Appendix O

Noise Technical Report

Noise Technical Report

Grace Solar Energy Center
Riverside County, California

DECEMBER 2025

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Acronyms and Abbreviations

Acronym/Abbreviation	Meaning
ADT	Average Daily Trips
BESS	Battery Energy Storage System
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
City	City of Blythe
CNEL	Community Noise Equivalent Level
County	County of Riverside
dB	Decibel
dBA	A-Weighted Decibel
d_{ref}	The Reference Distance that Helps Define L_{eq} (Activity)
FAA	Federal Aviation Administration
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
HUD	U.S. Department of Housing and Urban Development
HVAC	Heating, Ventilation and Air Conditioning
Hz	Hertz
ISO	International Organization of Standardization
I-10	Interstate 10
kV	Kilovolt
L_{dn}	Day-Night Sound Level
L_{eq}	Equivalent Sound Level
L_{max}	Maximum Sound Level
L_{min}	Minimum Sound Level
L_{v}	Vibration Level
L_{xx}	Percentile-Exceeded Sound Levels
MW	Megawatt
NEPA	National Environmental Policy Act
PPV	Peak Particle Velocity
PV	Photovoltaic
RCNM	Roadway Construction Noise Model
U.S.C.	U.S. Code
VdB	Vibration Decibel

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1 Introduction

1.1 Executive Summary

This Noise Technical Report was prepared for the Grace Solar Energy Center Project (Project), a solar and battery energy storage energy facility on unincorporated lands in Riverside County (County), adjacent to the City of Blythe, California. The Project is located on federal lands administered by the Bureau of Land Management (BLM) and adjacent private lands in Riverside County, as well as adjacent to existing solar facilities on private and public lands.

The purpose of this Noise Technical Report is to assess the potential noise and vibration impacts associated with implementation of the proposed Project. This assessment uses the checklist questions in Appendix G of the California Environmental Quality Act (CEQA) Guidelines (14 CCR 15000 et seq.), as well as standards established in the Riverside County general plan and noise ordinances, in determining the significance of Project impacts related to noise.

This Noise Technical Report evaluated the potential for Project-generated construction and operational sound emissions that could result in adverse impacts to sensitive receptors (i.e., humans). This Noise Technical Report also includes an assessment of ground-borne vibration impacts to sensitive receptors (i.e., structures and humans) based on vibration significance guidelines for Project construction and operation. As described below, this Noise Technical Report concludes that construction and operational noise and vibration levels would not exceed CEQA thresholds.

1.2 Project Description

The Project site is located 2.8 miles north of Interstate 10 (I-10), adjacent to the city limits of Blythe, in unincorporated Riverside County, California. The Project is located on federal lands administered by BLM and on adjacent private lands in Riverside County, as well as adjacent to existing solar facilities on private and public lands. Figure 1 illustrates the location of the Project site relative to major highways and access roads.

The Project would aggregate approximately 3,705 acres, including approximately 3,310 acres of private land and 395 acres of land administered by the U.S. Department of Interior, BLM, Palm Springs-South Coast Field Office. The Project's solar facilities (solar site) would include up to 500 megawatts (MW) of PV solar generation and battery storage with a capacity of up to 500 MW. The Project would also include transmission lines, collector substation, operations and maintenance (O&M) building, access roads, and collection lines.

The Project would include two phases, including Phase 1 – Solar and Western Area Power Administration (WAPA) Tie-In and Phase 2 – Battery Energy Storage System (BESS) and Arlington Collocation. Under Phase 1, the Project would construct the solar facility, ancillary facilities, and an approximately 3.5-mile transmission line to interconnect with the existing Parker – Blythe 161 kV transmission line owned by WAPA on private land. The Phase 1 transmission line would interconnect through a tie-in with the existing Parker – Blythe 161 kV transmission line owned by WAPA using a new 161 kV switchyard. The Phase 1 solar facility and ancillary facilities could also utilize the Phase 2 transmission line. Under Phase 2, the Project would construct a BESS and ancillary facilities on private land and an approximately 10.5-mile transmission line to interconnect with the Southern California Edison (SCE) 230-kV Colorado River Substation located on BLM-administered land. The majority of the Phase 2 transmission line

(8.6 miles) would utilize the existing open-circuit of the double-circuit Arlington transmission line; and therefore, would be located within an existing right-of-way (ROW). The 395-acre area on BLM-administered lands would be limited to the transmission line in Phase 2.

Grace Orchard Solar II, LLC/NextEra Energy Inc. (Applicant) proposes to construct, operate, and decommission the PV electricity-generating facility for an anticipated 40-year operational life of the Project, with the option to redevelop, pursuant to a Title V Federal Lands Policy and Management Act of 1976 ROW from BLM.

Noise generating equipment proposed as part of the Project includes a substation transformer, 55 battery energy storage container units, and 147 power conversion systems, each including an inverter and a low-voltage transformer. The closest noise-sensitive land uses include a residence located just to the north of the Project and Palo Verde Community College, located about a mile to the east.

1.3 Fundamentals of Noise and Vibration

The following is a brief discussion of fundamental noise concepts and terminology.

1.3.1 Sound, Noise, and Acoustics

Sound consists of three components: the sound source, sound path, and sound receptor. All three components must be present for sound to exist. Without a source to produce sound, there is no sound. Similarly, without a medium to transmit sound pressure waves, there is no sound. Finally, sound must be received; a hearing organ, sensor, or object must be present to perceive, register, or be affected by sound or noise. In most situations, there are multiple sound sources, paths, and receptors. Acoustics is the field of science that deals with the production, propagation, reception, effects, and control of sound. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired.

1.3.2 Sound Pressure Levels and Decibels

The amplitude of a sound wave determines its loudness. Loudness of sound increases with increasing amplitude. Sound pressure amplitude is measured in units of micronewtons per square meter, also called micropascals. One micropascal is approximately one-hundred billionth (0.00000000001) of normal atmospheric pressure. The pressure of a very loud sound may be 200 million micropascals, or 10 million times the pressure of the weakest audible sound. Because expressing sound levels in terms of micropascals would be very cumbersome and the sensitivity of human hearing to changes in micropascals is rather coarse (e.g., a doubling of micropascals is just audible to most people), sound pressure level in logarithmic units is used instead to describe the ratio of actual sound pressure to a reference pressure squared. These units are called Bels. To provide a finer resolution, a Bel is subdivided into 10 decibels (dB).

1.3.3 A-Weighted Sound Level

Sound pressure level alone is not a reliable indicator of loudness. The frequency, or pitch, of a sound also has a substantial effect on how humans will respond. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness, or human response, is determined by the characteristics of the human ear.

Human hearing is limited not only in the range of audible frequencies, but also in the way it perceives the sound in that range. In general, the healthy human ear is most sensitive to sounds between 1,000 and 5,000 hertz, and it perceives a sound within that range as more intense than a sound of higher or lower frequency with the same magnitude. To approximate the frequency response of the human ear, a series of sound level adjustments is usually applied to the sound measured by a sound level meter. The adjustments (referred to as a weighting network) are frequency dependent.

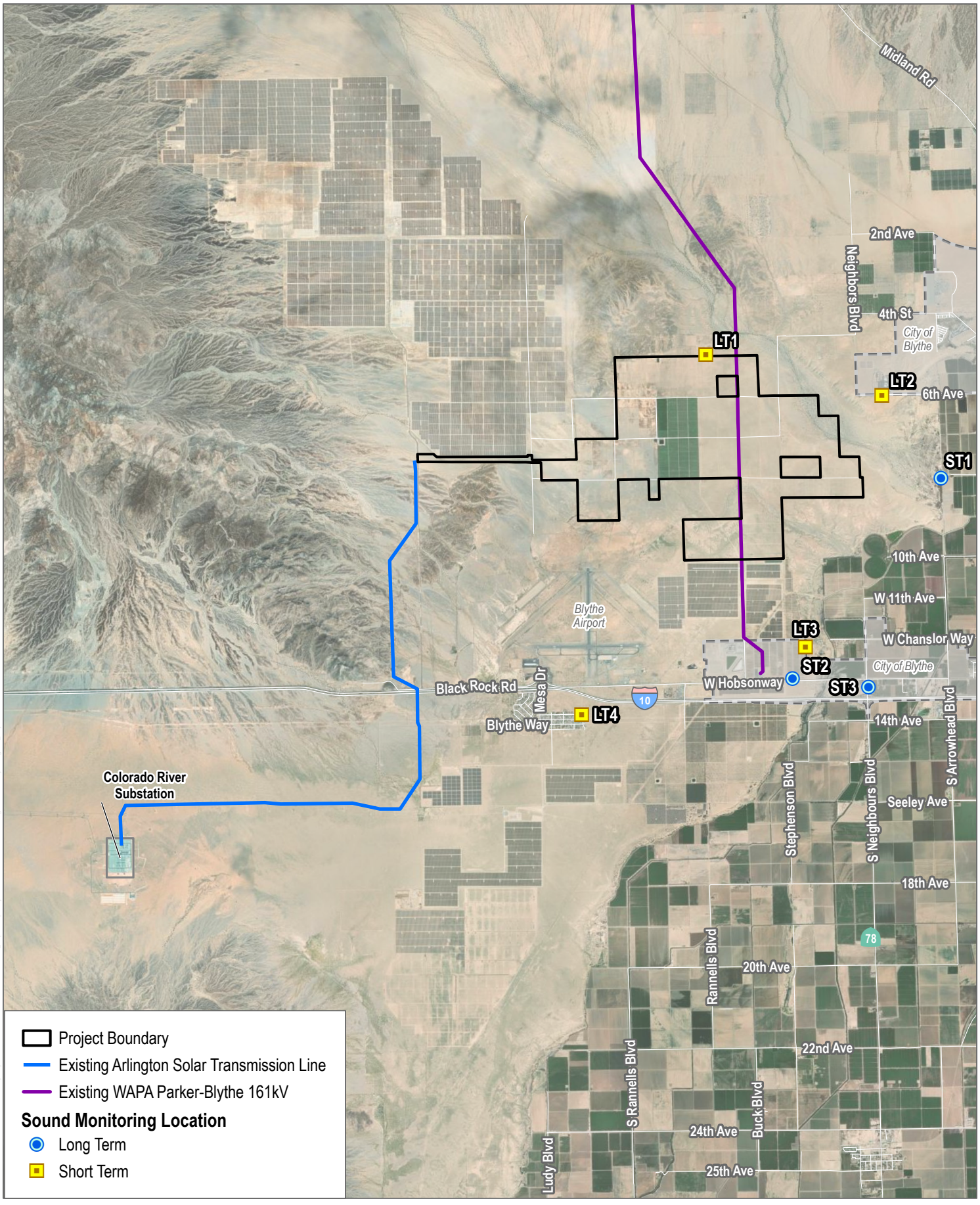
The A-scale weighting network approximates the frequency response of the average young ear when listening to ordinary sounds. When people make judgments about the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Other weighting networks have been devised to address high noise levels or other special situations (e.g., B-scale, C-scale, and D-scale), but these scales are rarely used in conjunction with most environmental noise evaluations. Noise levels are typically reported in terms of A-weighted sound levels. All sound levels discussed in this report are A-weighted decibels (dBA). Examples of typical noise levels for common indoor and outdoor activities are depicted in Table 1.

Table 1. Typical Noise Levels Associated with Common Activities

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110	Rock Band
Jet Flyover at 1,000 feet	105	
	100	
Gas Lawn Mower at three feet	95	
	90	
Diesel Truck at 50 feet, 50 miles per hour	85	Food Blender at 3 feet
	80	Garbage Disposal at 3 feet
Noisy Urban Area, Daytime	75	
	70	Vacuum Cleaner at 10 feet
Commercial Area	65	Normal speech at 3 feet
Heavy Traffic at 300 feet	60	
	55	Large Business Office
Quiet Urban Daytime	50	Dishwasher (in next room)
	45	
Quiet Urban Nighttime	40	Theater, Conference Room (background)
Quiet Suburban Nighttime	35	
	30	Library
Quiet Rural Nighttime	25	Bedroom at Night, Concert Hall (background)
	20	
	15	Broadcast/Recording Studio
	10	
	5	
Lowest Threshold of Human Hearing (Healthy)	0	Lowest Threshold of Human Hearing (Healthy)

Source: Caltrans 2020a.
Notes: dBA = A-weighted decibel.

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SOURCE: Esri World Imagery (accessed 2025)

DUDEK

0 4,100 8,200 Feet

FIGURE 1

Project Location and Sound Monitoring Locations

Grace Solar Energy Center

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1.3.4 Human Response to Changes in Noise Levels

Under controlled conditions in an acoustics laboratory, the trained, healthy human ear is able to discern changes in sound pressure levels of 1 dB when exposed to steady, single-frequency signals in the mid-frequency range. Outside such controlled conditions, the trained ear can detect changes of 2 dB in normal environmental noise. It is widely accepted that the average healthy ear, however, can barely perceive noise level changes of 3 dB. A change of 5 dB is readily perceptible, and a change of 10 dB is perceived as twice (if a gain) or half (if a loss) as loud. A doubling of sound energy results in a 3 dB increase in sound, which means that a doubling of sound energy (e.g., doubling the volume of traffic on a road) would result in a barely perceptible change in sound level.

1.3.5 Noise Descriptors

Additional units of measure have been developed to evaluate the long-term characteristics of sound. The energy-equivalent sound level (L_{eq}) is also referred to as the time-average sound level. It is the equivalent steady-state or constant sound level that in a stated period of time would contain the same acoustical energy as the time-varying sound level during the same time period. For instance, the 1-hour A-weighted equivalent sound level, $L_{eq(h)}$, is the energy average of the A-weighted sound levels occurring during a 1-hour period and is the basis for most of the City Noise Ordinance standards. The statistical sound level (L_{xx}) is a statistical value corresponding with the decibel level exceeded for a cumulative percent over a defined time period. By way of example, the “L-ninety” value (L_{90}) is a decibel level exceeded 90% during a given measurement period (such as 54 minutes out for an hour).

People are generally more sensitive to and thus potentially more annoyed by noise occurring during the evening and nighttime hours. Hence, another noise descriptor used in community noise assessments, day-night level (L_{dn}), -- represents the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10 dB penalty applied to A-weighted sound levels occurring during nighttime hours between 10 p.m. and 7 a.m. The community noise equivalent level (CNEL), similar to the L_{dn} also represents a time-weighted, 24-hour average noise level based on the A-weighted sound level. However, the CNEL descriptor also accounts for increased noise sensitivity during the evening (7 p.m. to 10 p.m.) by adding 5 dBA to the average sound levels occurring during these defined hours within a 24-hour period.

1.3.6 Sound Propagation

Sound propagation (i.e., the traverse of sound from a noise emission source position to a receptor location) is influenced by multiple factors that include geometric spreading, ground absorption, atmospheric effects, and occlusion by natural terrain and/or features of the built environment.

Sound levels attenuate (or diminish) geometrically at a rate of approximately 6 dB per doubling of distance from an outdoor stationary point-type source due to the spherical spreading of sound energy with increasing distance travelled and 3 dB per doubling of distance from an outdoor stationary line source (like vehicles traveling along a roadway). The effects of atmospheric conditions such as humidity, temperature, and wind gradients are typically distance-dependent and can also temporarily either increase or decrease sound levels measured or perceived at a receptor location. In general, the greater the distance the receptor is from the source of sound emission, the greater the potential for variation in sound levels at the receptor due to these atmospheric effects. Additional attenuation can result from sound path occlusion and diffraction due to intervention of natural (ridgelines, dense forests, etc.) and built features (such as solid walls, buildings, and other structures).

1.3.7 Ground-borne Vibration Fundamentals

Ground-borne vibration is fluctuating or oscillatory motion transmitted through the ground mass (i.e., soils, clays, and rock strata). The strength of ground-borne vibration attenuates rapidly over distance. Some soil types transmit vibration quite efficiently; other types (primarily sandy soils) do not. Several basic measurement units are commonly used to describe the intensity of ground vibration. The descriptors used by the Federal Transit Administration (FTA) are peak particle velocity (PPV), in units of inches per second (ips), and velocity decibel (VdB) that is based on a root-mean square (RMS) of the vibration signal magnitude. Per the California Department of Transportation (Caltrans) Transportation and Construction Vibration Guidance Manual (Caltrans 2020b), the calculation to determine PPV at a given vibration source to receptor distance is as follows:

$$PPV_{distance} = PPV_{ref} * (25/D)^{1.1}$$

Where:

$PPV_{distance}$ = the peak particle velocity in inches per second of the equipment adjusted for distance

PPV_{ref} = the reference vibration velocity in inches per second at 25 feet

D = the distance from the equipment to the receptor

2 Regulatory Setting

2.1 Federal

2.1.1 Noise Control Act

The Noise Control Act of 1972 and its subsequent amendments in the Quiet Communities Act of 1978 (42 United States Code [U.S.C.] 4901 et seq.) delegate authority to the states to regulate environmental noise and direct government agencies to ensure compliance with local community noise statutes and regulations.

2.1.2 Federal Transit Administration

In its Transit Noise and Vibration Impact Assessment guidance manual, the FTA recommends a daytime construction noise level threshold of 80 dBA L_{eq} over an eight-hour period when detailed construction noise assessments are performed to evaluate potential impacts to community residences surrounding a Project (FTA 2018). The FTA also recommends using a construction noise threshold of 75 dBA L_{dn} averaged over 30 days for residences exposed to construction noise lasting 30 days or longer. Although this FTA guidance is not a regulation, it can serve as a quantified standard in the absence of such limits at the state and local jurisdictional levels.

2.2 State

2.2.1 California Code of Regulations, Title 24

Title 24 of the California Code of Regulations sets standards that new developments in California must meet. According to Title 24, interior noise levels are not to exceed 45 dBA CNEL or L_{dn} in any habitable room (ICC 2019).

2.2.2 California Noise Control Act of 1973

Sections 46000 through 46080 of the California Health and Safety Code, known as the California Noise Control Act of 1973, declares that excessive noise is a serious hazard to the public health and welfare and that exposure to certain levels of noise can result in physiological, psychological, and economic damage. It also identifies a continuous and increasing bombardment of noise in the urban, suburban, and rural areas. The California Noise Control Act declares that the State of California has a responsibility to protect the health and welfare of its citizens by the control, prevention, and abatement of noise. It is the policy of the state to provide an environment for all Californians free from noise that jeopardizes their health or welfare.

2.2.3 California Department of Health Services Guidelines

The California Department of Health Services has developed guidelines of community noise acceptability for use by local agencies (OPR 2017). Selected relevant levels are listed here:

- **Below 60 dBA Ldn:** normally acceptable for low-density residential use
- **50 to 70 dBA Ldn:** conditionally acceptable for low-density residential use

- **Below 65 dBA Ldn:** normally acceptable for high-density residential use and transient lodging
- **60 to 70 dBA Ldn:** conditionally acceptable for high-density residential, transient lodging, churches, educational, and medical facilities

The normally acceptable exterior noise level for schools is up to 70 dBA L_{dn}.

2.2.4 California Department of Transportation Vibration Standards

The California Department of Transportation (Caltrans) conducted extensive research on human annoyance and damage to structures caused by vibration from short term construction activities and from long term highway operations and has published criteria for vibration management (Transportation and Construction Vibration Guidance Manual 2020). These criteria established by Caltrans are commonly used to assess vibration impacts from all types of projects and activities. For commercial buildings constructed of concrete and steel, Caltrans identifies a damage threshold of 0.5 in/sec PPV. For residential structures employing concrete foundation and wood frame construction, Caltrans identifies a conservative damage threshold vibration level standard of 0.3 in/sec PPV (Caltrans 2020b).

2.3 Local

2.3.1 Riverside County General Plan Noise Element

Non-Transportation Noise Standards

The County of Riverside (County) has set exterior noise limits to control community noise impacts from non-transportation noise sources (such as mechanical equipment, including trash compactors, air-conditioning units, etc.). Policy N 1.3 identifies noise-sensitive use areas as residences, schools, hospitals, rest homes, long-term care facilities, mental care facilities, libraries, places of worship, and some passive recreation areas. Policy N 4.1 of the Noise Element sets an exterior noise limit not to be exceeded for a cumulative period of more than ten minutes in any hour of 65 dBA L_{eq} for daytime hours of 7:00 a.m. to 10:00 p.m., and 45 dBA L_{eq} during nighttime hours of 10:00 p.m. to 7:00 a.m. at noise-sensitive uses. These stationary-source noise level standards are consistent with the County of Riverside Office of Industrial Hygiene guidelines for noise studies within the County.

Vibration Standards

According to the County's General Plan Noise Element, vibration levels with a PPV of 0.08 inches per second (in/sec) are considered readily perceptible and PPV above 0.2 in/sec are considered annoying to people in buildings. Further, General Plan Policy 16.3 identifies a motion velocity perception threshold for vibration due to passing trains of 0.01 in/sec over the range of one to 100 Hertz. For the purposes of this analysis, the vibration annoyance threshold of 0.2 in/sec shall be used to assess the potential impacts due to Project construction at nearby sensitive receptor locations.

2.3.2 Riverside County Municipal Code

Stationary Noise Source Standards

The County Noise Ordinance allows for different levels of acceptable noise depending upon land use, noting that "this ordinance is not intended to establish thresholds of significance for the purpose of any analysis required by the California Environmental Quality Act and no such thresholds are hereby established." Given that the ordinance is not intended to establish thresholds of significance under CEQA, it is used in this document for informational purposes only and Policy N 4.1 of the County's Noise Element is applied to establish significance thresholds.

For informational purposes, the Noise Ordinance or Ordinance No. 847 (Regulating Noise) is incorporated in the County Code as Chapter 9.52 (Noise Regulation). The standards in Chapter 9.52.040 (and also Section 4 of Ordinance No. 847) limit noise sources on any property from causing excessive exterior noise on any other nearby occupied property. The maximum decibel level standards depend on the receiving land use, such that sound levels in a low-density "Rural Community" shall not exceed 55 dBA L_{eq} during the daytime hours (7:00 a.m. to 10:00 p.m.) or 45 dBA L_{eq} during the nighttime hours (10:00 p.m. to 7:00 a.m.). Schools are not specifically included in the code; however, the maximum decibel level for public facilities is 65 dBA L_{eq} during the daytime hours (7:00 a.m. to 10:00 p.m.) or 45 dBA L_{eq} during the nighttime hours (10:00 p.m. to 7:00 a.m.). These nighttime thresholds coincide with the nighttime thresholds given in Policy N 4.1 of the County's Noise Element. Ordinance No. 847 also provides standards for non-noise sensitive land uses, such as agriculture, which can occasionally include noise-sensitive (i.e., residential) uses. In cases where there are no noise-sensitive land uses, as defined in Policy 1.3 in the Noise Element, on a property which is designated as a Land Use identified in Ordinance No. 847, the standards identified in Ordinance No. 847 would not apply.

Construction Noise Standards

Section 9.52.020(I) of the County's Noise Regulation Ordinance indicates that noise associated with any private construction activity located within one-quarter of a mile from an inhabited dwelling is considered exempt between the hours of 6:00 a.m. and 6:00 p.m., during the months of June through September, and 7:00 a.m. and 6:00 p.m., during the months of October through May. Neither the County's General Plan nor County Code establish numeric maximum acceptable construction source noise levels at potentially affected receptors, which would allow for a quantified determination of what constitutes a substantial temporary or periodic noise increase for purposes of CEQA analysis.

While the County has not adopted construction noise level limits for construction activities conducted during daytime hours, the FTA has adopted a guideline for daytime construction noise exposure at residential land uses. The FTA guideline is a maximum of 80 dBA L_{eq} which is averaged over a typical 8-hour construction day. While the County has not adopted this standard, it is a useful guideline when evaluating potential impacts from daytime construction noise.

2.3.3 City of Blythe General Plan Noise Element

The City of Blythe's (City) General Plan Noise Element (Blythe 2025) is a planning document which is intended to provide a policy framework within which potential noise impacts may be addressed in project review and as part of the long-range planning process. Policies are provided to protect the citizens of the City from the harmful effects of exposure to excessive noise and to protect the economic base of the City by preventing the encroachment of

incompatible land uses near known noise producing sources. Noise compatibility standards are referenced to the California Office of Planning and Research (see Section 2.2.3). The following policies would be applicable to the Project:

S-3 Policy: New industrial, commercial, of other noise generating land uses should be discouraged if resulting noise levels will exceed 65 dBA L_{dn} (or CNEL) at the boundary of planned or zoned noise-sensitive land uses.

S-6 Policy: The preferred method of noise control used is thoughtful site design. Secondary noise control should be achieved through the use of artificial noise barriers.

In addition, the following land use compatibility policy would be applicable to the Project:

Policy 3: New development of industrial, commercial, or other noise generating land uses will not be permitted if resulting noise levels will exceed 60 dBA L_{dn} (or CNEL) at the boundary of areas containing or planned and zoned for residential or other noise-sensitive land uses.

2.3.4 City of Blythe Code of Ordinances

The City's Code of Ordinances Chapter 17.28 (Blythe 2023) specifies that "no use shall be established which causes or emits any dust, gas, smoke, fumes, odors, noise or vibrations which are or may be detrimental to other properties in the neighborhood or to the occupants thereof." The code does not provide any quantitative limits on noise or vibration that would be relevant to the Project, including specific to construction activities.

3 Existing Conditions

3.1 Sound Monitoring Survey

Sound pressure level (SPL) measurements were conducted near the Project site on July 9 through 11, 2024, to quantify and characterize the existing outdoor ambient sound levels. Table 2 provides the location, date, and time period at which these baseline sound level measurements were performed by an attending Dudek field investigator using a Rion-branded Model NL-62 sound level meter (SLM) equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The SLM meets the current American National Standards Institute standard for a Type 1 (Precision Grade) sound level meter. Sound level measurements were also conducted using a SoftdB "Piccolo" model sound level meter (SLM) equipped with a windscreen-protected, 0.5-inch diameter pre-polarized condenser microphone with pre-amplifier. The SLM meets the current American National Standards Institute (ANSI) standard for a Type 2 (General Use) SLM. The accuracy of both sound level meters was verified using a field calibrator before and after the measurements, and the measurements were conducted with the microphone positioned approximately five feet above the ground.

Three (3) short-term (ST) sound level measurement locations (ST1-ST3) that represent existing noise-sensitive receivers were selected on and near the Project site. These locations are depicted as receivers ST1-ST3 on Figure 1, Project Location and Sound Monitoring Locations, and were selected to characterize the baseline outdoor ambient sound levels for residential noise-sensitive receptors in the County (see Figure 1). The measured sound levels and primary sound sources at locations ST1-ST3 are provided in Table 2.

Table 2. Measured Baseline Outdoor Ambient Sound Levels

Site	Location/Address (sound sources)	Date/Time	L_{eq} (dBA)	L_{90} (dBA)	L_{10} (dBA)
ST1	East of Project boundary, along 8th Avenue and near Blythe Bowmen Club (biogenic and natural sounds)	2024-07-09, 10:05 AM to 10:20 AM	44	38	46
ST2	South of Project boundary, along Hobsonway (I-10 and local traffic)	2024-07-09, 10:39 AM to 10:54 AM	51	50	53
ST3	Southeast of Project boundary, along South Neighbors Boulevard (I-10 and local traffic)	2024-07-09, 11:02 AM to 11:17 AM	60	58	61

Source: Appendix A.
Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); L_{90} = sound level exceeded 90% of the time; L_{10} = sound level exceeded 10% of the time; dBA = A-weighted decibels; ST = short-term sound measurement locations.

Additionally, four long-term (LT) sound measurement locations (LT1-LT4) that represent existing noise-sensitive receptors were selected on and near the Project site (see Figure 1). The sound measurements at locations LT1-LT4 spanned a full 48-hour cycle, totaling 2880 consecutive minutes in duration, and L_{eq}, L_{10}, L_{50}, and L_{90} metrics were measured. While L_{eq} provides insight into the overall sound exposure level detected by a sound level meter, the L_{90} value is a good indicator of the background sound environment, offering a perspective clear of short-lived disturbances. And, where the L_{10} value offers a perspective of the higher percentage of fluctuating sound levels, the L_{50} level represents the median sound levels of the measurement period. Beyond the summarized information presented in Table 2, detailed sound measurement data, such as plots displaying L_{eq}, L_{10}, L_{50}, and L_{90} levels derived

from the LT1-LT4 measurement data, field survey photos, and weather data is included in Appendix A, Baseline Sound Measurement Field Data.

3.2 Sensitive Receptors

Noise- and vibration-sensitive land uses are typically locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, rest homes, long-term care facilities, mental care facilities, libraries, places of worship, and some passive recreation areas would be considered noise- and vibration-sensitive and may warrant unique measures for protection from intruding noise. Existing sensitive receptors in the vicinity of the Project site consist of a single residence located approximately 175 feet to the north of the Project site, rural residences located about 4,400 feet to the east along 10th Avenue and about 5,500 feet to the east along Arrowhead Boulevard, and Palo Verde Community College, located about a mile to the east.

4 Thresholds of Significance

Section XIII of Appendix G of the State CEQA Guidelines addresses typical adverse effects due to noise and includes the following checklist questions to evaluate a Project's impacts due to noise. Would the Project:

1. Result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
2. Result in generation of excessive ground-borne vibration or ground-borne noise levels?
3. For a Project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, expose people residing or working in the Project area to excessive noise levels?

The following significance thresholds are set forth in Riverside County's Environmental Assessment Checklist, are derived from Section XIII of Appendix G of the State CEQA Guidelines (listed above), and are used to evaluate the significance of impacts due to noise in this analysis:

1. Would the Project be located within an airport land use plan or, where such a plan has not been adopted, within two (2) miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?
2. Would the Project be located within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?
3. Would the Project result in the 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, noise ordinance, or applicable standards of other agencies?
4. Would the Project result in the generation of excessive ground-borne vibration or ground-borne noise levels?

In light of these above significance criteria, this analysis uses the following standards to evaluate potential noise and vibration impacts.

- Construction noise – Riverside County's Municipal Code exempts the noise generated by construction activity occurring between the hours of 6:00 a.m. and 6:00 p.m., during the months of June through September, and between 7:00 a.m. and 6:00 p.m., during the months of October through May. For informational purposes, this analysis compares Project construction-generated sound levels to the FTA construction noise level threshold of 80 dBA L_{eq} over an 8-hour period.
- Transportation noise – For purposes of this analysis, a noise impact due to transportation noise would be considered significant if Project-generated traffic causes the existing levels to increase by more than 3 dB (a barely perceptible change in audibility).
- Stationary operations noise – Riverside County General Plan Noise Element prohibits facility-related noise received by any sensitive use from exceeding 65 dBA L_{eq} during daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA L_{eq} during nighttime hours (10:00 p.m. to 7:00 a.m.) for low density residential areas. Sensitive uses are defined as school, hospitals, rest homes, long term care facilities, mental care facilities, residential uses, libraries, passive recreation uses, and places of worship. Agricultural land uses are considered normally acceptable in noise exposures of 75 dBA L_{dn} or less.

- Construction vibration – Riverside County General Plan considers a vibration velocity of 0.2 ips PPV received at a structure would be considered annoying. Additionally, Caltrans Guidance recommends that a vibration level of 0.3 ips PPV be used as the threshold for building damage risk to residential structures and 0.5 ips PPV be used as the damage threshold for non-residential structures. These thresholds are used in this analysis to determine vibration impacts.

5 Impact Discussion

Potential noise and vibration impacts attributed to Project construction and operation are studied in the following subsections that are categorized by the CEQA Guidelines Appendix G significance for noise.

a) Would the Project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Short-Term On-Site Construction Noise

Less than Significant. Construction activities include temporary noise and vibration sources with emission levels varying from hour to hour and day to day, depending on the equipment in use, the operations performed, and the distance between the source and receptor. Construction noise modeling was performed using a Microsoft Excel–based noise prediction. Input variables include the equipment type (backhoe, crane, truck, etc.), the number of equipment pieces, the duty cycle for each piece of equipment (i.e., percentage of each hour the equipment typically works), and the distance from the sensitive receptor. Sound source information was obtained from the Noise Source Database developed under National Cooperative Highway Research Program 25-49 (NCHRP 25-49), Development of a Highway Construction Noise Prediction Model (NASEM 2022). For the pile driving equipment, noise data for a representative solar array post driver was used.

Table 3 provides a list of the hourly average and maximum sound levels generated by various powered equipment that could be associated with construction of the Project, measured at a distance of 50 feet using a "slow" response time constant (1 second). Usually, construction equipment operates in alternating cycles of full power and low power, producing average noise levels over time that are less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time.

Table 3. Sound Levels of Typical Construction Equipment

Equipment	Maximum Sound Level (dBA L_{max}) – 50 feet from Source
Air Compressor	67
Aerial Lift (Man Lift)	73
Backhoe	84
Compactor (Plate)	75
Compactor (Roller)	83
Concrete Mixer	82
Concrete Saw	88
Crane, Mobile	76
Dozer	86
Forklift	88
Generator	68
Grader	79
Horizontal Bore Drill	88
Loader	81

Table 3. Sound Levels of Typical Construction Equipment

Equipment	Maximum Sound Level (dBA L_{max}) – 50 feet from Source
Paving - Asphalt	83
Paving - Concrete	88
Pump	74
Scraper	92
Flatbed Truck	74
Welding Machine	72
Small Pile Driver	84

Notes: dBA = A-weighted decibel; L_{max} = maximum instantaneous noise level.
Source: NASEM 2022, Vermeer PD10 manufacturer specifications.

Noise emissions from Project construction were calculated at the nearest noise-sensitive land use, a single residence located about 175 feet to the north of the Project site and Palo Verde Community College, located about a mile to the east, based upon information provided by the Applicant and on the distance between the closest Project construction boundary and these uses. The anticipated equipment to be used for construction of the Project is shown in Appendix B for each phase of Project construction. Aggregate sound emissions from Project construction activities, broken down by sequential phase of construction, were predicted for the worst-case construction activity occurring along the closest construction boundary to the residence and also from the site center to the residence. Given the expanse of the site, only the loudest five pieces of equipment per phase were included in the construction calculations for the Project boundary adjacent to the nearest residence, with the understanding that equipment located farther from the boundary would have limited contribution to the overall noise levels at this location. For the site center calculations and the calculations for Palo Verde Community College, all equipment planned to be used for each phase of construction was included. The results are summarized in Table 4.

Table 4. Construction Noise Levels, Worst-Case

Task/Activity	Closest Residence from Project Boundary (175 feet)	Closest Residence from Center of Construction (1 mile)	Palo Verde Community from Project Boundary (1 mile)
	$L_{eq\ 8hr}$ (dBA)	$L_{eq\ 8hr}$ (dBA)	$L_{eq\ 8hr}$ (dBA)
Site Preparation	70	37	37
Civil Improvements – Grading / Roads / Earthwork	79	48	48
PV Panel and BESS Construction	75	50	50
Decommissioning	74	48	48

Note: $L_{eq\ 8hr}$ = average noise level equivalent over an 8-hour period; dBA = A-weighted decibel.
Source: Dudek 2024.

It is anticipated that all construction would occur within the County's allowable hours of 6:00 a.m. and 6:00 p.m., during the months of June through September, and 7:00 a.m. and 6:00 p.m., during the months of October through May. Construction activities occurring between the County's allowable hours are exempt from the County's noise limits. For informational purposes, this analysis compares Project construction-generated sound levels to the FTA construction noise level threshold of 80 dBA L_{eq} over an 8-hour period (FTA 2018).

As indicated in Table 4, worst-case construction sound levels would range from 70 to 79 dBA $L_{eq\ 8hr}$ at the nearest residence when construction is located at the Project boundary adjoining this residence. Worst-case construction sound levels would range from 37 to 50 dBA $L_{eq\ 8hr}$ at the nearest residence when construction is spread throughout the site and also at Palo Verde Community College when construction is located at the boundary closest to the school.

Construction activities would occur during the County's allowable hours and would comply with the FTA-recommended construction noise limit of 80 dBA $L_{eq\ 8hr}$ with best management construction practices only. Sound levels inside the residence would be anticipated to be about 15 dB lower with windows open and 25 dB lower with windows closed. This is a **less- than-significant** temporary noise impact.

Off-Site Construction Traffic Noise

Less than Significant. The Project would result in local, short-term increases in roadway noise as a result of construction traffic. Based on information developed as part of the Project's transportation analysis (Dudek 2025), Project-related traffic would include workers commuting to and from the Project site as well as vendor and haul trucks bringing or removing materials. Table 5 shows the construction trips by day for each construction phase. As shown in Table 5, the highest number of average daily construction-related trips to and from the Project site for all of construction phases would be 1200 worker trips, 140 vendor trips, 46 water truck trips, and 6 haul truck trips occurring during the PV Panel and BESS construction phase.

Table 5. Peak Period of Construction Trip Generation Estimates

Vehicle Type	Daily Quantity		Daily Trips	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Trip Generation									
Construction Workers[1]	600	Light vehicles	1200	600	0	600	0	600	600
Vendor Trucks[2]	70	Medium trucks	140	6	6	12	6	6	12
Water trucks[2]	23	Heavy-Duty trucks	46	2	2	4	2	2	4
Haul Trucks[2]	3	Heavy Duty trucks	6	1	0	1	1	0	1
Peak Trip Total (Non-PCE)			**1,392**	**609**	**10**	**617**	**9**	**608**	**617**

Notes:
1 Conservatively assumes all construction workers arrive in the AM peak hour and depart the site in the PM peak hour.
2 Vendor and Haul trucks are assumed to arrive and depart the site evenly throughout the workday.
Source: Dudek 2025.

The majority of Project construction traffic would travel along Buck Boulevard, traveling east and west along West Hobsonway to access I-10. The only noise-sensitive uses along this route are residences located along Hobsonway, east of Buck Boulevard. The Project traffic study determined that 270 light vehicles and 15 trucks would travel along this segment of roadway during the AM and PM peak hours as a result of Project construction.

Based on sound monitoring at location ST3 and considering the increased distance between I-10 and the residences,[1] traffic along I-10 generates an existing sound level of 58 dBA L_{eq} at these residences. Using the FTA's

[1] Uses the equation $10*\log(D_1/D_2)$ where D_1 is the distance from I-10 to ST3 and D_2 is the distance from I-10 to the residences.

Traffic Noise Model with traffic volumes provided by the Project's traffic study, traffic along Hobsonway is modeled to generate a peak-hour sound level of 59 dBA L_{eq} under existing conditions and would potentially generate a peak-hour sound level of 63 dBA L_{eq} under existing plus Project construction traffic conditions, taking into account that heavy-duty trucks generate sound levels that are about 10 dB higher than light vehicles. The overall traffic noise level at these homes would therefore be 62 dBA L_{eq} under existing conditions and 64 dBA L_{eq} under existing plus Project construction traffic conditions.[2] Project generated and background traffic noise levels are provided in Table 6.

Table 6. Project Construction Generated Traffic Noise Levels Compared to Background Sound Levels

Location	Peak Hour Traffic Noise Level, dBA L_{eq}			Project Generated Increase, dB
	Existing	Project Construction	Background + Project	
Residence along Hobsonway	62	61	64	2.6

Notes: dBA = A-weighted decibel; L_{eq} = average noise level equivalent; dBA = A-weighted decibel.

The overall increase in traffic noise levels resulting from Project construction traffic is less than 3 dB at all noise-sensitive locations. Therefore, impacts from Project-related construction traffic noise would be **less than significant** and no mitigation measures are required.

Short-Term Helicopter Noise

Less than Significant. Construction of the project may include use of a helicopter for a period of up to 4 days, for a maximum of up to 4 hours per day, to string the Phase 2 transmission line across Interstate 10. The helicopter would operate during the County's allowable hours of 6:00 a.m. and 6:00 p.m., during the months of June through September, and 7:00 a.m. and 6:00 p.m., during the months of October through May. Construction activities occurring between the County's allowable hours are exempt from the County's noise limits.

For informational purposes, helicopter overflights could generate noise levels of up to 100 dBA at a distance of 100 feet. Helicopter overflights and activity would be intermittent during the up to 4 days that helicopters would be used. The nearest sensitive receptors are suburban residences located south of I-10 and about 5,000 feet east of the helicopter path. At a distance of 5,000 feet, the helicopter would generate a noise level as high as 66 dBA. As the helicopter would not be located near sensitive locations for any extended period, and noise levels would not exceed the recommended FTA construction noise level threshold of 80 dBA L_{eq} over an 8-hour period.

Long-Term Operational Noise

Less than Significant. Long-term operational Project sound levels were assessed based upon the site layout plans indicating locations for each of the major sound-generating components of the Project, the sound level identified for each piece of equipment, and the location of the closest noise-sensitive receptors (i.e., residences) relative to the Project site. The primary sound-producing equipment associated with the proposed Project include (1) power conversion systems (PCS) consisting of inverters and low-voltage transformers, (2) a BESS consisting of batteries, controllers, and inverters, and (3) a substation with step - up transformers. The sound level contribution from other

[2] Uses the equation $10*\log(10^{(L_1/10)}+10^{(L_2/10)})$ where L_1 is the sound level generated by I-10 and L2 is the sound level generated by Hobsonway.

Project equipment, such as trackers and heating, ventilation and air conditioning (HVAC) equipment for the BESS and for the operations and maintenance building are negligible with respect to the primary sound sources and are therefore not discussed further in this analysis.

Sound modeling of Project operations was conducted in accordance with ISO Standard 9613-2, Acoustics – Attenuation of Sound During Propagation Outdoors, Part 2: General Method of Calculation, implemented using Datakustik's CadnaA software application. The CadnaA model takes into account topography, source sound power levels, surface reflection and absorption, atmospheric absorption, geometric divergence, meteorological conditions, walls, barriers, berms, and terrain. The Project area was modeled with a ground factor of G = 0.8 to represent a desert floor with loose sand and some vegetation. A temperature of 20°C with 50% relative humidity was used. No attenuation due to foliage was included.

Sound sources modeled for the Project were major producers of continuous-type noise generation, which include battery containers, PCSs, and main power transformers at the Project collector substation. While there may be other electrical transmission system components on site, such as breakers and buses, their noise emissions are—if any—sporadic and thus have no meaningful contribution to overall aggregate noise emission from the BESS facility during charging or discharging conditions. The following sound sources are included in the sound propagation model:

- *Power conversion systems*: each PCS includes an inverter and a medium voltage transformer. Manufacturer data indicated that each PCS generates a sound power level of 98 dBA under full load conditions. Although the PCSs would not be running under full load at all times, this analysis assumes full load sound generation to represent a conservative analysis. A total of 147 PCSs, modeled as point sources, are included in the model.
- *Battery energy storage containers*: The primary sound source within the containers is operation of the thermal management system (i.e., the chiller and/or cooling fan[s]). Sound test results for the battery energy storage enclosures by octave band were provided from the manufacturer. Using the loudest operating condition, each BESS was modeled at a sound power level of 102 dBA. Since the battery storage cooling systems would not be running under full load at all times, the usage of this apparent loudest sound generation condition represents a very conservative analysis. The Project proposes installation of 55 BESS containers on site.
- *Substation transformer*: The Project utilizes one 230 mega volt-amp high voltage transformer. Based on the methodology outlined in the Electric Power Plant Environmental Noise Guide (Teplitzky et al. 1979), these would generate a sound power level of 103 dBA under full power with cooling fans operating (i.e., oil natural air force or ONAF conditions).

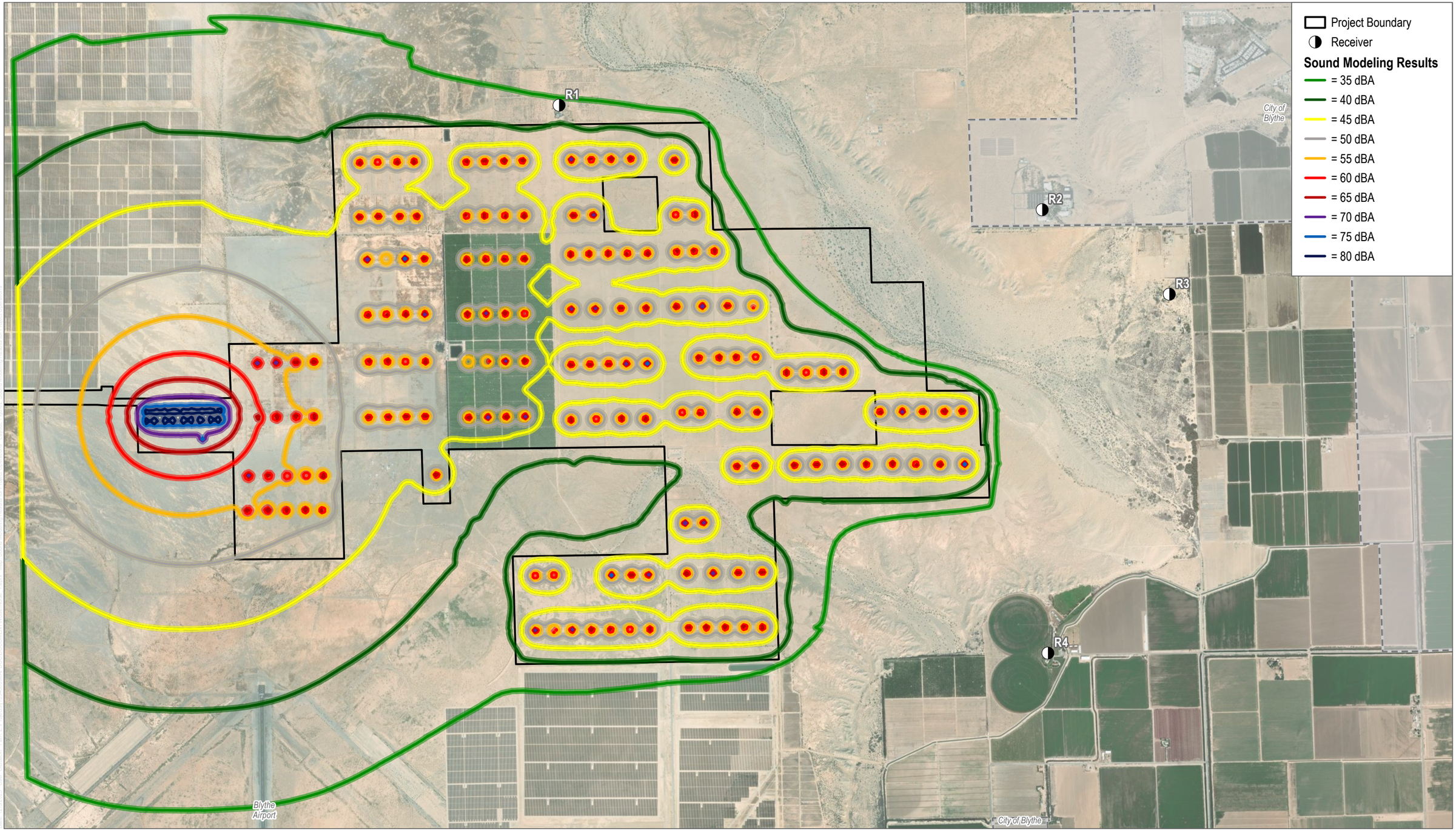
Noise-sensitive uses in the general vicinity of the Project site include a rural residence located about 175 feet to the north of the site along 5th Avenue (designated as R1 in Tables 7 and 8 and Figure 2), Palo Verde Community College located about 1 mile to the east (R2) and rural residences located about 4,400 feet to the east along 10th Avenue (R4) and about 5,500 feet to the east along Arrowhead Boulevard (R3). There are no other noise-sensitive uses in the vicinity of the Project site, as defined in the County's Noise Element Policy N 1.3. Sound modeling included four discrete off-site receivers. In addition, a grid of in-model receivers spaced 20 meters by 20 meters was set at a height of 1.5 meters (5 feet) aboveground, spanning the Project area and its immediate surroundings.

Model inputs are provided in Appendix C. The model results are presented graphically in Figure 2, Sound Modeling Results for Project Operations, and numerically in Table 7. Table 8 compares Project operational sound levels to background sound levels at these locations. Figure 2 shows the sound modeling results from Project operations.

Table 7. Modeled Project Operation Sound Levels Compared to Code Limits

Model Receiver	Land Use	Project Operational Sound Level, dBA L_{eq}	Nighttime General Plan Limit, dBA L_{eq}
R1	Residence	39	45
R2	School	27	45
R3	Residential	19	45
R4	Residential	21	45

Notes: dBA = A-weighted decibel; L_{eq} = average sound level equivalent.



SOURCE: Esri World Imagery (accessed 2024); Riverside County 2015

DUDEK

0 1,250 2,500 Feet

FIGURE 2

Sound Modeling Results for Project Operations

Grace Solar Energy Center

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Table 8. Modeled Day-Night (L_{dn}) Operational Sound Levels Compared to Background Sound Levels

Model Receiver	Project Operational Sound Level, dBA L_{dn}	Background Sound Level, dBA L_{dn}	Background + Project dBA L_{dn}	Project Generated Increase, dB
R1	46	46	49	2.7
R2	34	50	50	0
R3	26	46	46	0
R4	28	46	46	0

Notes: dBA = A-weighted decibel; L_{dn} = day-night average noise level; dBA = A-weighted decibel.
For a sound level occurring continuously over a 24-hour period, the calculated L_{dn} would be 6 dB higher than the 24-hour L_{eq} level.

Operational sound levels would be below background sound levels and the normally acceptable sound levels established in the County's General Plan (as introduced in Section 1.4.1) and would result in sound level increases of less than 3 dB at sound-sensitive locations. Sound levels would likely be inaudible at Palo Verde Community College and at the residences represented by R3 and R4. At R1, sound levels would be below daytime sound levels and similar in level to nighttime levels (see LT1 in Appendix A).

Non-noise sensitive land uses surrounding the site include the Blythe airport, adjacent and nearby solar facilities and fallow agricultural lands. These land uses would be considered normally acceptable in noise environments of up to 75 dBA L_{dn}, as identified in Table N-1 of the County's General Plan Noise Element. As shown in Figure 2, these land uses are primarily exposed to sound levels of 45 dBA L_{eq} or less. However, the Project boundary to the northwest of the site adjacent to the substation would be exposed to Project operational sound levels as high as 70 dBA L_{eq}. For a sound level occurring continuously over a 24-hour period, the calculated L_{dn} would be 6 dB higher than the 24-hour L_{eq} level. Project generated sound levels would be 75 dBA L_{dn} or less at a distance of 100 feet or more from the Project boundary at this non-noise sensitive location, considering a conservative analysis that assumes continuous 24-hr operation of all equipment at its highest operating sound level. Project operational levels would be lower at all other Project boundary locations. Therefore, these sound levels would be considered compatible with existing land uses as identified in the County's General Plan Noise Element.

As a result, Project operational noise levels would be **less than significant**.

b) Would the Project result in generation of excessive ground-borne vibration or ground-borne noise levels?

Less than Significant. Construction activity can result in varying degrees of ground vibration and ground-borne noise at local receptors, depending on the equipment and methods used, distance to the affected structures, and soil type. Caltrans has been assembling data for vibration and ground-borne noise levels generated by heavy construction equipment operation during the building of transportation projects for many years. The vibration and ground-borne noise levels from use of such equipment are representative for other types of construction efforts, not just transportation projects, and are therefore widely employed to assess vibration and ground-borne noise levels from heavy equipment use for any effort. According to Caltrans (2020b), the most important equipment relative to generation of vibration and ground-borne noise, and the vibration and ground-borne noise levels produced by such equipment, is illustrated in Table 9.

Table 9. Vibration Velocities and Ground-borne Noise Levels for Typical Construction Equipment

Equipment	PPV at 25 Feet (Inches Per Second)
Impact Pile Driver (Typical)	0.644
Vibratory Roller	0.210
Large Bulldozer	0.089
Loaded Trucks	0.076
Small Bulldozer	0.003

Note: PPV = peak particle velocity.
Source: Caltrans 2020b.

Ground-borne vibration attenuates rapidly, even over short distances. The attenuation of ground-borne vibration as it propagates from source to receptor through intervening soils and rock strata can be estimated with expressions found in Caltrans guidance (Caltrans 2020b). The following equation is used to calculate PPV at any distance of interest from the operating construction equipment.

$$PPV_{rcvr} = PPV_{ref} * (25/D)^{1.1}$$

In the above equation, PPV_{rcvr} is the predicted vibration velocity at the receiver position, PPV_{ref} is the reference value at 25 feet from the vibration source (as listed in Table 9), and D is the actual horizontal distance to the receiver.

No applicable threshold for Project-attributed construction vibration is given; therefore, it is appropriate to employ a numeric standard adopted by another agency. The California Department of Transportation (Caltrans 2020b) establishes a construction limit of 0.25 in/sec PPV for historic and old buildings, 0.3 in/sec PPV for older residential structures, and 0.5 in/sec PPV for new residential and modern commercial/industrial structures. The applicable threshold for Project-attributed construction vibration would be 0.3 in/sec PPV at the closest residences and 0.5 in/sec PPV at the closest industrial building.

The closest residential structure to the Project site is a residence located about 175 feet to the north and the closest non-residential structure is Palo Verde Community College, located about a mile to the east. Using the vibration source level of construction equipment provided in Table 9, the distance to the closest structures, and the equation supplied in the Caltrans (2020b) construction ground-borne noise assessment methodology (above), Dudek calculated the Project construction-related vibration levels shown in Table 10.

Table 10. Construction Vibration Levels at Nearest Structures, inches per second

Equipment	PPV at Nearest Residencial Structure (175 feet)	PPV at Palo Verde Community College (1 mile)
Impact Pile Driver (typical)	0.076	0.003
Vibratory Roller	0.025	0.001
Large Bulldozer	0.010	0.000
Loaded Trucks	0.009	0.000
Small Bulldozer	0.000	0.000

Note: PPV = peak particle velocity.
Source: Caltrans 2020b.

The applicable damage threshold for Project-attributed construction vibration would be 0.3 in/sec PPV at the closest residence and 0.5 in/sec PPV at the school building. As shown in Table 10, Project construction would result in vibration levels well below these thresholds and also below the County's annoyance level of 0.2 in/sec PPV. Vibration impacts of the Project would therefore be **less than significant**.

c) For a Project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?

Less than Significant. The closest airport to the proposed Project site is the Blythe Municipal Airport, located about 3,000 feet to the south of the Project site. Based on the Blythe Airport Master Plan (Blythe 2001, Riverside County ALUC 2004), portions of the Project site would reach about 58 dBA CNEL under the "ultimate" buildout of the airport. Based on the Blythe Airport Master Plan "future" (Year 2020) conditions, the site would be exposed to levels below 55 dBA CNEL. These levels would be considered compatible with residential and nonresidential land uses. Therefore, the Project would not expose people residing or working in the Project area to excessive noise levels and the impact is **less than significant.**

6 Summary of Findings

The results of the noise and vibration technical analysis indicate that potential impacts during construction would **be less than significant**. Offsite exterior noise impacts due to operation of the proposed Project would be **less than significant**. Offsite exterior noise impacts due to traffic noise would be **less than significant.**

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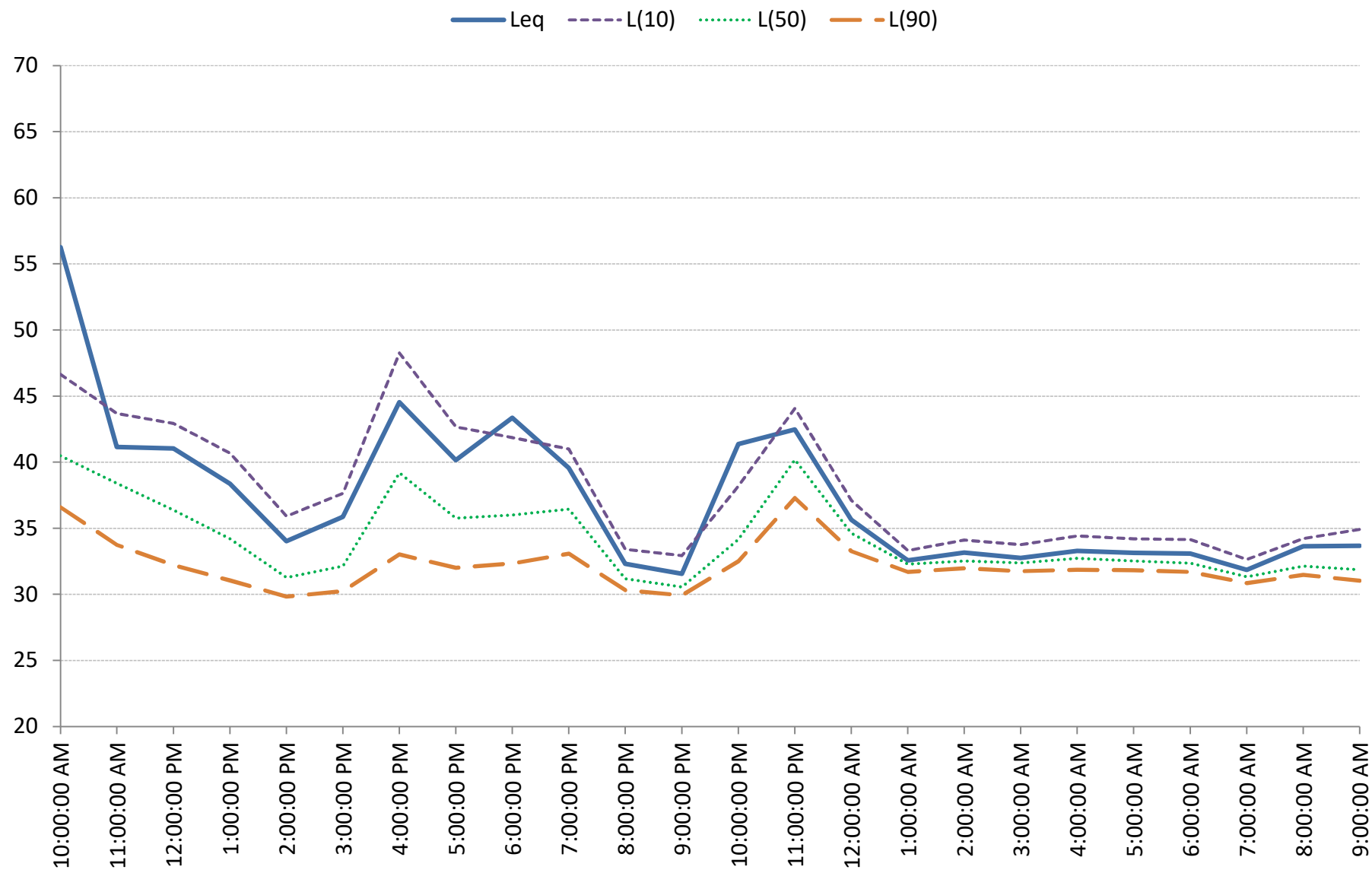
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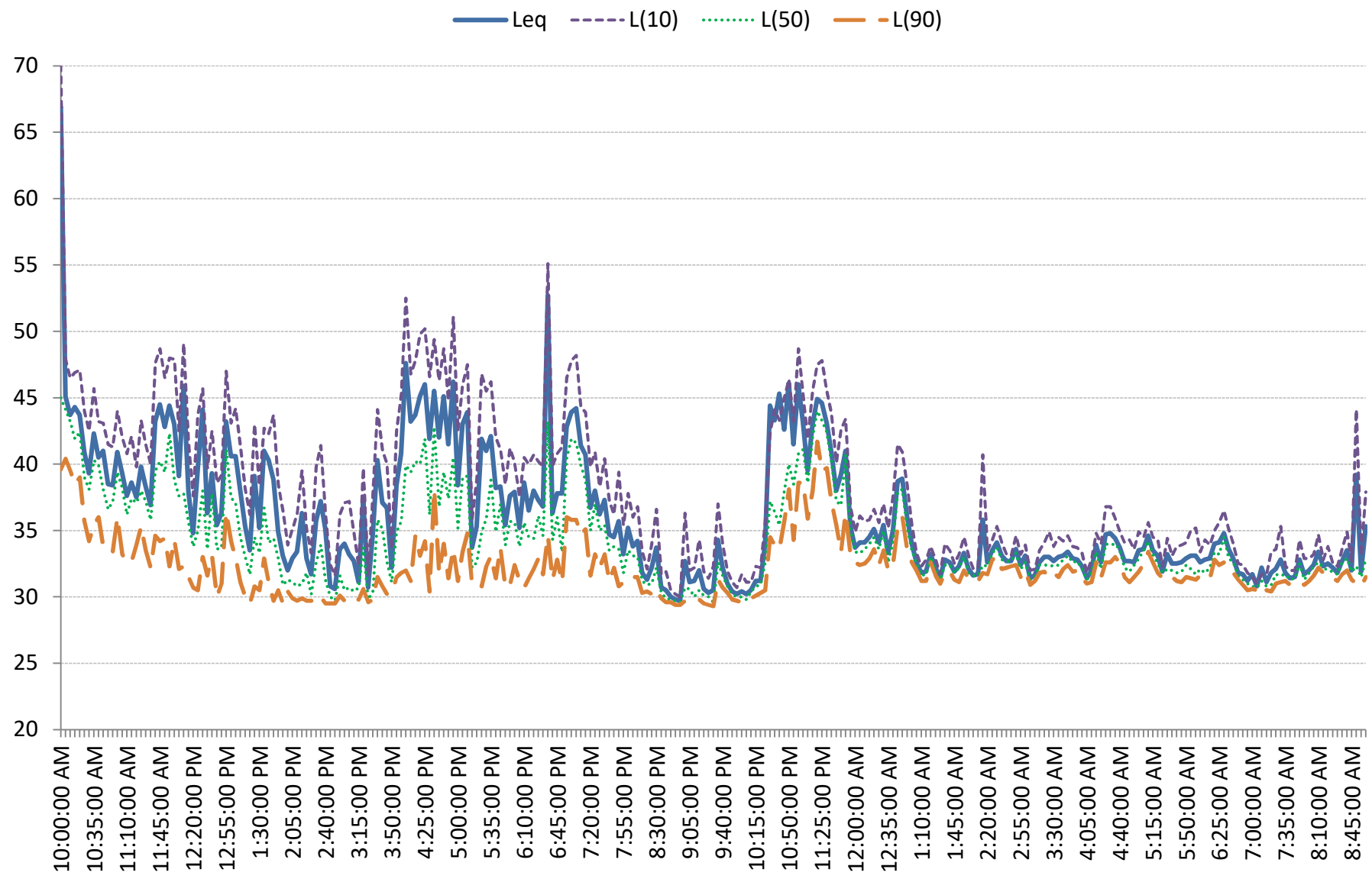
Appendix A

Baseline Sound Monitoring Field Data

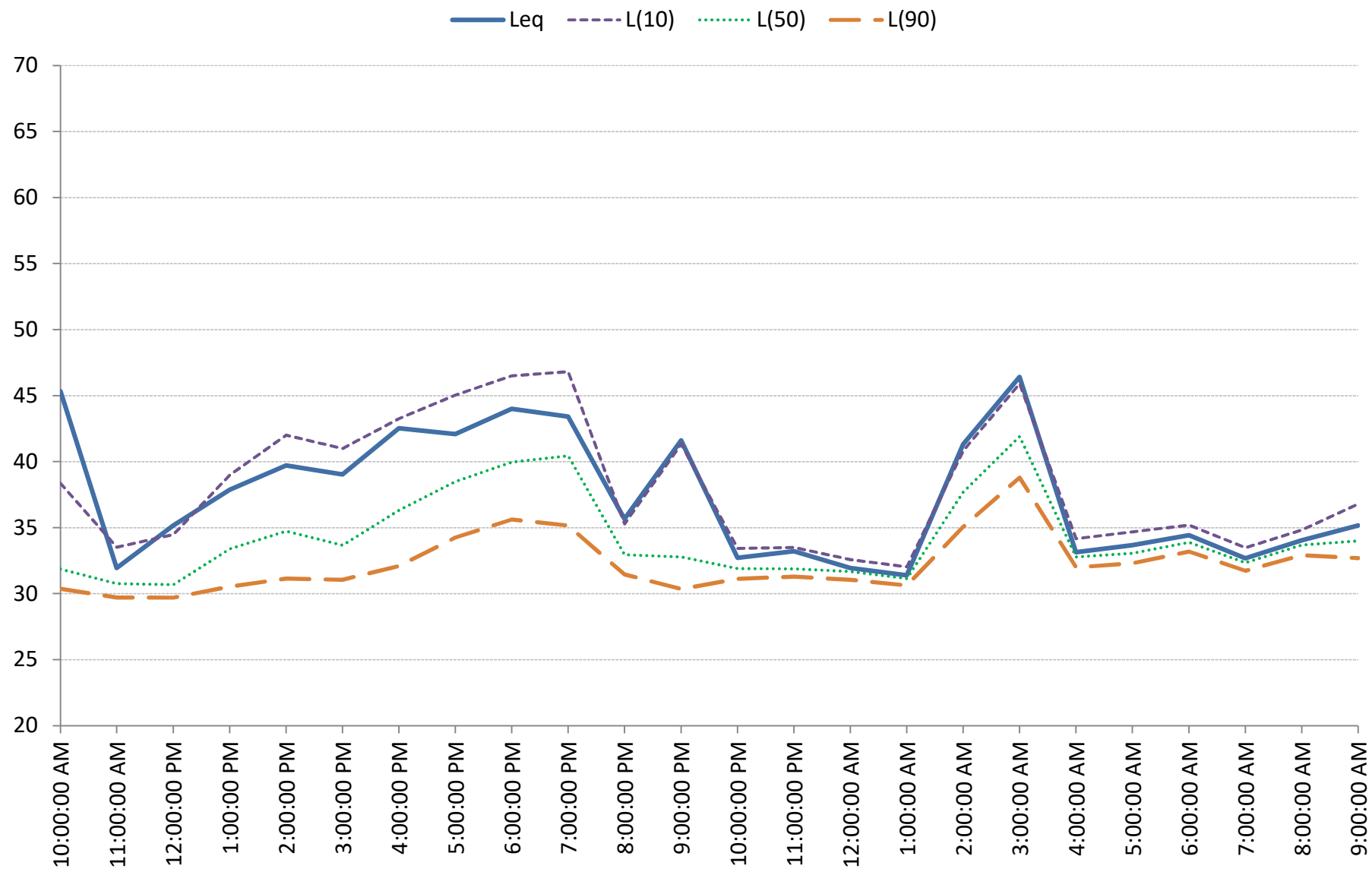
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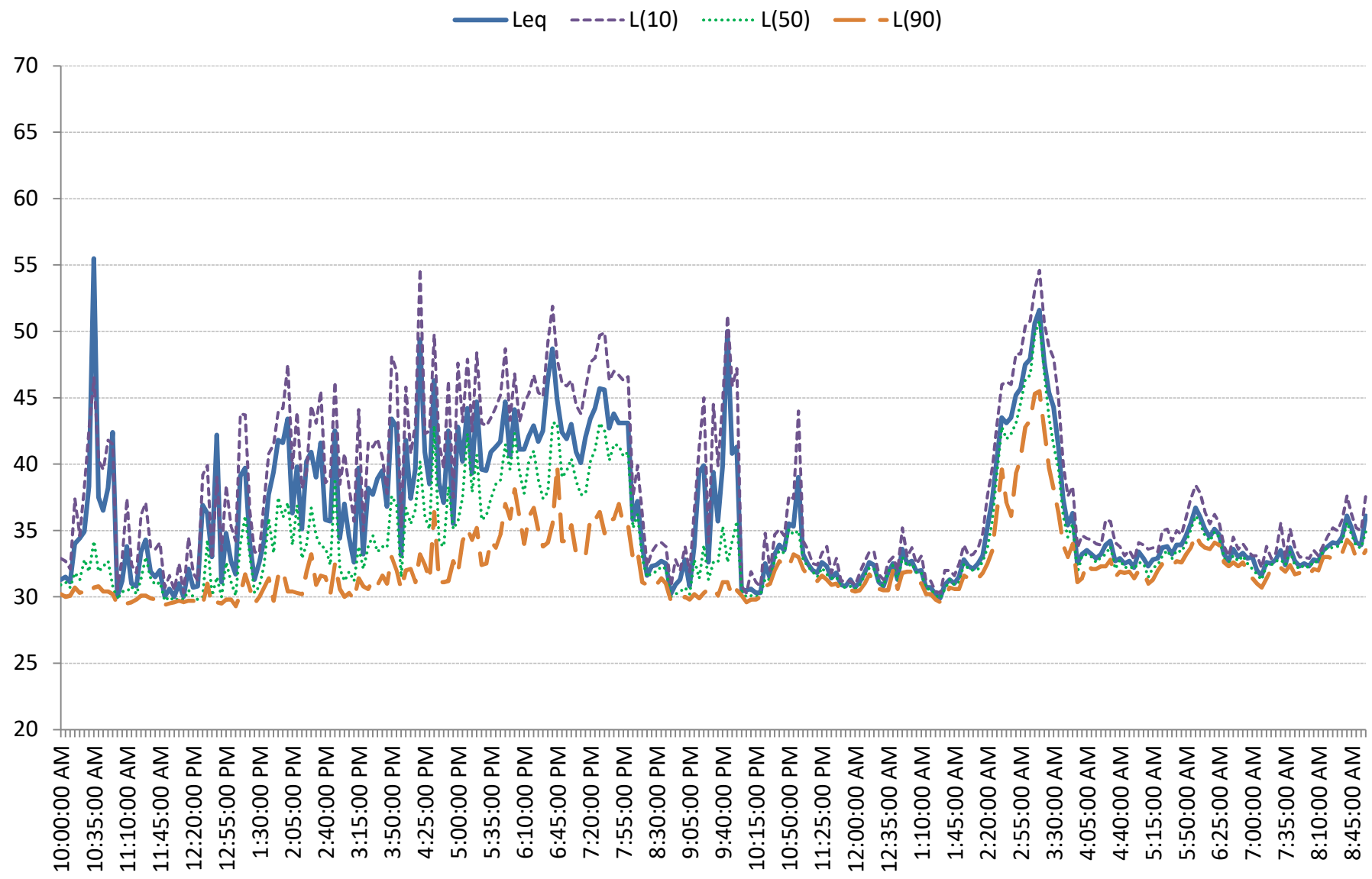
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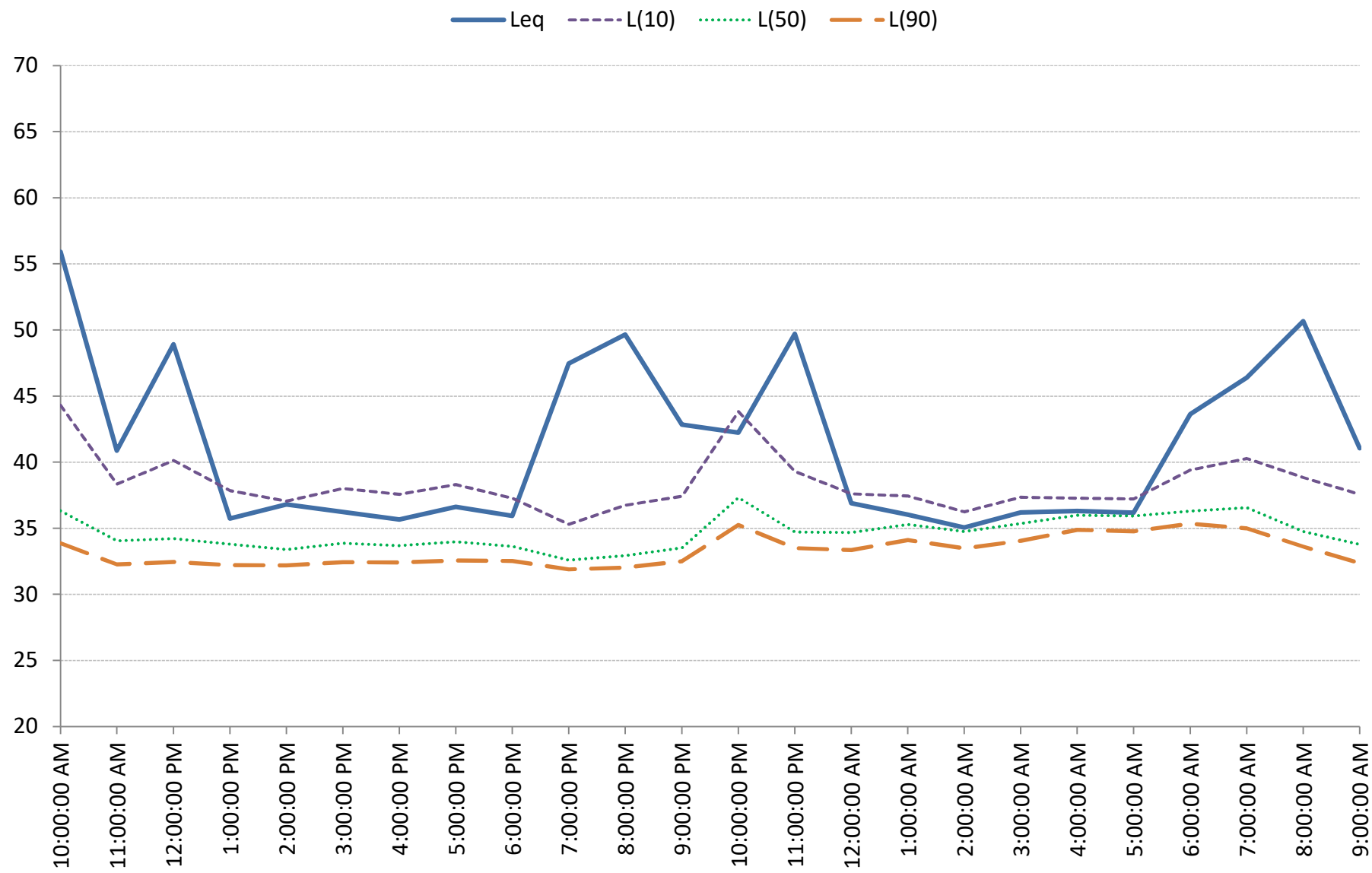
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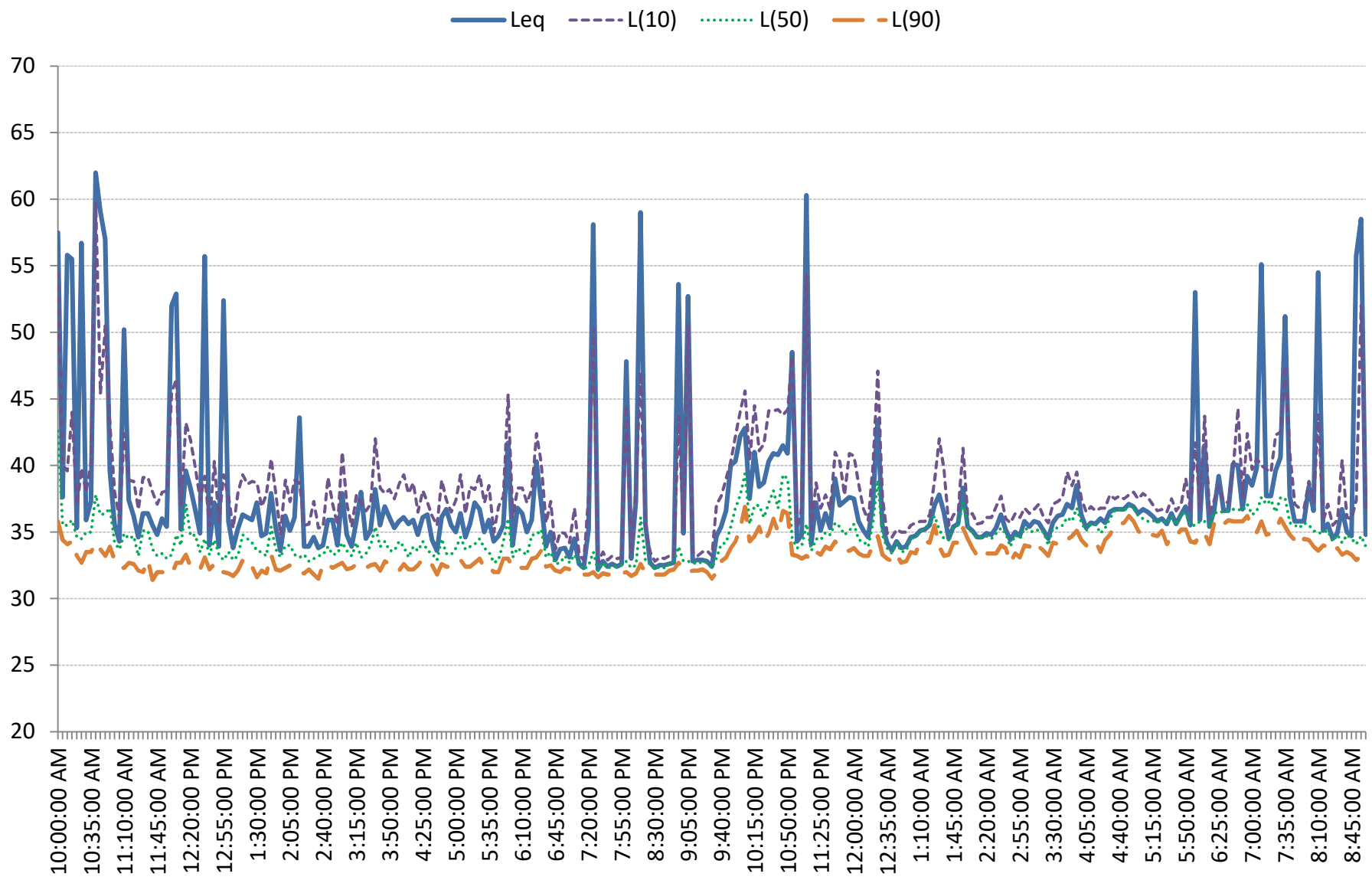
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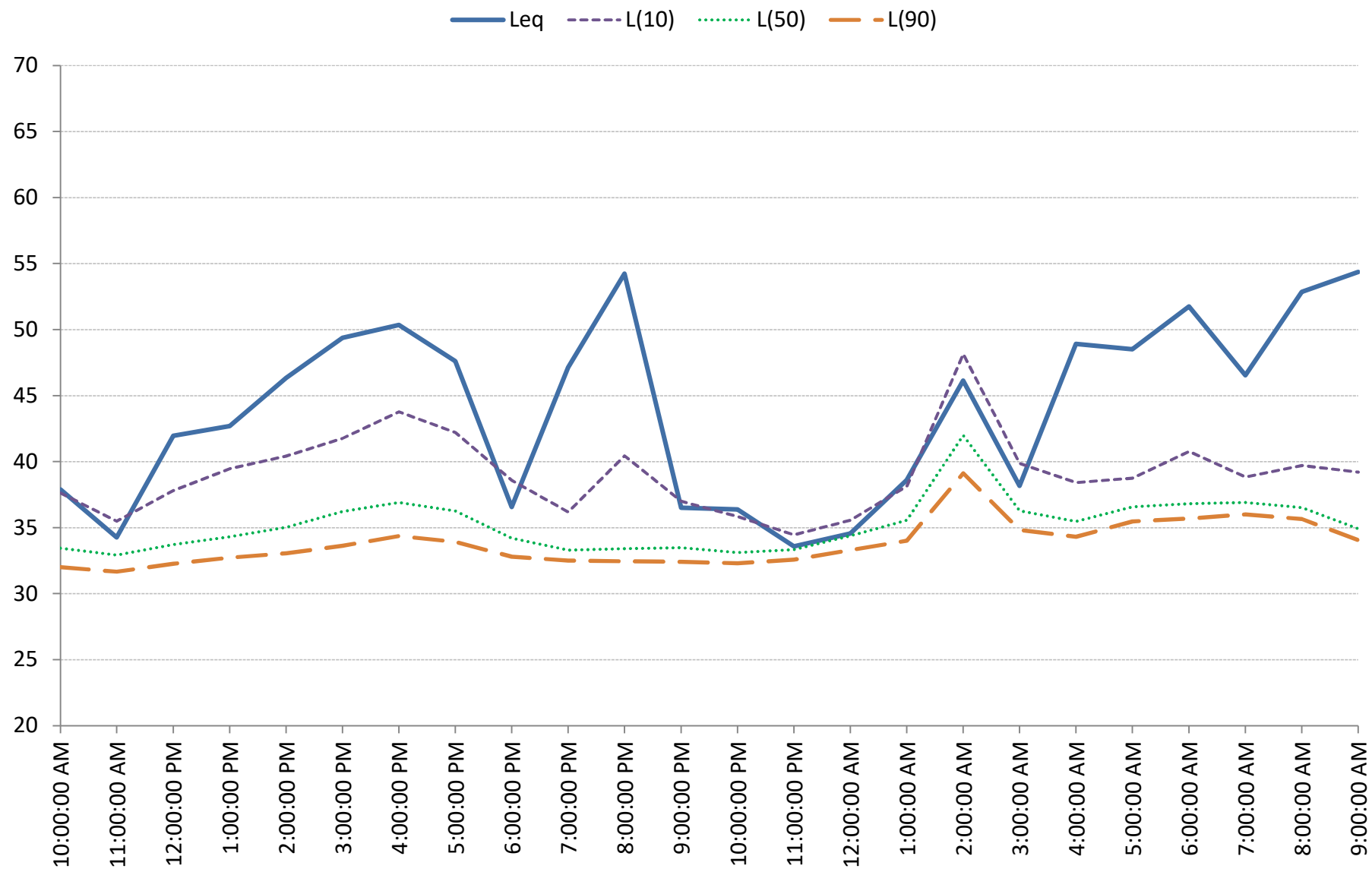
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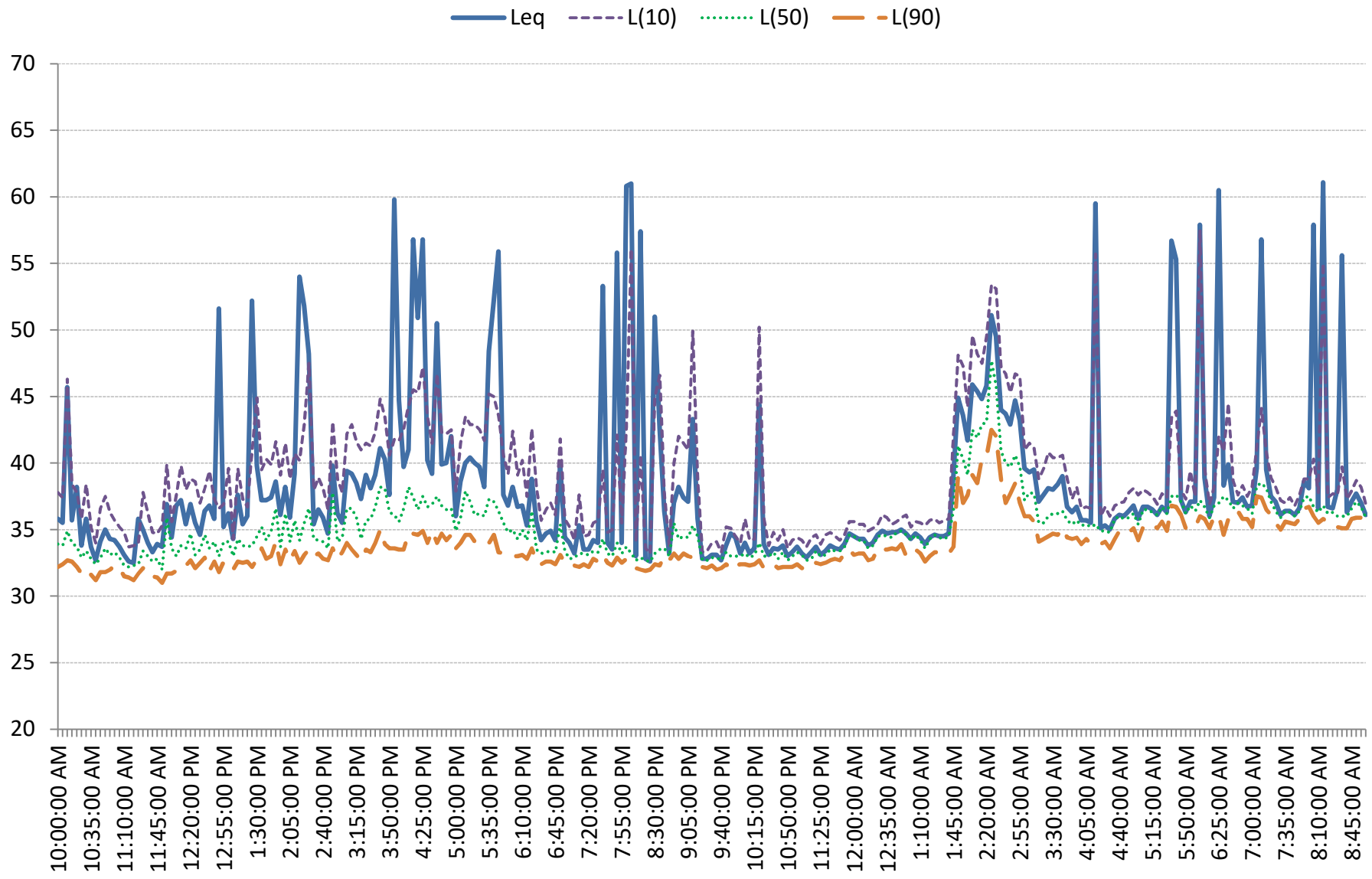
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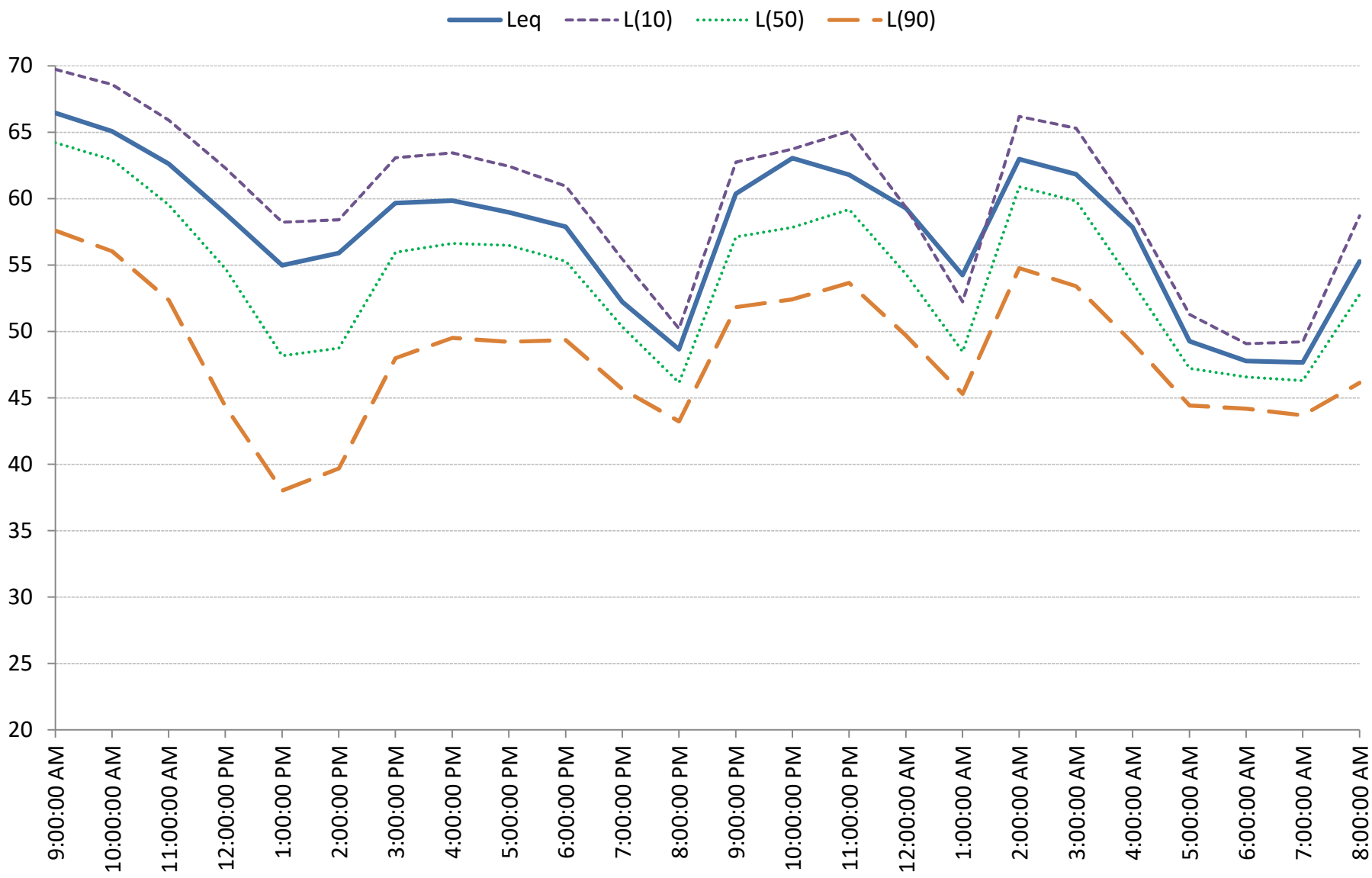
LT2 - Hourly Sound Levels from 10:00 a.m. to 9:00 a.m. (7/10/24 to 7/11/24)



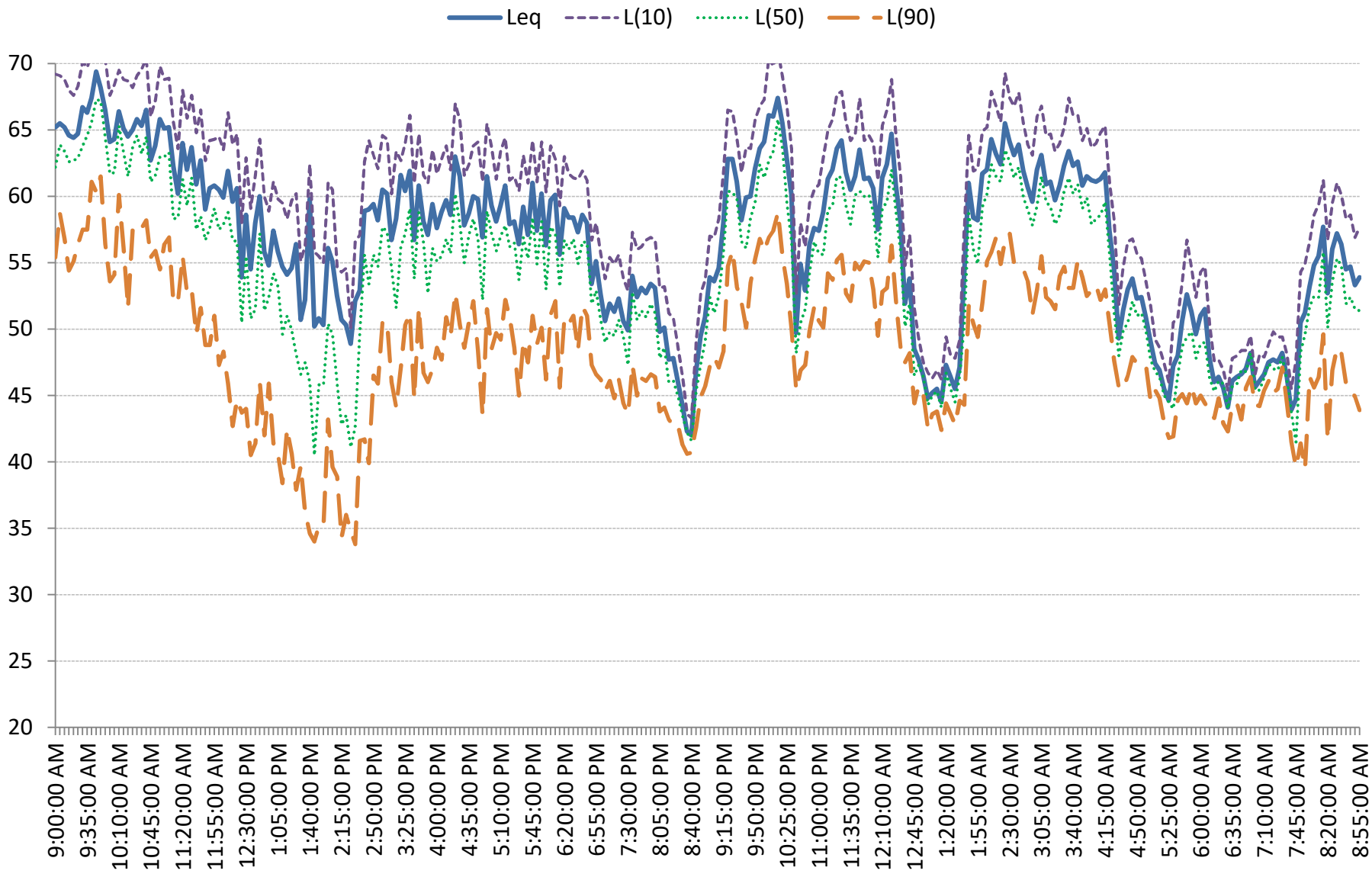
LT2 - Five-Minute Sound Levels from 10:00 a.m. to 9:00 a.m. (7/10/24 to 7/11/24)



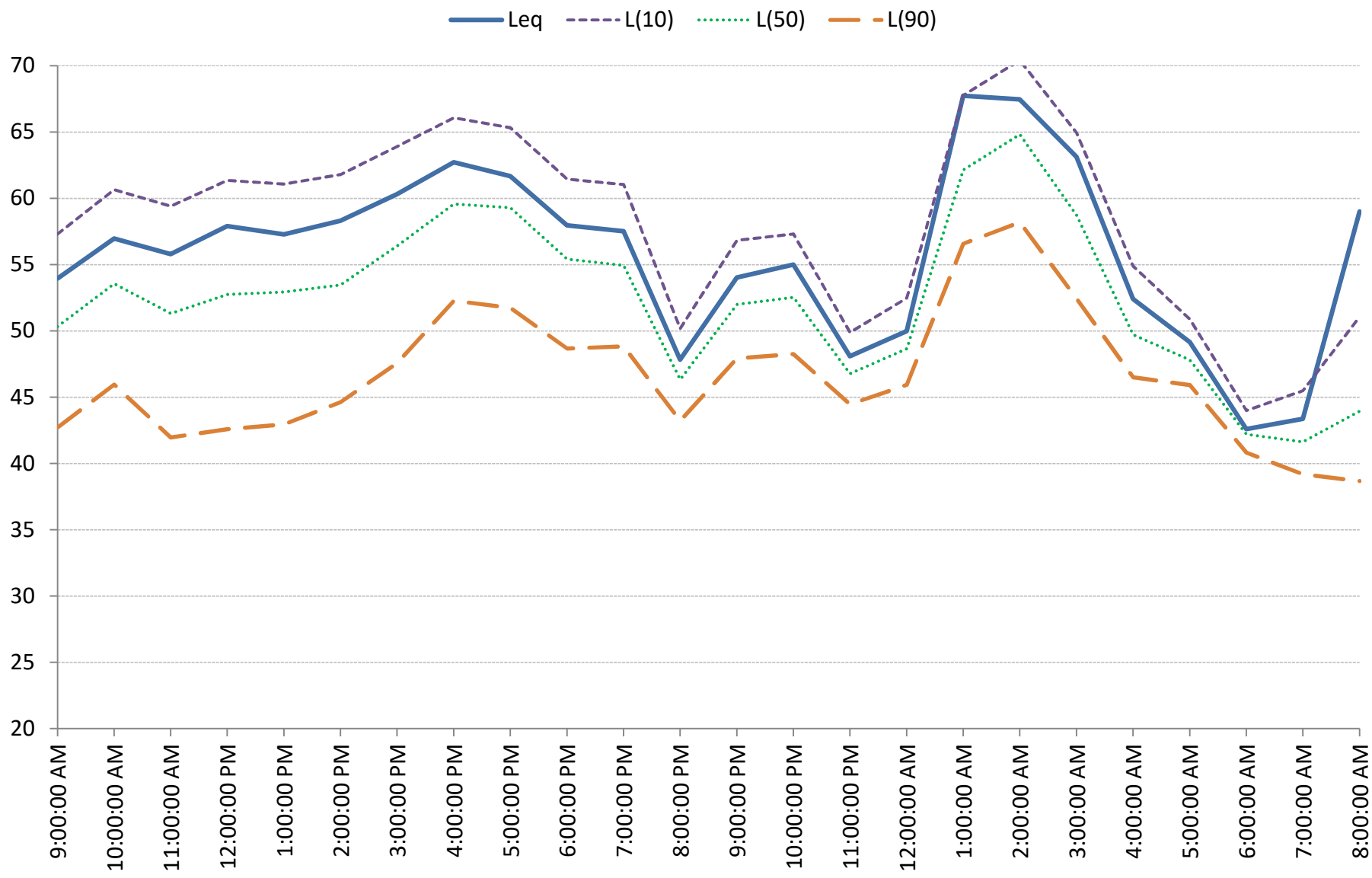
LT3 - Hourly Sound Levels from 9:00 a.m. to 8:00 a.m. (7/9/24 to 7/10/24)



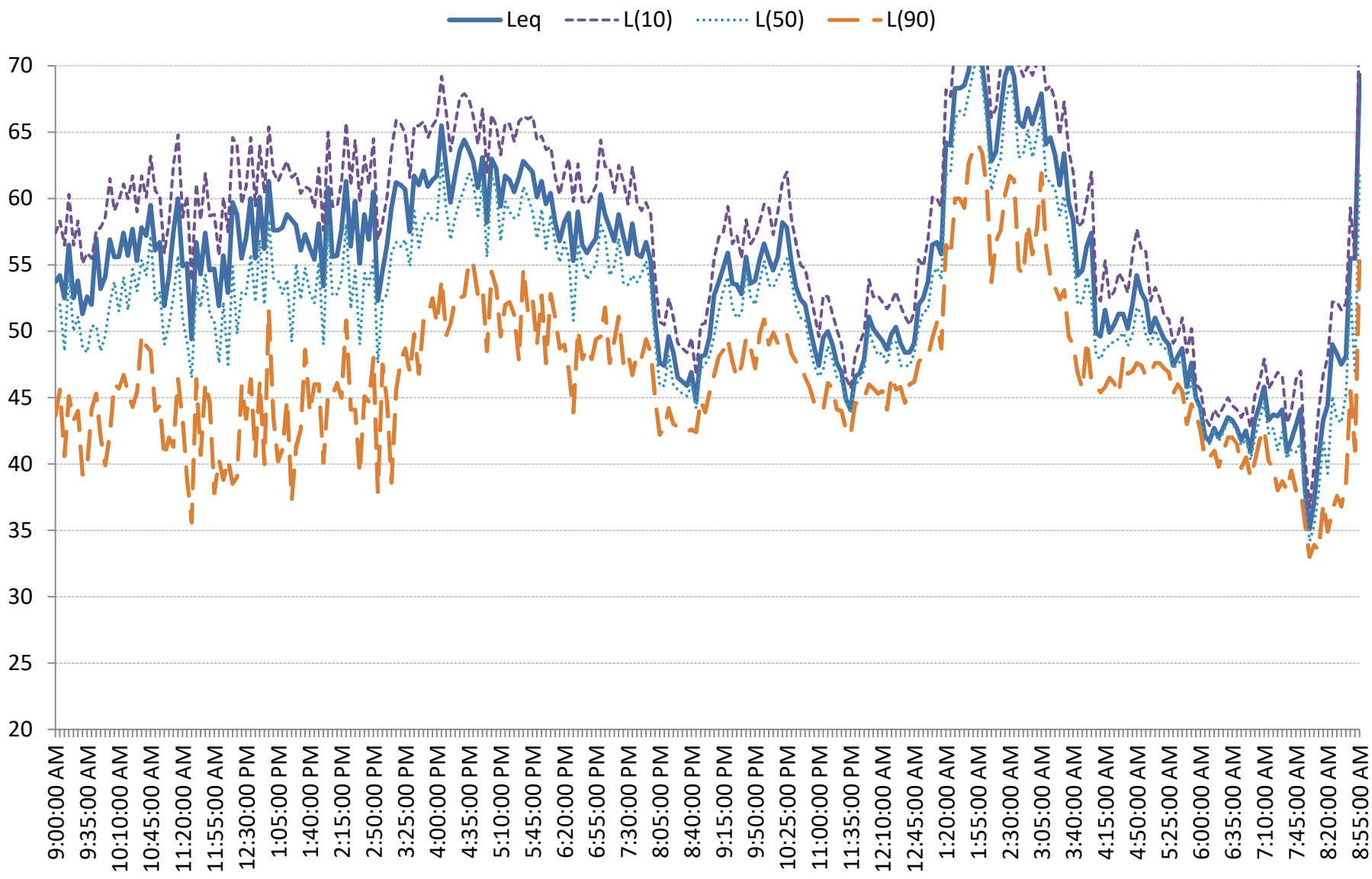
LT3 - Five-Minute Sound Levels from 9:00 a.m. to 8:45 a.m. (7/9/24 to 7/10/24)



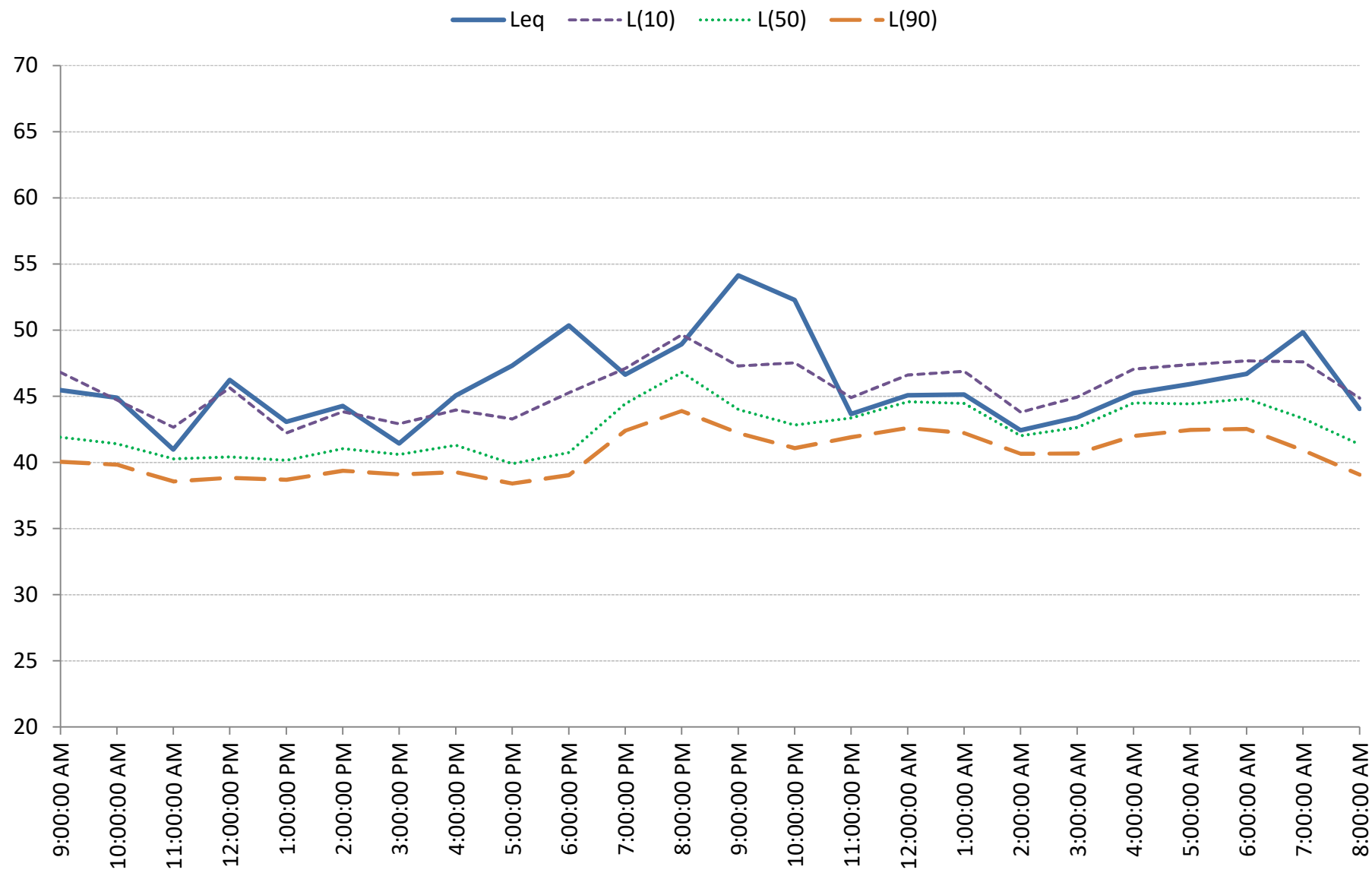
LT3 - Hourly Sound Levels from 9:00 a.m. to 8:00 a.m. (7/10/24 to 7/11/24)



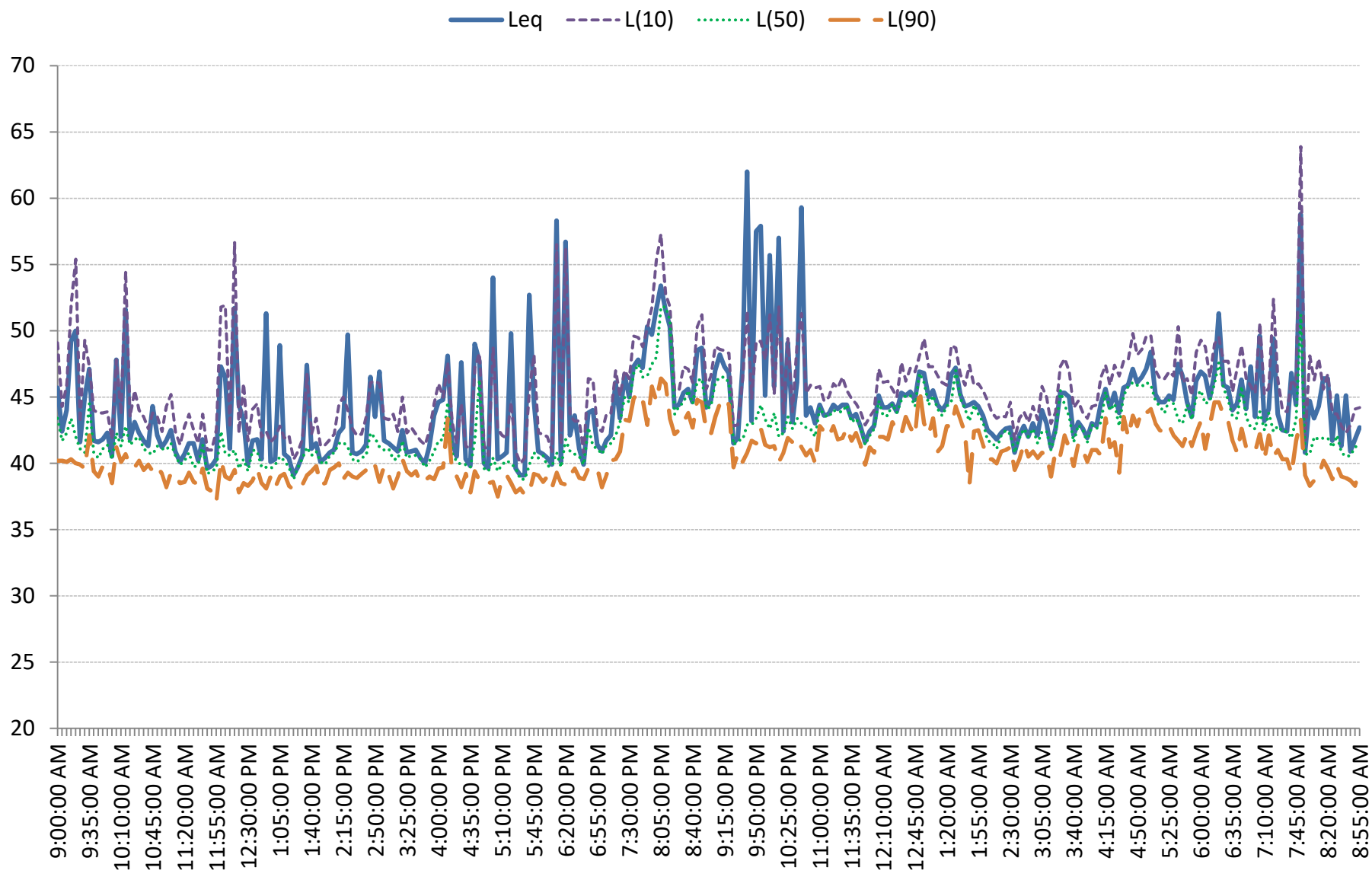
LT3 - Five-Minute Sound Levels from 9:00 a.m. to 8:45 a.m. (7/10/24 to 7/11/24)



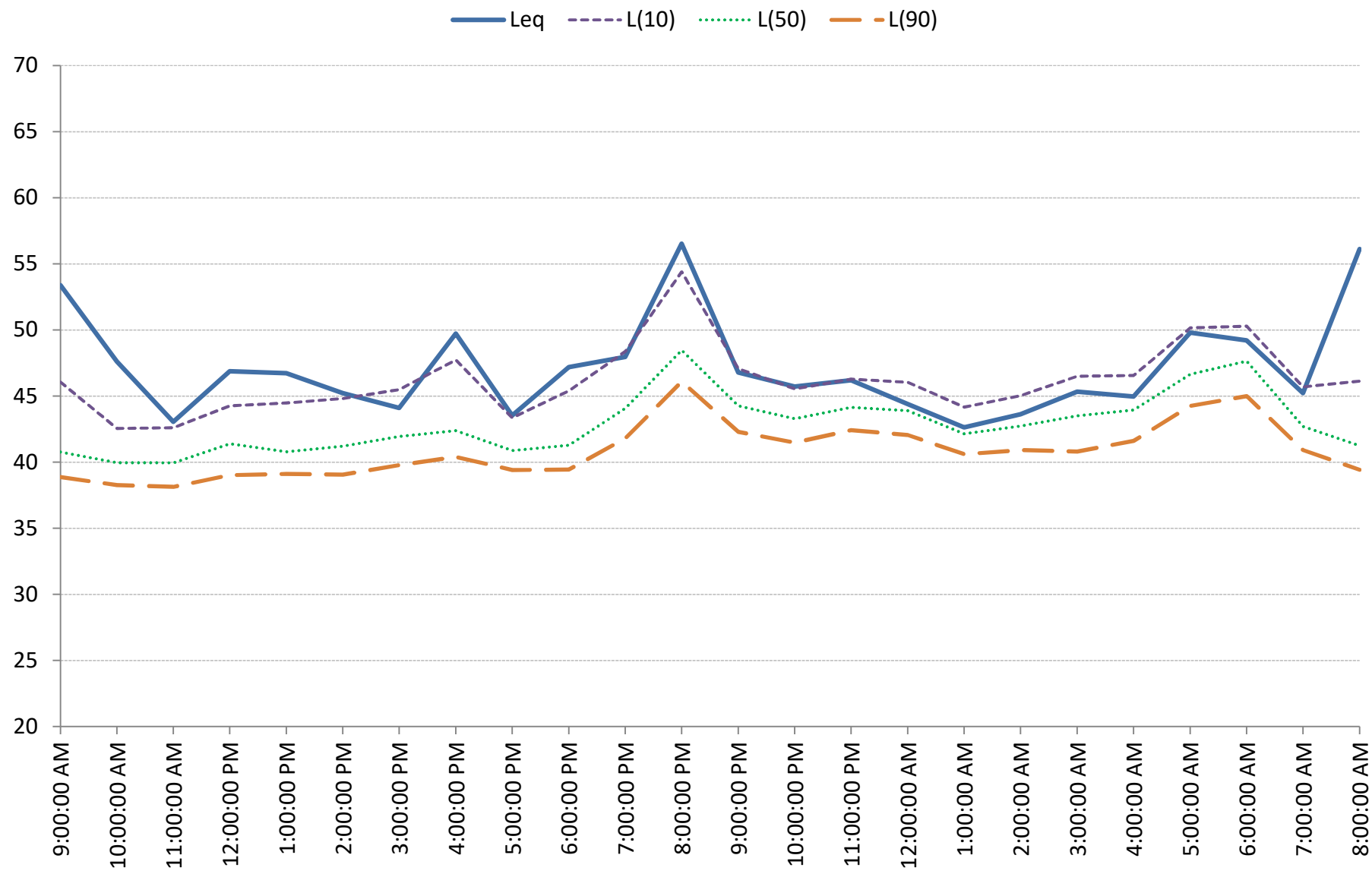
LT4 - Hourly Sound Levels from 9:00 a.m. to 8:00 a.m. (7/9/24 to 7/10/24)



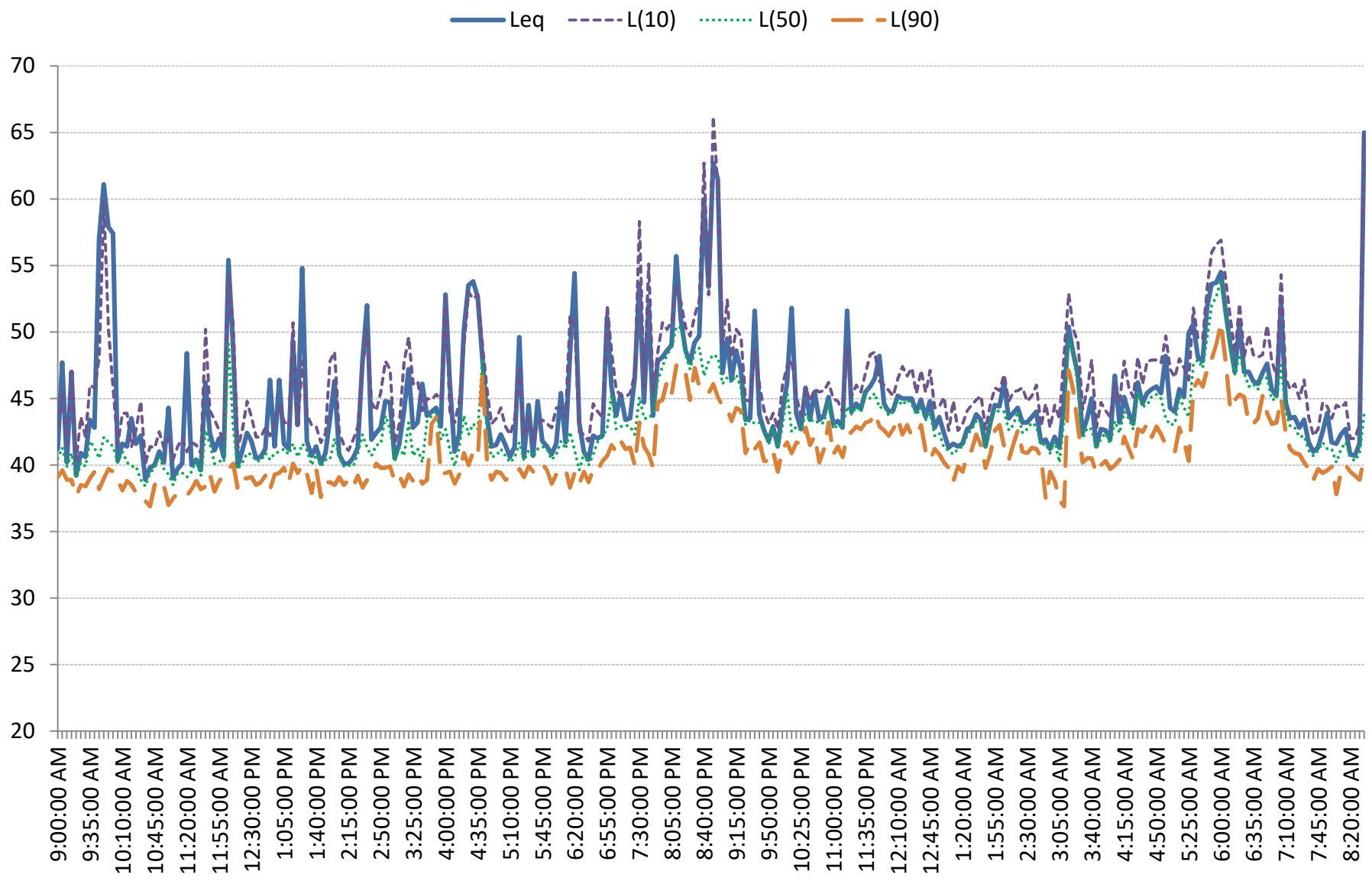
LT4 - Five-Minute Sound Levels from 9:00 a.m. to 8:45 a.m. (7/9/24 to 7/10/24)



LT4 - Hourly Sound Levels from 9:00 a.m. to 8:00 a.m. (7/10/24 to 7/11/24)



LT4 - Five-Minute Sound Levels from 9:00 a.m. to 8:45 a.m. (7/10/24 to 7/11/24)



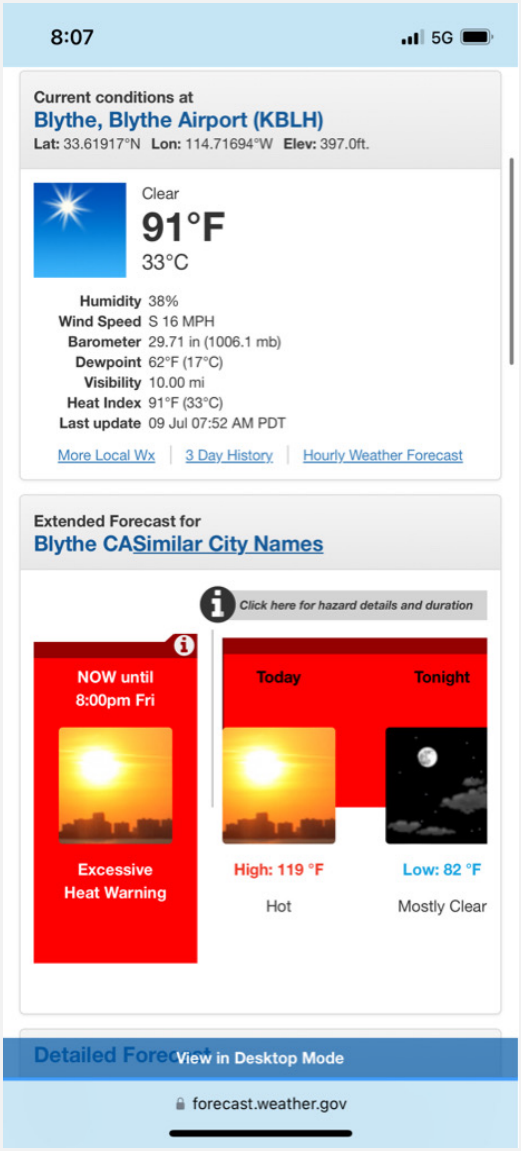
FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 1941	
Project Name	*Grace Solar*
Project #	*13946.06*
Date	*2024-07-09*

Meteorological Conditions

Upload NOAA Forecast



Temp (F)	*91*
Humidity % (R.H.)	*38*
Wind	*Gusty*
Wind Speed (MPH)	*16*
Wind Direction	*South*
Sky	*Clear*

Instrument and Calibrator Information	
Instrument Name List	*(SAC) NL-62*
Instrument Name	*(SAC) NL-62*
Instrument Name Lookup Key	*(SAC) NL-62*
Manufacturer	*Rion*
Model	*NL-62*
Serial Number	*350815*
Calibration Date	
Calibrator Name	*(SAC) Rion NC-74*
Calibrator Name	*(SAC) Rion NC-74*
Calibrator Name Lookup Key	*(SAC) Rion NC-74*
Calibrator Manufacturer	*Rion*
Calibrator Model	*NC-74*
Calibrator Serial #	*34167529*
Pre-Test (dBA SPL)	*93.9*
Post-Test (dBA SPL)	*94*

Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*
ANSI?	*Yes*

Monitoring	
Record #	*1*
Site ID	*ST1*
Site Location Lat/Long	*33.646339, -114.638709*
Begin (Time)	*10:05:00*
End (Time)	*10:20:00*
Leq	*44.3*
Lmax	*57.7*
Lmin	*36.5*
Other Lx?	*L90, L50, L10*
L90	*38.3*
L50	*41.0*
L10	*45.9*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Rustling Leaves, Wind*
Other Noise Sources (Background)	*Birds, Distant Aircraft*
Other Noise Sources Additional Description	*Nearby stream, insects. Car drive by.*
Is the same instrument and calibrator being used as previously noted?	*Yes*

Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Terrain	*Soft*

Site Photos

Photo



Comments / Description	*Facing W*

Site Photos	
Photo	
Comments / Description	*Facing N*

Site Photos

Photo	
Comments / Description	*Facing E*

Site Photos

Photo	
Comments / Description	*Facing N*

Description / Photos	
Terrain	*Soft*

Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*
ANSI?	*Yes*

Monitoring	
Record #	2
Site ID	*ST2*
Site Location Lat/Long	*33.610247, -114.675040*
Begin (Time)	*10:39:00*
End (Time)	*10:54:00*
Leq	*51.3*
Lmax	*54.1*
Lmin	*49.3*
Other Lx?	*L90, L50, L10*
L90	*49.7*
L50	*51.2*
L10	*52.7*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Distant Aircraft*
Other Noise Sources Additional Description	*Corona noise from overhead gen-tie*
Is the same instrument and calibrator being used as previously noted?	*Yes*

Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*2*
Lane Width (feet)	*8*
Roadway Width (feet)	*16*
Roadway Width (m)	*4.9*
Distance to Roadway (feet)	*30*
Distance to Roadway (m)	*9.2*
Distance Measured to Centerline or Edge of Pavement?	*Centerline*
Roadway Type	*Arterial*
Estimated Vehicle Speed (MPH)	*55*
Speeds Estimated by:	*Driving the Pace*
Posted Speed Limit Sign (MPH)	*55*

Traffic Counts	
Vehicle Count Summary	*A 16, MT 1, HT 0, B 0, MC 0*
Select Method for Recording Count Duration	*Enter Manually*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*15*
Direction	*EB*
Vehicle Count Tally	

Select Method for Vehicle Counts	*Use Counter (+/-)*
Number of Vehicles - Autos	*16*
Number of Vehicles - Medium Trucks	*1*
Number of Vehicles - Heavy Trucks	*0*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos	
Terrain	*Mixed*

Site Photos	
Photo	

Comments / Description	*Facing S*

Site Photos	
Photo	
Comments / Description	*Facing W*

Site Photos

Photo	
Comments / Description	*Facing N*

Site Photos

Photo	
Comments / Description	*Facing E*

Monitoring	
Record #	3
Site ID	*ST3*
Site Location Lat/Long	*33.609099, -114.657946*

Begin (Time)	*11:02:00*
End (Time)	*11:17:00*
Leq	*59.5*
Lmax	*61.8*
Lmin	*57.1*
Other Lx?	*L90, L50, L10*
L90	*58*
L50	*59.4*
L10	*60.9*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Distant Aircraft, Distant Traffic*
Other Noise Sources Additional Description	*Distant traffic from highway 10. Loud insect nearby*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*2*
Lane Width (feet)	*10*
Roadway Width (feet)	*20*
Roadway Width (m)	*6.1*
Distance to Roadway (feet)	*50*

Distance to Roadway (m)	*15.3*
Distance Measured to Centerline or Edge of Pavement?	*Centerline*
Roadway Type	*Arterial*
Estimated Vehicle Speed (MPH)	*35*
Speeds Estimated by:	*Driving the Pace*

Traffic Counts	
Vehicle Count Summary	*A 19, MT 0, HT 0, B 0, MC 0*
Select Method for Recording Count Duration	*Enter Manually*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*15*
Vehicle Count Tally	
Select Method for Vehicle Counts	*Use Counter (+/-)*
Number of Vehicles - Autos	*19*
Number of Vehicles - Medium Trucks	*0*
Number of Vehicles - Heavy Trucks	*0*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos	
Terrain	*Mixed*

Site Photos	
Photo	
Comments / Description	*Facing W*

Site Photos

Photo	
Comments / Description	*Facing S*

Site Photos

Photo	
Comments / Description	*Facing E*

Site Photos

Photo	
Comments / Description	*Facing N*

Description / Photos	
Terrain	*Mixed*

Site Photos

Photo	
Comments / Description	*LT1 facing S*

Site Photos

Photo	
Comments / Description	*LT1 facing E*

Site Photos

Photo	
Comments / Description	*LT1 facing W*

Site Photos

Photo	
Comments / Description	*LT1 facing N*

Site Photos

Photo	
Comments / Description	*LT2 facing E*

Site Photos

Photo	
Comments / Description	*LT2 facing N*

Site Photos

Photo	
Comments / Description	*LT2 facing W*

Site Photos

Photo	
Comments / Description	*LT2 facing S*

Site Photos

Photo	
Comments / Description	*LT4 facing E*

Site Photos

Photo	
Comments / Description	*LT4 facing N*

Site Photos

Photo	
Comments / Description	*LT4 facing W*

Site Photos

Photo	
Comments / Description	*LT4 facing S*

Site Photos

Photo	
Comments / Description	*LT3 facing S*

Site Photos

Photo	
Comments / Description	*LT3 facing W*

Site Photos

Photo	
Comments / Description	*LT3 facing E*

Site Photos

Photo	
Comments / Description	*LT3 facing N*

Appendix B

Construction Noise Modeling Input and Output

Source to barrier distance	5000
Receiver to barrier distance	170
Receiver height	5

noise level limit for construction phase at residential land use, per County guidance = 80

allowable hours over which Leq is to be averaged = 8

0 = temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	Reference Level @ 50 ft. from FHWA RCNM 2 Table	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Leq	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1 Site Preparation	Dozer	1	80.0		5170	0.1		29.7	8	480	30	5.3	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Grader (passby)	1	78.5		5170	0.1		28.2	8	480	28	6.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
	Concrete Mixer Truck	3	81.1		5170	0.1		30.8	5	300	34	5.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Front End Loader (Cyclical)	1	72.4	Rubber-Tired Loaders	5170	0.1		22.1	8	480	22	6.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
	Front End Loader (Cyclical)	5	72.4	Skid Steers	5170	0.1		22.1	8	480	29	6.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
				Total for 1 Site Preparation Phase:							**36.8**																
2 Civil Improvements - Grading / Roads / Earthwork	Dozer	8	80.0		5170	0.1		29.7	8	480	39	5.3	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Grader (passby)	2	78.5		5170	0.1		28.2	8	480	31	6.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
	Dump Truck (Passby)	2	73.1	Off-Highway Trucks	5170	0.1		22.8	8	480	26	5.1	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.1	5.1	0.7	0.7	0.1
	Front End Loader (Passby)	5	71.2	Skid Steers	5170	0.1		20.9	8	480	28	5.4	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Excavator	3	75.9		5170	0.1		25.6	8	480	30	6.2	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.6	5.6	0.7	0.7	0.1
	Scraper	3	92.4		5170	0.1		42.1	8	480	47	8.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	6.5	6.5	0.6	0.6	0.1
				Total for 2 Civil Improvements - Grading / Roads / Earthwork Phase:							**47.8**																
3 PV Panel and BESS Construction	Front End Loader (Passby)	10	71.2	Skid Steers	5170	0.1		20.9	8	480	31	5.4	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Flatbed Truck	30	74.2	Buggies	5170	0.1		23.9	8	480	39	5.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
From Vameer PD10 Specifications	Impact Pile Driver	15	84.0		5170	0.1		33.7	8	480	45	5.3	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Crane	1	74.2		5170	0.1		23.9	4	240	21	7.7	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	6.4	6.4	0.6	0.6	0.1
	Telescopic Handler (Forklift)	10	88.3	Rough Terrain Forklifts	5170	0.1		38.0	8	480	48	3.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	4.0	4.0	0.7	0.7	0.1
				Total for 3 PV Panel and BESS Construction Phase:							**50.3**																
4 Testing and Commissioning		1	#N/A		5170	#N/A		#N/A		0	#N/A	#N/A	5	0	5000	170	5170	#N/A	170.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
				Total for 4 Testing and Commissioning Phase:							**#N/A**																
5 Decommissioning and Reclamation	Crane	1	74.2		5170	0.1		23.9	4	240	21	7.7	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	6.4	6.4	0.6	0.6	0.1
	Front End Loader (Passby)	2	71.2	Crawler Tractors	5170	0.1		20.9	8	480	24	5.4	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Excavator	5	75.9		5170	0.1		25.6	8	480	33	6.2	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.6	5.6	0.7	0.7	0.1
	Flatbed Truck	20	74.2	Buggies	5170	0.1		23.9	8	480	37	5.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Telescopic Handler (Forklift)	8	88.3		5170	0.1		38.0	8	480	47	3.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	4.0	4.0	0.7	0.7	0.1
	Front End Loader (Passby)	2	71.2	Rubber-Tired Loaders	5170	0.1		20.9	8	480	24	5.4	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Front End Loader (Passby)	5	71.2	Skid Steers	5170	0.1		20.9	8	480	28	5.4	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Flatbed Truck	5	74.2	Off Highway Trucks	5170	0.1		23.9	8	480	31	5.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Grader (passby)	1	78.5		5170	0.1		28.2	8	480	28	6.0	5	0	5000	170	5170	5000.0	170.1	5170.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
				Total for 5 Decommissioning and Reclamation Phase:							**47.8**																

Source to barrier distance	5
Receiver to barrier distance	170
Receiver height	5

noise level limit for construction phase at residential land use, per County guidance = 80

allowable hours over which Leq is to be averaged = 8

0 = temporary barrier (TB) of input height inserted between source and receptor

Construction Activity	Equipment	Total Equipment Qty	Reference Level @ 50 ft. from FHWA RCNM 2 Table	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Leq	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1 Site Preparation	Dozer	1	80.0		175	0.1		65.4	8	480	65	5.3	5	0	5	170	175	7.3	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Grader (passby)	1	78.5		175	0.1		64.0	8	480	64	6.0	5	0	5	170	175	7.8	170.1	175.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
	Concrete Mixer Truck	1	81.1		175	0.1		66.5	5	300	64	5.0	5	0	5	170	175	7.1	170.1	175.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Front End Loader (Passby)	1	71.2	Rubber-Tired Loaders	175	0.1		56.6	8	480	57	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Front End Loader (Passby)	1	71.2	Skid Steers	175	0.1		56.6	8	480	57	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
				Total for 1 Site Preparation Phase:							**69.9**																
2 Civil Improvements - Grading / Roads / Earthwork	Dozer	1	80.0		175	0.1		65.4	8	480	65	5.3	5	0	5	170	175	7.3	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Grader (passby)	1	78.5		175	0.1		64.0	8	480	64	6.0	5	0	5	170	175	7.8	170.1	175.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
	Dump Truck (Passby)	1	73.1	Off-Highway Trucks	175	0.1		58.5	8	480	58	5.1	5	0	5	170	175	7.1	170.1	175.0	0.00	0.1	5.1	5.1	0.7	0.7	0.1
	Front End Loader (Passby)		71.2	Skid Steers	175	0.1		56.6	8	480	0	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Excavator	1	75.9		175	0.1		61.4	8	480	61	6.2	5	0	5	170	175	8.0	170.1	175.0	0.00	0.1	5.6	5.6	0.7	0.7	0.1
	Scraper	1	92.4		175	0.1		78.2	8	480	78	8.0	5	0	5	170	175	9.4	170.1	175.0	0.00	0.1	6.5	6.5	0.6	0.6	0.1
				Total for 2 Civil Improvements - Grading / Roads / Earthwork Phase:							**78.7**																
3 PV Panel and BESS Construction	Front End Loader (Passby)	1	71.2	Skid Steers	175	0.1		56.6	8	480	57	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Flatbed Truck	1	74.2	Buggies	175	0.1		59.5	8	480	60	5.0	5	0	5	170	175	7.1	170.1	175.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
From Vameer PD10 Specifications	Impact Pile Driver	1	84.0		175	0.1		69.4	8	480	69	5.3	5	0	5	170	175	7.3	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Crane	1	74.2		175	0.1		59.9	4	240	57	7.7	5	0	5	170	175	9.2	170.1	175.0	0.00	0.1	6.4	6.4	0.6	0.6	0.1
	Telescopic Handler (Forklift)	1	88.3	Rough Terrain Forklifts	175	0.1		73.4	8	480	73	3.0	5	0	5	170	175	5.8	170.1	175.0	0.00	0.1	4.0	4.0	0.7	0.7	0.1
				Total for 3 PV Panel and BESS Construction Phase:							**75.1**																
4 Testing and Commissioning			#N/A		175	#N/A		#N/A		0	0	#N/A	5	0	5	170	175	#N/A	170.1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
				Total for 4 Testing and Commissioning Phase:							**0.0**																
5 Decommissioning and Reclamation	Crane		74.2		175	0.1		59.9	4	240	0	7.7	5	0	5	170	175	9.2	170.1	175.0	0.00	0.1	6.4	6.4	0.6	0.6	0.1
	Front End Loader (Passby)		71.2	Crawler Tractors	175	0.1		56.6	8	480	0	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Excavator	1	75.9		175	0.1		61.4	8	480	61	6.2	5	0	5	170	175	8.0	170.1	175.0	0.00	0.1	5.6	5.6	0.7	0.7	0.1
	Flatbed Truck	1	74.2	Buggies	175	0.1		59.5	8	480	60	5.0	5	0	5	170	175	7.1	170.1	175.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Telescopic Handler (Forklift)	1	88.3		175	0.1		73.4	8	480	73	3.0	5	0	5	170	175	5.8	170.1	175.0	0.00	0.1	4.0	4.0	0.7	0.7	0.1
	Front End Loader (Passby)		71.2	Rubber-Tired Loaders	175	0.1		56.6	8	480	0	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Front End Loader (Passby)		71.2	Skid Steers	175	0.1		56.6	8	480	0	5.4	5	0	5	170	175	7.4	170.1	175.0	0.00	0.1	5.2	5.2	0.7	0.7	0.1
	Flatbed Truck	1	74.2	Off Highway Trucks	175	0.1		59.5	8	480	60	5.0	5	0	5	170	175	7.1	170.1	175.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
	Grader (passby)	1	78.5		175	0.1		64.0	8	480	64	6.0	5	0	5	170	175	7.8	170.1	175.0	0.00	0.1	5.5	5.5	0.7	0.7	0.1
				Total for 5 Decommissioning and Reclamation Phase:							**73.8**																

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Lesser of or available Lmax	Spec. 721 Lmax	Measured L_{max} @50ft (dBA, slow)
All Other Equipment > 5 HP	No	50	85	85	-- N/A --
Auger Drill Rig	No	20	84	85	84
Backhoe	No	40	78	80	78
Bar Bender	No	20	80	80	-- N/A --
Blasting	Yes	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	No	50	80	80	83
Chain Saw	No	20	84	85	84
Clam Shovel (dropping)	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Concrete Pump Truck	No	20	81	82	81
Concrete Saw	No	20	90	90	90
Crane	No	16	81	85	81
Dozer	No	40	82	85	82
Drill Rig Truck	No	20	79	84	79
Drum Mixer	No	50	80	80	80
Dump Truck	No	40	76	84	76
Excavator	No	40	81	85	81
Flat Bed Truck	No	40	74	84	74
Front End Loader	No	40	79	80	79
Generator	No	50	72	72	81
Generator (<25KVA, VMS signs)	No	50	70	70	73
Gradall	No	40	83	85	83
Grader	No	40	85	85	-- N/A --
Grapple (on backhoe)	No	40	85	85	87
Horizontal Boring Hydr. Jack	No	25	80	80	82
Hydra Break Ram	Yes	10	90	90	-- N/A --
Impact Pile Driver	Yes	20	95	95	101
Jackhammer	Yes	20	85	85	89
Man Lift	No	20	75	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	90
Pavement Scarafier	No	20	85	85	90
Paver	No	50	77	85	77
Pickup Truck	No	40	55	55	75
Pneumatic Tools	No	50	85	85	85
Pumps	No	50	77	77	81
Refrigerator Unit	No	100	73	82	73
Rivit Buster/chipping gun	Yes	20	79	85	79
Rock Drill	No	20	81	85	81
Roller	No	20	80	85	80
Sand Blasting (Single Nozzle)	No	20	85	85	96
Scraper	No	40	84	85	84
Shears (on backhoe)	No	40	85	85	96
Slurry Plant	No	100	78	78	78
Slurry Trenching Machine	No	50	80	82	80
Soil Mix Drill Rig	No	50	80	80	-- N/A --
Tractor	No	40	84	84	-- N/A --
Vacuum Excavator (Vac-truck)	No	40	85	85	85
Vacuum Street Sweeper	No	10	80	80	82
Ventilation Fan	No	100	79	85	79
Vibrating Hopper	No	50	85	85	87
Vibratory Concrete Mixer	No	20	80	80	80
Vibratory Pile Driver	No	20	95	95	101
Warning Horn	No	5	83	85	83
Welder / Torch	No	40	73	73	74

Appendix C

Project Sound Source Calculation Data

Point Sources

Name	Sel.	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuatic	Operating Time			K0	Freq.	Direct.	Height		Coordinates	
				Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (m²)		Day (min)	Special (min)	Night (min)	(dB)	(Hz)				X (m)	Y (m)
Substation Transformer		+	SubTrans	103.4	103.4	103.4	Lw	SUBSS230		0	0	0							0		(none)	3.05	r	1480.71	3225.19
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1049.17	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1056.55	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1063.94	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1071.33	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1078.71	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1086.1	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1093.49	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1100.87	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1108.26	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1115.64	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1123.03	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1130.42	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1137.8	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1145.19	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1152.58	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1159.96	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1167.35	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1174.74	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1182.12	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1189.51	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1196.9	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1204.28	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1211.67	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1219.05	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1226.44	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1233.83	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1241.21	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1248.6	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1255.99	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1263.37	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1270.76	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1278.15	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1285.53	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1292.92	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1300.3	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1307.69	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1315.08	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1322.46	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1329.85	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1337.24	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1344.62	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1352.01	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1359.4	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1366.78	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1374.17	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1381.56	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1388.94	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1396.33	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1403.71	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1411.1	3341.6
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1049	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1056.39	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1063.78	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1071.16	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1078.55	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1085.94	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1093.32	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1100.71	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1108.1	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1115.48	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1122.87	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1130.25	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1137.64	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1145.03	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1152.41	3351.72
CATL EnerC Overall		+	CATLEnerC	102	102	102	Lw	EnerC		0	0	0							0		(none)	3.51	r	1159.8	3351.72

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1167.19	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1174.57	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1181.96	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1189.35	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.73	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1204.12	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1211.5	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.89	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1226.28	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.66	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1241.05	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1248.44	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.82	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1263.21	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1270.6	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1277.98	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1285.37	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.76	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1300.14	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1307.53	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.91	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1322.3	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.69	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1337.07	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1344.46	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.85	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1359.23	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1366.62	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1374.01	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1381.39	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.78	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1396.16	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1403.55	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.94	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1049.05	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1049.15	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1049.1	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1056.44	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.83	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1071.21	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1078.6	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1085.99	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1093.37	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.76	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1108.14	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1115.53	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.92	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1130.3	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1137.69	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1145.08	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1152.46	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.85	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1167.24	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1174.62	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1182.01	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1189.4	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.78	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1204.17	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1211.55	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.94	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1226.33	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.71	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1241.1	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1248.49	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.87	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1263.26	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1270.65	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1278.03	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1285.42	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.8	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1300.19	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1307.58	3361.86

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.96	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1322.35	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.74	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1337.12	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1344.51	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.9	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1359.28	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1366.67	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1374.06	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1381.44	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.83	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1396.21	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1403.6	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.99	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1056.54	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.93	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1071.31	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1078.7	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1086.09	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1093.47	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.86	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1108.24	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1115.63	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1123.02	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1130.4	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1137.79	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1145.18	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1152.56	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.95	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1167.34	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1174.72	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1182.11	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1189.49	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.88	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1204.27	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1211.65	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1219.04	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1226.43	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.81	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1241.2	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1248.59	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.97	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1263.36	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1270.75	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1278.13	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1285.52	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.9	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1300.29	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1307.68	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1315.06	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1322.45	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.84	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1337.22	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1344.61	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1352	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1359.38	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1366.77	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1374.15	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1381.54	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.93	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1396.31	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1403.7	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1411.09	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1056.49	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.88	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1071.26	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1078.65	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1086.04	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1093.42	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.81	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1108.19	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1115.58	3381.01

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.97	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1130.35	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1137.74	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1145.13	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1152.51	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.9	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1167.29	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1174.67	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1182.06	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1189.45	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.83	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1204.22	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1211.6	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.99	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1226.38	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.76	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1241.15	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1248.54	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.92	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1263.31	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1270.7	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1278.08	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1285.47	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.85	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1300.24	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1307.63	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1315.01	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1322.4	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.79	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1337.17	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1344.56	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.95	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1359.33	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1366.72	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1374.11	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1381.49	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.88	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1396.26	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1403.65	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1411.04	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1418.42	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.81	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1433.2	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1440.58	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.97	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1455.36	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462.74	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1470.13	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1477.51	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.9	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1492.29	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1499.67	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1507.06	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1514.45	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.83	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1529.22	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1536.61	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.99	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1551.38	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.77	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1566.15	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1573.54	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.92	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1588.31	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1595.7	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1603.08	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1610.47	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.86	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1625.24	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1632.63	3381.01
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1418.47	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.86	3371.02

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1433.25	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1440.63	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1448.02	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1455.41	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462.79	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1470.18	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1477.56	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.95	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1492.34	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1499.72	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1507.11	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1514.5	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.88	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1529.27	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1536.66	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1544.04	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1551.43	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.81	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1566.2	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1573.59	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.97	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1588.36	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1595.75	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1603.13	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1610.52	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.91	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1625.29	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1632.68	3371.02
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1418.37	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.76	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1433.15	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1440.53	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.92	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1455.31	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462.69	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1470.08	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1477.46	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.85	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1492.24	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1499.62	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1507.01	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1514.4	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.78	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1529.17	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1536.56	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.94	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1551.33	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.72	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1566.1	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1573.49	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.87	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1588.26	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1595.65	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1603.03	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1610.42	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.81	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1625.19	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1632.58	3361.86
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1418.32	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.71	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1433.1	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1440.48	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.87	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1455.26	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462.64	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1470.03	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1477.42	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.8	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1492.19	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1499.57	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1506.96	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1514.35	3351.72

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.73	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1529.12	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1536.51	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.89	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1551.28	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.67	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1566.05	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1573.44	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.82	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1588.21	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1595.6	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1602.98	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1610.37	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.76	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1625.14	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1632.53	3351.72
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1418.49	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.87	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1433.26	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1440.65	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1448.03	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1455.42	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462.81	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1470.19	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1477.58	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.96	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1492.35	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1499.74	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1507.12	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1514.51	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.9	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1529.28	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1536.67	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1544.06	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1551.44	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.83	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1566.22	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1573.6	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.99	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1588.37	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1595.76	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1603.15	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1610.53	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.92	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1625.31	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1632.69	3341.6
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1048.36	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1055.74	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.13	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1070.52	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1077.9	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1085.29	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1092.68	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.06	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1107.45	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1114.84	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.22	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1129.61	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1136.99	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1144.38	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1151.77	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.15	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1166.54	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1173.93	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1181.31	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1188.7	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.09	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1203.47	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1210.86	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.24	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1225.63	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.02	3414.89

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1240.4	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1247.79	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.18	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1262.56	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1269.95	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1277.34	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1284.72	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.11	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1299.5	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1306.88	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.27	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1321.65	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.04	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1336.43	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1343.81	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.2	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1358.59	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1365.97	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1373.36	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1380.75	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.13	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1395.52	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1402.9	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.29	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1417.68	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.06	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1432.45	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1439.84	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.22	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1454.61	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1469.38	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1476.77	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.16	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1491.54	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1498.93	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1506.31	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1513.7	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.09	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1528.47	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1535.86	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.25	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1550.63	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.02	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1565.41	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1572.79	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.18	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1587.56	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1594.95	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1602.34	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1609.72	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.11	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1624.5	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1631.88	3414.89
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1048.26	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1048.36	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1048.41	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1048.31	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1055.64	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.03	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1070.42	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1077.8	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1085.19	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1092.58	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1099.96	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1107.35	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1114.74	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.12	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1129.51	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1136.89	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1144.28	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1151.67	3424.29

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.05	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1166.44	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1173.83	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1181.21	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1188.6	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1195.99	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1203.37	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1210.76	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.15	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1225.53	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1232.92	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1240.3	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1247.69	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.08	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1262.46	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1269.85	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1277.24	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1284.62	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.01	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1299.4	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1306.78	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.17	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1321.55	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1328.94	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1336.33	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1343.71	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.1	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1358.49	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1365.87	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1373.26	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1380.65	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.03	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1395.42	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1402.81	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.19	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1417.58	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1424.96	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1432.35	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1439.74	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.12	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1454.51	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1461.9	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1469.28	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1476.67	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.06	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1491.44	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1498.83	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1506.21	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1513.6	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1520.99	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1528.37	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1535.76	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.15	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1550.53	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1557.92	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1565.31	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1572.69	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.08	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1587.47	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1594.85	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1602.24	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1609.62	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.01	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1624.4	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1631.78	3424.29
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1055.74	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.13	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1070.52	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1077.9	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1085.29	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1092.68	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.06	3433.19

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1107.45	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1114.84	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.22	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1129.61	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1136.99	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1144.38	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1151.77	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.15	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1166.54	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1173.93	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1181.31	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1188.7	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.09	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1203.47	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1210.86	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.24	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1225.63	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.02	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1240.4	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1247.79	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.18	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1262.56	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1269.95	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1277.34	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1284.72	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.11	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1299.5	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1306.88	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.27	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1321.65	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.04	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1336.43	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1343.81	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.2	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1358.59	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1365.97	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1373.36	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1380.75	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.13	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1395.52	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1402.9	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.29	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1417.68	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.06	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1432.45	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1439.84	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.22	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1454.61	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1469.38	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1476.77	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.16	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1491.54	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1498.93	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1506.31	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1513.7	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.09	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1528.47	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1535.86	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.25	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1550.63	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.02	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1565.41	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1572.79	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.18	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1587.56	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1594.95	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1602.34	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1609.72	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.11	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1624.5	3433.19
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1631.88	3433.19

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1055.79	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.18	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1070.57	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1077.95	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1085.34	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1092.73	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.11	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1107.5	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1114.88	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.27	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1129.66	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1137.04	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1144.43	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1151.82	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.2	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1166.59	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1173.98	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1181.36	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1188.75	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.14	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1203.52	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1210.91	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.29	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1225.68	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1233.07	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1240.45	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1247.84	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.23	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1262.61	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1270	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1277.39	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1284.77	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.16	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1299.54	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1306.93	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.32	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1321.7	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1329.09	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1336.48	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1343.86	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.25	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1358.64	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1366.02	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1373.41	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1380.8	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.18	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1395.57	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1402.95	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.34	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1417.73	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.11	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1432.5	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1439.89	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.27	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1454.66	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1462.05	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1469.43	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1476.82	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.2	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1491.59	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1498.98	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1506.36	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1513.75	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.14	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1528.52	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1535.91	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.3	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1550.68	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1558.07	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1565.46	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1572.84	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.23	3443.14

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1587.61	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1595	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1602.39	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1609.77	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.16	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1624.55	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1631.93	3443.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1055.69	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1063.08	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1070.47	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1077.85	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1085.24	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1092.63	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1100.01	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1107.4	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1114.79	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1122.17	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1129.56	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1136.94	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1144.33	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1151.72	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1159.1	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1166.49	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1173.88	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1181.26	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1188.65	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1196.04	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1203.42	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1210.81	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1218.19	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1225.58	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1232.97	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1240.35	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1247.74	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1255.13	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1262.51	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1269.9	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1277.29	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1284.67	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1292.06	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1299.45	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1306.83	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1314.22	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1321.6	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1328.99	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1336.38	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1343.76	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1351.15	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1358.54	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1365.92	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1373.31	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1380.7	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1388.08	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1395.47	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1402.85	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1410.24	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1417.63	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1425.01	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1432.4	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1439.79	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1447.17	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1454.56	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1461.95	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1469.33	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1476.72	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1484.11	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1491.49	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1498.88	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1506.26	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1513.65	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1521.04	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1528.42	3453.14

CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1535.81	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1543.2	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1550.58	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1557.97	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1565.36	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1572.74	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1580.13	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1587.51	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1594.9	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1602.29	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1609.67	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1617.06	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1624.45	3453.14
CATL EnerC Overall	+	CATLEnerC	102	102	102	Lw	EnerC	0	0	0	0	(none)	3.51	r	1631.83	3453.14

Vertical Area Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.	
				Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft²)		(min)	(min)	(min)	(dB)	(Hz)		Night
inverter left			INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA							12				3		(none)	
inverter right			INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA		0	0	0			20.5				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter front			INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA		0	0	0			13				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter left			INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA		0	0	0			12				3		(none)	
inverter left			INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA		0	0	0			12				3		(none)	
inverter left			INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA		0	0	0			12				3		(none)	
inverter right			INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA		0	0	0			20.5				3		(none)	
inverter right			INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA		0	0	0			20.5				3		(none)	
inverter right			INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA		0	0	0			20.5				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	
inverter back			INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA		0	0	0			15				3		(none)	

inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)

inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)

inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)

inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter back	INVB	90	90	90	81.2	81.2	81.2	Lw	PCSMFA	0	0	0	15	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)

inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter front	INVF	92	92	92	83.2	83.2	83.2	Lw	PCSMFA	0	0	0	13	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)

inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)

inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)

inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter right	INVR	78.2	78.2	78.2	74.8	74.8	74.8	Lw	PCSMRA	0	0	0	20.5	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)

inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)

inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)
inverter left	INVL	89.6	89.6	89.6	86.1	86.1	86.1	Lw	PCSMLA	0	0	0	12	3	(none)

Buildings

Name	Sel.	Quantity	ID	RB	Residents	Absorptior	Height Begin (m)
CATL EnerC		800	CATL		0	0.05	2.9
PCSM 21.7L 7W 7H manny		200	INVM		0	0.05	2.44

Sound Levels (local)

Name	ID	Type	1/3 Oktave Spectrum (dB)						
			Weight.	25	31.5	40	50	63	80
Substation Spectrum 230 MVA	**SUBSS230**	**Lw**			**100**			**106**	
PCSM GEN3 Invertert 100% no attenuation	**PCSMGEN**	**Lw**	**A**	**55**	**55**	**55**	**56.8**	**62.8**	**65.2**
CATL EnerC Overall SWL	**EnerC**	**Lw**			**92.9**			**95**	

100	125	160	200	250	315	400	500	630	800	1000	1250	1600
	108			**103**			**103**			**97**		
70	**76.3**	**75.5**	**78.5**	**86.5**	**90**	**85.4**	**85.7**	**84.5**	**85.5**	**89.3**	**86.1**	**85.9**
	94.3			**95.2**			**99**			**98.7**		

2000	2500	3150	4000	5000	6300	8000	10000	A	lin	Source	
92			**87**			**80**		**103.4**	**112**	**EEI EEPENG**	
84.5	**84.7**	**83.3**	**82.1**	**81.4**	**79.9**	**77.8**	**75.8**	**97.7**	**105.1**	**Manufacturer Data**	
93.7			**88.7**			**80.9**		**102**	**104.7**	**EnerC Noise Test Report March 2**	

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