DAYLIGHT & SUNLIGHT REPORT

HAYES PARK WEST

SEPTEMBER 2025
DL REF: 241
REV:02

DEVELOPMENT & LIGHT

CONTENTS

1 EXECUTIVE SUMMARY

1.1 Development & Light LLP (DL) have been instructed to undertake a quantitative assessment of the daylight and sunlight effect of the current proposals for Hayes Park West, Hayes Park, Uxbridge, UB4 8FE (the site) for Shall Do Hayes Developments Ltd ('the Applicant').

1.2 This report considers the implementation of the proposed Studio Egret West architect's scheme, which can be described as the: "Partial demolition and redevelopment of the existing multi storey car park to provide new homes (Use Class C3), landscaping, car and cycle parking, and other associated works", hereafter referred to as 'the proposed development'. The report focuses on the daylight and sunlight levels within the proposed habitable rooms comprising the new accommodation.

1.3 The assessments contained within this report have been undertaken in accordance with the Building Research Establishment publication 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice' (Third Edition, published in 2022), more commonly known as 'the BRE guidelines' (Ref 1.1) and the British Standard Daylight in buildings, BS EN 17037 (Ref.1.2). The quality of light within the building has also been considered by reference to CIBSE publication LG 10 Daylighting – a guide for designers (Ref.1.3).

1.4 There is full technical analysis contained in this report. The daylight results demonstrate that 97% (226 out of 232) of habitable rooms achieve or exceed the levels of SDA recommended within the BRE guidelines and UK National Annex for residential buildings. All proposed habitable rooms on first, second and third floor will comfortably exceed the BRE recommended illuminance targets.

1.5 The overall rates of compliance are higher than those achieved in the neighbouring Hayes Park Central and Hayes Park South schemes, which were both tested under the latest version of the BRE guidelines using commensurate metrics.

1.6 When examining sunlight, the BRE guidelines and the British Standard suggest target values and good design rather than fixed numerical values, as the level of sunlight availability is not necessarily achievable within the design remit of the architect. However, it is recognised that sunlight is enjoyed within the home and the proposals have therefore evolved to ensure that sunlight availability to future residents of the proposed development is maximised where possible.

1.7 The proposed development is designed in such a way that most apartments will maintain a predominantly south-facing aspect, which is in line with the recommendations of BRE guidelines

1.8 Of the predominantly south-facing windows tested within the representative sample, the results demonstrate that 23 rooms will achieve a 'Medium' rating of over 3 hours direct sunlight access on 21 March, and 165 rooms will achieve the 'Minimum' rating of over 1.5 hours direct sunlight access on 21 March. The sun exposure results therefore demonstrate adequate to good levels of amenity to all habitable rooms, which are in-keeping with the recommendations of BRE guidelines.

1.9 For the proposed communal and private amenity areas, the overshadowing results demonstrate that residents will have access to well-sunlit space throughout the year, which is in accordance with the BRE guidelines.

1.10 Overall, the results demonstrate that the layouts have been fully optimised from an internal daylighting perspective whilst respecting other material considerations such as overheating. The proposed development ensures high levels of compliance to all habitable rooms, which follows the principles of the BRE guidelines together with the NPPG and London Plan, which acknowledge flexibility on daylighting targets when making best-use of land. The proposed development adheres to the NPPF, London Plan, and local policy DMHB 11.

2 INTRODUCTION

2.1 Hayes Park West ('the site') is located within the Charville Ward of the London Borough of Hillingdon ('the Council'), who will be the relevant Local Planning Authority for the application. The site sits within a wider former business park known as 'Hayes Park'.

2.2 The Hayes Park estate comprises a historically significant office campus in West London, situated in Hayes, and bounded by a structured, pastoral landscape. The estate is framed by the buildings known as Hayes Park North ('HPN'), Hayes Park Central ('HPC'), and Hayes Park South ('HPS'), both positioned within a broader landscape setting originally envisaged by architect Gordon Bunshaft as a modernist business park set in parkland. HPC and HPS are Grade II* listed due to their architectural and historic interest.

2.3 In recent years, the character and context of Hayes Park estate has undergone a fundamental shift from office use to residential, which following a series of planning applications is delivering 189 new homes. The relevant applications are as follows:

- Hayes Park North ('HPN') – a three-storey, early 2000s office building, was granted Prior Approval in 2022 for conversion to 64 homes (Ref: 12853/APP/2021/2202), followed by permission for external enhancements to the building (Ref: 12853/APP/2023/3720). These works are now on-site and being delivered.
- Hayes Park Central ('HPC') and Hayes Park South ('HPS') – both mid-century, listed office buildings, were granted full planning permission and listed building consent in early 2024 for conversion into 125 homes, with associated landscape enhancements (Ref: 12853/APP/2023/1492).

2.4 Hayes Park West is bound to the north and west by dense trees planting and open parkland, which is private land owned by the Church Commissioners. To the east the site is bound by HPN, and to the south by the listed HPC and HPS.

2.5 The entirety of the site and much of the surrounding land is located within the Green Belt. Beyond that, there are large areas of low-density terraced housing. There is a wide selection of parks and leisure facilities in the area, including the Hayes End Recreation Ground, Park Road Green and the Belmore Playing Fields. The nearest town centres are located at Hillingdon Heath Local Centre,

2.6 1.6km to the southwest, and at Uxbridge Road Hayes Minor Centre, 3.3km to the southeast.

2.7 This report focuses on the daylight and sunlight levels within the proposed habitable rooms comprising the new accommodation.

3 PLANNING OVERVIEW

National Planning Policy

National Planning Policy Framework (December 2024)

3.1 Paragraph 129 c in the context of "Achieving appropriate densities" in new housing developments provides that local authorities should take a flexible approach when applying guidance or policies relating to Daylight and Sunlight so long as the resulting scheme would provide acceptable living standards.

National Planning Practice Guidance (Updated July 2019)

3.2 The update to the Government's Planning Practice Guidance contains relevant paragraphs on daylight and sunlight. Paragraph 6 of the Effective Use of Land section of the NPPG (Ref ID: 66-006- 20190722) acknowledges that new development may cause an impact on daylight and sunlight levels enjoyed by neighbouring occupiers. It requires local authorities to assess whether the impact to neighbouring occupiers would be "unreasonable".

3.3 Paragraph 7 states that all developments should maintain acceptable living standards. What this means in practice, in relation to assessing appropriate levels of sunlight and daylight, will depend to some extent on the context for the development as well as its detailed design. For example in areas of high-density historic buildings, or city centre locations where tall modern buildings predominate, lower daylight and daylight and sunlight levels at some windows may be unavoidable if new developments are to be in keeping with the general form of their surroundings.

3.4 In such situations good design (such as giving careful consideration to a building's massing and layout of habitable rooms) will be necessary to help make the best use of the site and maintain acceptable living standards

Regional Planning Policy

The London Plan – The Spatial Developments Strategy For Greater London (Adopted March 2021)

3.5 Policy GG2 promotes high-density, mixed- use places that make the best use of land.

3.6 At Policy D2 'Infrastructure Requirements for Sustainable Densities', the Plan advises that to determine the optimal density of a site, consideration should be given to the site context; its connectivity and accessibility (including both PTAL and access to local services); and the capacity of surrounding infrastructure.

3.7 Under Policy D3 'Optimising Site Capacity Through the Design-Led Approach', the plan states that development design should:

> *"Enhance local context by delivering buildings and spaces that positively respond to local distinctiveness through their layouts, orientation, scale, appearance and shape, with due regard to existing and emerging street hierarchy, building types, forms and proportions."*

3.8 Under Policy D6 – Housing Quality and Standards, the plan states:

> *"The design of development should provide sufficient daylight and sunlight to new and surrounding housing that is appropriate for its context, whilst avoiding overheating, minimising overshadowing and maximising the usability of outside amenity space."*

Local Planning Policy: London Borough of Hillingdon

The London Borough of Hillingdon Local Plan Part Two (2020)

3.9 The Council will aim to minimise the impact of the loss of daylight and sunlight and unacceptable overshadowing caused by new development on habitable rooms, amenity space and public open space. The Council will also seek to ensure that the design of new development optimises the levels of daylight and sunlight. The Council will expect the impact of the development to be assessed following the methodology set out in the most recent version of the Building Research Establishments (BRE) "Site layout planning for daylight and sunlight: A guide to good practice".

3.10 Policy DMHB 11, Design of New Development, states:

> *"…B) Development proposals should not adversely impact on the amenity, daylight and sunlight of adjacent properties and open space."*

Guidance

BR209 - Building Research Establishment Guidelines: Site Layout Planning for Daylight and Sunlight 2022, A Guide to Good Practice, Third Edition

3.11 The Site Layout Planning for Daylight and Sunlight ("BRE Guidelines") provide advice on site layout planning to achieve good sunlighting and daylighting within buildings, and in the open spaces between them. It is intended for building designers, developers, consultants, and Local Planning Authorities (LPAs). It is intended to be used in conjunction with the British Standard Daylight in buildings, BS EN 17037 (Ref 1.2) and CIBSE publication LG 10 Daylighting – a guide for designers (Ref 1.3).

3.12 The advice it gives is not mandatory and should not be used as an instrument of planning policy. It states:

> *"This report is a comprehensive revision of the 2011 edition of Site layout planning for daylight and sunlight: a guide to good practice. It is purely advisory and the numerical target values within it may be varied to meet the needs of the development and its location. Appendix F explains how this can be done in a logical way, while retaining consistency with the British Standard recommendations on interior daylighting."*

3.13 Through the planning process the local authority will wish to be reassured that the construction of the new scheme will not materially harm the neighbour's daylight and sunlight beyond BRE and British Standard Guidance.

3.14 The BRE guidelines are not mandatory, though local planning authorities and planning inspectors will consider the suitability of a proposed scheme for a site within the context of BRE guidance. Consideration will be given to the urban context within which a scheme is located, and the daylight and sunlight will be one of several planning considerations which the local authority will weigh.

4 METHODOLOGY

Daylight within New Development

4.1 When it comes to assessing the quality of daylight within new accommodation, the BRE guidelines recommends that one of two approaches are adopted:

- **Illumination Method – Spatial Daylight Autonomy (SDA)**
- **Daylight Factor Method (DFM)**

4.2 For this report, the SDA method has been applied to a representative sample of habitable rooms in the proposed dwellinghouses. SDA draws upon climate data and considers a window's orientation when calculating the daylighting levels within a room. As such, the test is considered the most accurate measure of natural lighting.

4.3 We have run our specialist MBS software to deliver the daylight and sunlight tests advocated in the BRE guidelines.

4.4 The UK National Annex gives illuminance recommendations of 100 lux in bedrooms, 150 lux in living rooms and 200 lux in kitchens. These are the median illuminances, to be exceeded over at least 50% of the assessment points in the room for at least half of the daylight hours.

4.5 The SDA test requires assessment via detailed computer modelling to simulate the illuminance at calculation points within a proposed space. Internal and exterior surfaces and obstructions have been modelled including their appropriate surface reflectance. Fixtures and fittings have not been included in accordance with BRE guidelines.

4.6 The following reflectance values have been applied to the model when calculating SDA:

- Exterior ground 0.2
- Exterior walls and obstructions - 0.4
- Floors - 0.4
- Interior walls - 0.7
- Ceilings - 0.8

4.7 Glazing transmission factors, including maintenance factors, have been included in the SDA assessment. Frame factors have been applied based on the ratio of glass to overall window aperture area for the type of window to be used and applied as 0.8 throughout our model.

4.8 In accordance with BRE guidelines, where clear double glazing with a low emissivity coating is being used, a value of 0.68 diffuse transmittance has been applied throughout the model. A maintenance factor of 0.92 has been applied as well, which is recommended by the BRE for urban locations.

4.9 The calculation of illuminance (SDA) has been carried out on a grid of points on a reference plane within each room assessed. The plane has been set at 0.85m from the floor level (sometimes described as the working plane height). A band of 0.3m has been excluded from the assessment grid around the perimeter of each room in accordance with the BRE guideline's recommendations for dwellinghouses.

4.10 It can be noted that the metrics specified above are identical to those accepted by the local authority for the neighbouring Hayes Park South and Hayes Park Central sites. A summary of each 'Reflectance Value' is provided in the table at Appendix 05.

Sunlight within New Development

4.11 The BRE guidelines state that a south-facing window will, in general, receive most sunlight, while a north-facing one will only receive it on a handful of occasions (early morning and late evening in summer). East- and west-facing windows will receive sunlight only at certain times of the day. A dwelling with no main window wall within 90° of due south is likely to be perceived as insufficiently sunlit. This is usually only an issue for flats. Sensitive layout design of flats will attempt to ensure that each individual dwelling has at least one main living room which can receive a reasonable amount of sunlight. In both flats and houses, the BRE recommends that a sensible approach is to try to match internal room layout with window wall orientation. Where possible, living rooms should face the southern or western parts of the sky and kitchens towards the north or east.

4.12 For interiors, access to sunlight can be quantified. BS EN 17037 recommends that a space should receive a minimum of 1.5 hours of direct sunlight on a selected date between 1 February and 21 March with cloudless conditions. It is suggested that 21 March (equinox) be used. The medium level of recommendation is three hours and the high level of recommendation four hours. For dwellings, at least one habitable room, preferably a main living room, should meet at least the minimum criterion.

Overshadowing

4.13 The BRE Guidelines acknowledge that sunlight in the space between buildings has an important effect on the overall appearance and ambience of a development.

Sun on the Ground

4.14 The method for assessing sun on the ground is the 'sun-on-ground indicator'. The BRE suggest that the Spring Equinox (March 21) is a suitable date for the assessment.

4.15 Using specialist software, the path of the sun is tracked to determine where the sun would reach the ground and where it would not. This assessment reviews the total percentage of an area that receives at least 2 hours of direct sunlight on 21 March.

4.16 The BRE Guidelines suggest that for a garden or amenity area to appear adequately sunlit throughout the year, no more than half (50%) of the area should be prevented by buildings from receiving 2 hours of sunlight on the 21 March or the area that can receive two hours of sun on 21 March is less than 0.8 times former value. The BRE Guidelines advise that any alteration beyond these standards may be noticeable to occupants.

4.17 For proposed new private and/or public amenity space, the BRE suggest no more than half (50%) of the area should be prevented from receiving 2 hours of sunlight on the 21 March.

4.18 In addition to the March assessment, this report undertakes an additional sun-hours-on-ground test on the 21 June to establish the sunlight potential in the summer months, when each space is expected to be at maximum usage.

5 INTERNAL DAYLIGHT & SUNLIGHT AMENITY

Daylight

5.1 A full set of Spatial Daylight Autonomy (SDA) drawings are included within Appendix 02. These show the illuminance levels within each habitable room as a series of false-colour plots. The median illuminance value for each room is stated on the plans, together with the overall percentage of the room's area meeting the recommended BRE illuminance target.

5.2 A full set of tabulated Spatial Daylight Autonomy (SDA) results are also included within Appendix 03.

5.3 Table 01 below summarises SDA results for each floor.

Table 01 – Summary of SDA Results

Floor	Number of Rooms Tested	Rooms satisfying Criteria		Rooms not satisfying Criteria
		No.	%	
B01	60	59	98%	1
F00	64	59	92%	5
F01	72	72	100%	0
F02	36	36	100%	0
Total	**232**	**226**	**97%**	**6**

5.4 There is full technical analysis contained in this report. The daylight results demonstrate that 97% (226 out of 232) of habitable rooms achieve or exceed the levels of SDA recommended within the BRE guidelines and UK National Annex for residential buildings.

5.5 All proposed habitable rooms on first and second floor will comfortably exceed the BRE recommended illuminance targets.

5.6 Of the 6 rooms that transgress target illuminance values, there is 1 lounge-kitchen-diner (LKD) serving a 1-bed apartments on lower-ground level (B01) that achieves a median illuminance value of 113-lux, which is considered a minor transgression from BRE guidelines. The layout of each LKD has been optimised from a daylighting perspective, whilst still providing a generously sized and attractive space for residents.

5.7 There are a further 5 kitchen-diners (KDs) at ground level that achieve median illuminance levels that range from 84-lux to 146-lux, which are considered minor transgressions from BRE guidelines that recommend 200-lux for kitchens. Each KD overlooks the central courtyard and is attached to private amenity space, which is much sought after by residents. Furthermore, the design prioritises the separate lounges by locating them on the outward facing elevations and where the results demonstrate full (100%) compliance with the BRE recommended illuminance targets.

5.8 The overall rates of compliance are higher than those achieved in the neighbouring Hayes Park Central and Hayes Park South schemes, which were both tested under the latest version of the BRE guidelines using commensurate metrics.

5.9 Overall, the results demonstrate that all habitable rooms will provide adequate to good levels of daylight in accordance with BRE guidelines.

Sunlight

5.10 A full set of tabulated Sunlight Exposure (SE) results are included within Appendix 03.

5.11 When examining sunlight, the BRE guidelines and the British Standard suggest target values and good design rather than fixed numerical values, as the level of sunlight availability is not necessarily achievable within the design remit of the architect. However, it is recognised that sunlight is enjoyed within the home and the proposed development has therefore evolved to ensure that sunlight availability to future residents of the proposed development is maximised where possible.

5.12 A total of 326 windows serving all 232 habitable rooms throughout the proposed development have been tested for sun-exposure, including all north-facing windows. The results demonstrate that 23 rooms (10%) will achieve a 'Medium' rating of over 3 hours direct sunlight access on 21 March, and 165 rooms (71%) will achieve the 'Minimum' rating of over 1.5 hours direct sunlight access on 21 March. The sun exposure results therefore demonstrate adequate to good levels of amenity to most habitable rooms, which are in-keeping with the recommendations of BRE guidance.

Proposed Communal and Private Amenity Spaces

5.13 A total of 98 communal and private areas has been tested throughout the proposed development.

5.14 A full set of Sun Hours on Ground (SHOG) tabulated results can be found in Table 02 below. Drawings showing the location and SHOG performance of each proposed external amenity space can be found in Appendix 04.

TABLE 02 – Summary of 2 Hour Sun on Ground Results – 21 March

Location	Level	Number of Amenity Spaces Tested	Rooms satisfying Criteria		Rooms not satisfying Criteria
			No.	%	
Central Courtyard	B01	1	1	100%	0
Front Yards (1-beds)	B01	16	16	100%	0
Rear Yards (4-beds)	B01	28	19	68%	9
Front Yards (3-beds)	F00	8	8	100%	0
Communal Area	F00	1	1	100%	0
Small Balcs (3-beds)	F01	8	8	100%	0
Main Balcs (3-beds)	F02	8	8	100%	0
Upper terraces (4-beds)	F02	28	26	93%	2
Total		**98**	**87**	**89%**	**11**

5.15 The results demonstrate that 87 out of the 98 areas tested (89%) will exceed the SHOG levels recommended in the BRE guidelines in that over 50% of their area will receive at least 2 hours of sunlight on the 21 March, which is indicative of good sunlight access throughout the year.

5.16 To examine the performance of the 11 private amenity spaces that fall short of the BRE recommendations, an additional sun-hours-on-ground test was run on the 21 June to establish the sunlight potential in the summer months, when each space is expected to be at maximum usage. A full set of tabulated results can be found in Table 03 below. Drawings showing the location and SHOG performance of each proposed space can be found in Appendix 06.

TABLE 03 – Summary of 2 Hour Sun on Ground Results – 21June

Location	Level	Number of Amenity Spaces Tested	Rooms satisfying Criteria		Rooms not satisfying Criteria
			No.	%	
Central Courtyard	B01	1	1	100%	0
Front Yards (1-beds)	B01	16	16	100%	0

Rear Yards (4-beds)	B01	28	26	93%	2
Front Yards (3-beds)	F00	8	8	100%	0
Communal Area	F00	1	1	100%	0
Small Balcs (3-beds)	F01	8	8	100%	0
Main Balcs (3-beds)	F02	8	2	25%	6
Upper terraces (4-beds)	F02	28	28	100%	0
Total		**98**	**90**	**90%**	**8**

5.17 The July SHOG results demonstrate a significant improvement in sunlight access to all rear yards and upper terraces serving the 4 bed terraces, which will have excellent access to summer sunlight. The only exception is two end yards (areas A23 and A37) on level B01, which will continue to be in shade throughout the year. In each case, residents have access to well-sunlit communal space in the courtyard, or a private terrace on the upper floors, affording a choice of sun or shade.

5.18 There are 6 south-facing balconies on level F02 serving the 3-bed dwellings that experience increased shading in the summer months, despite all meeting the primary BRE sunlight requirements in March. The reason for this is the combination of the summer sun path being higher at this times of year, together with the shading effect of the projecting roof overhead. Overall, the area will still experience adequate sunlight throughout the year in accordance with BRE guidelines.

5.19 In summary, the overshadowing results demonstrate that residents will have access to well-sunlit communal and private amenity space throughout the year.

5.20 In conclusion, the results demonstrate that the layouts have been fully optimised from an internal daylighting perspective whilst respecting other material considerations such as overheating. The proposed development ensures high levels of compliance to all habitable rooms, which follows the principles of the BRE guidelines together with the NPPG and London Plan, which acknowledge flexibility on daylighting targets when making best-use of land. The proposed development adheres to the NPPF, London Plan, and local policy DMHB 11.

6 REFERENCES

Ref. 1.1

Building Research Establishment publication 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice' (Third Edition, published in 2022) - available at https://www.bre.co.uk/

[Date accessed: 15. 07.2022]

Ref. 1.2

The British Standard Daylight in buildings, BS EN 17037 - https://www.bsigroup.com/en-GB/

[Date accessed: 07.09.2022]

Ref. 1.3

CIBSE publication LG 10 Daylighting – a guide for designers - https://www.cibse.org/
[Date accessed: 07.09.2022]

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DAYLIGHT & SUNLIGHT APPENDICES

HAYES PARK WEST

SEPTEMBER 2025
DL REF: 241
REV:02

DEVELOPMENT & LIGHT

CONTENTS

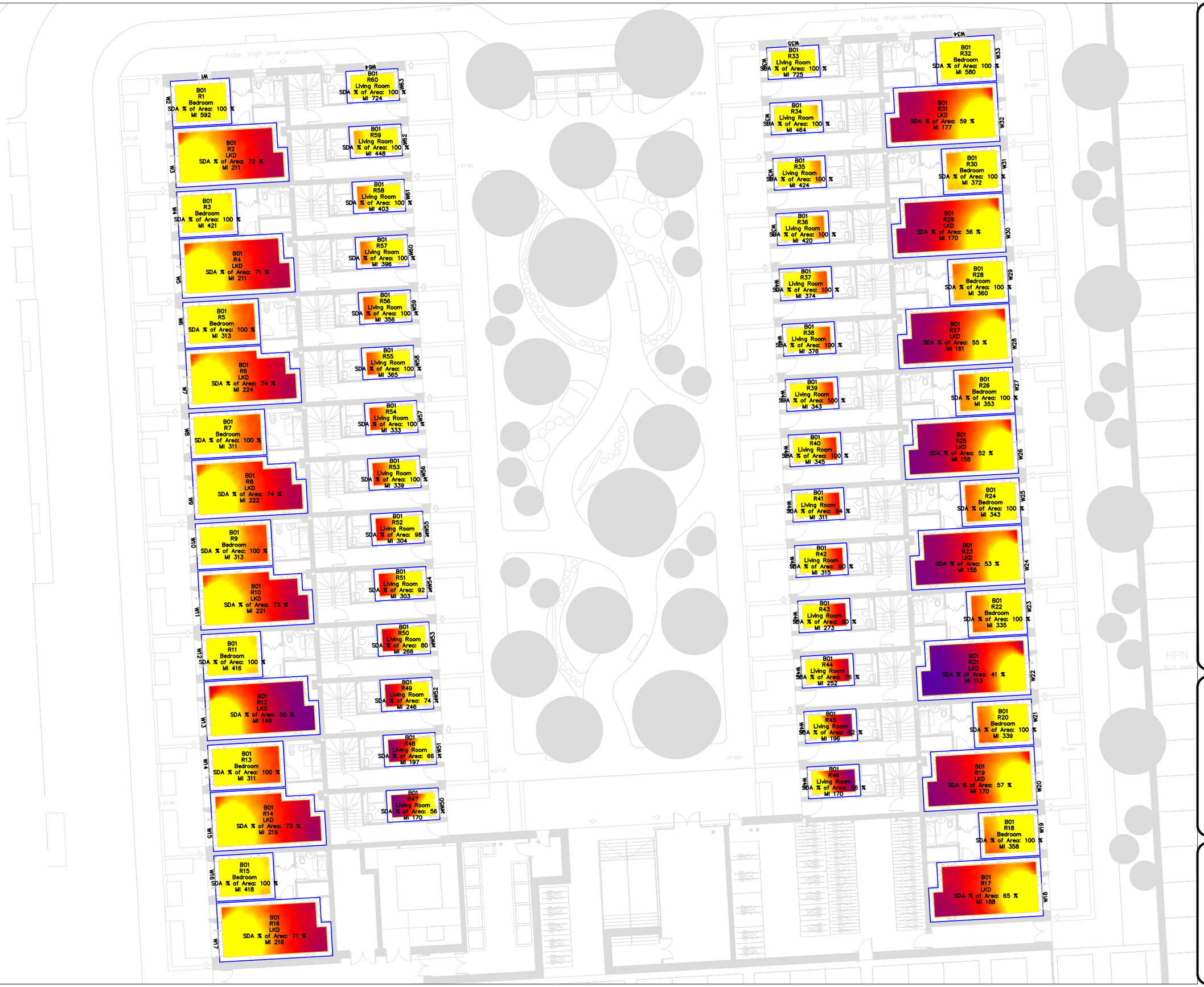
1 APPENDIX 01 – ASSUMPTIONS AND LIMITATIONS

1.1 DL have sought to create the most accurate 3D model possible based on the data available, however, a degree of tolerance should be applied.

1.2 A photogrammetric model of the site and surrounds has been procured via Z Mapping Limited. This has been used to understand the base levels and heights of the surrounding buildings and the location and size of those apertures that surround and face the site. Any change to the surrounding environment since the survey has not been captured within the assessment.

1.3 The proposed scheme has been modelled from the following information, which was supplied by Studio Egret West (SEW) architect's on the 27.06.25.

2 APPENDIX 02 – SDA DRAWINGS



SOURCES OF INFORMATION:

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PROJECT:
HAYES PARK WEST

TITLE:
SPATIAL DAYLIGHT AUTONOMY
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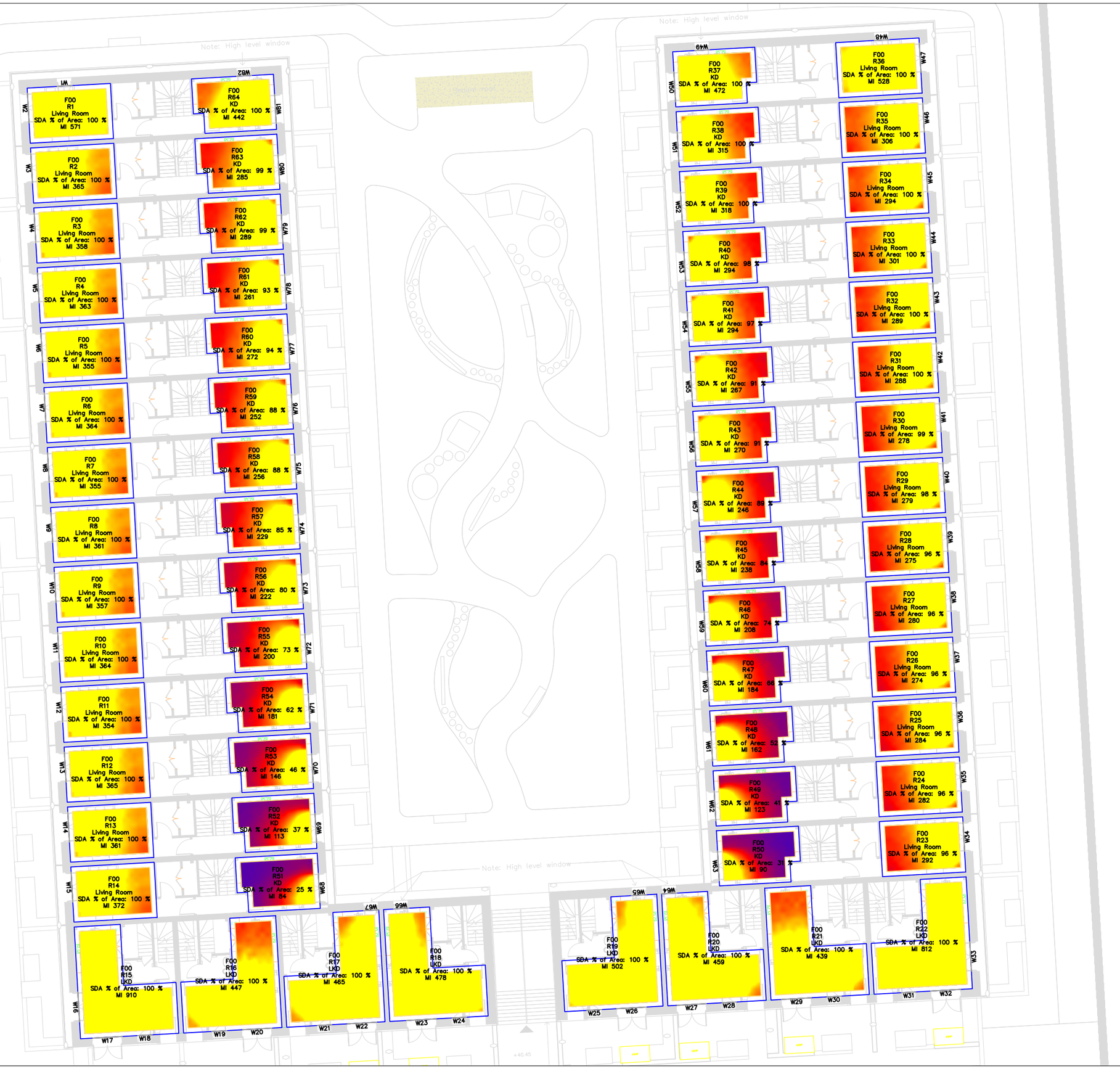
DEVELOPMENT & LIGHT



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241	04-01	503
DATE:	DRAWN:	SCALE:
SEP '25	CS-01	INDIVIDUAL

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3 APPENDIX 03 – SDA & SE TABULATED RESULTS

Project Name: DLC-241-04-01
Project No.: 1
Report Title: SDA BS En17037 Analysis - Proposed Scheme
Date of Analysis: 08/09/2025

										Criteria				
Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req Lux	Req % of Effective Area	Req % of Daylight Hours	Daylight Hours	Meets Criteria
				HPW										
B01	R1		Residential	Bedroom	12.41	8.51	592	8.51	100%	100	50%	50%	4380	YES
	R2		Residential	LKD	29.56	22.92	211	16.49	72%	150	50%	50%	4380	YES
	R3		Residential	Bedroom	12.41	8.51	421	8.51	100%	100	50%	50%	4380	YES
	R4		Residential	LKD	29.56	22.92	211	16.21	71%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	15.85	11.28	313	11.28	100%	100	50%	50%	4380	YES
	R6		Residential	LKD	28.51	21.87	224	16.26	74%	150	50%	50%	4380	YES
	R7		Residential	Bedroom	15.85	11.28	311	11.28	100%	100	50%	50%	4380	YES
	R8		Residential	LKD	28.51	21.87	222	16.17	74%	150	50%	50%	4380	YES
	R9		Residential	Bedroom	15.85	11.28	313	11.28	100%	100	50%	50%	4380	YES
	R10		Residential	LKD	28.51	21.87	221	15.98	73%	150	50%	50%	4380	YES
	R11		Residential	Bedroom	12.41	8.51	416	8.51	100%	100	50%	50%	4380	YES
	R12		Residential	LKD	29.56	22.92	149	11.46	50%	150	50%	50%	4380	YES
	R13		Residential	Bedroom	15.85	11.28	311	11.28	100%	100	50%	50%	4380	YES
	R14		Residential	LKD	28.51	21.87	219	15.89	73%	150	50%	50%	4380	YES
	R15		Residential	Bedroom	12.41	8.51	418	8.51	100%	100	50%	50%	4380	YES
	R16		Residential	LKD	29.56	22.92	216	16.21	71%	150	50%	50%	4380	YES
	R17		Residential	LKD	29.56	22.92	188	15.00	65%	150	50%	50%	4380	YES
	R18		Residential	Bedroom	12.41	8.51	358	8.51	100%	100	50%	50%	4380	YES
	R19		Residential	LKD	29.56	22.92	170	13.07	57%	150	50%	50%	4380	YES
	R20		Residential	Bedroom	12.41	8.51	339	8.51	100%	100	50%	50%	4380	YES
	R21		Residential	LKD	29.56	22.92	113	9.30	41%	150	50%	50%	4380	NO
	R22		Residential	Bedroom	12.41	8.51	335	8.51	100%	100	50%	50%	4380	YES
	R23		Residential	LKD	29.56	22.92	155	12.06	53%	150	50%	50%	4380	YES
	R24		Residential	Bedroom	12.41	8.51	343	8.51	100%	100	50%	50%	4380	YES
	R25		Residential	LKD	29.56	22.92	158	11.87	52%	150	50%	50%	4380	YES
	R26		Residential	Bedroom	12.41	8.51	353	8.51	100%	100	50%	50%	4380	YES
	R27		Residential	LKD	29.56	22.92	161	12.52	55%	150	50%	50%	4380	YES
	R28		Residential	Bedroom	12.41	8.51	360	8.51	100%	100	50%	50%	4380	YES
	R29		Residential	LKD	29.56	22.92	170	12.89	56%	150	50%	50%	4380	YES
	R30		Residential	Bedroom	12.41	8.51	372	8.51	100%	100	50%	50%	4380	YES
	R31		Residential	LKD	29.56	22.92	177	13.44	59%	150	50%	50%	4380	YES
	R32		Residential	Bedroom	12.41	8.51	580	8.51	100%	100	50%	50%	4380	YES
	R33		Residential	Living Room	7.60	4.55	725	4.55	100%	150	50%	50%	4380	YES
	R34		Residential	Living Room	7.60	4.55	464	4.55	100%	150	50%	50%	4380	YES
	R35		Residential	Living Room	7.60	4.55	424	4.55	100%	150	50%	50%	4380	YES
	R36		Residential	Living Room	7.60	4.55	420	4.55	100%	150	50%	50%	4380	YES
	R37		Residential	Living Room	7.60	4.55	374	4.55	100%	150	50%	50%	4380	YES
	R38		Residential	Living Room	7.60	4.55	376	4.55	100%	150	50%	50%	4380	YES
	R39		Residential	Living Room	7.60	4.55	343	4.55	100%	150	50%	50%	4380	YES
	R40		Residential	Living Room	7.60	4.55	345	4.55	100%	150	50%	50%	4380	YES

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	R41		Residential	Living Room	7.60	4.55	311	4.28	94%	150	50%	50%	4380	YES
	R42		Residential	Living Room	7.60	4.55	315	4.09	90%	150	50%	50%	4380	YES
	R43		Residential	Living Room	7.60	4.55	273	3.64	80%	150	50%	50%	4380	YES
	R44		Residential	Living Room	7.60	4.55	252	3.46	76%	150	50%	50%	4380	YES
	R45		Residential	Living Room	7.60	4.55	196	2.82	62%	150	50%	50%	4380	YES
	R46		Residential	Living Room	7.60	4.55	170	2.55	56%	150	50%	50%	4380	YES
	R47		Residential	Living Room	7.60	4.55	170	2.55	56%	150	50%	50%	4380	YES
	R48		Residential	Living Room	7.60	4.55	197	3.00	66%	150	50%	50%	4380	YES
	R49		Residential	Living Room	7.60	4.55	246	3.36	74%	150	50%	50%	4380	YES
	R50		Residential	Living Room	7.60	4.55	266	3.64	80%	150	50%	50%	4380	YES
	R51		Residential	Living Room	7.60	4.55	303	4.18	92%	150	50%	50%	4380	YES
	R52		Residential	Living Room	7.60	4.55	304	4.45	98%	150	50%	50%	4380	YES
	R53		Residential	Living Room	7.60	4.55	339	4.55	100%	150	50%	50%	4380	YES
	R54		Residential	Living Room	7.60	4.55	333	4.55	100%	150	50%	50%	4380	YES
	R55		Residential	Living Room	7.60	4.55	365	4.55	100%	150	50%	50%	4380	YES
	R56		Residential	Living Room	7.60	4.55	356	4.55	100%	150	50%	50%	4380	YES
	R57		Residential	Living Room	7.60	4.55	396	4.55	100%	150	50%	50%	4380	YES
	R58		Residential	Living Room	7.60	4.55	403	4.55	100%	150	50%	50%	4380	YES
	R59		Residential	Living Room	7.60	4.55	448	4.55	100%	150	50%	50%	4380	YES
	R60		Residential	Living Room	7.60	4.55	724	4.55	100%	150	50%	50%	4380	YES
F00	R1		Residential	Living Room	17.98	13.14	571	13.14	100%	150	50%	50%	4380	YES
	R2		Residential	Living Room	17.98	13.14	365	13.14	100%	150	50%	50%	4380	YES
	R3		Residential	Living Room	17.98	13.14	358	13.14	100%	150	50%	50%	4380	YES
	R4		Residential	Living Room	17.98	13.14	363	13.14	100%	150	50%	50%	4380	YES
	R5		Residential	Living Room	17.98	13.14	355	13.14	100%	150	50%	50%	4380	YES
	R6		Residential	Living Room	17.98	13.14	364	13.14	100%	150	50%	50%	4380	YES
	R7		Residential	Living Room	17.98	13.14	355	13.14	100%	150	50%	50%	4380	YES
	R8		Residential	Living Room	17.98	13.14	361	13.14	100%	150	50%	50%	4380	YES
	R9		Residential	Living Room	17.98	13.14	357	13.14	100%	150	50%	50%	4380	YES
	R10		Residential	Living Room	17.98	13.14	364	13.14	100%	150	50%	50%	4380	YES
	R11		Residential	Living Room	17.98	13.14	354	13.14	100%	150	50%	50%	4380	YES
	R12		Residential	Living Room	17.98	13.14	365	13.14	100%	150	50%	50%	4380	YES
	R13		Residential	Living Room	17.98	13.14	361	13.14	100%	150	50%	50%	4380	YES
	R14		Residential	Living Room	17.98	13.14	372	13.14	100%	150	50%	50%	4380	YES
	R15		Residential	LKD	30.60	23.07	910	23.07	100%	150	50%	50%	4380	YES
	R16		Residential	LKD	30.57	23.04	447	23.04	100%	150	50%	50%	4380	YES
	R17		Residential	LKD	30.57	23.04	465	23.04	100%	150	50%	50%	4380	YES
	R18		Residential	LKD	30.60	23.07	478	23.07	100%	150	50%	50%	4380	YES
	R19		Residential	LKD	30.57	23.04	502	23.04	100%	150	50%	50%	4380	YES
	R20		Residential	LKD	30.60	23.07	459	23.07	100%	150	50%	50%	4380	YES
	R21		Residential	LKD	30.60	23.07	439	23.07	100%	150	50%	50%	4380	YES
	R22		Residential	LKD	30.57	23.04	812	23.04	100%	150	50%	50%	4380	YES
	R23		Residential	Living Room	17.98	13.14	292	12.66	96%	150	50%	50%	4380	YES

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	R24		Residential	Living Room	17.98	13.14	282	12.66	96%	150	50%	50%	4380	YES
	R25		Residential	Living Room	17.98	13.14	284	12.66	96%	150	50%	50%	4380	YES
	R26		Residential	Living Room	17.98	13.14	274	12.66	96%	150	50%	50%	4380	YES
	R27		Residential	Living Room	17.98	13.14	280	12.66	96%	150	50%	50%	4380	YES
	R28		Residential	Living Room	17.98	13.14	275	12.66	96%	150	50%	50%	4380	YES
	R29		Residential	Living Room	17.98	13.14	279	12.85	98%	150	50%	50%	4380	YES
	R30		Residential	Living Room	17.98	13.14	278	12.95	99%	150	50%	50%	4380	YES
	R31		Residential	Living Room	17.98	13.14	288	13.14	100%	150	50%	50%	4380	YES
	R32		Residential	Living Room	18.00	13.16	289	13.16	100%	150	50%	50%	4380	YES
	R33		Residential	Living Room	18.00	13.16	301	13.16	100%	150	50%	50%	4380	YES
	R34		Residential	Living Room	18.00	13.16	294	13.16	100%	150	50%	50%	4380	YES
	R35		Residential	Living Room	18.00	13.16	306	13.16	100%	150	50%	50%	4380	YES
	R36		Residential	Living Room	18.00	13.16	528	13.16	100%	150	50%	50%	4380	YES
	R37		Residential	KD	16.89	12.10	472	12.10	100%	150	50%	50%	4380	YES
	R38		Residential	KD	16.89	12.10	315	12.10	100%	150	50%	50%	4380	YES
	R39		Residential	KD	16.89	12.10	318	12.10	100%	150	50%	50%	4380	YES
	R40		Residential	KD	16.89	12.10	294	11.84	98%	150	50%	50%	4380	YES
	R41		Residential	KD	16.89	12.10	294	11.76	97%	150	50%	50%	4380	YES
	R42		Residential	KD	16.89	12.10	267	10.98	91%	150	50%	50%	4380	YES
	R43		Residential	KD	16.89	12.10	270	11.07	91%	150	50%	50%	4380	YES
	R44		Residential	KD	16.89	12.10	246	10.72	89%	150	50%	50%	4380	YES
	R45		Residential	KD	16.89	12.10	238	10.20	84%	150	50%	50%	4380	YES
	R46		Residential	KD	16.89	12.10	208	8.99	74%	150	50%	50%	4380	YES
	R47		Residential	KD	16.89	12.10	184	8.04	66%	150	50%	50%	4380	YES
	R48		Residential	KD	16.89	12.10	162	6.31	52%	150	50%	50%	4380	YES
	R49		Residential	KD	16.89	12.10	123	5.01	41%	150	50%	50%	4380	NO
	R50		Residential	KD	16.89	12.10	90	3.72	31%	150	50%	50%	4380	NO
	R51		Residential	KD	16.89	12.10	84	3.07	25%	150	50%	50%	4380	NO
	R52		Residential	KD	16.89	12.10	113	4.43	37%	150	50%	50%	4380	NO
	R53		Residential	KD	16.89	12.10	146	5.63	46%	150	50%	50%	4380	NO
	R54		Residential	KD	16.89	12.10	181	7.50	62%	150	50%	50%	4380	YES
	R55		Residential	KD	16.89	12.10	200	8.86	73%	150	50%	50%	4380	YES
	R56		Residential	KD	16.89	12.10	222	9.63	80%	150	50%	50%	4380	YES
	R57		Residential	KD	16.89	12.10	229	10.23	85%	150	50%	50%	4380	YES
	R58		Residential	KD	16.89	12.10	256	10.65	88%	150	50%	50%	4380	YES
	R59		Residential	KD	16.89	12.10	252	10.65	88%	150	50%	50%	4380	YES
	R60		Residential	KD	16.89	12.10	272	11.42	94%	150	50%	50%	4380	YES
	R61		Residential	KD	16.89	12.10	261	11.25	93%	150	50%	50%	4380	YES
	R62		Residential	KD	16.89	12.10	289	12.02	99%	150	50%	50%	4380	YES
	R63		Residential	KD	16.89	12.10	285	12.02	99%	150	50%	50%	4380	YES
	R64		Residential	KD	16.89	12.10	442	12.10	100%	150	50%	50%	4380	YES
F01	R1		Residential	Bedroom	19.88	14.71	549	14.71	100%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	19.88	14.71	298	14.71	100%	100	50%	50%	4380	YES

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	R3		Residential	Bedroom	19.88	14.71	309	14.71	100%	100	50%	50%	4380	YES
	R4		Residential	Bedroom	19.88	14.71	296	14.71	100%	100	50%	50%	4380	YES
	R5		Residential	Bedroom	19.88	14.71	306	14.71	100%	100	50%	50%	4380	YES
	R6		Residential	Bedroom	19.88	14.71	296	14.71	100%	100	50%	50%	4380	YES
	R7		Residential	Bedroom	19.88	14.71	305	14.71	100%	100	50%	50%	4380	YES
	R8		Residential	Bedroom	19.88	14.71	299	14.71	100%	100	50%	50%	4380	YES
	R9		Residential	Bedroom	19.88	14.71	306	14.71	100%	100	50%	50%	4380	YES
	R10		Residential	Bedroom	19.88	14.71	297	14.71	100%	100	50%	50%	4380	YES
	R11		Residential	Bedroom	19.88	14.71	307	14.71	100%	100	50%	50%	4380	YES
	R12		Residential	Bedroom	19.88	14.71	299	14.71	100%	100	50%	50%	4380	YES
	R13		Residential	Bedroom	19.88	14.71	309	14.71	100%	100	50%	50%	4380	YES
	R14		Residential	Bedroom	19.88	14.71	304	14.71	100%	100	50%	50%	4380	YES
	R15		Residential	Bedroom	11.02	7.37	835	7.37	100%	100	50%	50%	4380	YES
	R16		Residential	Bedroom	11.65	7.90	352	7.90	100%	100	50%	50%	4380	YES
	R17		Residential	Bedroom	11.62	7.87	379	7.87	100%	100	50%	50%	4380	YES
	R18		Residential	Bedroom	11.04	7.39	347	7.39	100%	100	50%	50%	4380	YES
	R19		Residential	Bedroom	11.62	7.87	378	7.87	100%	100	50%	50%	4380	YES
	R20		Residential	Bedroom	11.04	7.39	339	7.39	100%	100	50%	50%	4380	YES
	R21		Residential	Bedroom	11.02	7.37	378	7.37	100%	100	50%	50%	4380	YES
	R22		Residential	Bedroom	11.64	7.89	334	7.89	100%	100	50%	50%	4380	YES
	R23		Residential	Bedroom	11.62	7.87	341	7.87	100%	100	50%	50%	4380	YES
	R24		Residential	Bedroom	11.03	7.37	382	7.37	100%	100	50%	50%	4380	YES
	R25		Residential	Bedroom	11.02	7.37	334	7.37	100%	100	50%	50%	4380	YES
	R26		Residential	Bedroom	11.64	7.88	375	7.88	100%	100	50%	50%	4380	YES
	R27		Residential	Bedroom	11.02	7.37	337	7.37	100%	100	50%	50%	4380	YES
	R28		Residential	Bedroom	11.63	7.88	358	7.88	100%	100	50%	50%	4380	YES
	R29		Residential	Bedroom	11.64	7.88	357	7.88	100%	100	50%	50%	4380	YES
	R30		Residential	Bedroom	11.02	7.37	747	7.37	100%	100	50%	50%	4380	YES
	R31		Residential	Bedroom	19.88	14.71	253	14.71	100%	100	50%	50%	4380	YES
	R32		Residential	Bedroom	19.88	14.71	258	14.71	100%	100	50%	50%	4380	YES
	R33		Residential	Bedroom	19.88	14.71	247	14.71	100%	100	50%	50%	4380	YES
	R34		Residential	Bedroom	19.88	14.71	253	14.71	100%	100	50%	50%	4380	YES
	R35		Residential	Bedroom	19.88	14.71	244	14.71	100%	100	50%	50%	4380	YES
	R36		Residential	Bedroom	19.88	14.71	254	14.71	100%	100	50%	50%	4380	YES
	R37		Residential	Bedroom	19.88	14.71	244	14.71	100%	100	50%	50%	4380	YES
	R38		Residential	Bedroom	19.88	14.71	255	14.71	100%	100	50%	50%	4380	YES
	R39		Residential	Bedroom	19.88	14.71	248	14.71	100%	100	50%	50%	4380	YES
	R40		Residential	Bedroom	19.88	14.71	257	14.71	100%	100	50%	50%	4380	YES
	R41		Residential	Bedroom	19.88	14.71	250	14.71	100%	100	50%	50%	4380	YES
	R42		Residential	Bedroom	19.88	14.71	260	14.71	100%	100	50%	50%	4380	YES
	R43		Residential	Bedroom	19.88	14.71	256	14.71	100%	100	50%	50%	4380	YES
	R44		Residential	Bedroom	19.88	14.71	534	14.71	100%	100	50%	50%	4380	YES
	R45		Residential	Bedroom	12.19	8.36	772	8.36	100%	100	50%	50%	4380	YES

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	R46		Residential	Bedroom	12.19	8.36	431	8.36	100%	100	50%	50%	4380	YES
	R47		Residential	Bedroom	12.19	8.36	436	8.36	100%	100	50%	50%	4380	YES
	R48		Residential	Bedroom	12.19	8.36	415	8.36	100%	100	50%	50%	4380	YES
	R49		Residential	Bedroom	12.19	8.36	419	8.36	100%	100	50%	50%	4380	YES
	R50		Residential	Bedroom	12.19	8.36	403	8.36	100%	100	50%	50%	4380	YES
	R51		Residential	Bedroom	12.19	8.36	405	8.36	100%	100	50%	50%	4380	YES
	R52		Residential	Bedroom	12.19	8.36	387	8.36	100%	100	50%	50%	4380	YES
	R53		Residential	Bedroom	12.19	8.36	380	8.36	100%	100	50%	50%	4380	YES
	R54		Residential	Bedroom	12.19	8.36	357	8.36	100%	100	50%	50%	4380	YES
	R55		Residential	Bedroom	12.19	8.36	333	8.36	100%	100	50%	50%	4380	YES
	R56		Residential	Bedroom	12.19	8.36	303	8.36	100%	100	50%	50%	4380	YES
	R57		Residential	Bedroom	12.19	8.36	250	8.36	100%	100	50%	50%	4380	YES
	R58		Residential	Bedroom	12.19	8.36	188	8.36	100%	100	50%	50%	4380	YES
	R59		Residential	Bedroom	12.19	8.36	173	8.36	100%	100	50%	50%	4380	YES
	R60		Residential	Bedroom	12.19	8.36	246	8.36	100%	100	50%	50%	4380	YES
	R61		Residential	Bedroom	12.19	8.36	300	8.36	100%	100	50%	50%	4380	YES
	R62		Residential	Bedroom	12.19	8.36	328	8.36	100%	100	50%	50%	4380	YES
	R63		Residential	Bedroom	12.19	8.36	343	8.36	100%	100	50%	50%	4380	YES
	R64		Residential	Bedroom	12.19	8.36	366	8.36	100%	100	50%	50%	4380	YES
	R65		Residential	Bedroom	12.19	8.36	368	8.36	100%	100	50%	50%	4380	YES
	R66		Residential	Bedroom	12.19	8.36	386	8.36	100%	100	50%	50%	4380	YES
	R67		Residential	Bedroom	12.19	8.36	378	8.36	100%	100	50%	50%	4380	YES
	R68		Residential	Bedroom	12.19	8.36	401	8.36	100%	100	50%	50%	4380	YES
	R69		Residential	Bedroom	12.19	8.36	385	8.36	100%	100	50%	50%	4380	YES
	R70		Residential	Bedroom	12.19	8.36	413	8.36	100%	100	50%	50%	4380	YES
	R71		Residential	Bedroom	12.19	8.36	401	8.36	100%	100	50%	50%	4380	YES
	R72		Residential	Bedroom	12.19	8.36	743	8.36	100%	100	50%	50%	4380	YES
F02	R1		Residential	Bedroom	15.92	11.44	493	11.44	100%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	15.92	11.44	255	11.44	100%	100	50%	50%	4380	YES
	R3		Residential	Bedroom	15.92	11.44	255	11.44	100%	100	50%	50%	4380	YES
	R4		Residential	Bedroom	15.92	11.44	256	11.44	100%	100	50%	50%	4380	YES
	R5		Residential	Bedroom	15.92	11.44	256	11.44	100%	100	50%	50%	4380	YES
	R6		Residential	Bedroom	15.92	11.44	258	11.44	100%	100	50%	50%	4380	YES
	R7		Residential	Bedroom	15.92	11.44	256	11.44	100%	100	50%	50%	4380	YES
	R8		Residential	Bedroom	15.92	11.44	257	11.44	100%	100	50%	50%	4380	YES
	R9		Residential	Bedroom	15.92	11.44	258	11.44	100%	100	50%	50%	4380	YES
	R10		Residential	Bedroom	15.92	11.44	254	11.44	100%	100	50%	50%	4380	YES
	R11		Residential	Bedroom	15.92	11.44	254	11.44	100%	100	50%	50%	4380	YES
	R12		Residential	Bedroom	15.92	11.44	256	11.44	100%	100	50%	50%	4380	YES
	R13		Residential	Bedroom	15.92	11.44	257	11.44	100%	100	50%	50%	4380	YES
	R14		Residential	Bedroom	15.92	11.44	257	11.44	100%	100	50%	50%	4380	YES
	R15		Residential	Bedroom	14.23	9.24	961	9.24	100%	100	50%	50%	4380	YES
	R16		Residential	Bedroom	14.22	9.22	514	9.22	100%	100	50%	50%	4380	YES

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										Criteria				
Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req Lux	Req % of Effective Area	Req % of Daylight Hours	Daylight Hours	Meets Criteria
	R17		Residential	Bedroom	14.23	9.23	541	9.23	100%	100	50%	50%	4380	YES
	R18		Residential	Bedroom	14.22	9.23	520	9.23	100%	100	50%	50%	4380	YES
	R19		Residential	Bedroom	14.20	9.22	525	9.22	100%	100	50%	50%	4380	YES
	R20		Residential	Bedroom	14.23	9.24	549	9.24	100%	100	50%	50%	4380	YES
	R21		Residential	Bedroom	14.22	9.23	540	9.23	100%	100	50%	50%	4380	YES
	R22		Residential	Bedroom	14.23	9.23	844	9.23	100%	100	50%	50%	4380	YES
	R23		Residential	Bedroom	15.92	11.44	224	11.44	100%	100	50%	50%	4380	YES
	R24		Residential	Bedroom	15.92	11.44	223	11.44	100%	100	50%	50%	4380	YES
	R25		Residential	Bedroom	15.92	11.44	223	11.44	100%	100	50%	50%	4380	YES
	R26		Residential	Bedroom	15.92	11.44	219	11.44	100%	100	50%	50%	4380	YES
	R27		Residential	Bedroom	15.92	11.44	220	11.44	100%	100	50%	50%	4380	YES
	R28		Residential	Bedroom	15.92	11.44	218	11.44	100%	100	50%	50%	4380	YES
	R29		Residential	Bedroom	15.92	11.44	217	11.44	100%	100	50%	50%	4380	YES
	R30		Residential	Bedroom	15.92	11.44	217	11.44	100%	100	50%	50%	4380	YES
	R31		Residential	Bedroom	15.92	11.44	219	11.44	100%	100	50%	50%	4380	YES
	R32		Residential	Bedroom	15.92	11.44	220	11.44	100%	100	50%	50%	4380	YES
	R33		Residential	Bedroom	15.92	11.44	220	11.44	100%	100	50%	50%	4380	YES
	R34		Residential	Bedroom	15.92	11.44	222	11.44	100%	100	50%	50%	4380	YES
	R35		Residential	Bedroom	15.92	11.44	223	11.44	100%	100	50%	50%	4380	YES
	R36		Residential	Bedroom	15.92	11.44	480	11.44	100%	100	50%	50%	4380	YES

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
B01	R1		Residential	Bedroom	W1	357°N	0	
					W2	267°	3.2	
							3.2	Medium
B01	R2		Residential	LKD	W3	267°	2.8	
							2.8	Minimum
B01	R3		Residential	Bedroom	W4	267°	3.2	
							3.2	Medium
B01	R4		Residential	LKD	W5	267°	2.8	
							2.8	Minimum
B01	R5		Residential	Bedroom	W6	267°	3.2	
							3.2	Medium
B01	R6		Residential	LKD	W7	267°	2.8	
							2.8	Minimum
B01	R7		Residential	Bedroom	W8	267°	3.2	
							3.2	Medium
B01	R8		Residential	LKD	W9	267°	2.8	
							2.8	Minimum
B01	R9		Residential	Bedroom	W10	267°	3.2	
							3.2	Medium
B01	R10		Residential	LKD	W11	267°	2.8	
							2.8	Minimum
B01	R11		Residential	Bedroom	W12	267°	3.2	
							3.2	Medium
B01	R12		Residential	LKD	W13	267°	2.8	
							2.8	Minimum
B01	R13		Residential	Bedroom	W14	267°	3.2	
							3.2	Medium
B01	R14		Residential	LKD	W15	267°	2.8	
							2.8	Minimum
B01	R15		Residential	Bedroom	W16	267°	3.2	
							3.2	Medium
B01	R16		Residential	LKD	W17	267°	2.8	
							2.8	Minimum
B01	R17		Residential	LKD	W18	87°N	2.4	
							2.4	Minimum
B01	R18		Residential	Bedroom	W19	87°N	2.9	
							2.9	Minimum
B01	R19		Residential	LKD	W20	87°N	2.4	
							2.4	Minimum
B01	R20		Residential	Bedroom	W21	87°N	2.9	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
							2.9	Minimum
B01	R21		Residential	LKD	W22	87°N	2.1	
							2.1	Minimum
B01	R22		Residential	Bedroom	W23	87°N	2.6	
							2.6	Minimum
B01	R23		Residential	LKD	W24	87°N	2	
							2	Minimum
B01	R24		Residential	Bedroom	W25	87°N	2.6	
							2.6	Minimum
B01	R25		Residential	LKD	W26	87°N	2	
							2	Minimum
B01	R26		Residential	Bedroom	W27	87°N	2.6	
							2.6	Minimum
B01	R27		Residential	LKD	W28	87°N	2	
							2	Minimum
B01	R28		Residential	Bedroom	W29	87°N	2.6	
							2.6	Minimum
B01	R29		Residential	LKD	W30	87°N	2	
							2	Minimum
B01	R30		Residential	Bedroom	W31	87°N	2.6	
							2.6	Minimum
B01	R31		Residential	LKD	W32	87°N	2	
							2	Minimum
B01	R32		Residential	Bedroom	W33	87°N	2.6	
					W34	357°N	0	
							2.6	Minimum
B01	R33		Residential	Living Room	W35	357°N	0	
					W36	267°	2.3	
							2.3	Minimum
B01	R34		Residential	Living Room	W37	267°	2.3	
							2.3	Minimum
B01	R35		Residential	Living Room	W38	267°	2.3	
							2.3	Minimum
B01	R36		Residential	Living Room	W39	267°	2.3	
							2.3	Minimum
B01	R37		Residential	Living Room	W40	267°	2.3	
							2.3	Minimum
B01	R38		Residential	Living Room	W41	267°	2.3	
							2.3	Minimum
B01	R39		Residential	Living Room	W42	267°	2.3	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
							2.3	Minimum
B01	R40		Residential	Living Room	W43	267°	2.3	
							2.3	Minimum
B01	R41		Residential	Living Room	W44	267°	2.3	
							2.3	Minimum
B01	R42		Residential	Living Room	W45	267°	2.3	
							2.3	Minimum
B01	R43		Residential	Living Room	W46	267°	1.2	
							1.2	Failed
B01	R44		Residential	Living Room	W47	267°	0	
							0	Failed
B01	R45		Residential	Living Room	W48	267°	0	
							0	Failed
B01	R46		Residential	Living Room	W49	267°	0	
							0	Failed
B01	R47		Residential	Living Room	W50	87°N	0	
							0	Failed
B01	R48		Residential	Living Room	W51	87°N	0	
							0	Failed
B01	R49		Residential	Living Room	W52	87°N	0	
							0	Failed
B01	R50		Residential	Living Room	W53	87°N	0	
							0	Failed
B01	R51		Residential	Living Room	W54	87°N	2.1	
							2.1	Minimum
B01	R52		Residential	Living Room	W55	87°N	2.1	
							2.1	Minimum
B01	R53		Residential	Living Room	W56	87°N	2.1	
							2.1	Minimum
B01	R54		Residential	Living Room	W57	87°N	2.1	
							2.1	Minimum
B01	R55		Residential	Living Room	W58	87°N	2.1	
							2.1	Minimum
B01	R56		Residential	Living Room	W59	87°N	2.1	
							2.1	Minimum
B01	R57		Residential	Living Room	W60	87°N	2.1	
							2.1	Minimum
B01	R58		Residential	Living Room	W61	87°N	2.1	
							2.1	Minimum
B01	R59		Residential	Living Room	W62	87°N	2.1	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
							2.1	Minimum
B01	R60		Residential	Living Room	W63	87°N	2.1	
					W64	357°N	0	
							2.1	Minimum
F00	R1		Residential	Living Room	W1	357°N	0	
					W2	267°	3.2	
							3.2	Medium
F00	R2		Residential	Living Room	W3	267°	3.2	
							3.2	Medium
F00	R3		Residential	Living Room	W4	267°	3.2	
							3.2	Medium
F00	R4		Residential	Living Room	W5	267°	3.2	
							3.2	Medium
F00	R5		Residential	Living Room	W6	267°	3.2	
							3.2	Medium
F00	R6		Residential	Living Room	W7	267°	3.2	
							3.2	Medium
F00	R7		Residential	Living Room	W8	267°	3.2	
							3.2	Medium
F00	R8		Residential	Living Room	W9	267°	3.2	
							3.2	Medium
F00	R9		Residential	Living Room	W10	267°	3.2	
							3.2	Medium
F00	R10		Residential	Living Room	W11	267°	3.2	
							3.2	Medium
F00	R11		Residential	Living Room	W12	267°	3.2	
							3.2	Medium
F00	R12		Residential	Living Room	W13	267°	3.2	
							3.2	Medium
F00	R13		Residential	Living Room	W14	267°	3.2	
							3.2	Medium
F00	R14		Residential	Living Room	W15	267°	3.2	
							3.2	Medium
F00	R15		Residential	LKD	W16	267°	3.2	
					W17	177°	0.1	
					W18	177°	0	
							3.2	Medium
F00	R16		Residential	LKD	W19	177°	0	
					W20	177°	0	
							0	Failed

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
F00	R17		Residential	LKD	W21	177°	0	
					W22	177°	0	
					W67	357°N	0	
							0	Failed
F00	R18		Residential	LKD	W23	177°	0	
					W24	177°	0	
					W66	357°N	0	
							0	Failed
F00	R19		Residential	LKD	W25	177°	0	
					W26	177°	0	
					W65	357°N	0	
							0	Failed
F00	R20		Residential	LKD	W27	177°	0	
					W28	177°	0	
					W64	357°N	0	
							0	Failed
F00	R21		Residential	LKD	W29	177°	0	
					W30	177°	0	
							0	Failed
F00	R22		Residential	LKD	W31	177°	0	
					W32	177°	0.5	
					W33	87°N	2.9	
							2.9	Minimum
F00	R23		Residential	Living Room	W34	87°N	2.9	
							2.9	Minimum
F00	R24		Residential	Living Room	W35	87°N	2.9	
							2.9	Minimum
F00	R25		Residential	Living Room	W36	87°N	2.9	
							2.9	Minimum
F00	R26		Residential	Living Room	W37	87°N	2.9	
							2.9	Minimum
F00	R27		Residential	Living Room	W38	87°N	2.9	
							2.9	Minimum
F00	R28		Residential	Living Room	W39	87°N	2.9	
							2.9	Minimum
F00	R29		Residential	Living Room	W40	87°N	2.9	
							2.9	Minimum
F00	R30		Residential	Living Room	W41	87°N	2.9	
							2.9	Minimum
F00	R31		Residential	Living Room	W42	87°N	2.9	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
							2.9	Minimum
F00	R32		Residential	Living Room	W43	87°N	2.9	
							2.9	Minimum
F00	R33		Residential	Living Room	W44	87°N	2.9	
							2.9	Minimum
F00	R34		Residential	Living Room	W45	87°N	2.9	
							2.9	Minimum
F00	R35		Residential	Living Room	W46	87°N	2.9	
							2.9	Minimum
F00	R36		Residential	Living Room	W47	87°N	2.9	
					W48	357°N	0	
							2.9	Minimum
F00	R37		Residential	KD	W49	357°N	0	
					W50	267°	2.9	
							2.9	Minimum
F00	R38		Residential	KD	W51	267°	2.5	
							2.9	Minimum
F00	R39		Residential	KD	W52	267°	2.9	
							2.9	Minimum
F00	R40		Residential	KD	W53	267°	2.5	
							2.5	Minimum
F00	R41		Residential	KD	W54	267°	2.9	
							2.9	Minimum
F00	R42		Residential	KD	W55	267°	2.5	
							2.5	Minimum
F00	R43		Residential	KD	W56	267°	2.9	
							2.9	Minimum
F00	R44		Residential	KD	W57	267°	2.5	
							2.5	Minimum
F00	R45		Residential	KD	W58	267°	2.9	
							2.9	Minimum
F00	R46		Residential	KD	W59	267°	2.5	
							2.5	Minimum
F00	R47		Residential	KD	W60	267°	2.9	
							2.9	Minimum
F00	R48		Residential	KD	W61	267°	0	
							0	Failed
F00	R49		Residential	KD	W62	267°	0	
							0	Failed
F00	R50		Residential	KD	W63	267°	0	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
							0	Failed
F00	R51		Residential	KD	W68	87°N	0	
							0	Failed
F00	R52		Residential	KD	W69	87°N	0	
							0	Failed
F00	R53		Residential	KD	W70	87°N	0	
							0	Failed
F00	R54		Residential	KD	W71	87°N	2.7	
							2.7	Minimum
F00	R55		Residential	KD	W72	87°N	2.1	
							2.1	Minimum
F00	R56		Residential	KD	W73	87°N	2.7	
							2.7	Minimum
F00	R57		Residential	KD	W74	87°N	2.1	
							2.1	Minimum
F00	R58		Residential	KD	W75	87°N	2.7	
							2.7	Minimum
F00	R59		Residential	KD	W76	87°N	2.1	
							2.1	Minimum
F00	R60		Residential	KD	W77	87°N	2.7	
							2.7	Minimum
F00	R61		Residential	KD	W78	87°N	2.1	
							2.1	Minimum
F00	R62		Residential	KD	W79	87°N	2.7	
							2.7	Minimum
F00	R63		Residential	KD	W80	87°N	2.1	
							2.1	Minimum
F00	R64		Residential	KD	W81	87°N	2.7	
					W82	357°N	0	
							2.7	Minimum
F01	R1		Residential	Bedroom	W1	357°N	0	
					W2	267°	2.4	
					W3	267°	2.4	
							2.4	Minimum
F01	R2		Residential	Bedroom	W4	267°	2.4	
					W5	267°	2	
							2.4	Minimum
F01	R3		Residential	Bedroom	W6	267°	2.4	
					W7	267°	2.4	
							2.4	Minimum

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
F01	R4		Residential	Bedroom	W8	267°	2.4	
					W9	267°	2	
							2.4	Minimum
F01	R5		Residential	Bedroom	W10	267°	2.4	
					W11	267°	2.4	
							2.4	Minimum
F01	R6		Residential	Bedroom	W12	267°	2.4	
					W13	267°	2	
							2.4	Minimum
F01	R7		Residential	Bedroom	W14	267°	2.4	
					W15	267°	2.4	
							2.4	Minimum
F01	R8		Residential	Bedroom	W16	267°	2.4	
					W17	267°	2	
							2.4	Minimum
F01	R9		Residential	Bedroom	W18	267°	2.4	
					W19	267°	2.4	
							2.4	Minimum
F01	R10		Residential	Bedroom	W20	267°	2.4	
					W21	267°	2	
							2.4	Minimum
F01	R11		Residential	Bedroom	W22	267°	2.4	
					W23	267°	2.4	
							2.4	Minimum
F01	R12		Residential	Bedroom	W24	267°	2.4	
					W25	267°	2	
							2.4	Minimum
F01	R13		Residential	Bedroom	W26	267°	2.4	
					W27	267°	2.4	
							2.4	Minimum
F01	R14		Residential	Bedroom	W28	267°	2.4	
					W29	267°	2	
							2.4	Minimum
F01	R15		Residential	Bedroom	W30	177°	0	
					W150	267°	2.4	
							2.4	Minimum
F01	R16		Residential	Bedroom	W31	177°	0	
							0	Failed
F01	R17		Residential	Bedroom	W32	177°	0	
							0	Failed

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
F01	R18		Residential	Bedroom	W33	177°	0	
							0	Failed
F01	R19		Residential	Bedroom	W34	177°	0	
							0	Failed
F01	R20		Residential	Bedroom	W35	177°	0	
							0	Failed
F01	R21		Residential	Bedroom	W36	177°	0	
							0	Failed
F01	R22		Residential	Bedroom	W37	177°	0	
							0	Failed
F01	R23		Residential	Bedroom	W38	177°	0	
							0	Failed
F01	R24		Residential	Bedroom	W39	177°	0	
							0	Failed
F01	R25		Residential	Bedroom	W40	177°	0	
							0	Failed
F01	R26		Residential	Bedroom	W41	177°	0	
							0	Failed
F01	R27		Residential	Bedroom	W42	177°	0	
							0	Failed
F01	R28		Residential	Bedroom	W43	177°	0	
							0	Failed
F01	R29		Residential	Bedroom	W44	177°	0	
							0	Failed
F01	R30		Residential	Bedroom	W45	177°	0	
					W46	87°N	1.9	
							1.9	Minimum
F01	R31		Residential	Bedroom	W47	87°N	1.5	
					W48	87°N	1.9	
							1.9	Minimum
F01	R32		Residential	Bedroom	W49	87°N	1.9	
					W50	87°N	1.9	
							1.9	Minimum
F01	R33		Residential	Bedroom	W51	87°N	1.5	
					W52	87°N	1.9	
							1.9	Minimum
F01	R34		Residential	Bedroom	W53	87°N	1.9	
					W54	87°N	1.9	
							1.9	Minimum
F01	R35		Residential	Bedroom	W55	87°N	1.5	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
					W56	87°N	1.9	
							1.9	Minimum
F01	R36		Residential	Bedroom	W57	87°N	1.9	
					W58	87°N	1.9	
							1.9	Minimum
F01	R37		Residential	Bedroom	W59	87°N	1.5	
					W60	87°N	1.9	
							1.9	Minimum
F01	R38		Residential	Bedroom	W61	87°N	1.9	
					W62	87°N	1.9	
							1.9	Minimum
F01	R39		Residential	Bedroom	W63	87°N	1.5	
					W64	87°N	1.9	
							1.9	Minimum
F01	R40		Residential	Bedroom	W65	87°N	1.9	
					W66	87°N	1.9	
							1.9	Minimum
F01	R41		Residential	Bedroom	W67	87°N	1.5	
					W68	87°N	1.9	
							1.9	Minimum
F01	R42		Residential	Bedroom	W69	87°N	1.9	
					W70	87°N	1.9	
							1.9	Minimum
F01	R43		Residential	Bedroom	W71	87°N	1.5	
					W72	87°N	1.9	
							1.9	Minimum
F01	R44		Residential	Bedroom	W73	87°N	1.9	
					W74	87°N	1.9	
					W75	357°N	0	
							1.9	Minimum
F01	R45		Residential	Bedroom	W76	357°N	0	
					W77	267°	2.4	
					W78	267°	2.4	
							2.4	Minimum
F01	R46		Residential	Bedroom	W79	267°	2.4	
					W80	267°	2	
							2.4	Minimum
F01	R47		Residential	Bedroom	W81	267°	2.4	
					W82	267°	2.4	
							2.4	Minimum

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
F01	R48		Residential	Bedroom	W83	267°	2.4	
					W84	267°	2	
							2.4	Minimum
F01	R49		Residential	Bedroom	W85	267°	2.4	
					W86	267°	2.4	
							2.4	Minimum
F01	R50		Residential	Bedroom	W87	267°	2.4	
					W88	267°	2	
							2.4	Minimum
F01	R51		Residential	Bedroom	W89	267°	2.4	
					W90	267°	2.4	
							2.4	Minimum
F01	R52		Residential	Bedroom	W91	267°	2.4	
					W92	267°	2	
							2.4	Minimum
F01	R53		Residential	Bedroom	W93	267°	2.4	
					W94	267°	2.4	
							2.4	Minimum
F01	R54		Residential	Bedroom	W95	267°	2.4	
					W96	267°	2	
							2.4	Minimum
F01	R55		Residential	Bedroom	W97	267°	2.4	
					W98	267°	2.4	
							2.4	Minimum
F01	R56		Residential	Bedroom	W99	267°	2.4	
					W100	267°	2	
							2.4	Minimum
F01	R57		Residential	Bedroom	W101	267°	1	
					W102	267°	0	
							1	Failed
F01	R58		Residential	Bedroom	W103	267°	0	
					W104	267°	0	
							0	Failed
F01	R59		Residential	Bedroom	W105	87°N	0	
					W106	87°N	0	
							0	Failed
F01	R60		Residential	Bedroom	W107	87°N	0	
					W108	87°N	0	
							0	Failed
F01	R61		Residential	Bedroom	W109	87°N	1.4	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
					W110	87°N	1.9	
							1.9	Minimum
F01	R62		Residential	Bedroom	W111	87°N	1.9	
					W112	87°N	1.9	
							1.9	Minimum
F01	R63		Residential	Bedroom	W113	87°N	1.5	
					W114	87°N	1.9	
							1.9	Minimum
F01	R64		Residential	Bedroom	W115	87°N	1.9	
					W116	87°N	1.9	
							1.9	Minimum
F01	R65		Residential	Bedroom	W117	87°N	1.5	
					W118	87°N	1.9	
							1.9	Minimum
F01	R66		Residential	Bedroom	W119	87°N	1.9	
					W120	87°N	1.9	
							1.9	Minimum
F01	R67		Residential	Bedroom	W121	87°N	1.5	
					W122	87°N	1.9	
							1.9	Minimum
F01	R68		Residential	Bedroom	W123	87°N	1.9	
					W124	87°N	1.9	
							1.9	Minimum
F01	R69		Residential	Bedroom	W125	87°N	1.5	
					W126	87°N	1.9	
							1.9	Minimum
F01	R70		Residential	Bedroom	W127	87°N	1.9	
					W128	87°N	1.9	
							1.9	Minimum
F01	R71		Residential	Bedroom	W129	87°N	1.5	
					W130	87°N	1.9	
							1.9	Minimum
F01	R72		Residential	Bedroom	W131	87°N	1.9	
					W132	87°N	1.9	
					W133	357°N	0	
							1.9	Minimum
F02	R1		Residential	Bedroom	W1	357°N	0	
					W2	267°	2.4	
							2.4	Minimum
F02	R2		Residential	Bedroom	W3	267°	2.4	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
							2.4	Minimum
F02	R3		Residential	Bedroom	W4	267°	2.4	
							2.4	Minimum
F02	R4		Residential	Bedroom	W5	267°	2.4	
							2.4	Minimum
F02	R5		Residential	Bedroom	W6	267°	2.4	
							2.4	Minimum
F02	R6		Residential	Bedroom	W7	267°	2.4	
							2.4	Minimum
F02	R7		Residential	Bedroom	W8	267°	2.4	
							2.4	Minimum
F02	R8		Residential	Bedroom	W9	267°	2.4	
							2.4	Minimum
F02	R9		Residential	Bedroom	W10	267°	2.4	
							2.4	Minimum
F02	R10		Residential	Bedroom	W11	267°	2.4	
							2.4	Minimum
F02	R11		Residential	Bedroom	W12	267°	2.4	
							2.4	Minimum
F02	R12		Residential	Bedroom	W13	267°	2.4	
							2.4	Minimum
F02	R13		Residential	Bedroom	W14	267°	2.4	
							2.4	Minimum
F02	R14		Residential	Bedroom	W15	267°	2.4	
							2.4	Minimum
F02	R15		Residential	Bedroom	W16	177°	0.3	
					W46	267°	2.4	
							2.4	Minimum
F02	R16		Residential	Bedroom	W17	177°	0	
					W40	357°N	0	
							0	Failed
F02	R17		Residential	Bedroom	W18	177°	0	
					W41	357°N	0	
							0	Failed
F02	R18		Residential	Bedroom	W19	177°	0	
					W42	357°N	0	
							0	Failed
F02	R19		Residential	Bedroom	W20	177°	0	
					W43	357°N	0	
							0	Failed

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating
F02	R20		Residential	Bedroom	W21	177°	0	
					W44	357°N	0	
							0	Failed
F02	R21		Residential	Bedroom	W22	177°	0	
					W45	357°N	0	
							0	Failed
F02	R22		Residential	Bedroom	W23	177°	0.6	
					W47	87°N	1.9	
							1.9	Minimum
F02	R23		Residential	Bedroom	W24	87°N	1.9	
							1.9	Minimum
F02	R24		Residential	Bedroom	W25	87°N	1.9	
							1.9	Minimum
F02	R25		Residential	Bedroom	W26	87°N	1.9	
							1.9	Minimum
F02	R26		Residential	Bedroom	W27	87°N	1.9	
							1.9	Minimum
F02	R27		Residential	Bedroom	W28	87°N	1.9	
							1.9	Minimum
F02	R28		Residential	Bedroom	W29	87°N	1.9	
							1.9	Minimum
F02	R29		Residential	Bedroom	W30	87°N	1.9	
							1.9	Minimum
F02	R30		Residential	Bedroom	W31	87°N	1.9	
							1.9	Minimum
F02	R31		Residential	Bedroom	W32	87°N	1.9	
							1.9	Minimum
F02	R32		Residential	Bedroom	W33	87°N	1.9	
							1.9	Minimum
F02	R33		Residential	Bedroom	W34	87°N	1.9	
							1.9	Minimum
F02	R34		Residential	Bedroom	W35	87°N	1.9	
							1.9	Minimum
F02	R35		Residential	Bedroom	W36	87°N	1.9	
							1.9	Minimum
F02	R36		Residential	Bedroom	W37	87°N	1.9	
					W38	357°N	0	
							1.9	Minimum

4 APPENDIX 04 – SUN HOURS ON GROUND (SHOG) RESULTS

21 March Plots