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PLANS AND DOCUMENTS

APPROVAL dated 11 / 4 / 11

ACOUSTIC ASSESSMENT - 10 THEODORE STREET, EAGLE FARM

November 2010

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Project Reference: 2561

Document Title: Acoustic Assessment - 10 Theodore Street, Eagle Farm

Client: Voxson Pty Ltd

Document Reference: /Network/Projects/2561/Reporting/2561Report01.odt

Version:	Description:	Date:	Author:	Checked by:	Approved by:	Signature:
00	Draft for internal review	26/11/10	EMcD	SW	-	-
01	Final for client issue	30/11/10	EMcD	CMR	CMR	
02						
03						
04						
05						
06						

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1 INTRODUCTION

1.1 SCOPE OF STUDY

Air Noise Environment Pty Ltd was commissioned by Voxson Pty Ltd to complete an acoustic assessment of the proposed commercial development at 10 Theodore Street, Eagle Farm. The noise assessment is to assess potential noise impacts from traffic and surrounding industry. Potential noise emissions associated with the operation of any commercial tenancies and any fixed plant noise associated with the office and showroom premises are also considered.

1.2 THE PROPOSED DEVELOPMENT

The proposed development is situated at 10 Theodore Street, Eagle Farm. The development is to consist of a four storey building housing two levels of basement parking, ground level showrooms and mezzanine and three levels of office above. Figure 1 presents the proposed location of the development site and monitoring site. The proposed plans of the development are presented in Appendix B.



Figure 1: Site Location and Monitoring Position

1.3 TASKS UNDERTAKEN

The following tasks have been undertaken:

- continuous unattended noise monitoring at the site for a one week period and short attended noise measurements for day, evening and night periods;



- consideration of acoustic controls, making recommendations for noise amelioration where appropriate; and
- consideration of potential noise emissions from commercial tenancies and fixed plant noise.

1.4 THIS REPORT

This report summarises the methodology, results and conclusions of the assessment. An acoustic glossary is presented in Appendix A to assist the reader.



2 ASSESSMENT CRITERIA

The Brisbane City Council Noise Impact Assessment Planning Scheme Policy (NIAPSP) does not specifically identify noise criteria for commercial premises. However, the AS 2107 methodology presented in NIAPSP does allow for reference to be made to recommended internal noise levels for a range of building types including commercial buildings.

The revised Environmental Protection (Noise) Policy 2008, subordinate legislation under the Queensland Environmental Protection Act 1995, provides overall acoustic quality objectives for different noise environments. The relevant acoustic quality objectives for the proposed development are presented in Table 2.1. This acoustic quality objective is consistent with those identified in Australian Standard AS 2107 for general office areas, hence is considered to be consistent with the NIPASP policy and has been adopted for the purposes of this assessment.

TABLE 2.1: ACOUSTIC QUALITY OBJECTIVES FOR HEALTH AND WELL BEING

Sensitive Receptor	Time of Day	L_{Aeq,adj,1hr}	L_{A10,adj,1hr}	L_{A1,adj,1hr}
Commercial and retail activity (for indoors)	When the activity is open for business	45	-	-



3 NOISE ASSESSMENT

3.1 OVERVIEW

The following sections present an assessment of noise impacts associated with noise immission and emissions. Existing and predicted noise levels have been assessed against the acoustic quality objectives outlined in the Environmental Protection (Noise) Policy 2008.

3.2 EXISTING NOISE CLIMATE

3.2.1 Noise Monitoring Methodology

Unattended background noise monitoring was undertaken at the site at the location presented in Figure 1 utilising an NGARA environmental noise logger. Attended noise monitoring was completed at the same location using a SvanTek 943 Sound Analyser. The calibration information for the instruments used is presented in Table 3.1.

TABLE 3.1: BASELINE NOISE MONITORING INSTRUMENTATION

Monitoring	Instrument	Serial Number	Date of Monitoring	NATA Calibration Current Until	Field Calibration Pre-Check Level	Field Calibration Post-Check Level
Unattended	NGARA Environmental Noise Logger	878065	11/11/10 - 19/11/10	23/04/12	94.1 dB(A)	94.3 dB(A)
Unattended	SvanTek SV 03A Calibrator	358	-	10/12/10	-	-
Attended	SvanTek 943 Sound Analyser	5163	11/11/10 17/11/10	10/12/10	94.1 dB(A) 94.0 dB(A)	94.2 dB(A) 94.4 dB(A)
Attended	Pulsar 106 Calibrator	48332	-	26/10/11	-	-

3.2.2 Unattended Noise Monitoring

Unattended background noise measurements were made over eight days from 11 November 2010 to 19 November 2010 and an averaging time of 15 minutes was adopted. Half-hourly data from the Bureau of Meteorology for the Brisbane Airport indicated that there were some periods of wind and rain during the period of monitoring. Noise data collected for the hours when it rained or wind speeds exceeded 5 m.s⁻¹ were excluded from the assessment to prevent weather-related bias. A total of 45 hours of monitoring data was excluded from the datasets as a result of wind or rain. The Bureau of Meteorology weather data for the monitoring period is presented in Appendix C.

Appendix D presents the full results of the background noise monitoring and Table 3.2 presents a summary of the average levels recorded for each period.



TABLE 3.2: AVERAGE MEASURED BACKGROUND NOISE LEVELS (dB(A))

Date	Period	L _{Aeq}	L _{Amax}	L _{A10}	L _{A90}	Max L _{Aeq,1hr}	Min L _{A90,1hr}
11/11/10	Evening	57.9	71.7	60.2	52.3	52.9	51.8
	Night	55.8	68.9	58.1	49.8	58.6	47.4
12/11/10	Day	59.1	71.0	61.6	54.3	59.6	53.6
	Evening	56.4	69.3	58.6	51.8	53.3	50.9
	Night	55.0	68.1	57.3	49.6	57.3	47.8
13/11/10	Day	57.1	70.4	59.6	51.2	58.6	48.8
	Evening	53.1	66.1	55.4	47.8	49.5	45.5
	Night	51.0	66.2	53.2	44.2	52.9	40.5
14/11/10	Day	54.3	69.0	56.5	49.2	55.1	47.9
	Evening	55.3	67.8	57.5	51.3	52.1	50.8
	Night	57.4	69.8	59.6	51.2	59.7	50.3
15/11/10	Day	57.8	70.5	60.4	52.6	59.7	51.3
	Evening	56.8	70.9	59.2	51.9	53.3	50.4
	Night	55.3	69.1	58.1	48.6	58.2	46.0
16/11/10	Day	59.0	73.2	61.1	53.4	59.8	52.9
	Evening	58.3	72.1	60.5	52.9	53.5	52.5
	Night	58.5	71.3	59.8	50.8	62.2	47.5
17/11/10	Day	58.9	73.0	61.4	53.2	59.6	52.1
	Evening	56.8	69.0	58.9	52.6	53.2	52.1
	Night	57.5	70.1	59.4	51.7	61.3	49.9
18/11/10	Day	58.5	72.8	61.0	52.6	59.7	51.6
	Night	58.2	69.8	60.9	52.7	59.5	50.4
Average							
	Day	58.1	71.4	60.2	52.4	59.1	51.2
	Evening	56.7	69.6	58.6	51.5	52.7	50.6
	Night	56.6	69.1	58.3	49.8	59.4	47.5

It was noted that night road works were being conducted on the Kingsford-Smith Drive and Theodore Street intersection during the period of the monitoring. As advised by Brisbane City Council, these works were conducted between 8 pm and 5 am. Therefore, only the noise levels for the evening and night periods will be affected by noise emissions from the road works. As the specified noise criteria for the proposed development is for office hours only, this additional noise sources should not affect the results of the assessment.

3.2.3 Attended Monitoring Results

Attended noise monitoring was completed at the monitoring position identified in Figure 1 during



afternoon, evening, and night periods to identify the sources contributing to the existing noise in the area. Table 3.3 presents the results of the monitoring and the noise sources identified during the monitoring exercises.

TABLE 3.3: ATTENDED NOISE MONITORING RESULTS dB(A)

Date	Time	L _{Aeq}	L _{A1}	L _{A10}	L _{A90}	L _{Amax}	Description
<i>Day Period (7 am to 6 pm)</i>							
11/11/10	4:18 pm	58.1	63.7	60.0	55.1	71.7	Traffic from Kingsford Smith Dr is dominant noise source with many heavy vehicles. Occasional trucks within BP site, some idling for several minutes. Also compressor noise and general plant noise. Fixed plants from southern adjacent building audible. Wind in trees, birds and planes also identified.
11/11/10	4:33 pm	58.3	65.2	60.7	54.3	72.7	Traffic from Kingsford Smith Dr is dominant noise source with many heavy vehicles. Trucks, compressors and general plant noise within BP site. Trucks turning down Theodore St. Fixed plants from southern adjacent building audible. Several planes overhead were audible. Wind in trees, birds and planes also identified.
<i>Evening Period (6 pm to 10 pm)</i>							
17/11/10	9:44 pm	56.9	64.0	59.6	53.0	69.6	Night works being conducted Kingsford Smith Dr and Theodore St intersection, with constant noise from generator. Trucks on Kingsford Smith Dr frequent. Reversing beeping and noise from crane movement at road works. Some movement at BP but not very loud. Birds, planes also audible.
<i>Night Period (10 pm to 7 am)</i>							
17/11/10	10:03 pm	58.2	67.7	61.0	53.2	70.1	Night works being conducted Kingsford Smith Dr and Theodore St intersection with constant noise from generator. Trucks on Kingsford Smith Dr frequent. Some movement at BP but not very loud. Street sweeper along Theodore St in last minute of measurement, loud and produced max reading. Birds, planes also audible.

3.3 ASSESSMENT OF POTENTIAL NOISE IMPACTS

3.3.1 Noise Immissions

In order to assess the potential for noise impacts on proposed office space at the development, existing background noise levels have been compared with the acoustic quality objectives outlined



in the Environmental Protection (Noise) Policy 2008. Table 3.4 presents a comparison of noise levels.

TABLE 3.4: COMPARISON OF EXISTING NOISE LEVELS TO ACOUSTIC OBJECTIVES FOR OFFICE SPACES

Period / Noise Parameter ¹	Monitoring Position Noise Levels dB(A)	EPP Objective (dB(A))
Day L _{Aeq,1-hour}	59.1	45 internal

¹ Median of the maximum 1-hour values for each monitoring period

Based on these estimated noise reductions, construction materials should have a minimum Sound Transmission Coefficient (STC) of 22. STC is a commonly referenced descriptor of the effectiveness of a material to reduce the noise energy transmitted through that material. Where traffic noise is the dominant source (as is the case for the proposed development), the noise reduction must be adjusted by a plus 6 dB correction to give the STC. Table 3.5 presents potential construction materials for achieving the estimated STC.

TABLE 3.5: TYPICAL STC RANGES FOR CONSTRUCTION TYPES

Component	STC Range	Examples of Construction
External Walls	45	150 mm concrete.
Sliding Door	31	6.38 mm laminated, single glazing.
	25	4 mm floating or toughened glass, single glazing.
Windows	30	6 mm floating or toughened glass, single glazing, awning style.
	25	4 mm floating or toughened glass, single glazing, sliding window.

Before any construction material is chosen for the affected receptors, STC information should be sought from the suppliers to ensure that the minimum STCs are achievable. In order to achieve design STC ratings it is essential that the acoustically treated areas be constructed in a manner conducive to maximising sound attenuation. For example there must be no air gaps around windows or at the eaves, which could act as noise pathways.

3.3.2 Noise Emissions

Potential noise sources associated with the proposed development include:

- fixed plant for showrooms and office spaces;
- car movement; and
- service vehicles (ie. rubbish trucks, delivery vehicles).

The proposed development is not expected to introduce new noise source types to the surrounding area, given the presence of surrounding road traffic and commercial developments.



The nearest residential receptors is located approximately 250 m to the north-east from the proposed development site on the northern side of Kingsford Smith Drive. Given this distance, and the fact that the residences are on the opposite side of Kingsford Smith Drive, the noise impacts from the proposed development will be negligible. Therefore, mitigation options have not been recommended to reduce noise impacts caused by the proposed development.



4 CONCLUSIONS

An assessment of potential noise immission and emission impacts has been undertaken for the proposed commercial development at 10 Theodore Street, Eagle Farm.

Noise immission sources with a potential to impact the proposed development include surrounding commercial activity and road traffic noise. In order to assess potential noise immission impacts, an analysis of the background noise monitoring data has been completed. Based on the background noise monitoring and the acoustic quality objectives outlined in the Environmental Protection (Noise) Policy 2008, a minimum STC of 22 has been recommended for the construction elements of the proposed development.

Potential noise emission sources associated with the proposed development include fixed plant, car movement and service vehicles. The proposed development is not expected to introduce new noise source types to the surrounding area, given the presence of surrounding road traffic and commercial developments. Also, due to the distance from the nearest residential housing, the proposed development is predicted to have minimal noise impact on these residential dwellings.



APPENDIX A

GLOSSARY



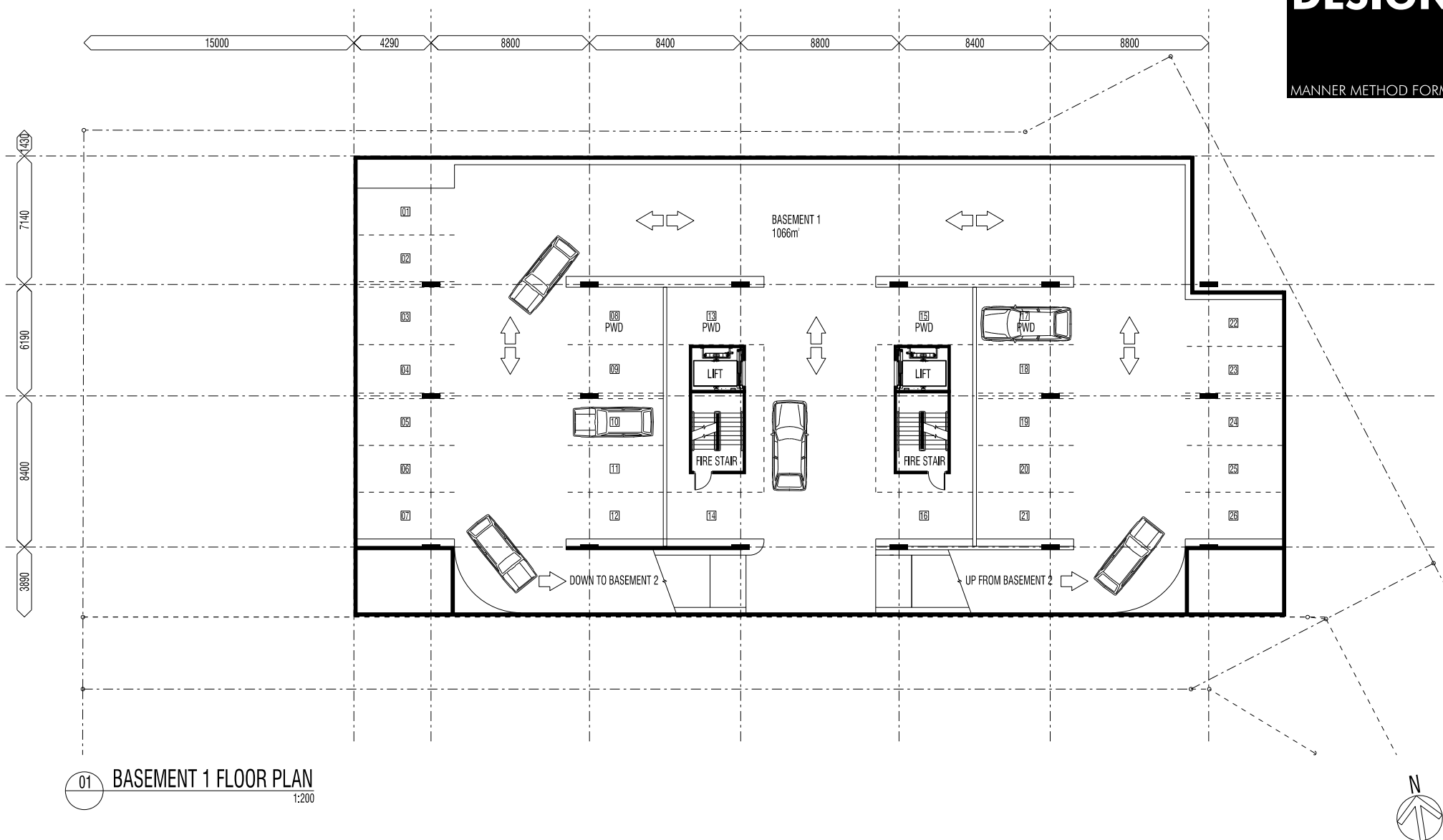
APPENDIX A1: GLOSSARY OF ACOUSTIC TERMINOLOGY

A-Weighting	A response provided by an electronic circuit which modifies sound in such a way that the resulting level is similar to that perceived by the human ear.
dB (decibel)	This is the scale on which sound pressure level is expressed. It is defined as 20 times the logarithm of the ratio between the root-mean-square pressure of the sound field and the reference pressure (0.00002N/m ²).
dB(A)	This is a measure of the overall noise level of sound across the audible spectrum with a frequency weighting (i.e. 'A' weighting) to compensate for the varying sensitivity of the human ear to sound at different frequencies.
Facade Noise Level	Refers to a sound pressure level determined at a point close to an acoustically reflective surface (in addition to the ground). Typically a distance of 1 metre is used.
Free Field	Refers to a sound pressure level determined at a point away from reflective surfaces other than the ground with no significant contribution due to sound from other reflective surfaces; generally as measured outside and away from buildings.
Hertz (Hz)	A measure of the frequency of sound. It measures the number of pressure peaks per second passing a point when a pure tone is present.
L_{Aeq} Equivalent Continuous Sound Level	This is the equivalent steady sound level in dB(A) containing the same acoustic energy as the actual fluctuating sound level over the given period. For a steady sound with small fluctuations, its value is close to the average sound pressure level.
$L_{A90,T}$	This is the dB(A) level exceeded 90% of the time, T.
$L_{A10,T}$	This is the dB(A) level exceeded 10% of the time, T.
$L_{A50,T}$	This is the dB(A) level exceeded 50% of the time, T.
L_{WA}	The A-weighted sound power level in dB.
STC (Sound Transmission Coefficient)	A rating of how well a construction material or building partition attenuates airborne sound.



APPENDIX B

PROPOSED PLANS



01 BASEMENT 1 FLOOR PLAN
1:200

■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
BASEMENT 1 FLOOR PLAN

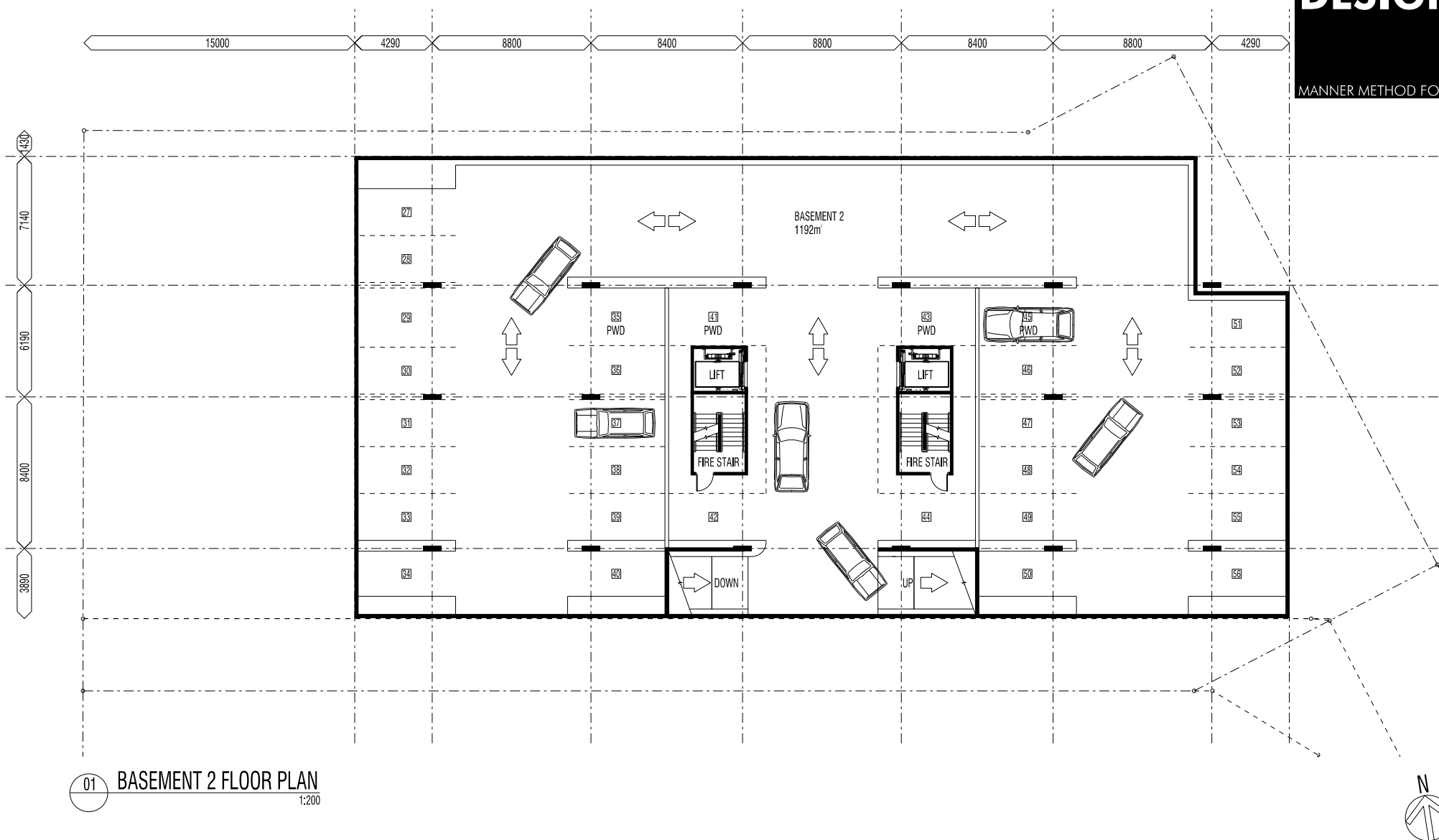
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DATE: JUNE 2010
SCALE: 1:200 @ A3
DRAWING No: DD100_A



■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
BASEMENT 2 FLOOR PLAN

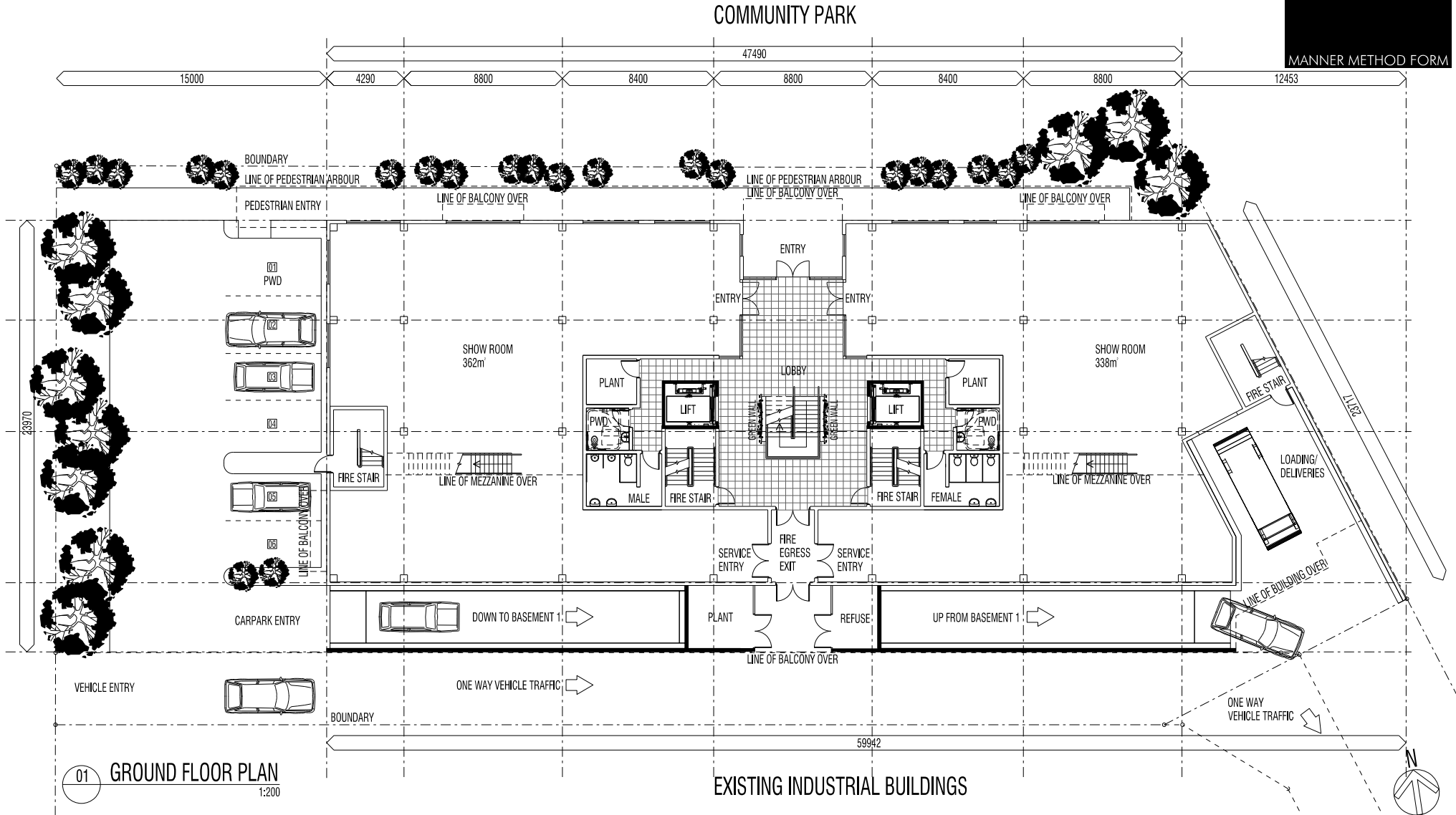
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DRAWING No: DD101_A



■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
GROUND FLOOR PLAN

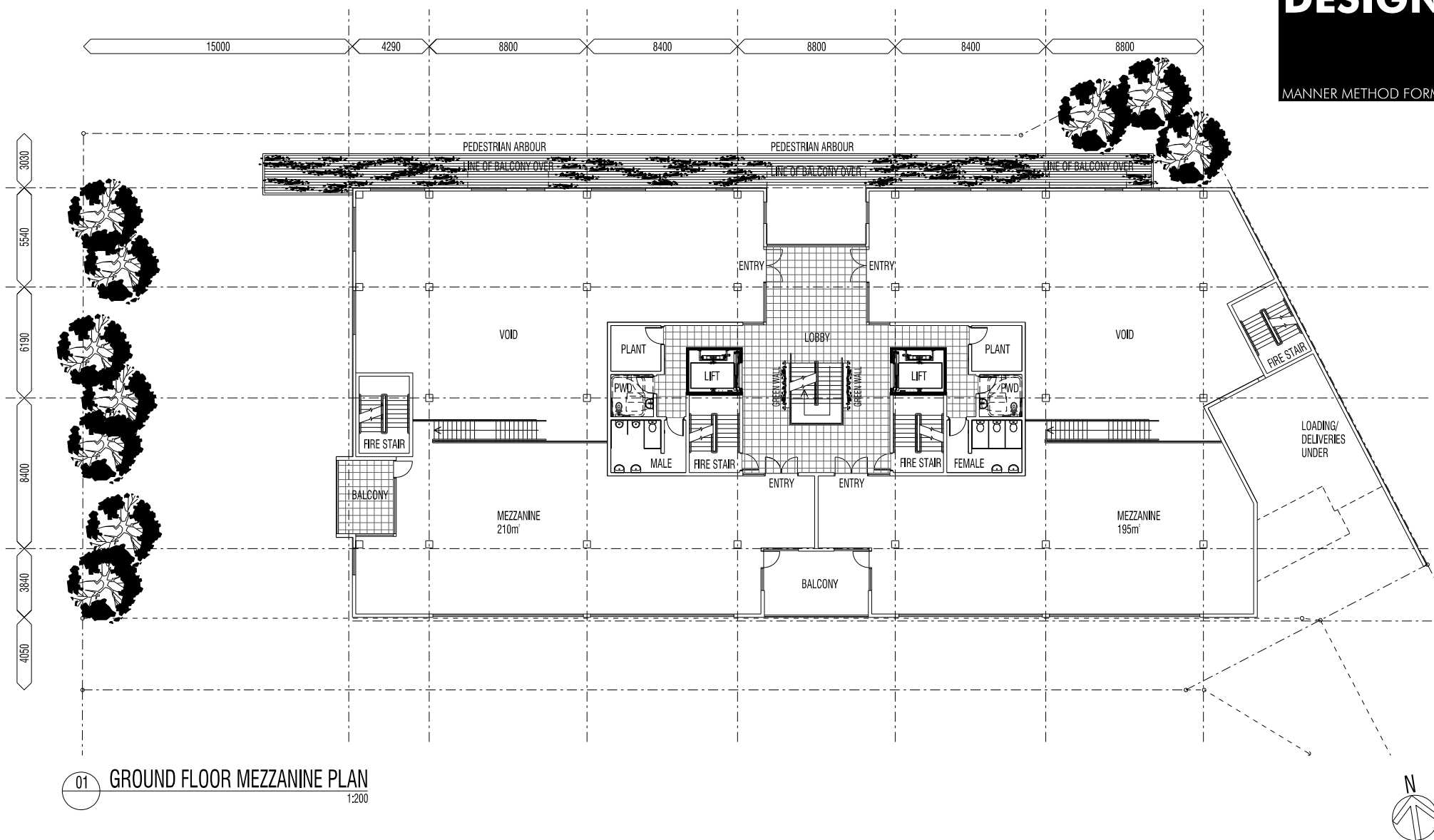
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■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
GROUND FLOOR MEZZANINE PLAN

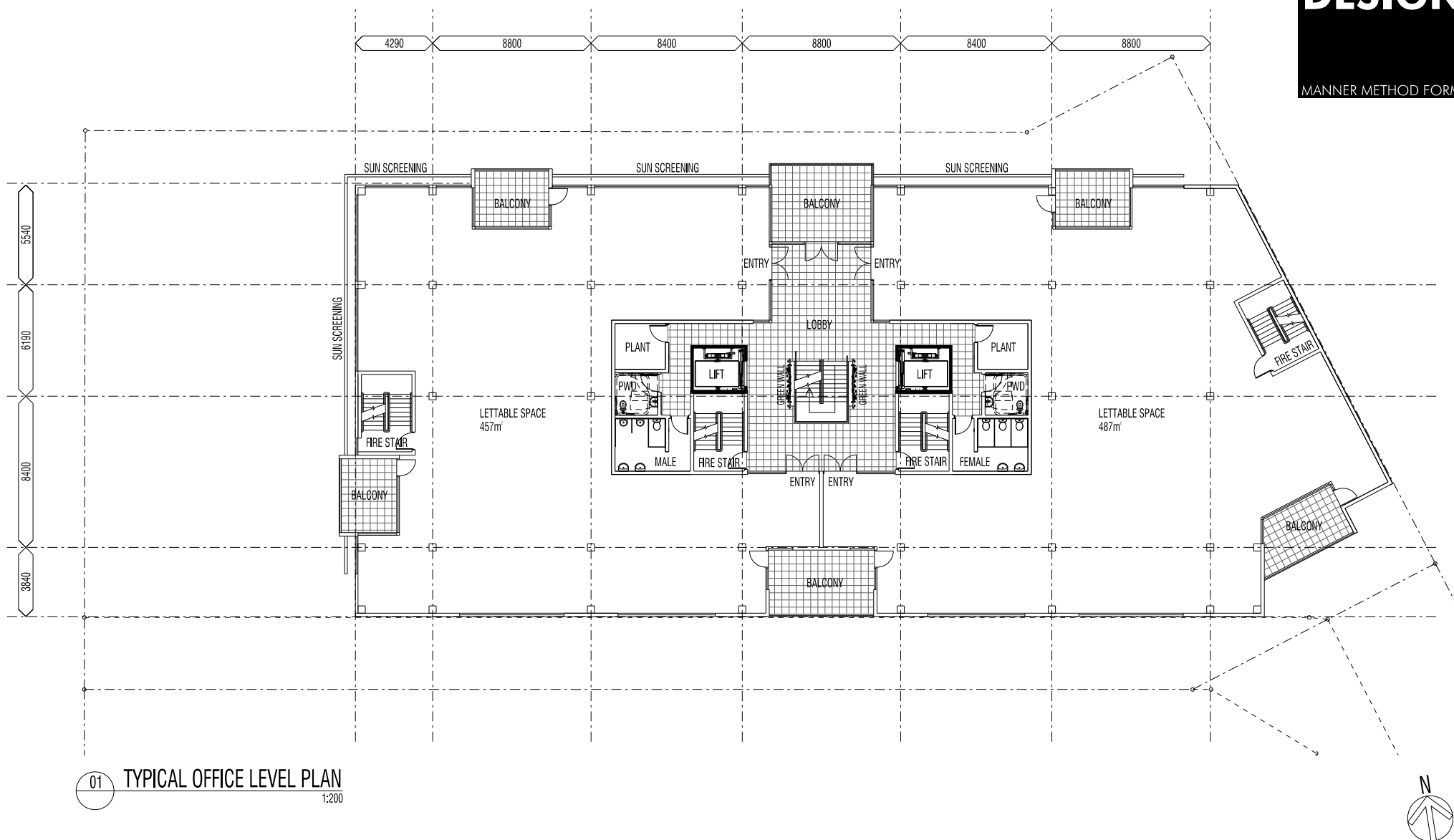
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■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
TYPICAL OFFICE LEVEL PLAN

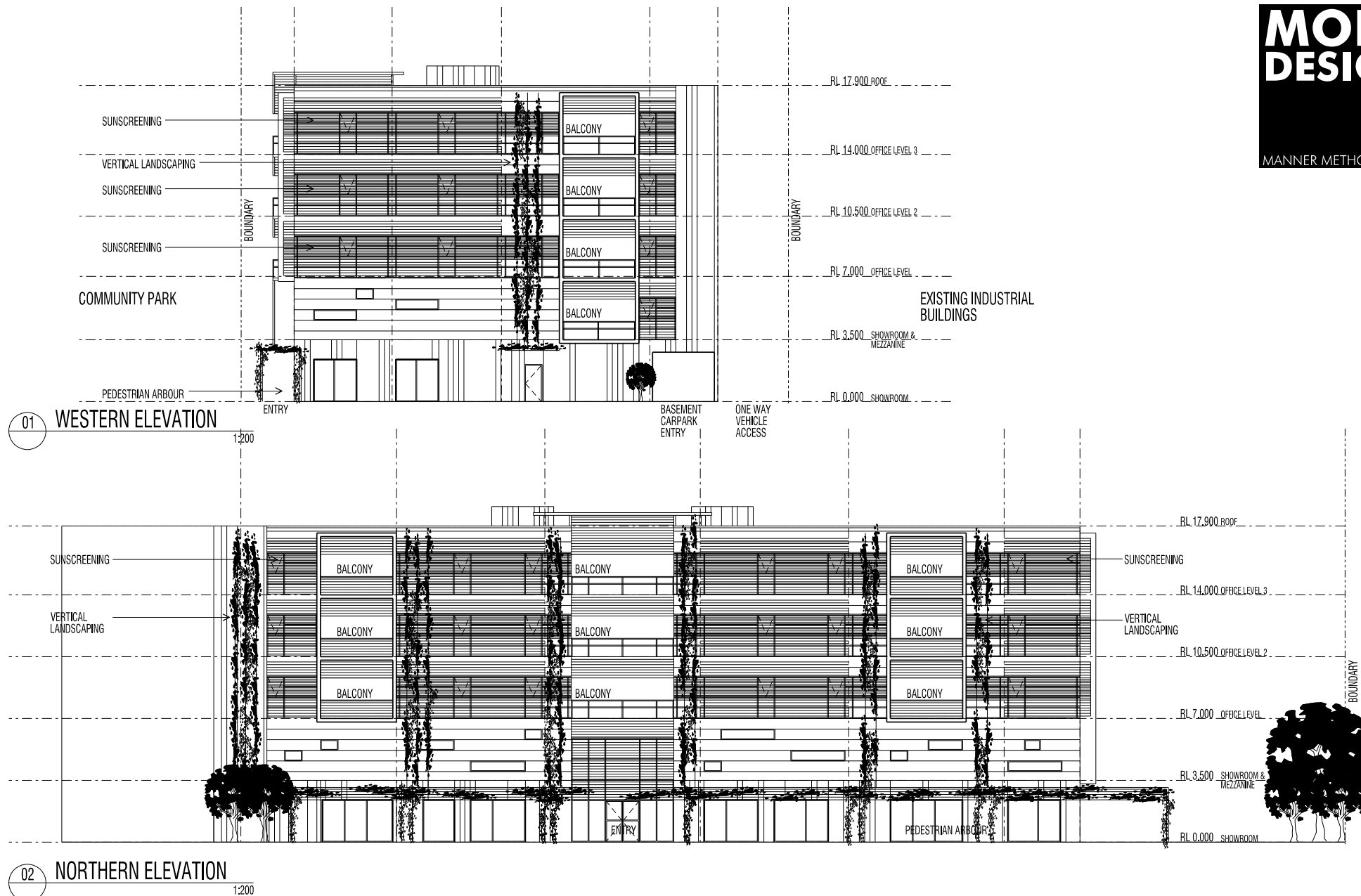
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■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
ELEVATIONS- 5 STORIES

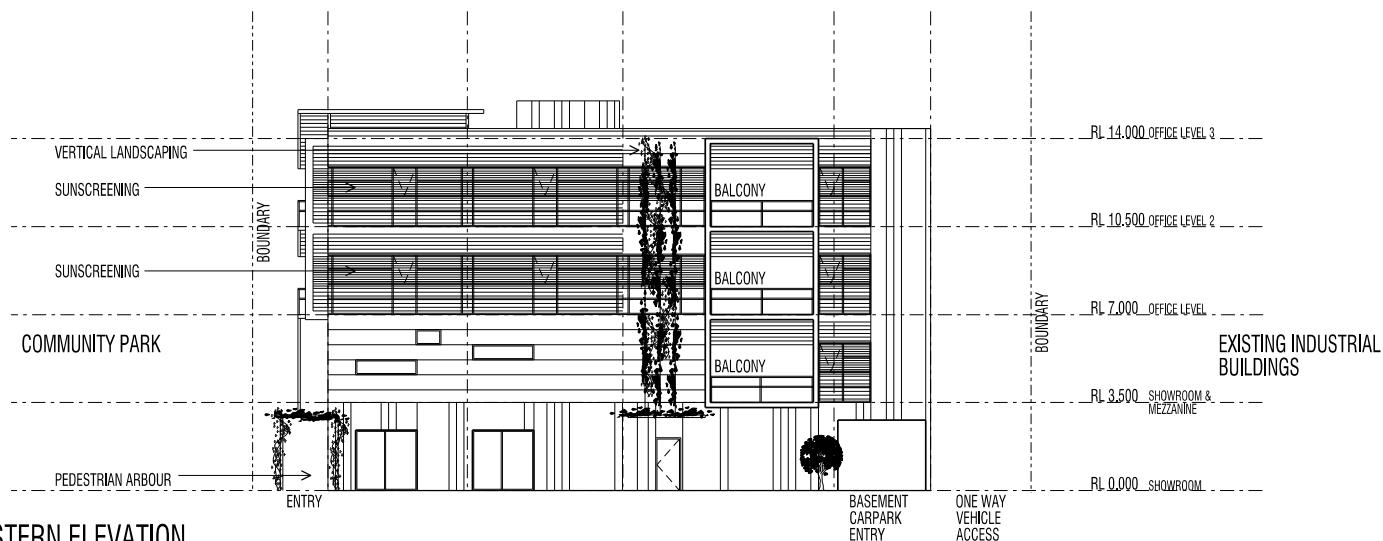
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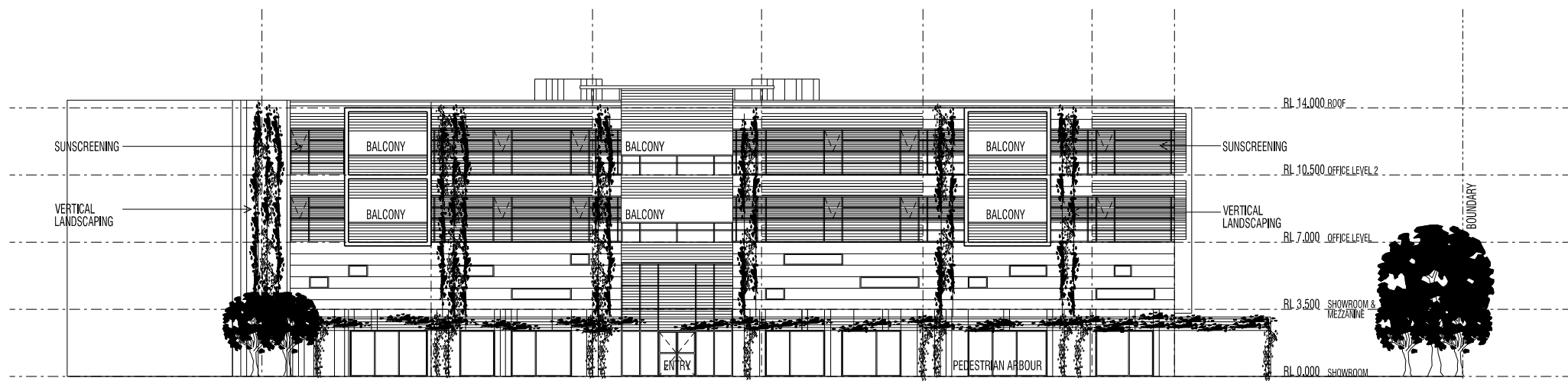
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01 WESTERN ELEVATION

1:200



02 NORTHERN ELEVATION

1:200

■ PROPOSED SHOWROOM AND OFFICES: THEODORE STREET-NEW FARM
ELEVATIONS- 4 STORIES

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DATE: JUNE 2010
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DRAWING No: DD210_A



APPENDIX C

METEOROLOGICAL DATA



APPENDIX C: METEOROLOGICAL DATA

Station Number: 40842

Station Name: Brisbane Aero

Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
11/11/2010 00:00	0	5	80	8
11/11/2010 00:30	0	5	90	8
11/11/2010 01:00	0	4	80	5
11/11/2010 01:30	0	0	0	0
11/11/2010 02:00	0	0	0	0
11/11/2010 02:30	0	8	220	9
11/11/2010 03:00	0	9	200	13
11/11/2010 03:30	0	11	220	13
11/11/2010 04:00	0	11	210	13
11/11/2010 04:30	0	11	220	13
11/11/2010 05:00	0	13	220	15
11/11/2010 05:30	0	11	220	13
11/11/2010 06:00	0	13	220	15
11/11/2010 06:30	0	13	220	17
11/11/2010 07:00	0	9	220	13
11/11/2010 07:30	0	4	180	9
11/11/2010 08:00	0	5	60	11
11/11/2010 08:30	0	9	60	15
11/11/2010 09:00	0	13	60	21
11/11/2010 09:30	0	11	80	17
11/11/2010 10:00	0	13	40	17
11/11/2010 10:30	0	13	50	26
11/11/2010 11:00	0	13	30	17
11/11/2010 11:30	0	13	70	18
11/11/2010 12:00	0	17	50	22
11/11/2010 12:30	0	18	60	26
11/11/2010 13:00	0	18	50	30
11/11/2010 13:30	0	24	30	31
11/11/2010 14:00	0	26	30	33
11/11/2010 14:30	0	28	20	33



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
11/11/2010 15:00	0	28	20	31
11/11/2010 15:30	0	24	20	31
11/11/2010 16:00	0	28	20	35
11/11/2010 16:30	0	30	10	35
11/11/2010 17:00	0	28	10	35
11/11/2010 17:30	0	28	10	33
11/11/2010 18:00	0	24	20	31
11/11/2010 18:30	0	26	40	35
11/11/2010 19:00	0	26	30	35
11/11/2010 19:30	0	24	20	30
11/11/2010 20:00	0	21	10	28
11/11/2010 20:30	0	15	360	26
11/11/2010 21:00	0	15	10	21
11/11/2010 21:30	0	15	10	18
11/11/2010 22:00	0	17	10	18
11/11/2010 22:30	0	17	10	18
11/11/2010 23:00	0	15	360	18
11/11/2010 23:30	0	11	300	13
12/11/2010 00:00	0	8	310	15
12/11/2010 00:30	0	9	320	13
12/11/2010 01:00	0	9	300	9
12/11/2010 01:30	0	0	0	0
12/11/2010 02:00	0	0	0	0
12/11/2010 02:30	0	0	0	0
12/11/2010 03:00	0	5	220	8
12/11/2010 03:30	0	0	0	0
12/11/2010 04:00	0	0	0	0
12/11/2010 04:30	0	0	0	0
12/11/2010 05:00	0	8	200	9
12/11/2010 05:30	0	2	200	8
12/11/2010 06:00	0	0	0	0
12/11/2010 06:30	0	2	220	9
12/11/2010 07:00	0	9	110	13



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
12/11/2010 07:30	0	9	90	13
12/11/2010 08:00	0	13	90	21
12/11/2010 08:30	0	13	100	21
12/11/2010 09:00	0	15	40	21
12/11/2010 09:30	0	18	40	26
12/11/2010 10:00	0	22	30	28
12/11/2010 10:30	0	24	10	28
12/11/2010 11:00	0	24	20	30
12/11/2010 11:30	0	28	20	35
12/11/2010 12:00	0	28	20	35
12/11/2010 12:30	0	30	20	35
12/11/2010 13:00	0	30	20	37
12/11/2010 13:30	0	31	30	37
12/11/2010 14:00	0	30	30	39
12/11/2010 14:30	0	30	30	35
12/11/2010 15:00	0	30	20	35
12/11/2010 15:30	0	28	20	35
12/11/2010 16:00	0	28	30	35
12/11/2010 16:30	0	30	20	37
12/11/2010 17:00	0	26	30	33
12/11/2010 17:30	0	28	20	35
12/11/2010 18:00	0	28	30	35
12/11/2010 18:30	0	24	30	31
12/11/2010 19:00	0	26	30	31
12/11/2010 19:30	0	24	40	33
12/11/2010 20:00	0	21	50	28
12/11/2010 20:30	0	21	50	28
12/11/2010 21:00	0	18	50	26
12/11/2010 21:30	0	17	50	22
12/11/2010 22:00	0	18	40	26
12/11/2010 22:30	0	15	50	26
12/11/2010 23:00	0	18	40	24
12/11/2010 23:30	0	17	40	28



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
13/11/2010 00:00	0	15	50	18
13/11/2010 00:30	0	15	50	22
13/11/2010 01:00	0	15	50	18
13/11/2010 01:30	0	15	50	18
13/11/2010 02:00	0	13	50	18
13/11/2010 02:30	0	17	60	24
13/11/2010 03:00	0	13	60	17
13/11/2010 03:30	0	15	60	21
13/11/2010 04:00	0	17	50	22
13/11/2010 04:30	0	15	50	21
13/11/2010 05:00	0	13	60	17
13/11/2010 05:30	0	15	60	22
13/11/2010 06:00	0	17	60	24
13/11/2010 06:30	0	17	60	26
13/11/2010 07:00	0	21	70	28
13/11/2010 08:00	0	21	60	26
13/11/2010 08:30	0	22	50	30
13/11/2010 09:00	0	22	60	30
13/11/2010 09:30	0	21	60	30
13/11/2010 10:00	0	22	60	31
13/11/2010 10:30	0	24	50	31
13/11/2010 11:00	0	21	70	28
13/11/2010 11:30	0	24	60	33
13/11/2010 12:00	0	21	60	30
13/11/2010 12:30	0	22	60	30
13/11/2010 13:00	0	22	60	30
13/11/2010 13:30	0	24	60	31
13/11/2010 14:00	0	28	20	33
13/11/2010 14:30	0	22	30	31
13/11/2010 15:00	0	21	40	30
13/11/2010 15:30	0	21	30	28
13/11/2010 16:00	0	18	40	24
13/11/2010 16:30	0	18	50	28



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
13/11/2010 17:00	0	21	60	28
13/11/2010 17:30	0	17	60	24
13/11/2010 18:00	0	17	60	26
13/11/2010 18:30	0	18	60	28
13/11/2010 19:00	0	17	60	24
13/11/2010 19:30	0	17	60	22
13/11/2010 20:00	0	17	60	21
13/11/2010 20:30	0	15	60	21
13/11/2010 21:00	0	18	60	26
13/11/2010 21:30	0	18	70	28
13/11/2010 22:00	0	15	80	26
13/11/2010 22:30	0	13	70	21
13/11/2010 23:00	0	13	70	15
13/11/2010 23:30	0	13	60	18
14/11/2010 00:00	0	17	60	24
14/11/2010 00:30	0	18	50	30
14/11/2010 01:00	0	13	350	15
14/11/2010 01:30	0	5	30	9
14/11/2010 02:00	0	5	10	11
14/11/2010 02:30	0	8	20	13
14/11/2010 03:00	0	13	50	17
14/11/2010 03:30	0	11	50	15
14/11/2010 04:00	0	13	50	17
14/11/2010 04:30	0	13	60	17
14/11/2010 05:00	0	13	60	17
14/11/2010 05:30	0	11	60	17
14/11/2010 06:00	0	17	40	31
14/11/2010 06:30	0	18	30	24
14/11/2010 07:00	0	17	30	21
14/11/2010 07:30	0	22	10	28
14/11/2010 08:00	0	15	20	21
14/11/2010 08:30	0	21	360	26
14/11/2010 09:00	0	26	360	31



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
14/11/2010 09:17	0	21	360	24
14/11/2010 09:30	0	17	360	22
14/11/2010 10:00	0.2	8	60	13
14/11/2010 10:29	3.2	9	40	13
14/11/2010 11:00	3.2	13	50	28
14/11/2010 11:30	3.2	17	20	24
14/11/2010 12:00	3.2	22	20	26
14/11/2010 12:30	3.2	28	30	33
14/11/2010 13:00	3.2	26	20	31
14/11/2010 13:30	3.2	24	20	30
14/11/2010 14:00	3.2	26	20	33
14/11/2010 14:30	3.2	26	30	33
14/11/2010 15:00	3.2	30	30	35
14/11/2010 15:30	3.2	30	20	35
14/11/2010 16:00	3.2	30	20	35
14/11/2010 16:30	3.2	28	30	33
14/11/2010 17:00	3.2	26	30	33
14/11/2010 17:30	3.2	28	20	33
14/11/2010 18:00	3.2	22	30	28
14/11/2010 18:30	3.2	22	20	31
14/11/2010 19:00	3.2	26	30	33
14/11/2010 19:30	3.2	18	30	26
14/11/2010 20:00	3.2	21	40	28
14/11/2010 20:30	3.2	18	40	26
14/11/2010 21:00	3.2	21	40	28
14/11/2010 21:30	3.2	21	40	28
14/11/2010 22:00	3.2	17	40	24
14/11/2010 22:30	3.2	17	30	22
14/11/2010 23:00	3.2	17	30	21
14/11/2010 23:30	3.2	17	40	22
15/11/2010 00:00	3.2	17	40	22
15/11/2010 00:30	3.2	17	40	21
15/11/2010 01:00	3.2	17	40	22



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
15/11/2010 01:30	3.2	15	50	21
15/11/2010 02:00	3.2	13	40	17
15/11/2010 02:30	3.2	15	40	17
15/11/2010 03:00	3.2	13	40	17
15/11/2010 03:30	3.2	13	40	15
15/11/2010 04:00	3.2	13	40	17
15/11/2010 04:30	3.2	11	40	17
15/11/2010 05:00	3.2	8	280	9
15/11/2010 05:30	3.2	8	220	9
15/11/2010 06:00	3.2	8	210	9
15/11/2010 06:30	3.2	2	360	8
15/11/2010 07:00	3.2	5	320	11
15/11/2010 07:30	3.2	9	30	15
15/11/2010 08:00	3.2	9	30	15
15/11/2010 08:30	3.2	11	50	15
15/11/2010 09:00	3.2	11	20	17
15/11/2010 09:30	0	13	10	21
15/11/2010 10:00	0	13	10	18
15/11/2010 10:30	0	15	20	21
15/11/2010 11:00	0	17	30	22
15/11/2010 11:30	0	21	20	28
15/11/2010 12:00	0	21	30	28
15/11/2010 12:30	0	24	30	30
15/11/2010 13:00	0	26	30	31
15/11/2010 13:30	0	26	30	33
15/11/2010 14:00	0	26	40	30
15/11/2010 14:30	0	26	30	31
15/11/2010 15:00	0	26	30	33
15/11/2010 15:30	0	24	30	31
15/11/2010 16:00	0	24	20	30
15/11/2010 16:30	0	26	10	31
15/11/2010 17:00	0	26	10	33
15/11/2010 17:30	0	26	10	31



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
15/11/2010 18:00	0	26	10	31
15/11/2010 18:30	0	24	20	31
15/11/2010 19:00	0	24	30	30
15/11/2010 19:30	0	21	20	26
15/11/2010 20:00	0	22	10	30
15/11/2010 20:30	0	22	10	28
15/11/2010 21:00	0	21	360	28
15/11/2010 21:30	0	22	10	28
15/11/2010 22:00	0	21	360	28
15/11/2010 22:30	0	21	10	28
15/11/2010 23:00	0	21	360	22
15/11/2010 23:30	0	15	330	21
16/11/2010 00:00	0	11	310	28
16/11/2010 00:30	0	9	310	9
16/11/2010 01:00	0	9	320	15
16/11/2010 01:30	0	8	320	9
16/11/2010 02:00	0	8	320	8
16/11/2010 02:30	0	8	290	9
16/11/2010 03:00	0	8	300	9
16/11/2010 03:30	0	8	290	9
16/11/2010 04:00	0	8	300	9
16/11/2010 04:30	0	5	310	8
16/11/2010 05:00	0	4	340	8
16/11/2010 05:30	0	11	290	11
16/11/2010 06:00	0	9	300	9
16/11/2010 06:30	0	9	340	15
16/11/2010 07:00	0	11	330	15
16/11/2010 07:30	0	13	340	24
16/11/2010 08:00	0	13	350	18
16/11/2010 08:30	0	13	360	18
16/11/2010 09:00	0	17	10	24
16/11/2010 09:30	0	21	50	28
16/11/2010 10:00	0	24	50	30



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
16/11/2010 10:30	0	24	50	30
16/11/2010 11:00	0	24	40	31
16/11/2010 11:30	0	30	30	37
16/11/2010 12:00	0	30	20	39
16/11/2010 12:30	0	31	30	39
16/11/2010 13:00	0	35	30	42
16/11/2010 13:30	0	33	30	41
16/11/2010 14:00	0	31	30	41
16/11/2010 14:30	0	31	20	39
16/11/2010 15:00	0	33	20	41
16/11/2010 15:30	0	33	20	41
16/11/2010 16:00	0	31	20	39
16/11/2010 16:30	0	31	10	37
16/11/2010 17:00	0	28	20	35
16/11/2010 17:30	0	30	20	37
16/11/2010 18:00	0	28	20	35
16/11/2010 18:30	0	28	20	33
16/11/2010 19:00	0	28	10	33
16/11/2010 19:30	0	24	10	31
16/11/2010 20:00	0	24	10	30
16/11/2010 20:30	0	24	10	31
16/11/2010 21:00	0	26	20	35
16/11/2010 21:30	0	21	10	30
16/11/2010 22:00	0	24	10	33
16/11/2010 22:30	0	24	10	28
16/11/2010 23:00	0	18	350	26
16/11/2010 23:30	0	13	360	15
17/11/2010 00:00	0	17	360	28
17/11/2010 00:30	0	17	360	22
17/11/2010 01:00	0	18	360	26
17/11/2010 01:30	0	17	350	22
17/11/2010 02:00	0	18	360	24
17/11/2010 02:30	0	15	360	18



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
17/11/2010 03:00	0	13	330	18
17/11/2010 03:30	0	11	320	13
17/11/2010 04:00	0	5	320	8
17/11/2010 04:30	0	8	310	9
17/11/2010 05:00	0	8	340	9
17/11/2010 05:30	0	5	300	9
17/11/2010 06:00	0	9	300	11
17/11/2010 06:30	0	9	320	13
17/11/2010 07:00	0	13	320	26
17/11/2010 07:30	0	17	350	24
17/11/2010 08:00	0	18	340	26
17/11/2010 08:30	0	15	350	18
17/11/2010 09:00	0	17	350	22
17/11/2010 10:00	0	13	360	17
17/11/2010 11:00	0	13	20	22
17/11/2010 11:30	0	17	20	22
17/11/2010 12:00	0	21	40	30
17/11/2010 12:30	0	22	40	30
17/11/2010 13:00	0	26	50	31
17/11/2010 13:30	0	24	40	31
17/11/2010 14:00	0	24	40	30
17/11/2010 14:30	0	24	40	28
17/11/2010 15:00	0	26	20	30
17/11/2010 15:30	0	26	10	33
17/11/2010 16:00	0	30	20	35
17/11/2010 16:30	0	28	20	35
17/11/2010 17:00	0	28	20	35
17/11/2010 17:30	0	26	10	31
17/11/2010 18:00	0	24	20	31
17/11/2010 18:30	0	24	20	30
17/11/2010 19:00	0	22	30	30
17/11/2010 19:30	0	18	30	26
17/11/2010 20:00	0	18	40	26



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
17/11/2010 20:30	0	18	30	24
17/11/2010 21:00	0	18	20	26
17/11/2010 21:30	0	18	20	28
17/11/2010 22:00	0	21	10	28
17/11/2010 22:30	0	22	20	28
17/11/2010 23:00	0	18	20	24
17/11/2010 23:30	0	21	20	26
18/11/2010 00:00	0	18	350	28
18/11/2010 00:30	0	15	10	24
18/11/2010 01:00	0	21	20	30
18/11/2010 01:30	0	18	360	22
18/11/2010 02:00	0	11	10	18
18/11/2010 02:30	0	17	10	24
18/11/2010 03:00	0	21	10	26
18/11/2010 03:30	0	17	20	18
18/11/2010 04:00	0	21	20	26
18/11/2010 04:30	0	8	250	11
18/11/2010 05:00	0	5	260	8
18/11/2010 05:30	0	8	300	9
18/11/2010 06:00	0	8	320	15
18/11/2010 06:30	0	9	270	13
18/11/2010 07:00	0	11	350	15
18/11/2010 07:30	0	13	360	17
18/11/2010 08:00	0	13	360	21
18/11/2010 08:30	0	15	10	18
18/11/2010 09:00	0	15	10	21
18/11/2010 09:30	0	15	10	21
18/11/2010 10:00	0	17	30	22
18/11/2010 10:30	0	17	50	26
18/11/2010 11:00	0	18	30	22
18/11/2010 11:30	0	18	40	22
18/11/2010 12:00	0	17	50	21
18/11/2010 12:30	0	13	50	17



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
18/11/2010 13:00	0	13	30	18
18/11/2010 13:30	0	9	40	11
18/11/2010 14:00	0	9	200	13
18/11/2010 14:30	0	9	210	13
18/11/2010 15:00	0	11	160	15
18/11/2010 15:30	0	11	160	17
18/11/2010 15:56	0	15	170	26
18/11/2010 16:00	0	15	170	26
18/11/2010 16:18	0.6	13	180	21
18/11/2010 16:30	1.2	15	200	22
18/11/2010 17:00	1.6	13	190	18
18/11/2010 17:30	1.6	15	170	21
18/11/2010 17:52	2.2	15	180	24
18/11/2010 18:00	2.6	11	190	17
18/11/2010 18:30	4.2	11	170	17
18/11/2010 19:00	5.4	9	180	13
18/11/2010 19:30	6.6	9	190	15
18/11/2010 20:00	9.8	13	170	18
18/11/2010 20:30	12	9	190	13
18/11/2010 21:00	15.6	17	190	21
18/11/2010 21:25	17.2	11	190	15
18/11/2010 21:30	17.4	11	200	13
18/11/2010 22:00	18.4	13	190	17
18/11/2010 22:30	18.6	13	210	18
18/11/2010 22:48	18.6	13	210	21
18/11/2010 23:00	19.4	17	210	24
18/11/2010 23:21	20.2	18	240	24
18/11/2010 23:30	20.2	15	230	18
19/11/2010 00:00	20.4	15	210	21
19/11/2010 00:30	20.6	15	210	22
19/11/2010 00:55	21.2	17	210	21
19/11/2010 01:00	21.6	15	210	18
19/11/2010 01:30	23	13	220	17



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
19/11/2010 02:00	25.2	17	210	21
19/11/2010 02:20	25.6	15	210	21
19/11/2010 02:30	26	18	220	24
19/11/2010 03:00	26.8	17	210	22
19/11/2010 03:30	27.2	15	220	18
19/11/2010 03:43	27.6	17	220	21
19/11/2010 04:00	28	15	220	18
19/11/2010 04:30	28.2	15	210	18
19/11/2010 04:43	28.2	13	200	15
19/11/2010 05:00	28.2	13	210	15
19/11/2010 05:30	28.2	13	210	17
19/11/2010 06:00	28.2	11	210	15
19/11/2010 06:30	28.2	13	200	17
19/11/2010 07:00	28.2	11	200	15
19/11/2010 07:30	28.2	11	190	17
19/11/2010 08:00	28.2	9	170	15
19/11/2010 08:30	28.2	13	220	17
19/11/2010 09:00	28.2	13	220	18
19/11/2010 09:30	0	15	210	26
19/11/2010 09:46	0.2	17	230	26
19/11/2010 10:00	0.2	15	210	24
19/11/2010 10:30	0.2	15	210	21
19/11/2010 11:00	0.2	13	190	21
19/11/2010 11:30	0.2	15	210	18
19/11/2010 12:00	0.2	13	210	17
19/11/2010 12:30	0.2	11	120	17
19/11/2010 13:00	0.2	15	110	24
19/11/2010 13:30	0.2	17	120	26
19/11/2010 14:00	0.2	18	110	30
19/11/2010 14:30	0.2	18	120	30
19/11/2010 15:00	0.2	18	120	30
19/11/2010 15:30	0.2	22	120	31
19/11/2010 16:00	0.2	22	130	33



Date/Time	Precipitation since 9am	Wind speed in km/h	Wind direction in degrees true	Speed of maximum windgust in km/h
19/11/2010 16:30	0.2	21	130	35
19/11/2010 17:00	0.2	21	130	31
19/11/2010 17:30	0.2	21	150	33
19/11/2010 18:00	0.2	22	140	39
19/11/2010 18:30	0.2	21	150	37
19/11/2010 19:00	0.2	21	160	33
19/11/2010 19:30	0.2	18	170	35
19/11/2010 20:00	0.2	15	170	24
19/11/2010 20:30	0.2	17	170	31
19/11/2010 21:00	0.2	18	170	33
19/11/2010 21:30	0.2	18	170	30
19/11/2010 22:00	0.2	18	170	33
19/11/2010 22:30	0.2	24	170	39
19/11/2010 23:00	0.2	21	150	37
19/11/2010 23:30	0.2	21	160	41



APPENDIX D

NOISE MONITORING DATA



APPENDIX D: NOISE MONITORING DATA

Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
11/11/10 17:15	59.2	72.2	66.9	63.3	61.6	59.5	57.4	55.4	54.3	52.9	52
11/11/10 17:30	58.8	72.6	66.4	62.6	61	59.1	57.3	55.8	54.3	52.9	51.6
11/11/10 17:45	58.1	71.9	65.8	62.6	60	58	56.5	55.1	53.8	51.8	50.6
11/11/10 18:00	57.5	69.4	62.9	61	60	58.2	56.2	54.7	53.5	51.9	51.1
11/11/10 18:15	58.4	71.6	65.9	62.4	60.6	58.6	56.5	55	54	52.5	52
11/11/10 18:30	57.5	76.7	64.8	61.4	59.9	57.4	55.8	54.5	53.2	51.7	50.9
11/11/10 18:45	58.3	72.8	68.1	62.2	60.3	58.1	56.2	54.7	53.3	52.1	51.2
11/11/10 19:00	58.6	74.2	66.5	62.7	61	58.7	56.7	55.4	54.1	52.2	51.7
11/11/10 19:15	57.6	66.1	63.7	61.5	59.8	58	56.5	55.3	54.3	52.3	51.8
11/11/10 19:30	57.8	70.5	64.8	62.3	60.6	58.2	55.9	54	52.9	51.5	50.9
11/11/10 19:45	57.1	70.4	66.3	61.3	59.5	57	54.8	53.5	52.4	50.4	48.9
11/11/10 20:00	57.4	69.3	64.9	61.5	60.2	57.9	55.4	53.6	52	50.3	49.4
11/11/10 20:15	57.8	71.1	65.4	62.3	60.9	58.5	55.8	53.6	52.2	51.1	50.6
11/11/10 20:30	55.5	69.3	63.3	60.2	57.9	55.3	53.5	52.2	50.9	49.6	48.8
11/11/10 20:45	57.1	71.7	64.9	61.5	60.1	57.7	55.1	53	52	50.5	49.4
11/11/10 21:00	57.6	71.7	66.3	62.4	60.6	57.6	54.8	53.3	52.1	50.1	49.3
11/11/10 21:15	60.8	78.5	73.4	64.5	61.8	58.4	55.8	54.2	52.7	51.2	50.7
11/11/10 21:30	57.2	72.6	64.2	61.3	60.1	58.2	55.1	52.7	51.2	49.6	49
11/11/10 21:45	58.9	73.2	65.4	62.2	61.5	60.4	57.3	53	51.8	50.8	50.1
11/11/10 22:00	58.1	75.7	64.1	61	59.9	59	57.1	55.4	52.5	50	49.6
11/11/10 22:15	55.4	67.7	63.6	59.9	58.3	55.3	53.3	51.8	49.9	48.5	47.7
11/11/10 22:30	55.3	68.1	63.2	59.9	58.6	55.4	52.9	51.6	50.7	49.4	48.5
11/11/10 22:45	55	68.7	62.7	59.5	57.9	55.4	52.7	50.9	49.2	48.1	47.4
11/11/10 23:00	53.7	67.1	62.2	58.4	56.6	53.7	51.2	49.3	48	46.4	45.5
11/11/10 23:15	58.5	69.7	65.4	62.3	60.8	58.7	57.7	56	53.2	50.4	49.8
11/11/10 23:30	55.3	68.1	64.2	60.7	58.8	55.2	51.7	49.9	48.4	47.3	46.8
11/11/10 23:45	54.7	67.6	62.5	59.9	57.9	55.2	51.8	49.7	48	45.3	44.2
12/11/10 00:00	54.3	69.6	64.5	59.2	56.9	53.3	50.4	48.6	47.5	46.1	45.5
12/11/10 00:15	53.8	68.9	63.4	57.7	56.3	54.1	51	48.9	48.3	47.4	46.8
12/11/10 00:30	53.7	66.7	63.8	57.7	56.2	53.5	50.9	49.4	48.4	47.6	47.1
12/11/10 00:45	52.6	66.4	61.8	58.3	55.6	51.8	49.6	48.5	47.7	47	46.4
12/11/10 01:00	53.1	66.3	61.1	57.8	56.3	53.2	50.3	48.9	48.3	47.8	47.4
12/11/10 01:15	53.8	68.3	63.1	58.7	56.7	53	50.7	49.4	48.9	48.3	48



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
12/11/10 01:30	54.3	70.7	64.3	58.3	56.1	53.9	51.3	49.2	48.5	47.5	47.1
12/11/10 01:45	53.8	66.6	61.3	58.2	56.8	54.2	51.5	50	48.7	47.3	46.8
12/11/10 02:00	56.4	74.8	64.6	62.2	59.6	54.9	51.9	50.9	50	48.2	47.5
12/11/10 02:15	52.6	68.8	61.6	57.6	55.6	52.4	49.5	47.5	46.3	43.9	43
12/11/10 02:30	51.8	64.9	60.1	56.8	55	51.7	49.3	47.5	46.3	44.4	43.2
12/11/10 02:45	55.4	74	65.3	60.6	58.3	54.8	51.5	49.7	47.9	46.9	45.9
12/11/10 03:00	54.5	70.3	63	58.7	57.1	54.6	52.4	51.2	49.2	48.2	46.3
12/11/10 03:15	53.8	63.1	60.3	58.2	56.6	54.2	52.1	50.8	49.8	48.9	48.6
12/11/10 03:30	54.5	69	63	59.8	57.9	54.1	51.3	49.8	49	47.7	46.8
12/11/10 03:45	53.2	67.2	60.8	57.8	55.6	53.3	51.2	49.9	49.1	48.1	47.6
12/11/10 04:00	53.3	63.6	60.2	57.5	55.8	53.4	51.6	50.5	49.8	48.8	48.1
12/11/10 04:15	55	66.9	62.1	59.3	57.9	55.3	52.9	51.6	50.6	49.4	48.6
12/11/10 04:30	56.5	70.9	64.6	61	59.4	56.7	54.2	52.3	51	49.6	48.9
12/11/10 04:45	55.9	69.8	62.4	60.1	58.7	56	53.8	52.4	51.4	49.5	48.8
12/11/10 05:00	55.9	71.1	63.2	60.1	58.5	56.2	53.9	52	50.1	48.6	47.7
12/11/10 05:15	56.1	66.6	62.7	60.7	59.5	57	54	51.7	49.8	47.7	46.6
12/11/10 05:30	57.6	72.4	65.3	62.1	60.2	57.9	55.8	53.3	51.2	48.8	47.7
12/11/10 05:45	58.6	71.2	67.4	63.4	61.2	58.4	56.4	54.4	52.3	50	48.9
12/11/10 06:00	58.1	68.8	65.1	62.5	61	58.4	56.4	54.8	53.6	51.8	50.5
12/11/10 06:15	58.4	70.1	64.8	62.5	61.1	59.1	57	54.9	53.4	51.3	50.1
12/11/10 06:30	58.7	74	65.9	62.9	61.5	59.3	57	54.6	53	50.8	49.8
12/11/10 06:45	58.6	71.1	65.6	63.1	61.8	59.4	56.3	54.3	52.8	50.3	49.4
12/11/10 07:00	58.6	70.4	67	62.6	60.9	58.9	56.7	55.3	54.1	52.7	51.9
12/11/10 07:15	57.7	73	64.3	61.9	60.5	58.4	55.9	53.9	52.8	50.8	50
12/11/10 07:30	59.8	75.9	67.5	63.7	62.3	60.3	58	56.1	54.7	52.9	52.2
12/11/10 07:45	58.6	77.8	66	61.9	60.5	58.4	56.4	54.4	52.4	49.8	48.7
12/11/10 08:00	58.6	68.5	64	62.2	61.1	59.3	57.4	55.8	54.5	52.4	51.5
12/11/10 08:15	58.5	68.3	65.2	62.6	61.2	59.1	57.2	55	53.5	49.7	48.5
12/11/10 08:30	58.2	69.4	64	61.7	60.3	58.5	57.2	56	54.9	52.7	51
12/11/10 08:45	58.9	70	66.2	63.2	61.7	59.2	57.1	55.7	54.8	53.3	52.3
12/11/10 09:00	59.1	69.4	65.3	62.7	61.4	59.6	58.1	57	55.1	52.2	51
12/11/10 09:15	59.8	68.4	64.7	63.3	62.1	60.3	58.8	57.7	56.8	55.8	55.3
12/11/10 09:30	58.8	70.5	64.8	62.7	61.5	59.4	57.4	55.7	54.3	52.2	51.1
12/11/10 09:45	59	70.5	65.1	62.9	61.6	59.7	57.6	55.6	54.1	52.8	52.1
12/11/10 10:00	59.4	71.1	66	63.3	61.8	59.9	58	56.4	54.9	51.7	50.1



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
12/11/10 10:15	59.7	70.5	66	63.9	62.5	60.6	58.3	55.9	53.9	52	51.1
12/11/10 10:30	59.7	73.7	66.6	63.5	62.1	60.3	57.9	56	54.9	53	52
12/11/10 10:45	59.1	70.6	65.7	63.5	62.1	59.8	57.5	55.6	53.8	52	51.1
12/11/10 11:00	59.8	68.5	66.5	64	62.6	60.6	58.6	55.7	54.1	51.9	51.2
12/11/10 11:15	60.5	74.6	68.5	63.3	61.9	60.6	59.2	57.7	56.4	55.4	54.8
12/11/10 11:30	60.1	72.5	68.3	64.3	62.6	60.2	58.2	56.5	55.3	54	53.3
12/11/10 11:45	59.2	69.5	64.9	63	61.8	60	57.9	56.4	55.2	53.4	52.2
12/11/10 12:00	59.7	70.4	66.2	63.4	62.2	60.4	58.3	56.5	55	53.9	52.8
12/11/10 12:15	59.6	75.7	66.7	63.1	61.8	59.8	58.2	56.8	55.3	53.7	52.9
12/11/10 12:30	60.4	74.9	67.6	64.3	62.8	60.7	58.5	57.1	56.2	55.1	54.1
12/11/10 12:45	59.2	72.2	65.2	62.9	61.6	59.7	57.9	56.5	55.4	53.8	52.7
12/11/10 13:00	60.1	75.3	65.8	63.7	62.5	60.6	58.9	57.5	56.2	53.3	52.2
12/11/10 13:15	59.7	71.5	66.8	63.5	61.9	60.2	58.1	56.5	55.5	53.6	52.5
12/11/10 13:30	59.1	71.8	66.2	63.3	61.8	59.3	57.4	56	54.7	53	52.2
12/11/10 13:45	59.2	73.1	66	62.8	61.5	59.6	57.6	56.1	54.8	52.6	51.8
12/11/10 14:00	59.7	69.2	65	62.8	61.8	60.2	58.8	57.6	56.5	54.1	53.1
12/11/10 14:15	60.4	71.2	66.5	64.3	62.9	60.7	59.1	57.9	57.1	55.8	55.1
12/11/10 14:30	59.6	74	67.2	63.5	61.8	60	58.1	56.4	55.2	53.7	52.7
12/11/10 14:45	60.4	80.5	67	64.1	62.7	60.8	58.7	56.9	55.4	52.7	51.8
12/11/10 15:00	60.2	72.4	66.9	63.7	62.6	60.6	58.9	57.3	55.7	54.6	54
12/11/10 15:15	60.7	71.2	67.2	64.6	63.4	61.5	59.3	57.5	56.2	53.2	51.7
12/11/10 15:30	61.2	75.6	69.9	65.6	63.6	61	58.9	57	55.8	54.6	53.8
12/11/10 15:45	60.2	74.6	67	64.4	63	60.5	58.6	57	55.7	53.8	52.7
12/11/10 16:00	59.7	72.6	67.3	63.7	62.2	60	57.7	56.2	55.1	53.9	53.4
12/11/10 16:15	60.7	76.6	69.2	64.6	62.8	60.3	58.2	56.7	55.6	53.7	52.9
12/11/10 16:30	59.1	70	65.6	62.7	61.3	59.4	57.9	56.3	55	53.1	52.4
12/11/10 16:45	59.4	72.6	67	63.7	62	59.5	57.5	56.2	55.1	53.1	52.7
12/11/10 17:00	58.4	70.3	64.2	62	60.9	59	57.3	55.6	53.9	52.5	51.3
12/11/10 17:15	59.6	72.9	67	63.2	61.8	59.9	58.1	56.5	55.2	53.5	51.5
12/11/10 17:30	58	72.9	64.4	61.5	60.2	58.3	56.8	55.4	54.1	52.4	51.3
12/11/10 17:45	56.8	64.9	62.3	60.3	59.1	57.1	55.9	54.6	53.4	52.1	51.5
12/11/10 18:00	57.2	75	63.7	61.2	59.9	57.3	55.4	54	53	51.5	50.9
12/11/10 18:15	57.6	68.2	64	61.1	59.7	58.1	56.6	54.9	53.8	52.8	52.3
12/11/10 18:30	57.1	67.9	63.7	61	59.8	57.9	55.5	53.7	52.7	51.3	50.4
12/11/10 18:45	56.7	66	63.1	60.5	59.1	57	55.4	54	53.1	51.6	50.8



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
12/11/10 19:00	56.4	68.1	62.5	59.8	58.6	56.7	55.2	54	52.7	51.3	50.4
12/11/10 19:15	57.4	68.7	64.6	61.3	59.7	57.6	55.9	54.6	53.6	51.7	50.8
12/11/10 19:30	59.2	77.4	71.1	61.5	59.8	57.7	55.5	53.8	52.7	51.5	50.9
12/11/10 19:45	55.7	67.5	61.4	59.3	58	56.2	54.4	53.2	52.2	51	50.5
12/11/10 20:00	56.1	68.9	63.3	59.9	58.5	56.5	54.7	53	51.8	50.4	49.3
12/11/10 20:15	55.9	67.5	63.6	60.4	58.7	56	53.9	52.5	51.4	49.7	48.9
12/11/10 20:30	56.3	66.9	62.8	60.3	58.7	56.8	54.9	53.2	52	49.8	48.9
12/11/10 20:45	55.8	71	64.7	60.5	58.4	55.3	53.3	51.9	50.9	49.6	48.8
12/11/10 21:00	54.9	69	61.9	59.5	58	54.7	52.9	51.7	50.6	49.3	48.8
12/11/10 21:15	54.9	64.4	60.9	58.6	57.2	55.4	53.7	52.4	51.3	49.9	49.2
12/11/10 21:30	55.7	72.9	62.3	59.6	58.1	55.6	53.4	52.1	50.9	49.6	48.9
12/11/10 21:45	55.9	69.9	64.7	60.2	58.3	55.7	53.6	52.3	50.7	48.9	48.4
12/11/10 22:00	55.2	70.6	62.5	59.4	57.9	55.2	53.4	51.8	50.6	48	46.7
12/11/10 22:15	55.3	67	64.1	59.4	57.7	55.1	53.4	52.2	51	49.3	48.3
12/11/10 22:30	55.7	67.2	64.1	60.4	58.2	55.6	53.5	52	50.9	49.3	48.4
12/11/10 22:45	55.2	67.1	62.7	59.9	58.1	55.1	53.1	51.9	50.9	49.3	48.5
12/11/10 23:00	53.8	66.3	61.2	57.5	55.8	53.8	52.2	51	50.1	49	47.9
12/11/10 23:15	55.1	68.8	62.6	58.9	57.6	55.4	53.4	51.9	50.6	49.3	48.6
12/11/10 23:30	58.4	73.4	64	61	59.7	58.4	57.6	56.5	53.6	52.1	51.1
12/11/10 23:45	54.3	64.2	61	58.4	56.8	54.6	52.9	51.3	50.3	49	48.1
13/11/10 00:00	53.9	66.2	60.6	57.6	56.4	54.3	52.5	51.4	50.6	48.9	48.2
13/11/10 00:15	55.1	67.5	65.1	60.6	58	54.3	52.1	50.1	48.8	46.6	46.2
13/11/10 00:30	53.9	66.2	61.6	58.7	57	54.3	51.6	49.6	48.2	46.7	46
13/11/10 00:45	53.3	66.7	60.8	57.5	55.9	53.7	51.5	49.8	48.8	46.6	45.1
13/11/10 01:00	52.2	65.3	60.9	56.6	54.9	52.1	50	48.4	46.8	44	43.3
13/11/10 01:15	52.6	67.9	61.9	58.1	56	52.3	49.2	47.3	46.2	45.3	44.8
13/11/10 01:30	51.8	64.9	60	55.9	54.3	51.5	49.9	48.9	48.3	46.9	46.1
13/11/10 01:45	54.5	75.6	63	57.9	56.1	52.9	50.3	49.1	48.5	47.6	47
13/11/10 02:00	52.7	66	61.2	57.4	55.5	52.2	50.3	49.1	48	46.3	45.7
13/11/10 02:15	52.4	71	60.8	56.9	54.8	51.8	49.7	48.3	47.4	46.3	45.7
13/11/10 02:30	53	65.9	60.9	58.3	56.5	52.8	50.4	48.7	47.8	46.6	45.8
13/11/10 02:45	54	66.5	62.6	59.1	57.3	53.7	50.9	49.7	48.9	47.7	46.9
13/11/10 03:00	52.9	68.7	60.8	57.4	55.4	52.6	50.5	49.3	48.4	47.5	46.6
13/11/10 03:15	54	64	61.3	58.8	57.5	54.3	51.4	50	48.4	47.2	46.1
13/11/10 03:30	53.3	64.3	60.9	57.9	55.9	53.4	51.2	49.9	48.8	46.9	46



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
13/11/10 03:45	52.4	65	60.1	57.1	55.4	52.4	50.3	48.9	47.7	46	45
13/11/10 04:00	53.8	73.5	61.8	57.8	56.4	54.3	51.3	49.7	48.7	47.6	46.6
13/11/10 04:15	53.6	66.1	60.3	58	56.4	54.1	51.6	50.2	49	46.3	45.4
13/11/10 04:30	54.3	68.6	62.2	59.1	57.2	54.2	52	50.2	49	47.6	46.7
13/11/10 04:45	53.9	64.4	60.9	58.6	57.2	54.7	51.7	49.9	48.5	46.4	45.5
13/11/10 05:00	53.7	64.6	60.8	57.7	56.4	54.6	52	50	48.9	47.8	46.6
13/11/10 05:15	55.6	70.6	64	60.7	59.3	55.7	52.6	50.6	49.1	47.6	46.8
13/11/10 05:30	56.6	68.4	64.1	60.7	59.3	57.2	54.7	52.9	51.4	48.5	48.1
13/11/10 05:45	58	75.4	65.6	62.7	61	58.4	55.7	53.1	51.7	49.6	48.3
13/11/10 06:00	57.6	72.6	65.9	62.1	60.4	57.3	55	53.1	51.5	49.7	48.8
13/11/10 06:15	58	72.1	66.4	62.7	60.5	58.2	55.6	54.1	52.9	50.4	49.2
13/11/10 06:30	56.6	69.3	63.6	60.9	59.6	57.3	54.8	52.9	51.2	48.4	47.3
13/11/10 06:45	56.8	68.6	63.6	61.3	59.8	57.6	54.9	53.1	52.1	50.9	50.1
13/11/10 07:00	57.6	70.2	64.5	61.6	60.1	57.9	55.9	54.5	53.3	51.4	49.8
13/11/10 07:15	57.3	69.9	64.7	61.3	59.7	57.8	55.5	53.9	52.8	51.6	50.2
13/11/10 07:30	57.3	70.1	65.4	61.9	60	57.3	55.2	53.4	52	49.8	48.3
13/11/10 07:45	57.3	69.5	64.8	61.2	60.1	58	55.6	53.5	52	50	48.7
13/11/10 08:00	57.5	71	66.2	62.8	61	57.6	54.5	52.3	50.7	47.9	47.2
13/11/10 08:15	58.1	71.7	65.7	62.8	61.1	58.3	55.7	53.7	52.4	49.9	48.3
13/11/10 08:30	58.4	71.1	65.9	63.1	61.5	59.1	56.3	54.2	53.1	51.6	50.5
13/11/10 08:45	57.9	82.5	64.7	62	60.2	57.6	55.5	53.7	52.3	49.3	48.7
13/11/10 09:00	58	70.8	65.3	62.3	60.7	58.3	56.2	54.7	53.4	51.1	49.6
13/11/10 09:15	57.9	69.7	65	62.4	60.9	58.6	56.3	53.6	51.8	49.7	48.7
13/11/10 09:30	58.2	70.4	66.9	63.2	61.5	58.3	55.8	53.4	51.9	50.3	49
13/11/10 09:45	57.4	67.8	64.5	61.9	60.6	58	55.4	53.6	51.1	48.9	48
13/11/10 10:00	57.3	73.5	66.6	61.7	60	57.2	54.2	52.4	50.9	48.9	48.1
13/11/10 10:15	57.7	74.1	65.3	62.3	60.7	58	55.4	53.7	52.3	50.8	49.4
13/11/10 10:30	58.5	70.3	65.6	63.1	61.5	58.8	56.7	54.6	52.9	51.2	49.9
13/11/10 10:45	59	77.2	66.7	63.8	62.4	59.3	56.3	54.1	52.1	50.6	49.5
13/11/10 11:00	59.1	71	65.1	63.1	62.2	60.1	57.5	55.1	52.7	49.9	49
13/11/10 11:15	58.5	69.1	66.1	63	61.5	58.8	56.5	54.7	53.2	51.5	50.4
13/11/10 11:30	58.2	72.7	66.1	62.6	61	58.4	55.8	54.1	53.1	51.3	50.4
13/11/10 11:45	58.6	70.3	65.7	62.9	61.5	59.3	56.6	54.8	53.1	50.6	49.4
13/11/10 12:00	58.5	71.6	66.6	63.4	61.5	58.4	56.2	54.5	52.8	50.3	48.7
13/11/10 12:15	57.8	73	65	61.8	60.5	58.2	56.2	54.2	52.5	50.4	49.8



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
13/11/10 12:30	57.6	76.5	65.3	61.9	60.6	57.6	55.3	53.5	51.8	49.6	49.1
13/11/10 12:45	58.9	74.1	68.2	63.3	61.6	58.7	56	54.1	52.7	51	49.7
13/11/10 13:00	56.9	71.4	64.3	61.6	59.7	57.2	55	53.1	51.6	49.6	48.9
13/11/10 13:15	56.8	69.9	64.7	61.3	59.8	57.2	54.5	52.7	51.2	49.2	48
13/11/10 13:30	57.1	70.1	64.4	61.9	60	57.7	55	53.2	52	49.9	49
13/11/10 13:45	56.8	78.5	64.5	60.7	59	56.2	53.8	51.9	50.3	47.4	46.4
13/11/10 14:00	57.2	80.9	65.9	61	59.5	57	54.4	52.3	50.9	48.8	47.9
13/11/10 14:15	57.4	69.8	66.4	62.6	60.5	57.6	54.5	52.4	50.5	48.9	47.7
13/11/10 14:30	55.6	69.7	63.7	59.7	58.3	55.9	53.8	51.4	49.7	48.1	47.5
13/11/10 14:45	57.7	77.9	69.8	60.2	58.4	55.8	53.6	51.3	49.4	47.5	46.8
13/11/10 15:00	55.6	67.4	63.3	60.8	59	55.9	53.3	50.6	48.9	46.7	45.9
13/11/10 15:15	55.3	70.3	64.4	59.5	57.8	55.3	53	50.8	49.1	47.6	46.4
13/11/10 15:30	55.3	65.1	62.3	60.1	58.5	55.9	53.2	51.1	50	48.4	47.3
13/11/10 15:45	55.4	68.9	63.3	59.9	58.2	55.5	53.4	51.9	50.3	48.1	47.5
13/11/10 16:00	55.3	68.3	62.3	59.7	58.3	55.7	53.5	51.6	49.8	47.9	46.7
13/11/10 16:15	54.1	62.9	60.4	58.1	56.6	54.7	53	51.1	49.2	47	45.4
13/11/10 16:30	54.5	68.4	63.3	58.9	57	54.2	52.1	50.1	48.4	46.1	44.8
13/11/10 16:45	54.5	67.2	62.5	58.8	57.2	54.9	52.6	50.7	48.6	46.1	44.9
13/11/10 17:00	53.7	66.4	61.4	57.4	55.9	54.2	52.3	50.5	48.8	47.5	46.3
13/11/10 17:15	54.2	67.7	61.2	58.1	56.6	54.7	52.6	51.1	49.6	47.5	46.9
13/11/10 17:30	54.3	66.1	62.1	57.7	56.1	54.3	53	51.8	50.7	49	48.3
13/11/10 17:45	53.8	64.8	59.8	57.6	56.2	54.3	52.7	51	49.5	47.3	46.2
13/11/10 18:00	55.2	66.3	62.7	60.1	58.4	55.5	53.1	51.3	48.8	46	45.4
13/11/10 18:15	54.8	67.7	62.8	59.1	57.4	55.1	52.8	50.9	49.3	46.9	45.9
13/11/10 18:30	53.9	66.1	60.1	57.6	56.4	54.4	52.5	51.1	49.4	47.2	46.2
13/11/10 18:45	54.8	66.9	63.8	59.2	57.2	54.6	52.6	51.2	49.7	45.7	44.8
13/11/10 19:00	53.1	65.7	60.5	57.4	55.7	53.3	51.7	49.8	47.6	44.7	43.8
13/11/10 19:15	55.4	64.5	60.9	59.1	57.9	55.9	54.3	53	51.9	50.8	50.1
13/11/10 19:30	53.2	65.5	59.8	56.5	55.2	53.5	52.2	50.4	48.9	47.2	46.3
13/11/10 19:45	53.3	66	60.4	57.6	56	53.8	51.4	49.9	48.7	47.5	46.3
13/11/10 20:00	53.9	71.8	61.3	58.3	56.7	53.8	51.6	50.1	48.6	46.1	45.2
13/11/10 20:15	53.9	72.4	63.1	57.9	56	53.5	51.1	49.1	47.7	46.8	45.9
13/11/10 20:30	51.9	64.8	58.3	56.4	54.8	52.4	50.1	48.6	47.7	46	43.9
13/11/10 20:45	52.4	68.4	61.1	56.6	55.1	52.4	49.7	48	46.9	45.4	43.7
13/11/10 21:00	50.9	61.2	57	54.9	53.8	52	49.4	47.4	46.1	44.9	43.4



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
13/11/10 21:15	50.6	62.8	58.5	54.6	52.9	51.2	48.9	46.9	45.3	43.2	41.8
13/11/10 21:30	50.9	65.3	59.9	54.7	52.8	51	48.9	46.3	45	43.5	42.6
13/11/10 21:45	51.7	64.8	59.7	56.7	54.8	52.1	49.5	46.5	45.2	44	43.2
13/11/10 22:00	50.9	64.3	57.6	54.9	53	51.3	49.6	48	46.5	44.7	43.3
13/11/10 22:15	52	70.3	59.1	55.9	54.4	52.4	50.5	48.8	46.8	44.5	43.8
13/11/10 22:30	52.6	64.3	60.6	57.9	56.2	52.8	50	48.3	45.9	44.4	43.8
13/11/10 22:45	52.2	65.2	60.8	57.4	54.7	51.9	49.8	48.2	47	45.4	43.4
13/11/10 23:00	53.5	72.2	61.6	57.9	56	53.5	51.2	49.1	47.3	45.4	44.5
13/11/10 23:15	51.4	64.3	58.6	56.2	54.3	51.9	49.4	47.6	45.8	43.9	42.5
13/11/10 23:30	50.5	63.6	57.8	54.8	53.6	51.3	48.1	46.4	44.9	43.3	42
13/11/10 23:45	49.8	64.6	58.2	54.4	51.9	49.3	47.6	46.4	45.5	44.3	43.1
14/11/10 00:00	48.9	62.9	57.5	52.6	51	49.1	46.8	45.3	43.9	42.6	41.2
14/11/10 00:15	49.7	65.9	57.3	54.4	52.4	49.9	47.4	45.7	44.7	43	42.1
14/11/10 00:30	50.7	74.2	58.9	53.6	51.6	49.2	47	44.8	43	41.2	40
14/11/10 00:45	50.2	63.8	59.8	55.6	53	49.4	47.4	45.6	44	42.2	40.5
14/11/10 01:00	51.2	63.4	57.7	56.2	54.9	52.1	48.8	46.6	44.4	41.3	40.3
14/11/10 01:15	48.4	62	56.9	53.8	51.8	48.3	45.3	43.4	41.6	40.4	39.7
14/11/10 01:30	48.9	71.5	56	52.8	51.1	48.1	45.6	44.2	43.3	41.9	39.9
14/11/10 01:45	50.9	65.3	60.4	56.7	54.4	50.8	47.1	44.2	42.4	39.2	38
14/11/10 02:00	47.1	65.5	55.8	51.8	49.4	46.5	44	42.5	41.6	37.5	35.7
14/11/10 02:15	48.1	62.8	58.9	52.8	50.4	47.3	44.8	43	42	40.2	36.9
14/11/10 02:30	47.4	61.5	55.3	52.1	50.6	48	44.9	42.6	41.6	39.3	36.1
14/11/10 02:45	47	59.1	54.8	51.9	50.7	47.6	43.9	42.2	41.2	39.3	37
14/11/10 03:00	47.7	62.4	55.4	52.8	51.3	48.3	44.6	42.1	40.9	38.4	35.8
14/11/10 03:15	49.1	65.2	59.2	54.5	51.5	48.1	44.9	41.4	37.8	36.2	34.7
14/11/10 03:30	47.3	64.2	56.4	52	50.1	47	44.1	41.6	39.7	37.1	36.2
14/11/10 03:45	49.8	76	59.2	53.6	52.7	48.9	46.2	44.2	42.2	38.7	37.6
14/11/10 04:00	49.1	72.9	58.3	53.6	50.7	48.3	45.7	43.5	42.3	40.4	39.6
14/11/10 04:15	50.9	65.2	60.2	55.1	53.6	50.5	48.3	47	45.9	43.8	42.8
14/11/10 04:30	50.6	62.1	58.4	55.2	53.3	50.9	48.8	47	45.6	43.5	42.3
14/11/10 04:45	51.1	71.4	57.9	55.9	53.9	51.5	49.2	47.2	45.6	43.2	42.7
14/11/10 05:00	52.1	68.8	60.2	56.5	54.8	52.1	49.9	47.9	46.6	45.1	44.1
14/11/10 05:15	50.9	64.6	59.4	55.1	53.5	51.3	48.8	46.3	44.8	42.6	41.6
14/11/10 05:30	53.9	68.2	63.8	59.2	56.7	53.5	50.6	47.7	45.3	41	39.2
14/11/10 05:45	50.4	63	57	54.7	53.5	51.3	48.7	46.4	44	40.3	39.5



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
14/11/10 06:00	53.8	66.8	63.3	59.9	56.8	53.2	50.5	48.1	45.9	42.9	41.8
14/11/10 06:15	51.3	65.2	59.1	55.5	53.7	51.4	49.6	47.7	45.6	40.6	38.9
14/11/10 06:30	53	66.4	60.8	57.1	55.3	53.3	51.3	49.6	47.8	45.7	44.8
14/11/10 06:45	53.5	66.6	62	57.8	56.1	53.5	51.6	49.9	48.6	46.6	45.8
14/11/10 07:00	53.6	70.1	62.1	58.8	56.4	53.6	50.9	48.8	47.1	44.2	42.4
14/11/10 07:15	53.3	68.2	60.1	57.5	56.2	53.9	51.6	49.9	47.9	45.1	44.2
14/11/10 07:30	54.1	77.2	62.3	58.4	56.3	53.6	51.7	50	48.8	47.4	46.2
14/11/10 07:45	53.4	66.4	60.4	58	56.5	53.4	51.5	50.2	48.3	46.8	45.8
14/11/10 08:00	53.8	69.3	61.2	58.2	56.8	54.3	52.1	49.6	46.7	44.1	42.5
14/11/10 08:15	53.9	66.4	60.8	57.5	56.4	54.4	52.7	50.9	49.4	46.6	44.9
14/11/10 08:30	54.5	65.4	61.1	58	56.5	54.7	53.3	52.1	50.9	48	47
14/11/10 08:45	66.4	83.3	77.7	71.9	68.9	64.9	60.6	55	52.6	49.2	48.5
14/11/10 09:00	55.1	73.3	65.4	58.8	56.6	54.3	52.7	51.3	49.9	47.1	45.9
14/11/10 09:15	56.1	73.7	67.2	60.5	57	55	53.5	51.8	50.2	47	45.6
14/11/10 09:30	53.9	66.8	60.6	57.3	56.1	54.4	52.9	50.9	49.6	48.1	46.6
14/11/10 09:45	54	66.9	61	58.6	57.4	54.4	52.1	50	48.3	45.7	44.4
14/11/10 10:00	53.3	66.5	60.1	56.5	55.3	53.8	52.3	50.9	49.3	47.8	45.8
14/11/10 10:15	53	66.2	59.3	57.1	55.8	53.3	51.7	50.1	48.7	46.8	45.9
14/11/10 10:30	53.6	73.2	61.4	57.4	55.8	53.6	52.1	50.3	48.8	45.8	44.8
14/11/10 10:45	53.8	72.5	61	56.5	55.4	53.8	52.2	50.7	47.7	46.2	45.7
14/11/10 11:00	52.8	64.3	59.6	56.3	55	53.3	51.7	50.3	48.9	46.5	45.2
14/11/10 11:15	53.9	69.2	60.9	57.9	56.4	54.2	52.4	50.7	48.9	46.7	45.5
14/11/10 11:30	55.7	71.1	63.4	59.6	57.7	55.5	54	52.6	51.5	49.9	48.9
14/11/10 11:45	54.1	73.2	61.1	58.4	56.8	54.3	52.6	50.6	48.6	44.7	43.2
14/11/10 12:00	53.6	63.6	59.6	57.4	55.9	54	52.6	51.1	49.1	47.1	46.4
14/11/10 12:15	53.8	68.3	60.3	57.3	56	54.2	52.7	51	49.6	48	47
14/11/10 12:30	55.8	73.6	65.5	59.4	57.7	55.2	53.6	52.5	51.2	49.5	48.3
14/11/10 12:45	54.9	71.7	62.3	58.9	57	54.7	53.4	52.2	51	47	46.1
14/11/10 13:00	54.5	68.2	62	58.8	57.1	54.8	53.1	51.2	49	47.3	46.5
14/11/10 13:15	54.7	68.1	62.3	58.9	57.2	54.7	53.2	51.6	49.5	47.5	46.6
14/11/10 13:30	54.4	67.7	61.2	58.3	56.9	55	52.9	51.4	50.3	48	47
14/11/10 13:45	54.1	66.5	62.1	58.1	56.2	54.1	52.3	51.1	49.8	47.4	46.7
14/11/10 14:00	54.4	69.9	60.6	58.1	56.9	55.1	53	51.5	50.1	47.8	46.4
14/11/10 14:15	55.1	72.8	61	58.8	57.6	55.5	54	52.3	50.3	47.1	46.5
14/11/10 14:30	54.4	71.1	63	57.3	55.8	54.4	52.8	51.4	50.1	47.8	47



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
14/11/10 14:45	54.9	68.2	61.3	58.4	57.1	55.4	53.6	52.4	51.4	49.8	49
14/11/10 15:00	54.6	70.8	62.1	57.6	56.1	54.5	53.3	52.2	51.3	50	48.9
14/11/10 15:15	55.1	65.7	61.2	58.6	57.2	55.5	54.1	52.8	51	49	47.8
14/11/10 15:30	56.5	71.6	62.8	60.2	58.6	56.7	55.2	53.9	52.5	49.9	48.7
14/11/10 15:45	56.1	68.8	62.1	59.5	58.3	56.5	55.1	53.8	52.6	50.7	49.7
14/11/10 16:00	57.7	79.6	69	59.3	57.5	55.7	54.4	53.3	52.5	51	49.7
14/11/10 16:15	56	72.8	63.5	60.3	58.3	56.1	54.2	52.9	52	50.1	48.7
14/11/10 16:30	55.6	67.1	61.9	59.4	57.9	56	54.3	52.9	51.8	48.9	47.6
14/11/10 16:45	55.2	68.7	60.8	58.5	57.3	55.7	54.4	53	51.4	49.3	48.6
14/11/10 17:00	54.2	64.8	59.9	57.1	56	54.8	53.4	52	50.8	48.3	47
14/11/10 17:15	54.6	68	62.7	58.9	56.9	54.4	52.9	51.5	50.3	47.4	46.5
14/11/10 17:30	53.9	65.7	59	57	56	54.2	53	51.8	50.3	48.1	46.1
14/11/10 17:45	54.7	66.7	61.1	57.8	56.8	55.4	53.8	52.2	50.2	46.8	46.2
14/11/10 18:00	55.4	72.8	64.4	59	57.2	55.1	53.5	51.9	49.9	47.8	46.8
14/11/10 18:15	56.3	70.4	64.1	60.4	58.6	56.3	54.7	53.2	51.4	48.5	47.2
14/11/10 18:30	55.9	69.2	63.5	59.5	57.9	56.1	54.8	53.3	50.3	47.7	46
14/11/10 18:45	55.8	70.6	63.6	59.9	58	55.8	54.3	52.9	51.7	49.6	48.2
14/11/10 19:00	54.8	64.3	60.7	57.7	56.8	55.6	54.2	52.2	51.1	48.5	47.6
14/11/10 19:15	55.5	66.3	61.1	58.6	57.4	56	54.7	53.5	52.5	51.3	49.1
14/11/10 19:30	54.9	64.8	60.2	58.2	57.2	55.3	54.1	52.6	51.3	49.8	49
14/11/10 19:45	54	69.3	60.1	57.2	56.1	54.5	52.7	51.4	50.5	49.1	48.4
14/11/10 20:00	54.6	65.4	61.3	58.5	56.9	54.5	53.2	52	51.2	50.2	49.7
14/11/10 20:15	54	70.9	60.9	57.9	56.2	54	52.5	51.2	50.5	49.4	48.7
14/11/10 20:30	56.5	70.1	64.5	61.2	59.3	56.7	54.1	52.2	51.1	49.1	48.2
14/11/10 20:45	54.2	64.6	60.4	58.2	56.7	54.5	52.8	51.5	50.3	49	48.1
14/11/10 21:00	55.9	75.3	64.4	60.6	58.3	55.2	53.6	52.3	51.2	48.7	46.3
14/11/10 21:15	55.6	67.9	63.2	59.5	57.7	55.7	54	52.8	51.5	50.4	49.8
14/11/10 21:30	54.3	65.3	60.9	57.1	56.1	54.4	53.1	52.3	51.6	50.4	49.6
14/11/10 21:45	55.5	65.7	61.7	59.1	57.8	55.9	54.2	53.2	52.4	51.2	50.5
14/11/10 22:00	56	64	60.1	58.8	58.2	57.1	55.1	53.8	52.8	51	48.9
14/11/10 22:15	56.7	74.9	63.5	59.2	58	56.7	55.3	53.7	52.5	51	50.3
14/11/10 22:30	56.4	66.2	64.8	62.4	58.6	55.8	53.9	52.3	51.2	49.3	48.6
14/11/10 22:45	54.1	64.7	59.9	57.8	55.9	54.5	53.1	51.8	50.5	49.4	48.6
14/11/10 23:00	53.8	66	59.5	57	55.5	53.9	52.8	51.9	50.9	49.5	48.8
14/11/10 23:15	54.9	67	61.5	59.4	57.9	55.5	53.5	51.2	49.8	48	46.4



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
14/11/10 23:30	54.4	68.4	61.1	57.7	56.5	54.7	52.9	51.7	50.2	48.7	47.7
14/11/10 23:45	55.8	67.6	62.2	59.1	57.7	56.2	54.9	53.4	52	50.5	49.8
15/11/10 00:00	59.6	74.8	71.3	62.5	60.3	58.5	56.9	55.1	52.8	49.8	48.5
15/11/10 00:15	57.9	68.4	66.7	63.8	61	57.3	55.2	53.2	52.3	51.1	50.7
15/11/10 00:30	59.2	68.7	66.1	64.2	62.6	59.5	57.3	54.8	53.2	51.7	51
15/11/10 00:45	57.2	66	62.9	61	59.8	58	55.9	54.2	53.1	51.7	50.8
15/11/10 01:00	56	67.8	63.9	61.2	59.4	56.8	53.5	50.8	48.6	46.4	45.3
15/11/10 01:15	61.2	70	67.8	66.3	65.2	62.5	58.4	55.7	53.2	50.3	49.5
15/11/10 01:30	58.2	68.2	65.8	63.9	62.6	58.3	55.1	52.1	50.7	48.8	47.7
15/11/10 01:45	56.4	67	64.1	61.9	60.3	56.2	53.9	51.8	49.2	48.1	47.6
15/11/10 02:00	52.8	63.2	58.9	56	54.7	53.3	51.7	50.5	49.4	48.1	47.5
15/11/10 02:15	51.5	62.9	57.8	55.2	53.6	51.8	50.3	49.2	48.2	47.4	46.8
15/11/10 02:30	54	71	62.2	58.5	56.5	53.9	51.9	50.2	49.4	48.3	47.5
15/11/10 02:45	59.6	73.9	68.2	64.6	62.5	59	57.3	55.7	54.6	52.4	51.1
15/11/10 03:00	60	73.3	66.6	64.8	63.6	60.6	57.9	54.1	52.6	51.3	50.6
15/11/10 03:15	61.4	71.8	69.8	67.2	64.6	61.1	58.5	56.7	55.1	52.7	51.8
15/11/10 03:30	60.4	71.7	68.2	66	64.4	60.5	57.6	55.4	52.8	50.9	50.1
15/11/10 03:45	60.1	71.8	67.7	65.5	64.1	61.1	57.1	52.9	50.4	48.8	48
15/11/10 04:00	53.8	69.9	61.6	58.1	56.1	53.8	52	50.6	49.2	48	47.4
15/11/10 04:15	55	74.4	62.3	59.1	57.6	55.4	53	51	49.8	47.8	46.4
15/11/10 04:30	55.6	69.7	62.6	59.3	58	55.8	54.2	52.6	50.9	48.7	47.9
15/11/10 04:45	55.9	69.9	64.3	61.6	59.4	55.5	52.9	50.8	49.4	46	44.8
15/11/10 05:00	56.2	70.1	64.2	60.2	58.7	56.5	54.5	53	51	49.4	48.4
15/11/10 05:15	56.2	69.5	64.8	61.1	59	56.3	53.6	51.6	50.2	48.6	47.1
15/11/10 05:30	56.9	70	64.5	61.3	59.9	57.5	54.9	53	50.9	47.8	46.8
15/11/10 05:45	57	72.1	67.1	60.9	59.1	56.6	54.4	52.6	50.8	48.7	47.2
15/11/10 06:00	57.3	72.2	64.8	62	60.3	57.9	55.2	53	51.3	48.9	46.4
15/11/10 06:15	57.7	77.2	65.5	62.1	60.6	57.7	55.3	53.3	51.3	46.7	45.7
15/11/10 06:30	58.1	71	66	63	61.3	58.4	56	54	52.7	49.3	47.6
15/11/10 06:45	57.7	72.2	65.8	62	60.7	58.2	55.6	53.5	51	48.7	47.1
15/11/10 07:00	55.6	68.9	62.3	60.1	58.6	56.3	53.6	51.9	50.3	48.5	47.5
15/11/10 07:15	57.1	68.6	64.8	61.7	60.1	57.7	55.2	52.8	50.6	49	47.7
15/11/10 07:30	57	68.4	63	60.9	59.9	57.9	55.5	53.6	51.9	49.8	48.7
15/11/10 07:45	56.8	69	62.7	60.7	59.5	57.6	55.5	53.6	51.7	48.9	47.8
15/11/10 08:00	56.8	71	63.7	61.1	59.7	57.4	55.1	52.9	50.9	48.8	46.8



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
15/11/10 08:15	57.3	68.4	63.5	61.6	60.4	58	55.9	54.1	52.7	49.5	48.4
15/11/10 08:30	57.6	71.4	65.1	61.6	60.1	58.1	56	53.7	52	50.1	49
15/11/10 08:45	56.8	67.6	64.1	61	59.4	57.1	55.1	53.6	52.5	51.5	51
15/11/10 09:00	57.2	67.3	64.5	61.1	59.6	57.6	55.6	54.1	53.2	50.8	49.5
15/11/10 09:15	57.4	71.3	64.1	61.1	59.8	58.1	56	53.9	52	50.1	49.3
15/11/10 09:30	56.7	70.9	63.9	60.3	59	57.1	55.2	53.7	52.6	51.2	50.3
15/11/10 09:45	57.6	69.1	65	61.8	60.4	57.8	55.9	54.1	52.4	50.2	48.6
15/11/10 10:00	57.2	67.5	63.1	60.7	59.8	58	56.1	54.2	52.3	50.3	49.3
15/11/10 10:15	57.8	71.7	66.3	62.2	60.5	57.9	55.6	53.4	51.9	50.7	49.9
15/11/10 10:30	56.6	68.7	62.8	60.2	59	57.3	55.5	53.3	51.6	49.7	48.7
15/11/10 10:45	57.2	70.2	63.6	61.5	60.1	57.6	55.5	54.1	52.4	50.7	49.2
15/11/10 11:00	57.7	69.7	65	62.2	60.8	58.2	55.6	53.8	52.4	50.7	49.8
15/11/10 11:15	58	72.7	65.4	62.1	60.7	58.4	56	54.2	52.4	49.8	48.7
15/11/10 11:30	57.9	69.8	64.7	61.9	60.5	58.4	56.4	54.7	52.9	49.9	49
15/11/10 11:45	57.9	69.5	64.3	62.1	61	59	56.3	54	52.5	49.7	47.7
15/11/10 12:00	58.6	68.1	64.9	62.5	61.4	59.4	57.3	55.4	53.8	51.9	50.1
15/11/10 12:15	60	76.9	69	63.5	61.7	59.5	57.7	55.6	54.2	52.8	51.9
15/11/10 12:30	59.3	73	68.5	63.4	61.8	59.5	57.1	55.1	52.9	51.3	50.5
15/11/10 12:45	59.3	77.2	69.1	63.2	60.8	58.3	56.1	54.2	52.2	49.6	48.4
15/11/10 13:00	57.7	72.4	67.2	61.3	59.8	57.5	55.6	54	52.5	50.6	49.9
15/11/10 13:15	58.1	67.9	65	62.3	60.9	58.7	56.6	54.5	52.9	50.7	49.5
15/11/10 13:30	57.8	68.9	65	62.2	60.5	58.3	56.1	54.1	52.8	51.1	50.5
15/11/10 13:45	57.6	71.3	64.7	61.3	59.8	58	56.2	54.7	53.7	52.6	51.9
15/11/10 14:00	57.9	71.1	64.7	61.6	60.2	58.4	56.6	55.1	53.9	52.3	51.4
15/11/10 14:15	57.3	67.1	63.6	60.9	59.7	57.9	56	54.3	53	51.2	49.8
15/11/10 14:30	58.2	67.6	64.3	61.9	60.9	59	57.1	55.1	53.6	52.2	51.6
15/11/10 14:45	58.8	71.3	65.6	62.7	61.4	59.4	57.3	55.6	54.2	52.5	51.3
15/11/10 15:00	58.1	67.5	63.6	61.6	60.4	58.6	57.1	55.7	54.2	52.2	51.1
15/11/10 15:15	58.2	77.1	65	61.9	60.6	58.4	56.6	55	54	52.4	50.9
15/11/10 15:30	58.5	70.7	65.9	62.7	61.2	58.9	56.8	55.1	53.7	52.2	51.4
15/11/10 15:45	58.3	71.9	65.8	61.9	61	58.9	56.5	54.9	53.9	52.3	51.6
15/11/10 16:00	59.5	72.1	66.5	64	62.8	59.9	57.3	55.7	54.3	52.3	51
15/11/10 16:15	58.2	69.8	64.7	61.9	60.5	58.6	56.9	55.3	54.1	53	52.1
15/11/10 16:30	58.1	68.9	65.9	61.3	60.1	58.5	56.8	55.4	54.4	52.9	52
15/11/10 16:45	58.4	71.1	65.1	61.8	60.4	58.7	57.2	56	55.1	52.6	51.6



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
15/11/10 17:00	57.8	69.2	63.1	61.1	60	58.4	56.9	55.5	54.5	53.4	52.7
15/11/10 17:15	58.3	71.1	67.7	61.8	60.1	58.1	56.6	55	54	52.4	51.4
15/11/10 17:30	57.3	69.1	63.4	60.8	59.7	58	56.1	54.4	53	51.8	50.8
15/11/10 17:45	57.2	69.2	63.4	61	59.7	57.6	55.9	54.4	53.3	51.3	50
15/11/10 18:00	58	71.9	65.7	62.1	60.6	58.1	56.4	54.5	53.1	51.8	50.9
15/11/10 18:15	57.8	73.4	66.5	61.9	59.8	57.5	55.9	54.5	53.3	51.9	51.1
15/11/10 18:30	57.3	69.1	64.3	61.4	59.9	57.6	55.7	54.2	52.9	51.2	50.7
15/11/10 18:45	55.7	64.1	60.7	58.9	57.6	56.2	54.8	53.7	53	52.1	51
15/11/10 19:00	57.9	72.2	64.4	61.3	60.1	58.2	56.4	55.1	54.1	52.9	52.3
15/11/10 19:15	58.5	73.1	66.1	62.3	60.9	58.8	56.8	54.6	53.1	51.6	50.8
15/11/10 19:30	55.8	80	63.1	59.2	57.6	55.6	54.1	52.8	51.9	50.9	50
15/11/10 19:45	58.2	75.3	65.7	62.9	61.4	58.8	55.5	53.5	52.5	51	50
15/11/10 20:00	56.6	66.6	63.8	61	59.8	57	54.6	53	52.2	50.6	49.7
15/11/10 20:15	57.5	72.5	68.2	61.4	59.1	56.6	54.6	53.1	52.1	50.8	50.1
15/11/10 20:30	57.2	69.9	64.5	62	60.4	57.2	55	53.5	52.3	51	50.2
15/11/10 20:45	55.4	70.4	64.2	59.9	57.7	54.9	53.2	52.1	51.2	49.8	49.3
15/11/10 21:00	55.1	66.6	62.3	59.1	57.6	55.3	53.3	52	51.1	49.7	49
15/11/10 21:15	58	74.2	67.6	63.5	61.3	57.4	54.3	52.1	50.6	49.2	48.6
15/11/10 21:30	55.1	69.8	64	59.6	57.1	54.7	52.9	51.6	50.6	48.9	48.3
15/11/10 21:45	55.3	66.8	63.9	60.1	57.8	55.4	53.1	51.5	50.5	49.5	48.8
15/11/10 22:00	55.2	69.8	63.1	59.8	58.5	55.9	52.4	50.7	49.7	47.8	47
15/11/10 22:15	54.7	69.6	64.7	59.6	57.6	54.1	51.6	49.3	48	46.7	46.1
15/11/10 22:30	55.6	65.8	63.6	61.1	59	55.8	53.3	50.7	49.1	46.9	46.1
15/11/10 22:45	54	69.1	62.4	59.1	57.3	54	51.5	48.8	47.5	46.4	45.9
15/11/10 23:00	54.1	65.2	61.7	59.3	57.7	54.4	51.8	49.9	48.7	44.4	43.5
15/11/10 23:15	56.2	67.6	62.5	60.6	59.1	57.5	54.7	50.1	48.6	45.8	45.1
15/11/10 23:30	55.1	68	61.9	59.6	58.3	56.6	52.5	50.2	49.1	48	47.3
15/11/10 23:45	55.9	69.6	63.8	61.8	60.5	56.1	51.4	48.5	46.9	45.3	44.3
16/11/10 00:00	53.2	70.2	61.6	57.7	56.1	53.4	50.3	48.3	47.2	46	45.2
16/11/10 00:15	53.4	69.3	61.9	58.2	56.5	53.2	50.6	48.9	47.8	46.1	45.4
16/11/10 00:30	52.9	66.6	60.8	58.4	56.2	53.2	50	48.4	47.5	46.7	45.6
16/11/10 00:45	53.3	67.5	63	58.8	56.3	52.9	49.6	47.9	46.6	44.4	43.6
16/11/10 01:00	52.6	64.6	59.9	57.8	56.5	53.4	49	47.3	46.6	45.5	44.4
16/11/10 01:15	53.7	72.3	62.1	58.8	57.2	53.9	49.9	47.4	45.9	43.8	42.9
16/11/10 01:30	53.2	63.5	60.7	58.3	56.1	53.2	50.8	49.7	49.1	47.7	46.4



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
16/11/10 01:45	53.2	66.3	61.8	58.8	56.7	53.2	49.6	48.1	47.4	46.4	45.6
16/11/10 02:00	53.1	67.6	62.6	59.1	57.1	52.2	48.8	47.4	46.7	45.9	45.4
16/11/10 02:15	53.2	69.6	62.4	58.2	56	52.9	49.6	47.7	46.9	45.3	44.5
16/11/10 02:30	52.9	66.9	62.4	58.2	55.5	51.8	49.7	48.6	47.5	46.4	45.6
16/11/10 02:45	53.5	64.5	61.2	58.3	56.9	54	51.1	49.2	47.7	46.1	44.9
16/11/10 03:00	53	65.6	61.3	58.7	56.9	53.1	49.7	46.7	44.9	43.4	42.4
16/11/10 03:15	53.6	70.6	62.5	59.2	57.1	53.4	50.2	46.7	44.8	42.6	41.8
16/11/10 03:30	54.6	64.5	62.4	60.3	58.7	55.3	51.2	48.4	46.3	43.3	42.2
16/11/10 03:45	54.3	67.8	63.8	59.9	58	54.3	50	47.3	45.5	43.7	42.7
16/11/10 04:00	53.4	69.7	62.3	57.8	55.7	53.3	51.4	49.5	47.5	44.5	43.5
16/11/10 04:15	56	74	64.1	60.6	59	56.4	53.6	51.6	49.9	48.7	48.2
16/11/10 04:30	54.5	67.3	61.7	58.6	57.1	55	52.9	50.8	49.2	47.7	46.4
16/11/10 04:45	55.3	71	63.3	59.9	58.2	55.4	53	51.1	49.6	47.9	47.3
16/11/10 05:00	56.9	73.5	64.9	61.8	59.6	56.9	54.6	52.8	50.7	48.3	47.3
16/11/10 05:15	56.8	67.8	63.9	61	59.8	57.2	55.1	53.3	51.7	50.1	49.3
16/11/10 05:30	57.8	76.4	65.2	61.6	60.1	57.7	55.1	53.1	51	49.2	48.2
16/11/10 05:45	57.2	67.5	64.4	61.3	59.9	57.6	55.7	53.9	52.2	49.8	49
16/11/10 06:00	57.3	68.6	64.2	61.9	60.4	58	55.5	53.3	51.9	49.6	48.2
16/11/10 06:15	58.1	75.6	66.5	62.4	60.6	58.2	55.8	53.8	51.8	49.1	47.2
16/11/10 06:30	58.6	71.9	65.9	62.4	61	59.2	57	55	53.9	51.9	50.3
16/11/10 06:45	57.6	73	65	62.1	60.2	57.8	55.5	53.6	52.1	49.6	48
16/11/10 07:00	58.6	79.3	66.6	62.9	61.3	58.8	56.4	54	52.1	49.1	48.4
16/11/10 07:15	60.4	91.4	67.3	62.6	60.7	58.5	56.2	54.1	52.5	50	48.6
16/11/10 07:30	57.8	69.9	63.9	61.8	60.5	58.6	56.4	54.5	53	50.6	49.5
16/11/10 07:45	59.1	72.2	66.2	62.9	61.7	59.8	57.5	55.6	54.3	53.1	52.7
16/11/10 08:00	58.1	69	65	62.3	61	58.8	56.5	54.6	53.3	51.4	50.2
16/11/10 08:15	58.1	73.3	64.7	62.3	61	58.6	56.3	54.5	53	51.3	50.2
16/11/10 08:30	57.5	73.4	64.6	61.9	60.5	58.2	55.6	53.4	51.5	49.8	48.3
16/11/10 08:45	59.3	71.2	66.4	63	61.8	60.1	57.8	55.2	53.6	51.2	49.1
16/11/10 09:00	62.5	82.8	75.1	63.7	61.6	59.6	57.2	55.1	53.6	51.5	49.5
16/11/10 09:15	58.2	69.1	65.5	62.9	61.2	58.8	56.4	54.1	52.3	50.2	48.4
16/11/10 09:30	59.5	77.7	68.3	62.9	61.2	59.2	57.2	55.2	53.3	49.9	48.7
16/11/10 09:45	58.2	71.6	64.2	62.3	61	58.8	56.9	55	53	50.7	49.8
16/11/10 10:00	58.8	69.1	65.1	62.3	61.2	59.4	57.5	55.9	54.8	53	51.9
16/11/10 10:15	58.3	69.4	64.6	62.4	61.1	58.9	56.8	55.3	54.1	51.3	49.7



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
16/11/10 10:30	58.3	69.5	64.4	61.9	60.9	59.2	57.1	55.1	53.3	51.5	50.2
16/11/10 10:45	59.2	75.9	66.2	63.1	61.5	59.5	57.6	56.1	54.8	53.1	52.2
16/11/10 11:00	58	66.1	63.3	61.5	60.6	58.9	56.9	55.1	53.5	52	50.7
16/11/10 11:15	59.3	68.6	64.8	62.9	61.8	60	58.2	56.4	54.9	52.6	51.2
16/11/10 11:30	59.6	74.6	69.1	62.6	61	59.5	57.8	56.2	54.9	52.9	51.5
16/11/10 11:45	59.5	73.1	67.5	63.2	61.8	59.6	57.8	56.3	54.7	53.3	52.6
16/11/10 12:00	60.8	72.2	66.7	64.4	63.4	61.8	59.4	57.5	55.4	53.8	51.4
16/11/10 12:15	59.9	72.5	66	63.4	62.3	60.4	58.6	57.1	56	54.5	53.5
16/11/10 12:30	59.3	70.3	65.8	63.4	62.2	59.8	57.7	56.2	55.1	53.6	52.9
16/11/10 12:45	59.3	68.1	64.8	62.7	61.6	60	58.4	56.9	55.6	54.1	52.2
16/11/10 13:00	59.3	68.2	64.2	62.6	61.8	60	58.2	56.8	55.7	54.2	53.2
16/11/10 13:15	59.1	71.4	65.6	62.6	61.4	59.4	57.9	56.6	55.4	53.5	52.4
16/11/10 13:30	59.4	76.4	65	62.3	61.2	59.7	58.5	57.2	55.9	54.3	53.7
16/11/10 13:45	59.7	70.9	65.9	63.1	61.8	60.1	58.5	57.2	56.2	55	54.1
16/11/10 14:00	60.6	73.4	69	63.6	62.3	60.4	59	58	57.1	55.6	54.3
16/11/10 14:15	60.1	70	64.9	62.9	61.8	60.4	59.4	58.4	57.7	56.8	56.1
16/11/10 14:30	59.8	73.3	67.4	63.4	62	60.1	58.3	56.7	55.1	53.3	52.4
16/11/10 14:45	59.5	70.1	65	63.1	62.1	60.1	58.2	56.8	55.8	54.2	53.1
16/11/10 15:00	59.6	70.6	65.5	63.1	62.1	60.4	58.2	56.3	54.7	53.2	52.4
16/11/10 15:15	61	70.2	65.9	64.2	63.5	62	60.1	58.5	57.1	54.8	54
16/11/10 15:30	59.4	74.3	65.5	62.9	61.5	59.8	58.3	57	55.6	54.3	52.6
16/11/10 15:45	59.5	75.9	67	63.6	61.8	59.4	57.4	56	55	54	53
16/11/10 16:00	63	80.5	70.1	68.7	67.7	62.8	58.5	56.3	55.3	53.8	53
16/11/10 16:15	58.3	69	64.1	61.3	60.3	58.9	57.6	55.9	54.8	53.2	52.2
16/11/10 16:30	59.7	72.8	66.4	62.9	61.8	60.3	58.3	57	56.2	54.6	53.9
16/11/10 16:45	61.5	75.1	69.7	66.1	64	61.5	59.6	58	56.4	54.6	53.5
16/11/10 17:00	58.7	70.4	65.6	62.8	61.2	59.2	57.1	55.7	54.5	51.7	50.9
16/11/10 17:15	59.2	73.2	65.2	63.2	61.7	59.4	57.8	56.6	55.4	54	53.2
16/11/10 17:30	59.4	73.8	68	63.1	61.5	59.4	57.6	56	54.3	52.7	52
16/11/10 17:45	60	75.2	71.3	63.2	61	58.8	57.2	55.5	54.3	52.4	51.5
16/11/10 18:00	57.4	67.4	64	60.9	59.6	57.7	56.3	54.9	53.8	51.9	50.6
16/11/10 18:15	56.9	66.5	62.9	60.5	59.2	57.4	56	54.4	53.1	51.8	51
16/11/10 18:30	58.3	85.5	64	59.9	58.5	56.6	54.4	52.7	51.6	50.6	50.1
16/11/10 18:45	57.3	72.5	65.4	61.4	59.7	57.3	55.5	54.1	53	49.3	48
16/11/10 19:00	57.6	77.4	63.5	60.7	59.4	57.8	56.3	54.7	53.1	51	50



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
16/11/10 19:15	56.7	67.4	62.6	60.2	58.8	57.1	55.6	54.3	53.1	50.7	49.8
16/11/10 19:30	56.1	67.2	63	60	58.6	56.3	54.7	53.3	52.1	50	49
16/11/10 19:45	59.1	72.3	68.4	64.2	61.4	58.8	56.6	54.7	53.3	51.6	50.9
16/11/10 20:00	56.3	69.6	63.4	60.2	58.6	56.6	55	53.4	51.8	50.4	49.4
16/11/10 20:15	57.5	70	64.2	61.6	60.2	58	56.1	54.4	53	50.9	50.4
16/11/10 20:30	57.4	70.8	67.8	61.8	59.8	56.9	54.6	53.1	51.9	50.7	49.8
16/11/10 20:45	55.6	65.9	62.4	59.9	58.1	56	54.1	52.5	51.3	49.6	49
16/11/10 21:00	56.3	70.9	66	60.2	58.5	56	53.7	52.1	51	50	48.8
16/11/10 21:15	57.5	67.3	64.8	60.9	59.7	58.1	56.4	54.8	52.1	50.3	49.4
16/11/10 21:30	58.6	71.3	66.8	62.5	60.9	58.8	57	55.1	53.5	49.7	48.8
16/11/10 21:45	60.8	82.6	66	63.9	62.6	61.2	60	58.4	55.9	49.2	47.9
16/11/10 22:00	60.5	82.3	67.4	64.8	64	61.9	57.7	55.3	52.6	50.2	49.5
16/11/10 22:15	56.9	69.9	62.8	60.5	59.5	57.6	55.5	54	52.5	49.6	48
16/11/10 22:30	58	75.3	66.6	63.5	61.1	57.9	55.3	53.1	51.9	49.9	48.7
16/11/10 22:45	59.7	68.2	65.5	63.9	63	61.3	57.2	54.9	52.9	50.9	50.3
16/11/10 23:00	61	72.5	71.1	66.9	63.5	60.4	57.4	55.5	52.4	51.3	50.8
16/11/10 23:15	60.4	76.7	67.4	65.5	63.5	61.2	58	54.9	52.6	51.4	50.7
16/11/10 23:30	63.7	80	69.6	67.9	67.4	66.1	60.5	55	52.7	50.9	50.2
16/11/10 23:45	57.5	71.8	65.4	61.3	60	58.3	55.1	53.1	52	51	50.4
17/11/10 00:00	64.1	80.1	72.5	68	67.5	64.2	61.6	56.8	53.6	51.6	50.9
17/11/10 00:15	63.4	74.2	68.6	67.1	66.3	64.9	62.3	60.8	54	49	46.8
17/11/10 00:30	63.9	75	68.6	66.9	66.1	64.8	63.6	61.4	58.2	52.7	51.1
17/11/10 00:45	54.5	71.9	63	59.8	57.2	53.9	51.4	50	49.2	48.3	47.1
17/11/10 01:00	55.2	68.6	62.8	59.8	58.1	55.6	53.4	50.4	48.9	48.2	47.7
17/11/10 01:15	55.5	64.7	62.1	60	58.4	56	53.5	52	51.4	50.8	50.2
17/11/10 01:30	55.5	72.5	65.5	61	58.9	55.2	51.4	48.6	47.5	46	45.4
17/11/10 01:45	55.3	68.4	64.3	60.5	58.3	55.2	52.5	50.2	48.3	45.8	44.9
17/11/10 02:00	52.7	71.7	63.2	57.2	55	51.7	48.8	47.6	46.9	45.8	45
17/11/10 02:15	53.7	65.5	60.8	58.7	57.2	54.2	51.5	49.5	47.5	45.5	44.8
17/11/10 02:30	53.4	64.4	62	58.7	56.6	53.6	50.4	48.6	47.7	46.2	45.4
17/11/10 02:45	51.5	63.4	59.1	56	54.4	51.3	49.4	48.1	47.2	46.3	46
17/11/10 03:00	53.5	67.6	62.2	58.2	56.2	53.6	51	48.8	47.7	46.5	45.8
17/11/10 03:15	54.6	74.7	65.8	59.1	56.4	53	49.5	47.9	46.7	45.5	44.8
17/11/10 03:30	54.3	67.6	62.5	60	57.9	54.3	51.2	48.5	46.6	45.1	44.4
17/11/10 03:45	53.7	78.9	60.3	57.7	56.1	53.3	51.3	50.1	49.1	47.9	47.1



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
17/11/10 04:00	54	65.7	60.8	58	56.6	54.6	52.6	50.8	49.3	47.5	46.5
17/11/10 04:15	53.7	64.2	60.4	58	56.2	54.1	52.2	50.7	49.5	47.9	46.7
17/11/10 04:30	54.6	69.2	64	58.7	57	54.5	52.2	50.2	48.8	47.2	46.1
17/11/10 04:45	54.8	67.4	63	58.9	57.3	55.2	53.2	51	49.5	47.2	46.2
17/11/10 05:00	56.1	70.2	63	60.6	58.7	56.2	54.4	53.1	52	50.1	49.2
17/11/10 05:15	57.5	69.4	65.2	61.9	60.6	58.2	55.4	53.2	51.3	49.3	48.5
17/11/10 05:30	57.2	71.6	64	61.5	60	57.9	55.4	53.3	51.6	49.3	48.5
17/11/10 05:45	57.4	72.7	64.3	61.9	60.4	58.1	55.6	53.5	51.9	48.9	48.2
17/11/10 06:00	61.2	84.9	71.6	66.2	63.2	59.7	57.1	54.9	53.2	51.5	50.1
17/11/10 06:15	58.6	71	65.7	62.9	61.4	59.1	56.9	54.9	53.7	51.4	50.6
17/11/10 06:30	58.9	72.2	66.1	63.3	61.6	59.1	57	55.6	54.4	52.6	52
17/11/10 06:45	58	74.3	64.2	61.9	60.7	58.8	56.6	54.7	52.9	50.4	49
17/11/10 07:00	58.2	70.8	64.3	62.2	61	58.7	56.7	55	53.6	50.6	48.7
17/11/10 07:15	59.7	73	65.8	63.3	62.1	60.1	58.4	56.8	55.3	51.8	50.8
17/11/10 07:30	59.7	75.7	66	63.1	61.8	60	58.6	57.2	55.8	52.8	51.6
17/11/10 07:45	59.8	78.4	66.8	63.3	62.1	60.3	58.3	56.8	55.6	53.5	52.6
17/11/10 08:00	59	71.3	66.3	63	61.3	59.2	57.5	56.1	54.8	53.4	52.5
17/11/10 08:15	59	77.5	65.8	62.9	61.6	59.3	57.3	55.8	53.6	51.4	50
17/11/10 08:30	58.8	72.2	65.7	63	61.8	59.7	56.9	54.7	52.9	50.8	49.4
17/11/10 08:45	57.2	70.2	63.8	61.3	60.2	57.7	55.7	54	52.1	50.4	49.4
17/11/10 09:00	57.6	72.4	65	61.5	60.1	58.1	55.9	53.7	51.9	49.9	48.7
17/11/10 09:15	58.7	74.3	66.7	62.7	61.1	59	56.9	54.5	52.5	49.6	48.1
17/11/10 09:30	58.1	71.3	64.8	62.3	60.8	58.8	56.5	54.3	51.5	49.7	48.9
17/11/10 09:45	59.1	73	67.5	63.9	61.8	59.2	57	55	52.9	50.7	48.7
17/11/10 10:00	59.3	70.2	66.5	64	62.6	60.1	57.3	54.8	52.5	50.4	49.8
17/11/10 10:15	59.1	73.4	67	63.3	61.8	59.7	57.2	54.9	52.2	48.6	47.4
17/11/10 10:30	58	71.3	65.8	62.3	60.6	58.3	56.1	54.1	51.9	48.7	47.8
17/11/10 10:45	58.6	71.4	67	63.4	61.7	59.1	56.3	53.5	51	47.8	46.7
17/11/10 11:00	60.2	77.8	71.5	64.2	61.7	59	56.7	55.1	53.7	50.8	49
17/11/10 11:15	59.3	74.7	68.8	63.7	62.1	59.3	56.4	54.2	52	49.2	48.3
17/11/10 11:30	59.8	76.1	70.3	63.7	61.7	59.2	56.3	53.7	51.7	49.2	47
17/11/10 11:45	58.9	73.6	68.3	63.6	61.3	58.8	56.2	54.3	52.7	50.3	48.5
17/11/10 12:00	59.2	70.5	66	63.4	62.1	60	57.5	55.3	53.2	49.3	48
17/11/10 12:15	59.4	77.9	69.4	63.8	61.7	58.8	56.2	54.1	51.7	50.3	49.8
17/11/10 12:30	58.7	73.7	67	62.9	61.5	59.2	56.7	54.4	52.5	48.9	48.2



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
17/11/10 12:45	57.7	68.3	64.6	61.4	59.8	58	56.3	55.1	53.9	52.5	51.8
17/11/10 13:00	58.6	71.6	66.4	63.4	61.6	58.9	56.7	54.6	52.9	50.9	49.7
17/11/10 13:15	59.1	71.5	66.8	63.4	61.9	59.6	57.1	55.4	53.9	52.5	51.6
17/11/10 13:30	58.7	71.1	65.7	63	61.5	59.2	56.9	55	53.6	51.5	50.7
17/11/10 13:45	58.2	70.4	64.9	62	60.7	59	56.7	54.8	52.9	51.4	50.7
17/11/10 14:00	58.7	72	65.5	62.5	61.1	59.1	57.3	55.6	54.1	52.3	51.2
17/11/10 14:15	59.6	71.9	64.2	62.5	61.6	60.2	58.8	57.8	57.1	55.8	55
17/11/10 14:30	58.8	69.6	64.9	62.3	61.1	59.3	57.8	56.5	54.8	52.5	51.7
17/11/10 14:45	58.4	71.5	65.9	63	61.4	58.8	56.4	54.3	52.8	51.2	50.6
17/11/10 15:00	57.9	71.2	64.5	61.8	60.4	58.3	56.6	54.7	53.4	51.8	51.1
17/11/10 15:15	58.7	68.4	64.3	62.4	61.3	59.4	57.6	55.8	54.4	52.7	52
17/11/10 15:30	59.4	75.4	67.9	63.3	61.6	59.2	57.2	55.7	54.1	51.8	50.7
17/11/10 15:45	59.3	74.9	66.3	63.1	61.7	59.3	57.6	56.3	55.2	53.7	53.1
17/11/10 16:00	60.1	70.9	67	64.1	62.3	60.4	58.6	57.1	56.1	55	54.3
17/11/10 16:15	59.5	74.3	67.7	63.8	61.8	59.1	57.3	56.2	55.2	53.2	52.1
17/11/10 16:30	59.2	73.7	65.9	63	61.6	59.5	57.9	56.5	55	53.2	52.1
17/11/10 16:45	59.4	70.7	65.8	62.8	61.6	60	58.2	56.7	55.5	53.8	52.5
17/11/10 17:00	57.9	66	62.6	61	60	58.4	57	55.9	54.9	53.5	52.8
17/11/10 17:15	57.5	69.5	63.3	61.8	60.1	58	56.1	54.7	53.6	52.4	51.6
17/11/10 17:30	58.6	76.5	68.6	63.2	60.4	57.7	55.3	53.7	52.3	51.1	50.4
17/11/10 17:45	57.8	73.3	66.1	61.8	60.3	57.9	55.7	53.9	52.9	51.9	50.7
17/11/10 18:00	57.9	71.1	65.5	62.4	60.5	58.2	55.9	54.4	53.1	52	51.4
17/11/10 18:15	57.9	75.9	64.7	61.5	59.4	57.4	55.8	54.7	53.6	52.4	51.8
17/11/10 18:30	56.3	65.4	61.9	59.9	58.8	57	55.2	53.8	52.3	50.7	49.8
17/11/10 18:45	56.6	65.8	63	60.7	59.1	57.2	55.3	53.5	52.1	50.7	50
17/11/10 19:00	57.1	68.7	63.7	61.2	59.4	57.6	56	53.8	52.7	51.4	50.6
17/11/10 19:15	56	68.8	61	59.1	58.2	56.7	54.9	53.6	52.3	50.8	50.2
17/11/10 19:30	55.9	65.6	61.7	59.2	58	56.3	54.8	53.5	52.7	51.1	50.5
17/11/10 19:45	56.1	65.5	62.9	60.2	58.7	56.5	54.7	53.1	52.2	50.8	49.6
17/11/10 20:00	55.1	67.9	61.3	58.7	57.5	55.5	53.8	52.3	51.3	50.2	49.5
17/11/10 20:15	56.1	66.4	63.4	60.8	58.7	56	54.2	53	51.8	50.6	50
17/11/10 20:30	55.3	65.2	62.2	58.3	56.9	55.4	54.1	53.2	52.4	51.4	50.7
17/11/10 20:45	57	71.9	65.3	60.5	58.9	57	55.2	53.9	53	52.1	51.2
17/11/10 21:00	56.5	71.8	63.9	60.5	58.9	56.7	54.5	53.3	52.4	51.4	50.6
17/11/10 21:15	56.4	76.9	64.2	60.5	59.3	56.7	54.2	52.8	51.9	50.8	50.2



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
17/11/10 21:30	59	75.1	67.7	62	60.4	58.8	57.7	56.4	54.2	51.9	50.8
17/11/10 21:45	59.3	68.6	65.2	62.6	61.8	60.3	58.3	56.1	54.7	52.9	51.5
17/11/10 22:00	55.7	64.4	61.5	59.5	58.3	56.6	54.2	52.7	51.9	50.6	50
17/11/10 22:15	54.8	64.9	60.2	58.1	57	55.2	53.7	52.5	51.9	51.1	50.4
17/11/10 22:30	56	68	63.8	60.6	58.7	55.9	53.9	52.6	51.3	49.5	48.9
17/11/10 22:45	55.7	66	63.7	61.2	59	55.7	53	51.3	50.3	49.4	48.8
17/11/10 23:00	54.9	63.4	59.8	58.7	58.1	56.2	53.3	51.4	50.1	49.2	48.3
17/11/10 23:15	62.4	70.4	67.8	65.8	65.2	63.8	61.8	58	53.1	50.2	49.3
17/11/10 23:30	61.6	69.4	65.7	64.8	64.3	63.2	61.2	57.4	52.4	48.8	48.2
17/11/10 23:45	61.7	84.4	68.7	65.2	64.5	63.1	55.3	50.9	49.2	48.1	47.7
18/11/10 00:00	58.6	71.7	69.3	66.4	61.1	56	51.6	49.4	48.3	47.1	46.6
18/11/10 00:15	56.8	63.4	62.3	61.4	60.5	57.5	55	52.9	51.7	50.1	49
18/11/10 00:30	54.6	66	60.8	58.6	57.3	55	53.1	51.7	50.8	49.6	48.8
18/11/10 00:45	55	68.8	62.3	58.6	57.2	55.4	53.3	52.2	51.5	50.5	50.1
18/11/10 01:00	58.9	67.3	65.4	63.6	62.9	59.9	55.7	54.3	53	51.2	50.6
18/11/10 01:15	56.3	65.3	62.1	60.1	58.7	57.2	54.9	53.2	52.1	50.8	50
18/11/10 01:30	55.9	70.6	64.9	58.9	57.4	55.6	54.1	53.1	52.3	51.2	50.5
18/11/10 01:45	54.7	65.1	61.3	58.5	56.6	54.8	53.5	52.3	51	49.6	49.2
18/11/10 02:00	54.1	70.4	61.4	58.9	56.7	54	52.5	50.7	49.6	48.7	48.3
18/11/10 02:15	55.7	73.2	66.8	60.3	57.4	53.7	51.6	50.8	50.2	49.5	48.8
18/11/10 02:30	56.5	72.7	63.7	61.2	59.4	56.6	54.2	52.2	50.8	49.1	48.6
18/11/10 02:45	54.2	66.2	61.2	58.9	57.3	54.8	52.3	50.1	49.4	47.4	46.7
18/11/10 03:00	56.1	68.3	65.9	61	58.3	55.7	53.4	51.3	49.3	47.7	46.4
18/11/10 03:15	54.8	69.2	61.3	58.8	57.3	55.2	53.1	51.7	50.7	50.1	49.6
18/11/10 03:30	57.3	81.2	66.6	59.5	57.6	55.5	54	52.9	51.9	50.6	50
18/11/10 03:45	57.1	76	64.5	60.9	59.4	57.5	54.8	53	52.2	50.7	49.6
18/11/10 04:00	55.3	68.5	62.6	59.3	57.6	55.6	53.6	52.1	51	49.8	49
18/11/10 04:15	54.6	64.9	61.1	58.8	57.5	55	52.9	51.9	51	50	49.5
18/11/10 04:30	55.3	69.8	64.6	58.9	57.3	55.2	53	51.8	50.9	49.7	49.2
18/11/10 04:45	58	74.8	67.8	63	60.1	57.1	54.9	53.2	52.1	51.1	50.1
18/11/10 05:00	57.4	73.1	65.2	61.8	59.4	57.2	55.6	54.2	53	51.4	50.3
18/11/10 05:15	56.5	68.9	63.6	60.5	59.2	56.8	54.9	53.6	52.1	50.9	50
18/11/10 05:30	59.3	75.2	66	62.4	61.2	59.7	57.9	56.6	55.6	53.7	52.8
18/11/10 05:45	58.3	72.5	65.3	62.1	60.4	58.5	56.8	55.6	54.8	53.4	52.7
18/11/10 06:00	58.7	68.1	65.2	62.5	61.1	59.1	57.3	56.1	54.5	53.4	52.8



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
18/11/10 06:15	58.4	71	66.1	62.9	61.1	58.5	56.5	54.9	53.8	52.6	52
18/11/10 06:30	58	70.6	63.9	61.4	60.2	58.7	57.1	55.4	54	52.5	51.2
18/11/10 06:45	57.1	70.7	63.9	61	59.6	57.8	55.7	53.6	51.7	49.2	46.8
18/11/10 07:00	58.7	72.2	66.7	62	60.7	59	57.4	55.5	53.6	49.7	47.9
18/11/10 07:15	57.8	70.7	65.1	61.9	60.6	58.5	56.2	53.8	51.5	47.4	46.2
18/11/10 07:30	58	74.3	65.5	62	60.3	58.3	56.6	54.8	53.2	51	48.8
18/11/10 07:45	57.4	69.8	65.1	61.5	59.8	57.8	55.9	54	52.5	48.5	47.1
18/11/10 08:00	57.9	72.6	65.4	62	60.5	58.1	56	54.1	52.3	49.5	48.3
18/11/10 08:15	58.1	75.2	64.6	62	60.8	58.8	56	53.8	52.1	50.2	48.8
18/11/10 08:30	56.9	69.1	64.5	61.4	59.6	57.5	55.1	53	51.3	49.5	48.7
18/11/10 08:45	56.6	66.4	63.9	61.4	59.5	56.9	54.8	53.2	51.5	49.2	47.7
18/11/10 09:00	56.9	70.6	63.9	61.1	59.9	57.7	55.1	53.1	51.5	49.2	48.3
18/11/10 09:15	56.4	67.2	62.5	60.5	59	56.9	55.1	53.1	51.2	48.6	47.3
18/11/10 09:30	56.5	67.5	63.3	60.9	59.8	57.3	54.6	52.5	50.4	47.7	46.1
18/11/10 09:45	58.6	73.6	66.2	62.7	61.3	58.9	56.6	54.6	52.6	50.5	48.9
18/11/10 10:00	58.2	75.3	64.3	61.9	60.8	58.8	56.8	55	52.8	50	48.4
18/11/10 10:15	59	72.7	66.6	62.9	61.2	59.4	57.5	55.4	53.4	50.9	50
18/11/10 10:30	58	71.5	64.4	62.3	60.9	58.7	56.6	54.1	52.1	50.3	49.4
18/11/10 10:45	58.4	72	67.1	62.6	60.9	58.3	56.2	54.6	53	50.4	49.1
18/11/10 11:00	59.5	76.3	68.6	63.6	61.9	59.5	56.9	54.7	53.4	51.1	49.2
18/11/10 11:15	57.3	70.9	64.1	61.1	60.1	58.1	55.9	53.4	51.3	48.7	47.2
18/11/10 11:30	58.5	71.4	66.5	62.8	61.1	58.8	56.4	54.4	52.5	49.4	47.8
18/11/10 11:45	57.6	73.4	65	61.4	59.9	57.9	56	54.1	52.1	48.8	47.6
18/11/10 12:00	58.6	70.3	65.6	63	61.6	59.2	57	54.8	52.9	51.1	50.2
18/11/10 12:15	58.5	71.5	65.3	62.6	61.2	59.1	56.9	54.8	52.6	49.2	45.8
18/11/10 12:30	57.6	67.5	63.5	61.6	60.3	58.3	56.5	54.6	52.2	49.9	48.5
18/11/10 12:45	59.8	79.6	68.5	63.3	62	59.7	57.2	54.5	52.1	50.1	49
18/11/10 13:00	58.8	74.7	66.9	62.8	61.3	59	56.7	54.7	52.6	50.9	49.6
18/11/10 13:15	57.9	79.5	64.9	62.1	60.6	58.3	55.8	53.4	51.2	48.7	47.3
18/11/10 13:30	59.2	70.9	66.2	63.1	61.8	59.9	57.8	55.9	52.5	49.1	47.7
18/11/10 13:45	58	73.1	66	62.3	60.5	58.1	56.1	53.8	51.9	48	46.7
18/11/10 14:00	59.1	70.5	65.6	63.3	62.1	59.9	57.5	55.3	53.4	50.5	49.3
18/11/10 14:15	60.8	72.9	68.1	65.8	64	61	58.7	56.9	56	54.5	53.4
18/11/10 14:30	58.9	72	67.3	63.8	61.9	59	56.8	54	52.1	49.8	48.9
18/11/10 14:45	59.1	80.8	66.7	64.5	62.3	59.1	56.3	54.3	52.9	50.8	49.8



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
18/11/10 15:00	59.9	74.3	69.8	64.7	62.4	59.5	56.8	55.1	53.5	50.9	50
18/11/10 15:15	59.4	76.6	66.4	63.4	61.9	59.7	57.7	56.1	54.2	49.8	48.7
18/11/10 15:30	60.3	78.4	68.9	63.2	61.9	59.7	58.1	57	56.1	53.9	52.5
18/11/10 15:45	59.8	77.9	67.1	63	61.5	59.6	57.4	55.8	54.3	51.5	50.8
18/11/10 16:00	58.3	70.2	65.8	62.9	61.2	59	56.4	53.8	52.1	50.4	48.7
18/11/10 16:15	57.3	69.7	64.4	61.4	60	57.8	55.4	53.9	52.6	49.6	48.7
18/11/10 16:30	57.6	73.2	63.4	61.2	59.7	57.8	56.1	54.9	53.9	52	51.2
18/11/10 16:45	57.3	73	64.2	61.8	60.1	57.6	55.6	54	52.9	51.1	49.8
18/11/10 17:00	58.1	73.3	65.3	62.2	60.8	58.6	56.4	54.5	53.5	50.8	49.6
18/11/10 17:15	58.1	74.5	66.2	62.7	60.7	58.2	55.9	54.2	52.3	50.5	49.8
18/11/10 17:30	58	72.3	66.5	62.5	60.4	58	55.9	54.5	53	50.7	50.1
18/11/10 17:45	58.3	72.2	67.1	62.8	60.5	57.9	56.1	54.8	53.6	52.3	51.8
18/11/10 18:00	57.4	68	63.8	61.4	59.9	58.1	56.1	54.1	52.5	51.3	50.4
18/11/10 18:15	57.9	71.4	65.8	62.3	60.8	58.1	55.7	53.8	52.1	49.8	49
18/11/10 18:30	58.1	70.5	65.7	63.3	61.3	58.4	56	53.8	52	50.2	49.6
18/11/10 18:45	56.9	68.3	63.4	60.5	59.2	57.5	55.6	54	52.4	50.7	50.2
18/11/10 19:00	56.6	73.5	66.1	59.8	58.2	56.3	54.5	52.8	51.5	50.3	49.4
18/11/10 19:15	57.4	71.3	64.6	61.3	60.2	57.8	55.7	54.1	53	51	49
18/11/10 19:30	55.9	66.1	61.3	59.3	58.5	56.9	54.6	52.7	51.5	50.5	50
18/11/10 19:45	56.4	68.8	62.6	60.2	58.9	57	55.1	53.6	52.3	50	49
18/11/10 20:00	57.6	69.9	63.7	61.2	60.2	57.9	56.2	54.3	52.9	50.9	50.4
18/11/10 20:15	57.7	74.3	66.5	62.8	60.3	57.4	54.9	53	52	50.9	50
18/11/10 20:30	56.4	67	61.8	60	59.1	57.2	55.1	53.5	52.1	50	49.2
18/11/10 20:45	58	70.1	62.9	61.4	60.5	58.7	56.9	55.5	54.4	52.6	51.6
18/11/10 21:00	57.6	72.7	66.5	61.9	60.4	57.4	55.1	53.2	51.6	49.2	48.2
18/11/10 21:15	60.1	75.8	69.6	64.6	62.4	59.4	57.5	56	54.5	52.7	50.7
18/11/10 21:30	57.1	72.8	63.9	60.4	59.3	57.4	55.6	54.4	53.4	51.4	50.2
18/11/10 21:45	57.1	73.8	64.7	61	59.5	57.2	55	53.2	52.1	50.3	49.8
18/11/10 22:00	56.5	73.6	64.9	60.9	59.1	56.4	53.7	52.1	50.6	49.1	48.5
18/11/10 22:15	54.9	64.7	60.9	58.8	57.4	55.5	53.5	51.8	50.7	49.4	48.8
18/11/10 22:30	56	68.3	62.8	60.4	58.7	56.4	54.5	52.7	51.3	49.5	48.8
18/11/10 22:45	55	65.8	62.7	59.2	57.7	55.3	53.3	51.8	50.6	49.3	48.5
18/11/10 23:00	55.7	66.1	64	60.4	58.8	55.7	53.3	51.5	50.4	48.6	47.8
18/11/10 23:15	54.7	71	60.8	58.7	57.4	54.9	52.5	51	49.9	47.9	46.9
18/11/10 23:30	54.8	65.4	63.1	60.1	57.9	54.6	52.2	50.3	49.3	46.8	45.6



Date /Time	L _{eq}	L _{Max}	L ₁	L ₅	L ₁₀	L ₂₅	L ₅₀	L ₇₅	L ₉₀	L ₉₉	L _{Min}
18/11/10 23:45	52.7	64.3	59	57.2	55.2	53.1	51.3	49.8	48.7	47.8	47.3
19/11/10 00:00	53.1	62.2	59.8	58.4	56	53.2	51	49.8	49	47.8	47.1
19/11/10 00:15	53.6	66.1	61.5	58.7	56.6	53.5	51.2	49.6	48.6	46.9	45.8
19/11/10 00:30	51.9	63.1	59.3	56.2	54	51.8	50.2	49.1	48.4	47.3	46.6
19/11/10 00:45	53.7	69.8	63.7	57.2	55.5	53.1	50.9	49.7	49	48	47
19/11/10 01:00	57	74.6	68.7	60.9	57.9	54.9	52.1	50.4	49.6	48.4	47.8
19/11/10 01:15	52.7	65.3	60.2	57.1	55.3	53	50.8	49.4	48.6	47.3	46.2
19/11/10 01:30	55.2	71.6	66.5	59.7	57	54.3	51.4	49.8	48.9	47.5	46.4
19/11/10 01:45	53.4	65	61.3	58	56.7	53.9	50.8	49.1	48.3	47	46.2
19/11/10 02:00	52.4	63.5	60.4	57	55.3	52.9	49.9	48.7	47.9	46.2	45.4
19/11/10 02:15	53.9	69.9	61	58.2	56.6	54.7	52	49.7	48.4	47.1	46.2
19/11/10 02:30	54.6	65.9	60.4	58.7	57	54.7	53.5	52.3	51.1	50	49.3
19/11/10 02:45	54.9	72.3	63.2	59.5	57.5	54.6	52.1	49.8	48.5	46.9	46.1
19/11/10 03:00	54.4	68.9	62.7	60	58	55	50.7	48.1	46.3	44.3	43.7
19/11/10 03:15	55.3	71	66.3	62.2	58.5	52.8	48.4	45.6	44.2	42.7	41.8
19/11/10 03:30	52.5	77.1	62	57.9	55.3	51.7	49	46.6	45.1	43.7	43.2
19/11/10 03:45	54.1	73.6	61.8	58.6	57	54.3	51.1	48.9	47.5	45.7	44.2
19/11/10 04:00	55.6	75.5	65.2	59.5	57.8	54.8	52	49.2	46.9	44.3	42.8
19/11/10 04:15	55.1	66.5	62.1	59.8	58.4	55.6	53.2	51	49.3	47.6	45.7
19/11/10 04:30	55.1	70.7	62.6	60.1	58.1	55	52.7	50.8	49.5	47.8	46.6
19/11/10 04:45	56.1	69.5	62.6	60.4	59.2	56.6	54.7	52.4	50.5	47.9	46.4
19/11/10 05:00	56.2	69	63.6	60.7	59.4	57.1	53.9	51.5	50.3	48.2	47.2
19/11/10 05:15	56.8	66.1	62.9	60.9	59.6	57.4	55.4	53.9	52.4	47.1	46.4
19/11/10 05:30	57.4	69.9	64.3	61.9	60.7	57.7	55.4	53.5	51.8	49.4	48.3
19/11/10 05:45	57.8	67.1	64	61.6	60.4	58.5	56.6	55.1	53.5	49.9	48.8
19/11/10 06:00	59.1	70.4	66.9	63.5	62	59.5	57.1	55.2	53.6	47.8	46.3
19/11/10 06:15	58.8	71	66.5	63.4	62	58.9	56.8	55.2	53.8	52.1	51.7
19/11/10 06:30	59.8	74	68.5	64.3	62.3	60	57.5	55	53.4	50.5	49.4
19/11/10 06:45	59.9	71.3	67.8	64.5	62.9	60.3	57.8	56	54.7	52.7	51.1