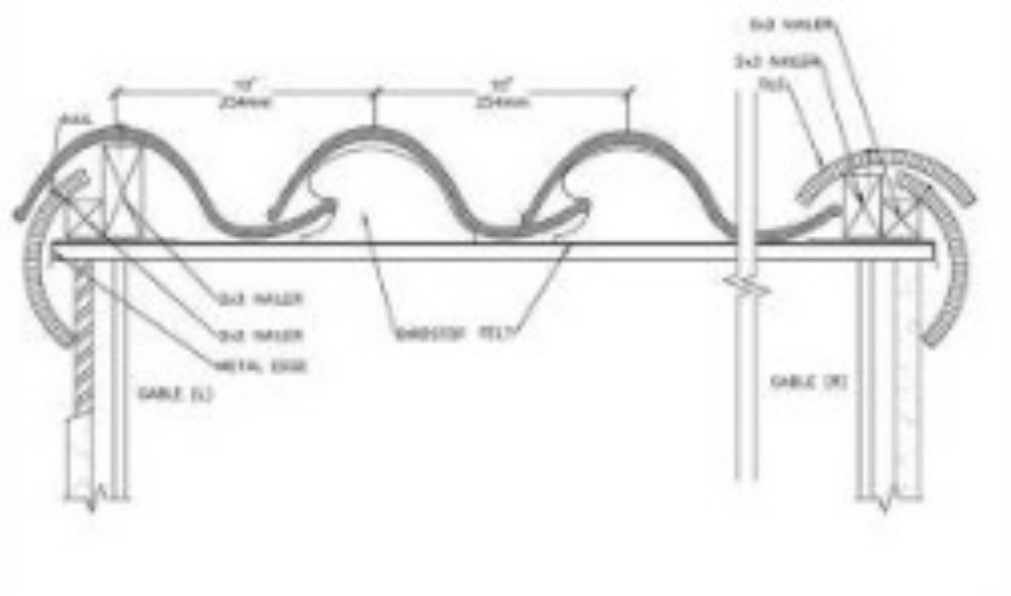
4) Existing Door Type ‘Z’ at Auditorium space to be surveyed.

APPENDIX NO. 3
PROPOSED ROOF TILES

December 15, 2021

Proposed roof tile is Classic 'S' Tile manufactured by MCA Tile Co,. Corona CA, in the custom blend as indicated in the photograph on the second page below.







Top photograph is from the manufacturer, showing an installation of the proposed tile type and color blend. Bottom photograph facade brickwork at 1020 El Centro Street, illustrating the visual combination of the the brickwork and roof tile.