

**Morrisons, 43-67 High Street,
Yiewsley, UB7 7QQ**

**Daylight, Sunlight and
Overshadowing Assessment**

Harbourside Investments Ltd and WM Morrison
Supermarkets PLC

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1.0

Introduction

1.1

This report considers the effects of the proposed development at the Morrisons site, 43-67 High St, Yiewsley, UB7 7QQ, on the levels of daylight and sunlight received by the neighbouring residential accommodation, as well as the levels of overshadowing to the neighbouring amenity spaces. It also considers the levels of natural light that will be experienced within the proposed residential units in the development itself, as well as the levels of sunlight and shadow that will be received by its proposed amenity spaces. The assessment has been prepared on behalf of Harbourside Investments Ltd and WM Morrison Supermarkets PLC.

1.2

The proposed development comprises the demolition of the existing Morrisons supermarket building and redevelopment of the site to provide a replacement Morrisons foodstore, 144 residential units in a part 4, part 5, part 6, part 7 storey development plus amenity spaces and associated facilities.

1.3

The quantitative assessment has been undertaken in accordance with the guidelines set out in the Building Research Establishment (BRE) report “Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice” (October 2011). The Guide is intended to be advisory and does not contain mandatory standards. The introduction states:

“The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design. In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre, or in an area with modern high rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings.”

1.4

The BRE guide is based on a suburban two-storey model of development and must be treated with flexibility within fast-growing town centre locations such as West Drayton, especially given the arrival of Crossrail and ambitious regeneration plans of Hillingdon Council. As a result, the wider West Drayton area is experiencing growth in the number of large-scale residential developments. The daylight, sunlight and overshadowing results for the Morrisons scheme need to be considered in this context.

1.5

This assessment has been carried out using the following information:

- The planning application drawings, received from Hester Architects on 29.06.2018 and 13.07.2018;
- Ordnance Survey Superplan digital mapping of the area;
- Measured topographic survey of the site and surroundings;
- Photogrammetric survey of the site and surroundings;
- Approved planning application drawings for neighbouring buildings, where available on the Council’s planning portal and estate agents’ websites;
- Approved/submitted planning application drawings for emerging neighbouring developments, where available on the Council’s planning portal;
- Comprehensive photographic survey of the site and surroundings; and
- Aerial photography.

- 1.6 The report is divided into the following subsequent sections:
- Section 2.0 provides a brief description of the site and the nature of the proposed development, highlighting features of relevance to the assessment of daylight and sunlight levels;
 - Section 3.0 outlines the scope of the assessment;
 - Section 4.0 sets out relevant planning policy considerations;
 - Section 5.0 provides an assessment of the impacts of the proposal on levels of daylight;
 - Section 6.0 considers the proposal's impacts in terms of sunlighting;
 - Section 7.0 considers the proposal's impacts in terms of overshadowing to amenity spaces;
 - Section 8.0 provides a summary of the assessment and our conclusions are drawn.
- 1.7 The assessment is supported by a series of reference plans and results tables at Appendices 1-11.

2.0 **Site, Surroundings and the Proposal**

Site and Surroundings

- 2.1 The application site is located on the corner of St. Stephen's Road and High Street, Yiewsley. St. Stephen's Road stretches to the south of the site's boundary, along the Grand Union Canal, while High Street runs along the site's eastern boundary. Directly to the north is an access road and beyond it a retail parade with residential dwellings at 71-91 High Street, while the premises of The Vicarage and St. Matthew's School are located to the north-west. A second building of the School and a playground are located more to the west of the site.
- 2.2 The application site covers an area of 0.52ha. It is currently occupied by an existing Morrisons supermarket building and an open car park. The current building's footprint occupies the section of the site closer to the junction of St. Stephen's Road and High Street. It does not fully utilise the potential of this town centre site, as well as its prominent location by the Grand Union Canal. The Yiewsley/West Drayton area has recently witnessed an increased development activity, which is a result of the arrival of the Crossrail and ambitious regeneration vision of Hillingdon Council for the Borough.
- 2.3 The area in the immediate vicinity of the site is characterised by mainly residential properties, including several recent developments along the Grand Union Canal. There are also numerous emerging developments in the wider area, for example the Padcroft schemes (Phase I and II) at Tavistock Road. Therefore, as mentioned in the Introduction, the assessment's results should be considered in the context of the recently completed and emerging schemes and the emerging dense urban character of the West Drayton area.
- 2.4 The site and its context are illustrated in the images of the assessment model contained at Appendix 1. A complete description of the site and surroundings, and the area's emerging development activity, is provided in the submitted Planning Statement and Design and Access Statement.

The Proposal

- 2.5 The proposed development comprises the demolition of the existing Morrisons supermarket building and the redevelopment of the site to provide a retail and residential mixed-use scheme. The site will be developed to provide a replacement Morrisons foodstore, with 144 residential units provided above. The development will also include landscaped amenity spaces and associated facilities.
- 2.6 The development's height, massing, layout, fenestration and balcony configuration of individual units have been informed by a series of daylight and sunlight analyses undertaken during the iterative design development process in collaboration with Hester Architect. The intention has been to minimise the adverse effects on the current daylight and sunlight levels enjoyed by the occupiers of the neighbouring properties, while at the same time maximise the levels of daylight and sunlight amenity to the future occupiers of the proposed residential accommodation at the site. As a result, massing of the proposed scheme has been reduced within the sections closest to the neighbouring buildings, with the top floor being set back along High Street to reduce the impacts on the residential dwellings opposite. Furthermore, as a direct response to the Council's concerns raised during the pre-application discussions in relation to the potential adverse overshadowing effects on the premises of St. Matthew's School, a special focus during the design development process has been placed on respecting their current levels of amenity.

- 2.7 In terms of the proposed accommodation itself, Lichfields has worked closely with Hester Architects on optimal room layouts, balcony configurations and window sizes in order to maximise the levels of interior daylight within the main habitable rooms of all the proposed units. For example, a focus has been on avoiding north-facing single-aspect units and maximising the area of glazing serving the proposed living/kitchen/diners ('LKDs'). Also, each unit contains a private amenity space in the form of a balcony while the development itself benefits from three communal amenity spaces.
- 2.8 At the same time, it is crucial that the proposed development offers an efficient use of the site to provide the much needed housing, which also translates into the number of affordable units proposed. Furthermore, the scheme should positively respond to the emerging higher density urban character of the West Drayton area which is undergoing an unprecedented growth.
- 2.9 The layout and heights of the proposed development and its relationship with the neighbouring buildings, including the recently completed developments (i.e. Art Wood Apartments, Drayton Wharf) are illustrated at Appendix 1.

3.0

Scope of Assessment

- 3.1 This section of the report provides an overview of the scope of the assessment in terms of the neighbouring residential properties, the proposed residential accommodation and the areas of neighbouring and proposed amenity spaces assessed.
- 3.2 The locations of the window reference points and rooms assessed are illustrated at Appendices 2 and 3.

Neighbouring Accommodation Assessed

- 3.3 As outlined in the preceding section, the assessment has focused on the development's effects on the existing residential accommodation, including the properties along High Street, a sample of properties on St. Stephen's Road and the more recent developments located by the Grand Union Canal. These include the Art Wood Apartments situated directly to the south-east of the site and four properties located to the south of the Grand Union Canal: Betjeman Court, Versatile House, Union Wharf and Drayton Wharf. Furthermore, the residential accommodation within The Vicarage and two buildings of St. Matthew's School have also been a focus of the assessment.
- 3.4 Other buildings in the vicinity of the site are either non-residential in use or are situated a sufficient distance from the site to be unaffected in daylight and sunlight terms.
- 3.5 The following table provides a summary of the neighbouring properties/ groups of properties assessed.

Table 3-1 Proposed Accommodation Assessed

Neighbouring Properties	No. Windows/Rooms Assessed	
	Daylight	Sunlight*
1-6 Deen Court, 22 High Street	18 windows/12 rooms	All north-facing
Flats Nos. 1-10, 32 High Street	24 windows/1 room	6 windows*
34A-42A and 70 High Street	11 windows	2 windows*
71 and 73-75 High Street	12 windows	8 windows*
The Vicarage, 93 High Street	9 windows	9 windows*
St. Matthew's School	14 windows	14 windows*
26-31 Betjeman Court, Bentinck Road	12 windows	All north-facing
1-9 Versatile House, Bentinck Road	27 windows/18 rooms	5 windows*
1-10 Union Wharf, Bentinck Road	68 windows	All north-facing
1-38 Drayton Wharf, High Street	53 windows/41 rooms	12 windows*
1-28 Art Wood Apartments, 30 St. Stephens Road	28 windows/16 rooms	4 windows*
17-19 St. Stephen's Road	2 windows	2 windows*
Total	278 windows/88 rooms	62 windows*

[*windows orientated within 90 degrees of due south]

- 3.6 Overall, the assessment has considered the effects of the development on the ambient daylight (Vertical Sky Component; VSC) levels experienced by 278 windows serving the existing neighbouring properties. Furthermore, having obtained internal layout information from the Council's planning portal/estate agents' websites, 88 site-facing habitable rooms of five of these properties have been modelled and assessed in terms of interior daylight levels (Daylight Distribution; DD and Average Daylight Factor; ADF).
- 3.7 The windows tested that are orientated within 90° of due south have been assessed in terms of both daylight and sunlight. This comprises 62 windows serving the neighbouring properties. The other windows assessed will be unaffected by the development in terms of sunlight availability and require consideration in terms of daylighting only.
- 3.8 The locations of the window reference points of the properties which have been modelled and the configurations of the rooms assessed are illustrated on the window maps and layout plans attached at Appendix 2.

Proposed Accommodation Assessed

- 3.9 The assessment has considered the levels of natural light that will be received within all of the proposed residential units across the development. This comprises 595 windows serving 419 habitable rooms within the development's 144 residential units. The proposed accommodation has been comprehensively assessed in terms of ambient (VSC) and internal (DD and ADF) daylight levels.
- 3.10 Of the 595 windows tested, 345 are orientated within 90° of due south and also required assessment in terms of sunlight availability. The window and room references of all the proposed habitable rooms are illustrated at Appendix 3.

Neighbouring and Proposed Amenity Spaces Assessed

- 3.11 The assessment has also considered the effects of the development on the levels of overshadowing to the neighbouring amenity spaces. These are primarily the amenity space serving The Vicarage and the playground of St. Matthew's School. Furthermore, we have tested the overshadowing effects on the private amenity spaces serving the dwellings at 71-91 High Street.
- 3.12 As outlined at Section 2.0, the proposed development, apart from generous balconies serving all the units, will provide three communal amenity spaces which will be accessible to all the future occupiers of the development. Two communal amenity areas will be located on the first-floor podium deck while the remaining area will include children's playspace and will be located on the ground floor within the site's western section adjoining the boundary brick wall shared with the School's playground area.
- 3.13 The aforementioned neighbouring and proposed communal amenity spaces have been assessed in terms of overshadowing based on the BRE two-hour sunlight contour method of assessment. Their extent is illustrated at Appendices 10 and 11.

4.0 Planning Policy Context

- 4.1 The statutory development plan covering the proposal site is formed by the London Plan (Further Alterations to the London Plan, March 2016) and Hillingdon's Development Plan. The following outlines the planning policy of relevance to the daylight, sunlight and overshadowing assessment.
- 4.2 The London Plan addresses the residential amenity effects of development. Policy 7.6 states that proposals for buildings should, amongst other things, *"not cause unacceptable harm to the amenity of surrounding land and buildings, particularly residential buildings, in relation to privacy, overshadowing, wind and microclimate"*. Amenity in this case is considered to include access to adequate daylight and sunlight.
- 4.3 Hillingdon's Development Plan forms *"the statutory basis for planning decisions"*. It includes, amongst several policy documents, 'Hillingdon's Local Plan: Part 1 – Strategic Policies', 'Hillingdon's Local Plan: Part 2 - Site Allocations and Designations' and 'Hillingdon's Local Plan: Part 2 - Development Management Policies'. While Part 1 of Hillingdon's Local Plan has been adopted, the aforementioned Part 2 documents have been recently submitted for examination (May 2018). Nonetheless, due to their advanced status, they should be considered in determining the planning application for the site.
- 4.4 Policy 11 ('Design of New Development') of 'Hillingdon's Local Plan: Part 2 - Development Management Policies' states that *"development proposals should not adversely impact on the amenity, daylight and sunlight of adjacent properties and open space"*. The document also explains:
- "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"*.
- 4.5 It can be confirmed that the latest methodology and guidance outlined by the BRE guide have formed the basis of this assessment.

5.0

Daylight

- 5.1 This section of the assessment considers the effects of the proposed development on the level of ambient and interior daylight received at the aforementioned windows and rooms within neighbouring properties and the levels of daylight and sunlight within the proposed units, as well as overshadowing to the neighbouring and proposed amenity spaces.

Methodology

- 5.2 The daylight assessment is based on three separate analyses. The Vertical Sky Component (VSC) at each of the windows identified for analysis has been assessed. The rooms served by the windows assessed within five neighbouring properties, where the internal layout information is available, and all the proposed residential units have also been considered in terms of Daylight Distribution (DD) and Average Daylight Factor (ADF).

- 5.3 The following sets out the methodology for calculating VSC, DD and ADF.

Vertical Sky Component

- 5.4 The level of ambient daylight received by a window is quantified in terms of its Vertical Sky Component (VSC), which represents the amount of vertical skylight falling on a vertical window. The daylight assessment has been based on a three-dimensional AutoCAD model constructed for the site and surroundings as existing and with the proposed development in place. The heights and locations of the surrounding buildings and the proposed development have been taken from the topographic and photogrammetric surveys of the site and surroundings, Ordnance Survey digital plan data, site observations, aerial photography and the planning application drawings for the proposed development produced by Hester Architects.

- 5.5 The VSC level at each of the windows requiring assessment has been quantified using Waldram Tools daylight and sunlight software (MBS Software Ltd).

- 5.6 The BRE good practice guide outlines numerical guidelines that represent flexible targets for new developments in relation to the vertical sky component at nearby reference points. The document states that:

*“If the vertical sky component, with the new development in place, is **both** less than 27% **and** less than 0.8 times its former value, then the loss of light is likely to be noticeable.”*

- 5.7 The guidelines therefore require that either the VSC target or the degree of change in daylighting are met (i.e. if the 27% target is adhered to, there is no requirement under the BRE guidelines for the resultant VSC level to remain at 0.8 times the former VSC level).

Daylight Distribution

- 5.8 The analysis of daylight distribution considers the area of a room which can receive an unobstructed view of the sky. It is quantified at working plane height (+0.85m).

- 5.9 The BRE (2011) guide states:

“If, following construction of a new development, a no-sky line moves so that the area of the existing room which does not receive direct skylight is reduced to less than 0.8 times its former value, this will be noticeable to the occupants.”

- 5.10 Again, the analysis of daylight distribution provides a more sophisticated method of assessing daylight than VSC as it takes into account the size of a room and the size and number of its windows.

Average Daylight Factor

5.11 The BRE guide advises that the calculation of Average Daylight Factor (ADF) provides an alternative means of assessing the level of daylight received by the interior of the room served by a window. It is an appropriate means of assessment for proposed accommodation and recently constructed neighbouring development where the parameters required for the ADF calculations are known.

5.12 The calculation of ADF again provides a more accurate method of calculating the daylight level experienced within a room than VSC as it takes into account the size and reflectance of room's surfaces and the number, size and transmittance of its window(s), as well as the ambient daylight level (VSC) received at the window(s).

5.13 The Average Daylight Factor (df) is defined as the average internal illuminance as a percentage of the unobstructed external illuminance under standard overcast conditions.

5.14 ADF can be calculated using the following formula (amended in the updated BRE guide, 2011):

$$df = \frac{TMAW \theta}{A(1-R_2)} \%$$

Where:

T is the diffuse visible transmittance of the glazing (a value of 0.65 is typical for double glazed clear glass);

M is the maintenance factor allowing for the effects of dirt (a percentage loss of 8% is typical for residential accommodation in urban areas)

Aw is the net glazed area of the window (m²);

θ is the angle of visible sky in degrees;

A is the total area of the room surfaces: ceiling, floor, walls and windows (m²);

R is the average reflectance (a standard value of 0.5 is recommended by the BRE guide; a bespoke value of 0.7 is applicable for new/proposed accommodation with light internal surface treatments¹).

5.15 The BRE guide contains a separate procedure for floor to ceiling windows and glazed doors. It states that areas of glazing below the working plane should be treated as a separate window and an extra factor is applied to it to take account of the reduced effectiveness of low level glazing in lighting the room. The BRE states that a value equivalent to the floor reflectance can be taken for this factor or, if this is not known, then a value of 0.15 can be used.

5.16 The approach to assessing internal daylighting using the ADF method is set out at Appendix C of the BRE guide. The BRE guide and British Standard BS8206 set the following minimum recommended ADF levels for different room types:

- Kitchens: 2%;
- Living rooms: 1.5%;
- Bedrooms: 1%.

¹ A 0.7 reflectance value assumes white painted walls and ceiling (0.85) and a medium wooden floor (0.3) [BS 8206-2: 2008]

- 5.17 As outlined in the preceding section, the ADF analysis has been considered for all the proposed residential units because it is a primary method of daylight assessment for new accommodation as per the BRE guidance. Therefore, the focus of the design development process in coordination with Hester Architects has been on maximising the ADF values to the main habitable rooms across the proposed accommodation.

Significance of Effects

- 5.18 In addition to the application of the BRE guide levels outlined above, minor breaches of the BRE guide levels have also been identified where the degree of change in daylighting arising from the development or the residual daylight level with the scheme in place is within a margin of 20% of the respective guide levels. This reflects the fact that Yiewsley High Street and the West Drayton area as a whole are becoming one of the most developed areas of Outer London, where development is required to make optimal and efficient use of accessible brownfield urban land to provide the much needed housing. In such circumstances, the BRE guide levels, which are predicated on a lower density, suburban, scale of development, are of limited practical relevance and their strict application would unreasonably inhibit otherwise acceptable development.
- 5.19 Consequently, while the subsequent analyses have been based on the BRE guidance and are considered in the context of its guide levels, where breaches of the VSC, DD and ADF guide levels are experienced, they have been classified as ‘minor effects’ where daylight levels are within 20% of the guide levels.

Daylight Results – Neighbouring Properties

- 5.20 The development has been designed to ensure that the effects on the current levels of daylight within the neighbouring properties are minimised; however, it is important that they are also considered in the context of the current massing at the site, design features of the neighbouring properties and the fast-growing higher density urban character of the area. The following table provides a summary of the VSC, DD and ADF results obtained for the residential dwellings within the neighbouring properties. The results are set out in full at Appendices 4A-6A.

Table 5-1 Neighbouring Properties – Summary of Daylight Results

VSC Summary	No. windows Assessed	No./% Above BRE Guide		No./% Below BRE Guide		No. Minor Effects*
1-6 Deen Court, 22 High Street	18	0	0%	18	100%	1
Flats Nos. 1-10, 32 High Street	24	3	c. 13%	21	c. 87%	4
34A-42A and 70 High Street	11	2	c. 18%	9	c. 82%	5
71 and 73-75 High Street	12	12	100%	0	0%	n/a
The Vicarage, 93 High Street	9	0	0%	9	100%	9
St. Matthew’s School	14	7	50%	7	50%	7
26-31 Betjeman Court, Bentinck Road	12	7	c. 58%	5	c. 42%	1
1-9 Versatile House, Bentinck Road	27	12	c. 44%	15	c. 56%	9
1-10 Union Wharf, Bentinck Road	68	23	c. 34%	45	c. 66%	35

1-38 Drayton Wharf, High Street	53	53	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	28	12	c. 43%	16	c. 57%	4
17-19 St. Stephen's Road	2	2	100%	0	0%	n/a
Total	278	133	c. 48%	145	c. 52%	75
DD Summary	No. rooms Assessed	No./% Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
1-6 Deen Court, 22 High Street	12	0	0	12	100%	3
32 High Street	1	0	0	1	100%	0
1-9 Versatile House, Bentinck Road	18	3	c. 17%	15	c. 83%	7
1-38 Drayton Wharf, High Street	41	41	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	16	12	75%	4	25%	1
Total	88	56	c. 64%	32	c. 36%	11
ADF Summary	No. rooms Assessed	No./% Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
1-6 Deen Court, 22 High Street	12	0	0	12	100%	3
32 High Street	1	1	100%	0	0%	n/a
1-9 Versatile House, Bentinck Road	18	11	c. 61%	7	c. 39%	7
1-38 Drayton Wharf, High Street	41	41	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	16	12	75%	4	25%	1
Total	88	65	c. 74%	23	c. 26%	11

[*Marginal Impact: Within 20% of BRE Guide Level]

5.21

The results of the daylight analysis demonstrate that c. 48% of the windows serving the properties in the immediate vicinity of the site will retain the VSC levels above the BRE guide levels with the proposed scheme in place. Furthermore, the majority of the windows with the VSC levels below the BRE guide levels will experience only marginal impacts. Where there are more significant impacts, this is mainly a result of the building's own design features, narrow building-to-building separation due to the limited width of St. Stephens Road and the current low-rise character at the site. This creates an unusual baseline condition for a development in a town centre location. Such unusual baseline condition would naturally result in larger VSC ratio reductions when compared against any development of scale and massing similar to the recent and emerging developments in the area. This is particularly relevant in relation to the properties fronting High Street. They currently have almost unobstructed view of sky, which results in the levels of daylight which are uncommon for a town centre location. It is therefore inevitable that an implementation of any viable scheme at the site will create bigger reductions to the current daylight levels. Nevertheless, the majority of the windows will have their retained VSC values in the region of 15%, which is more commensurate with the daylight levels enjoyed by the occupiers of properties within town centre locations.

- 5.22 It is also important to note here that the daylight results in relation to St. Matthew's School are positive, with half of the site-facing windows fully complying with the BRE guidelines for VSC while the remaining windows will fall only marginally below the VSC numerical targets. Furthermore, all the site-facing windows serving The Vicarage will fall only marginally below the BRE guidelines for VSC, which is considered acceptable in the context of the site.
- 5.23 As discussed in the above section, VSC merely provides a measure of the obstructions to skylight taken at the midpoint of each window. It does not take into account the size of each window aperture, the size, layout and nature of the room served by the window, or the number of windows serving a room. In contrast, the calculation of ADF and DD provide more sophisticated methods of calculating the daylight conditions experienced within a room.
- 5.24 The interior daylight results for the properties where we have modelled the internal layouts behind the site-facing fenestration demonstrate that c. 64% and 74% of the habitable rooms tested will meet the BRR guide levels for DD and ADF respectively. These are good levels of interior daylight compliance for a fast growing area with large-scale developments. Furthermore, the majority of the rooms tested serve kitchens or bedrooms which the BRE guide levels considers as less important than main habitable rooms.
- 5.25 As with the VSC results, the majority of the rooms which fall below the BRE guide levels for DD/ADF are constrained in terms of light reaching them by their own architectural features and/or proximity to the site boundary, which makes them sensitive to any additional massing opposite. This is especially relevant in relation to the High Street properties and the more recent development along the Grand Union Canal, which are served by deep balconies. Balconies provide an important amenity; however, they also create a self-hampering effect in terms of daylight provision.
- 5.26 The BRE guide states that *"because the balcony cuts out light from the top part of the sky, even a modest obstruction opposite may result in large relative impact on the VSC, and on the area receiving direct skylight"*. We have therefore followed the BRE guide and run an iteration of the daylight assessment without the balconies in place to establish if their presence is in fact the main factor in the loss of light. The following table provides a summary of the results. The results are set out in full at Appendices 4B-6B. For comparison purposes, the properties which are not served by balconies have been included in the summary tables; however, they have been shaded in grey.

Table 5-2 Neighbouring Properties – Summary of Daylight Results (Without Balconies)

VSC Summary	No. windows Assessed	No./% Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
1-6 Deen Court, 22 High Street	18	0	0%	18	100%	1
Flats Nos. 1-10, 32 High Street	24	3	c. 13%	21	c. 87%	4
34A-42A and 70 High Street	11	2	c. 18%	9	c. 82%	5
71 and 73-75 High Street	12	12	100%	0	0%	n/a
The Vicarage, 93 High Street	9	0	0%	9	100%	9
St. Matthew's School	14	7	50%	7	50%	7
26-31 Betjeman Court, Bentinck Road	12	12	100%	0	0%	n/a
1-9 Versatile House, Bentinck Road	27	19	c. 70%	8	c. 30%	8
1-10 Union Wharf, Bentinck Road	68	65	c. 96%	3	c. 4%	3
1-38 Drayton Wharf, High Street	53	53	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	28	17	c. 61%	11	c. 39%	2
17-19 St. Stephen's Road	2	2	100%	0	0%	n/a
Total	278	192	c. 69%	86	c. 31%	39
DD Summary	No. rooms Assessed	No./% Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
1-6 Deen Court, 22 High Street	12	0	0%	12	100%	3
32 High Street	1	0	0	1	100%	0
1-9 Versatile House, Bentinck Road	18	3	c. 17%	15	c. 83%	7
1-38 Drayton Wharf, High Street	41	41	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	16	12	75%	4	25%	1
Total	88	56	c. 64%	32	c. 36%	11
ADF Summary	No. rooms Assessed	No./% Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
1-6 Deen Court, 22 High Street	12	2	c. 17%	10	c. 83%	7
32 High Street	1	1	100%	0	0%	n/a
1-9 Versatile House, Bentinck Road	18	16	c. 89%	2	c. 11%	2
1-38 Drayton Wharf, High Street	41	41	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	16	12	75%	4	25%	0
Total	88	72	c. 82%	16	c. 22	9

[*Marginal Impact: Within 20% of BRE Guide Level]

5.27 The results of the daylight assessment without the balconies demonstrate, as expected, a significantly better compliance ratio, especially with regards to VSC and ADF, which both take into account the level of obstruction at the midpoint of a window. For VSC, c. 69% of all the windows facing the site would fully comply with the BRE guidelines if the properties which are served by balconies were not obstructed by these design features, while 82% of the rooms they serve would meet the ADF criteria for the respective room uses. The windows/rooms which fall below the guidelines are positioned in close proximity to the site boundary and have currently an obstructed view of sky, and therefore these transgressions need to be considered in the context of the site constraints and wider development activity. Notwithstanding this, the retained daylight levels are considered to be more commensurate with the daylight levels usually experienced in a fast-growing town centre location.

5.28 In conclusion, the effects of the development on the daylight levels experienced by the neighbouring properties are acceptable in the context of the site, proposed development, emerging dense urban character of the area, BRE guidance and relevant planning policy.

Results – Proposed Units

5.29 The following table provides a summary of the daylight results for the proposed habitable rooms serving all the 144 residential units. The results are set out in full at Appendices 7-9.

Table 5-3 Proposed Accommodation – Summary of Daylight Results

VSC Summary	Windows Assessed	No./ % Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
Proposed Development	595	307	c. 52%	288	c. 48%	46
ADF Summary	No. rooms Assessed	No./ % Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
Proposed Development	419	389	c. 93%	30	c. 7%	16
DD Summary	No. rooms Assessed	No./ % Above BRE Guide		No./ % Below BRE Guide		No. Minor Effects*
Proposed Development	419	386	c. 92%	33	c. 8%	16

[*Marginal Impact: Within 20% of BRE Guide Level]

5.30 The results show that over half of the tested windows will fully comply with the BRE guidelines for VSC. This is a good level of compliance for a large-scale development in a fast growing high-density urban area like Yiewsley High Street/West Drayton. The windows which fall below the BRE guidelines are constrained in terms of obstruction to natural light due to their outlook onto the internal courtyard or their location beneath a balcony. However, the amenity benefits associated with those balconies are considered to offset the associated reductions in daylighting while the courtyard will provide important communal amenity spaces for the future residents and its semi-open form will allow the more sensitive north-facing rooms on the lower floors to receive good levels of sky visibility.

5.31 Nevertheless, as outlined in the preceding section, VSC merely provides a measure of the obstructions to skylight taken at the midpoint of each window. It does not take into account the size of each window aperture, the size, layout and nature of the room served by the window, or the number of windows serving a room. In contrast, the calculation of ADF and DD provide

more sophisticated methods of calculating the daylight conditions experienced within a room. ADF takes into account the size and reflectance of room's surfaces and the number, size and transmittance of its window(s), as well as the ambient daylight level (VSC) received at the window(s). DD reflects the size and layout of a room and the size and number of its windows. On this basis, the interior daylight analyses provide a better indication of the daylight conditions that will be experienced within the proposed residential units, and the ADF test in particular is considered as a preferred method of assessment by the BRE guide.

- 5.32 In this context, the ADF and DD results for the proposed residential accommodation demonstrate that c.93% and 92% of the proposed habitable rooms will achieve the BS/BRE guide levels for their respective room types. These are very good levels of compliance for interior daylighting for a higher density urban development project in a town centre location in Outer London. They reflect the positive outcome of the iterative design process in coordination with the Hester Architects which aimed at maximising the interior daylight levels across the scheme, with a particular emphasis on the main habitable room.
- 5.33 Overall, the daylight results for the proposed residential accommodation demonstrate that the units across the scheme have been well designed and will provide good standards of residential amenity in terms of interior daylighting to its future occupiers.

6.0

Sunlight

- 6.1 This section of the report assesses the effects of the proposed development on levels of sunlight at the window reference points. As noted at Section 3.0, only windows orientated within 90 degrees of due south require analysis in terms of sunlight availability. The methodology and results are discussed below.

Methodology

- 6.2 The levels of sunlight availability at the window reference points assessed have been calculated based on a three-dimensional AutoCAD model of the site and surroundings with the development in place, using the Waldram Tools daylight and sunlight software. The calculations provide the percentage year round sunlight availability and the percentage of sunlight availability received during the winter months.
- 6.3 The BRE good practice guide notes that:
- “If [a] window reference point can receive more than one quarter of annual probable sunlight hours, including at least 5% of annual probable sunlight hours during the winter months between 21 September and 21 March, then the room should still receive enough sunlight...If the available sunlight hours are **both** less than the amount given **and** less than 0.8 times their former value, either over the whole year or just during the winter months (21 September to 21 March), then the occupants of the existing building will notice the loss of sunlight.”*
- 6.4 As with daylighting, the guidelines require that either the sunlight availability targets or the degree of change in sunlighting are met (i.e. if the 25%/5% targets are adhered to, there is no requirement under the BRE guidelines for the resultant sunlight levels to remain at 0.8 times the former levels).

Sunlight Results – Neighbouring Properties

- 6.5 The following table summarises the sunlight results obtained for the existing neighbouring properties. The results are again contained in full at Appendix 4A.

Table 6-1 Neighbouring Properties – Summary of Sunlight Results

Annual Sunlight (APSH)	No. Windows Assessed	No./% Above BRE Guide		No./% Below BRE Guide		No. Minor Effect *
Flats Nos. 1-10, 32 High Street	6	1	c.. 17%	5	c. 83%	1
34A-42A and 70 High Street	2	1	50%	1	50%	1
71 and 73-75 High Street	8	8	100%	0	0%	n/a
The Vicarage, 93 High Street	9	9	100%	0	0%	n/a
St. Matthew’s School	14	13	c. 93%	1	c. 7%	1
1-9 Versatile House, Bentinck Road	5	5	100%	0	0%	n/a
1-38 Drayton Wharf, High Street	12	12	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	4	4	100%	0	0%	n/a

17-19 St. Stephen's Road	2	2	100%	0	0%	n/a
Total	62	55	c. 89%	7	c. 11%	3
Winter Sunlight (WPSH)	No. Windows Assessed	No./% Above BRE Guide		No./% Below BRE Guide		No. Minor Effect *
Flats Nos. 1-10, 32 High Street	6	4	c.. 67%	2	c. 33%	0
34A-42A and 70 High Street	2	0	0%	2	100	0
71 and 73-75 High Street	8	6	75%	2	25%	2
The Vicarage, 93 High Street	9	9	100%	0	0%	n/a
St. Matthew's School	14	10	c. 71%	4	c. 29%	0
1-9 Versatile House, Bentinck Road	5	5	100%	0	0%	n/a
1-38 Drayton Wharf, High Street	12	12	100%	0	0%	n/a
1-28 Art Wood Apartments, 30 St. Stephens Road	4	4	100%	0	0%	n/a
17-19 St. Stephen's Road	2	2	100%	0	0%	n/a
Total	62	52	c. 84%	10	c. 16%	2

[*Marginal Impact: Within 20% of BRE Guide Level]

- 6.6 The results of the sunlight analyses of the neighbouring residential properties demonstrate that the vast majority of the windows which face within 90° of due south will comply with the BRE guidelines for both the annual and winter sunlight criteria, c. 89% and 84% of the tested windows respectively.
- 6.7 The recent developments along the Grand Union Canal show a full compliance with the sunlight criteria; however, as outlined in Section 3.0, the majority of the site-facing windows are not orientated within 90° of due south and have not been tested for sunlight. Finally, all but one site-facing window serving St. Matthew's School are fully compliant with the annual sunlight criteria, with the one remaining window falling only marginally below the BRE guidelines. Finally, all the site-facing windows serving The Vicarage fully comply with the annual sunlight criteria.
- 6.8 The sunlight assessment of the neighbouring properties has also been considered without the projecting architectural features serving the properties in place. This is in line with the daylight assessment, and has been carried out in order to establish if their presence is in fact the main factor in the loss of sunlight. The results are contained in full at Appendix 4B, and they show a much improved compliance ratio in relation to the property at 32 High Street once the overhanging eave is removed. Under this supplementary assessment, c. 67% and c. 83% of the site-facing windows are compliant with the annual and winter sunlight criteria respectively.
- 6.9 In conclusion, it is considered that that the proposed development will not adversely impact on the current levels of sunlight enjoyed by the neighbouring residential properties, and the retained levels of sunlight to the small number of windows falling below the sunlight criteria will be good for a town centre location.

Sunlight Results – Proposed Units

- 6.10 The following table provides a summary of the sunlight results obtained for the south-facing habitable rooms within the proposed residential accommodation. The results are contained in full at Appendix 7.

Table 6-2 Proposed Accommodation – Summary of Sunlight Results

Annual Probable Sunlight Hours	No. Windows assessed	Above BRE Guide		Below BRE Guide		Marginal Effect *
Proposed development	345	78	c. 23%	267	c. 77	4
Winter Sunlight (WPSH)	No. Windows Assessed	No./% Above BRE Guide		No./% Below BRE Guide		No. Minor Effect *
Proposed development	345	234	c. 68%	111	c. 32%	36

[*Marginal Impact: Within 20% of BRE Guide Level]

- 6.11 The results of the sunlight analyses for the proposed units demonstrate that the majority of the windows which face within 90° of due south and serve the main habitable rooms (LKDs), kitchens or bedrooms will not comply with the BRE numerical targets for annual sunlight. The windows which will experience sunlight levels below the BRE guide levels are either constrained due to their close proximity to the neighbouring buildings or are positioned below a projecting balcony serving a unit above. However, lower sunlight levels are expected in large-scale higher density developments which are in line with the GLA and local policies and provide private amenity space in the form of balconies. In this context, the amenity benefits associated with the balconies offset the associated lower sunlight levels to the windows. Finally, as mentioned above, most of the tested windows are kitchens or bedrooms. The BRE guide states *that “all main living rooms of dwellings, and conservatories, should be checked if they have a window facing within 90° of due south. Kitchens and bedrooms are less important, although care should be taken not to block too much sun”*.
- 6.12 Notwithstanding this, based on the sunlight results for the windows located within the main elevations of the tested buildings, it is expected that good sunlight levels will be reaching the balconies themselves all year-round, making these amenities pleasant to enjoy by the future residents. Furthermore, as outlined above, the proposed units will be receiving greater amount of sunlight during the winter months when direct sunlight is more sought after. In fact, c. 78% of the tested windows will either fully comply with the guide levels for winter sunlighting or they will just fall marginally below the guidelines. Finally, as outlined in the Daylight section, the vast majority of the proposed units (c. 93%) will be enjoying good levels of interior daylight, which is a better indication of the natural light condition within a room.
- 6.13 In conclusion, the proposed south-facing units will experience acceptable levels of sunlight availability in the context of the proposed development, amenity benefits associated with the balconies serving all the proposed units, BRE guidance and relevant planning policy.

7.0

Overshadowing

7.1

The effects of the development on the levels of sunlight experienced by the neighbouring and proposed amenity space have also been assessed.

7.2

As outlined at Section 3.0, the assessment has considered the effects of the development on the levels of overshadowing to the neighbouring amenity spaces, with a particular focus on the amenity space serving The Vicarage and the playground of St. Matthew's School. Furthermore, three proposed communal amenity spaces have been tested for the anticipated levels of sun/shadow.

7.3

The following outlines the methodology and results of this overshadowing assessment.

Methodology

7.4

The BRE 'test' for a development's overshadowing impacts relates to the area of an amenity space that receives more than two hours of sunlight on 21 March (the Spring Equinox). The guide states:

"...for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March. If, as a result of new development, an existing garden or amenity area does not meet the above, and the area which can receive two hours of sun on 21 March is less than 0.8 times its former value, then the loss of sunlight is likely to be noticeable".

7.5

The assessment has therefore considered the area of amenity space that can receive more than two hours of direct sunlight on this date.

Results – Neighbouring Amenity Spaces

7.6

The following tables outline the results of the overshadowing analysis in relation to the neighbouring amenity spaces. The sun/shadow contour diagrams showing the extent of the spaces and the areas receiving at least 2 hours of direct sunlight on 21st March and 21st June in the existing and proposed condition are contained at Appendix 10A-10B.

7.7

Table 7-1: Neighbouring Amenity Spaces – Overshadowing Analysis (21st March)

Ref	Amenity space		Amenity Area (sqm)	Existing Area (sqm/%) > 2 hours sunlight	Proposed Area (sqm/%) > 2 hours sunlight	Difference	Above/ Below BRE Guide
A1	St. Stephen's School	Area m2	829.29	819.54	790.66	0.96	Above
		Percentage		99%	95%		
A2	The Vicarage	Area m2	671.60	644.17	487.60	0.76	Above
		Percentage		96%	73%		
A3	71 High Street	Area m2	12.28	12.06	4.94	0.41	Below
		Percentage		98%	40%		
A4	73-75 High Street	Area m2	34.42	31.63	27.27	0.86	Above
		Percentage		92%	79%		
A5	77-79 High Street	Area m2	114.12	106.55	106.55	1.00	Above
		Percentage		93%	93%		

Table 7-2: Neighbouring Amenity Spaces – Overshadowing Analysis (21st June)

Ref	Amenity space		Amenity Area (sqm)	Existing Area (sqm/%) > 2 hours sunlight	Proposed Area (sqm/%) > 2 hours sunlight	Difference	Above/ Below BRE Guide
A1	St. Stephen's School	Area m2	829.29	827.28	826.63	1.00	Above
		Percentage		100%	100%		
A2	The Vicarage	Area m2	671.6	670.00	668.78	1.00	Above
		Percentage		100%	100%		
A3	71 High Street	Area m2	12.28	12.11	12.11	1.00	Above
		Percentage		99%	99%		
A4	73-75 High Street	Area m2	34.42	33.93	33.93	1.00	Above
		Percentage		99%	99%		
A5	77-79 High Street	Area m2	114.12	112.98	112.98	1.00	Above
		Percentage		99%	99%		

7.8 As outlined above, the results of the shadow analysis demonstrate that all but one amenity space serving the property at 71 High Street will fully comply with the BRE guide levels for overshadowing on 21st March, and therefore will retain adequate levels of direct sunlight all year-round. In fact, the vast majority of each of these amenity spaces will continue to receive good levels of direct sunlight throughout the year after the implementation of the development. Most importantly, the overshadowing results show that the playground of St. Stephen's School will experience a negligible effect to its current levels of direct sunlight and it will continue to be adequately lit to almost its entire area throughout the year.

7.9 Furthermore, all the neighbouring amenity spaces, including the amenity serving the property at 71 High Street, will be well sunlit during the summer months with no additional effect as a result of the proposed development. Once the scheme is implemented, either 99% or 100% of each of the amenities' area will continue to receive adequate sunlight levels in the summer months when they are expected to be mainly in use.

7.10 In conclusion, the results of the overshadowing analysis demonstrate a very good level of compliance for a development in a town centre location.

Results – Proposed Amenity Spaces

7.11 The following tables outline the results of the sun/shadow analysis in relation to the proposed amenity spaces. These are two podium-deck spaces located within the courtyard/western section of the development and one ground-floor amenity spaces with children's' playspace.

Table 7-3 Proposed Amenity Spaces – Overshadowing Analysis (21st March)

Ref.	Amenity Space		Amenity Area (sqm)	Area (sqm/%) > 2 Sun Hours	Above/Below BRE Guide
A1	Ground-level amenity space/children's' playspace	Area m2	652.99	478.1	Above
		Percentage		73%	
A2	Podium-deck amenity space (western section)	Area m2	252.57	0	Below
		Percentage		0%	
A3	Podium-deck amenity space (courtyard)	Area m2	1204.47	700.86	Above
		Percentage		58%	

Table 7-4 Proposed Amenity Spaces – Overshadowing Analysis (21st June)

Ref.	Amenity Space		Amenity Area (sqm)	Area (sqm/%) > 2 Sun Hours	Above/Below BRE Guide
A1	Ground-level amenity space/children's' playspace	Area m2	652.99	582.24	Above
		Percentage		89%	
A2	Podium-deck amenity space (western section)	Area m2	252.57	166.23	Above
		Percentage		66%	
A3	Podium-deck amenity space (courtyard)	Area m2	1204.47	1097.72	Above
		Percentage		91%	

7.12 The results of the shadow analysis demonstrate that both the courtyard amenity space and the children's playspace will be fully compliant with the BRE guidelines for overshadowing. More than 50% of the amenity area will receive at least two hours of direct sunlight on 21st March (which represents the average sunlight availability throughout the year) while the vast majority of both their areas (91% and 89% respectively) will receive direct sunlight during the summer months when they are expected to be mainly in use. The positive results in relation to courtyard amenity space are a result of the reduced height of the southern section of the block enclosing it.

7.13 With regards to the second podium-deck amenity space, access to sunlight during the winter months will be compromised due to its enclosure by the massing of the scheme to the south-east, south and south-west and lower position of sun during the winter months. However, the amenity will fully comply with the overshadowing criteria on 21st June, and will therefore be well sunlit during the summer months when it is expected to be mainly in use.

7.14 In conclusion, the results of the overshadowing analysis demonstrate a very good level of compliance for both the neighbouring and proposed amenity spaces for a large -scale development in a town centre.

8.0 Summary and Conclusions

- 8.1 The assessment has considered the effects of the development at the Morrisons site, 43-67 High St, Yiewsley, UB7 7QQ, on the levels of daylight and sunlight received by the neighbouring residential accommodation, as well as the levels of overshadowing to the neighbouring amenity spaces. It has also considered the levels of natural light that will be experienced within the proposed residential units in the development itself, as well as the levels of sunlight and shadow that will be received by its proposed amenity spaces.
- 8.2 Overall, the assessment has considered the effects of the development on the daylight levels experienced by 278 windows serving the existing neighbouring properties. Furthermore, 88 site-facing habitable rooms of five of these properties have been modelled and assessed in terms of interior daylight levels. Of the windows tested, 62 are orientated within 90° of due south and have also been tested in terms of sunlight availability.
- 8.3 Within the proposed development, the assessment has considered the levels of natural light that will be received within all of the proposed residential units across the development. This comprises 595 windows serving 419 habitable rooms within the development's 144 residential units. Of these windows, 345 are orientated within 90° of due south and have also been tested in terms of sunlight availability.
- 8.4 With the arrival of Crossrail to West Drayton, the area is experiencing growth in the number of large-scale residential-led developments. Several of these developments are located in proximity of the site and there are other emerging schemes in the wider area. The daylight, sunlight and overshadowing results for the Morrisons scheme need to be considered in the context of this increased development activity and ambitious vision of Hillingdon Council.
- 8.5 The following summarises the daylight, sunlight and overshadowing results.

Daylight

- 8.6 In summary, the daylight results for the neighbouring residential properties illustrate that the Morrisons development will have an acceptable level of impact on the properties' daylight levels. The results of the daylight analysis demonstrate that just under 50% of the windows serving the neighbouring properties will retain the VSC levels above the BRE guide levels and the majority of the windows with the VSC levels below the BRE guide levels will experience only marginal impacts. In terms of the internal daylight levels, the DD results demonstrate that c. 64% of the habitable rooms tested will meet the BRE guidelines while c. 74% will satisfy the ADF criteria. These are good levels of interior daylight compliance for a fast-growing area with large-scale developments. Furthermore, most of the rooms facing the site serve kitchens or bedrooms which the BRE guide levels considers as less important than main habitable rooms.
- 8.7 Where there are more significant impacts, this is mainly a result of the neighbouring building's own design features, narrow building-to-building separation due to the limited width of St. Stephens Road and the current low-rise character at the site. This creates an unusual baseline condition for a development in a town centre location. The results of the daylight assessment without the balconies demonstrate a significantly better compliance ratio, where c. 69% of the windows facing the site would fully comply with the BRE guidelines for VSC while c. 82% of the rooms they serve would meet the ADF criteria for the respective room uses.
- 8.8 It is, therefore, concluded that the effects of the development on the daylight levels experienced by the neighbouring properties are acceptable in the context of the site, proposed development, emerging dense urban character of the area, BRE guidance and relevant planning policy.

- 8.9 With regards to the daylight levels within the proposed units, the ADF and DD results demonstrate that c. 93% and c. 92% of the rooms will achieve the BS/BRE guide levels for their respective room types. These are very good levels of compliance for interior daylighting for a higher density urban development project in a town centre location in Outer London. They reflect the positive outcome of the iterative design process in coordination with the Hester Architects which aimed at maximising the interior daylight levels across the scheme, with a particular emphasis on the main habitable room.
- 8.10 In conclusion, it is considered that the proposed residential units across the scheme have been well designed and will provide good standards of residential amenity in terms of interior daylighting to its future occupiers.

Sunlight

- 8.11 For sunlight, the results of the analyses show that c. 89% and c. 84% of the windows which face within 90° of due south will comply with the BRE guidelines for the annual and winter sunlight criteria respectively. Furthermore, the results of the sunlight assessment without the balconies/projecting architectural features demonstrate an improved compliance ratio for both the annual and winter sunlight.
- 8.12 In conclusion, it is considered that that the proposed development will not adversely impact on the current levels of sunlight enjoyed by the neighbouring residential properties, and the retained levels of sunlight to the small number of windows falling below the sunlight criteria will be good for a town centre location.
- 8.13 The results of the sunlight analyses for the proposed units demonstrate that the windows which will experience the annual sunlight levels below the BRE guidelines are either constrained due to their close proximity to the neighbouring buildings or are positioned below a projecting balcony serving a unit above. However, lower sunlight levels are expected in large-scale higher density developments which are in line with the GLA and local policies and provide private amenity space in the form of balconies. In this context, the amenity benefits associated with the balconies offset the associated lower sunlight levels to the window. Furthermore, the proposed units will be receiving greater amount of sunlight during the winter months when direct sunlight is more sought after. In fact, c. 78% of the tested windows will either fully comply with the guide levels for winter sunlighting, or the will just fall marginally below the guidelines. Finally, as mentioned above, the vast majority of the proposed units (c. 93%) will be enjoying good levels of interior daylight, which is a better indication of the natural light condition within a room.
- 8.14 In conclusion, the proposed south-facing units will experience acceptable levels of sunlight availability in the context of the proposed development, amenity benefits associated with the balconies serving all the proposed units, BRE guidance and relevant planning policy.

Overshadowing

- 8.15 For overshadowing to neighbouring amenity spaces, all but one amenity space serving the property at 71 High Street will fully comply with the BRE guide levels for overshadowing on 21st March, and therefore will retain adequate levels of direct sunlight all year-round. Most importantly, the overshadowing results show that the playground of St. Stephen's School will experience a negligible effect to its current levels of direct sunlight and it will continue to be adequately lit to almost its entire area throughout the year. Furthermore, all the neighbouring amenity spaces, including the amenity serving the property at 71 High Street, will be well sunlit during the summer months with no additional effect as a result of the proposed development.

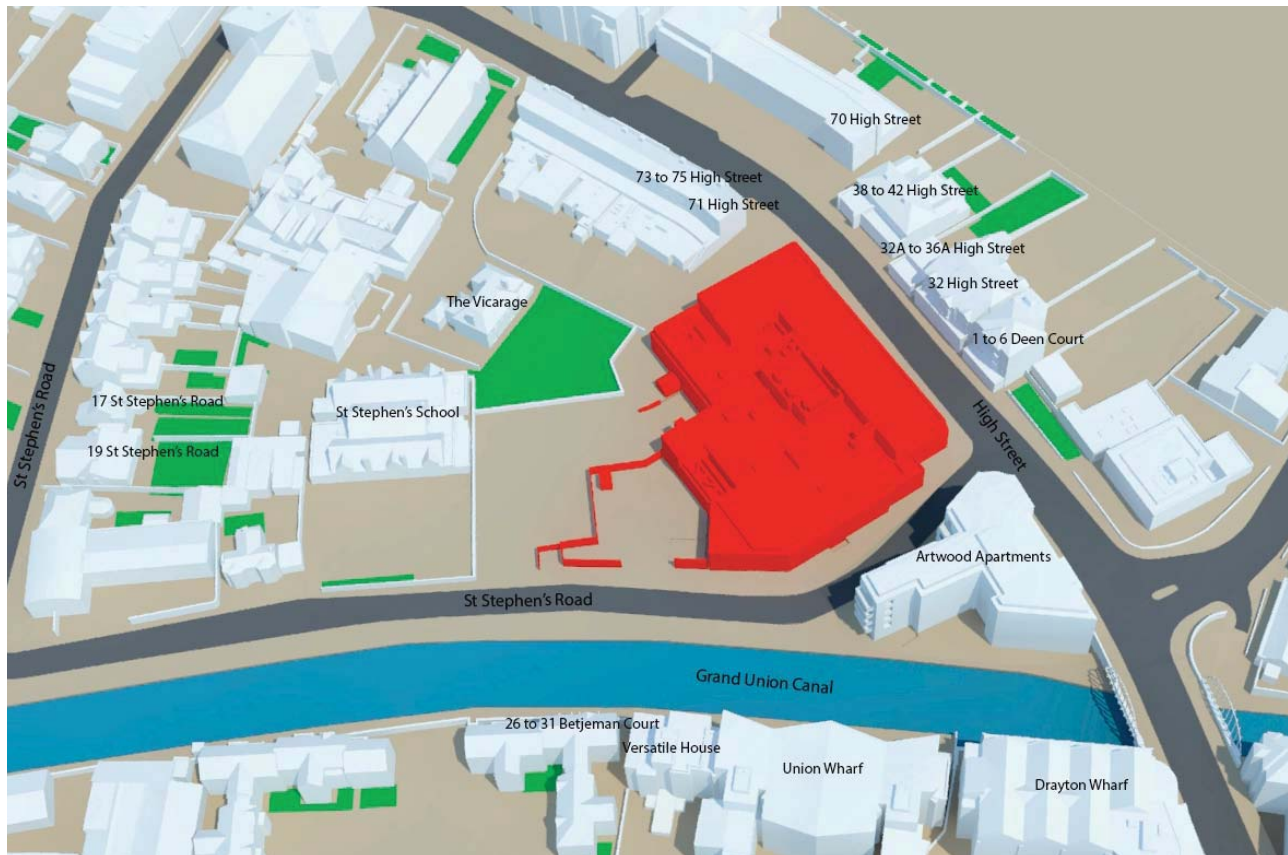
- 8.16 In terms of the sun/shadow levels to the proposed amenity spaces, the results demonstrate the both the courtyard amenity space and the children's playspace are fully compliant with the BRE guidelines for overshadowing on 21st March while the vast majority of both their areas (91% and 89% respectively) will receive direct sunlight during the summer months when they are expected to be mainly in use. With regards to the second podium-deck amenity space, while access to sunlight during the winter months will be compromised due to its enclosure by the massing of the scheme and lower position of sun during the winter months, the amenity will be well sunlit during the summer months when it is again expected to be mainly in use.
- 8.17 In conclusion, the results of the overshadowing analysis demonstrate a very good level of compliance for both the neighbouring and proposed amenity spaces for a large -scale development in a town centre location.

Overall Conclusions

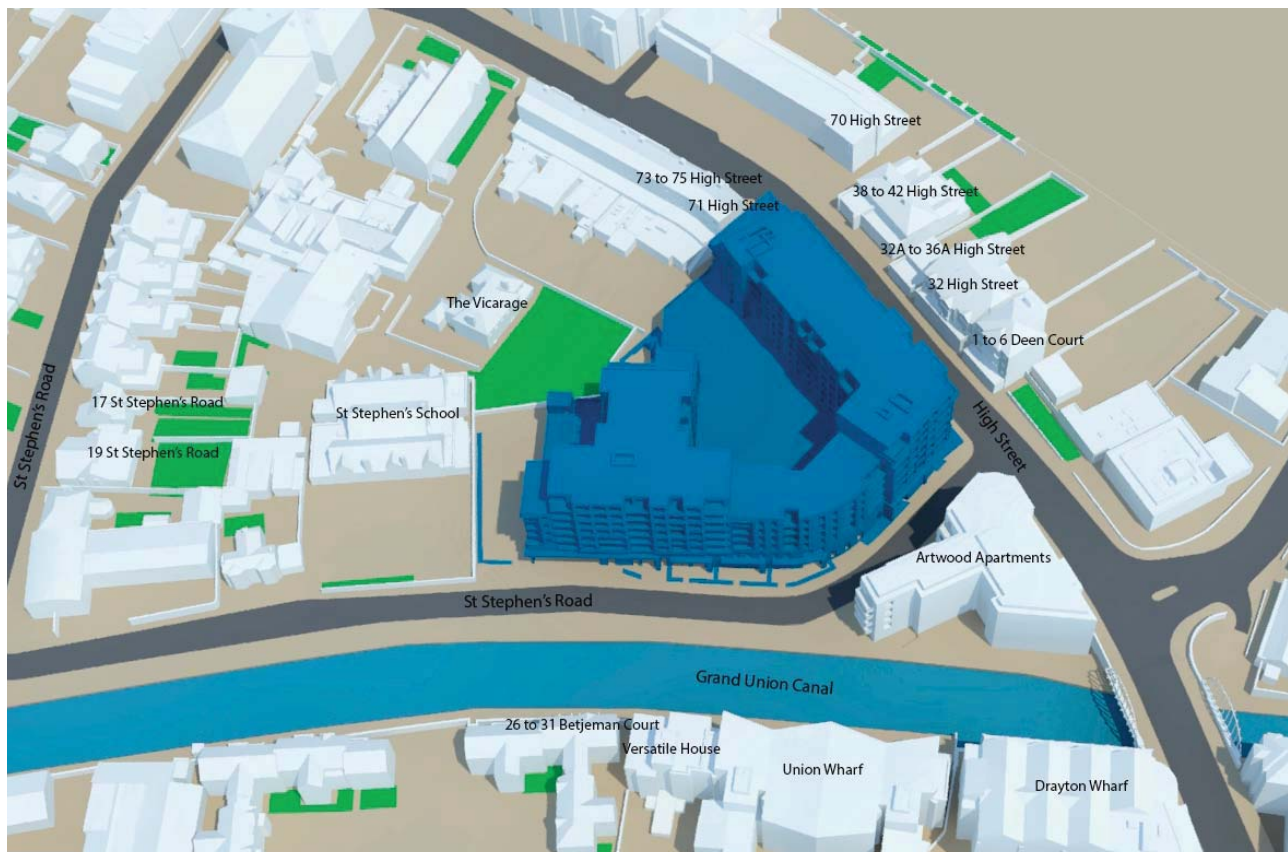
- 8.18 The proposed development is located within the West Drayton area which is currently experiencing growth and development activity. The proposed development has been designed to mitigate against lower levels of natural light across the proposed units, as well as within the immediate neighbouring residential accommodation, while responding to the emerging urban character of the area and ensuring that the site is efficiently utilised to deliver much needed housing in the Borough.
- 8.19 The results of the assessment demonstrate that the neighbouring residential accommodation and the proposed residential units will receive good levels of daylight and sunlight following construction of the proposed development, while the proposed amenity spaces will be well sunlit throughout the year. While the assessment has shown that the development will result in some deviation from the BRE guidelines in relation to neighbouring residential flats, the effects are typical of development project in a fast-growing high-density urban area.
- 8.20 In conclusion, the proposed development will not give rise to any materially unacceptable daylight and sunlight effects in the context of the site, emerging urban character of the area, BRE guidelines and relevant planning policy.

Appendix 1

Assessment Model



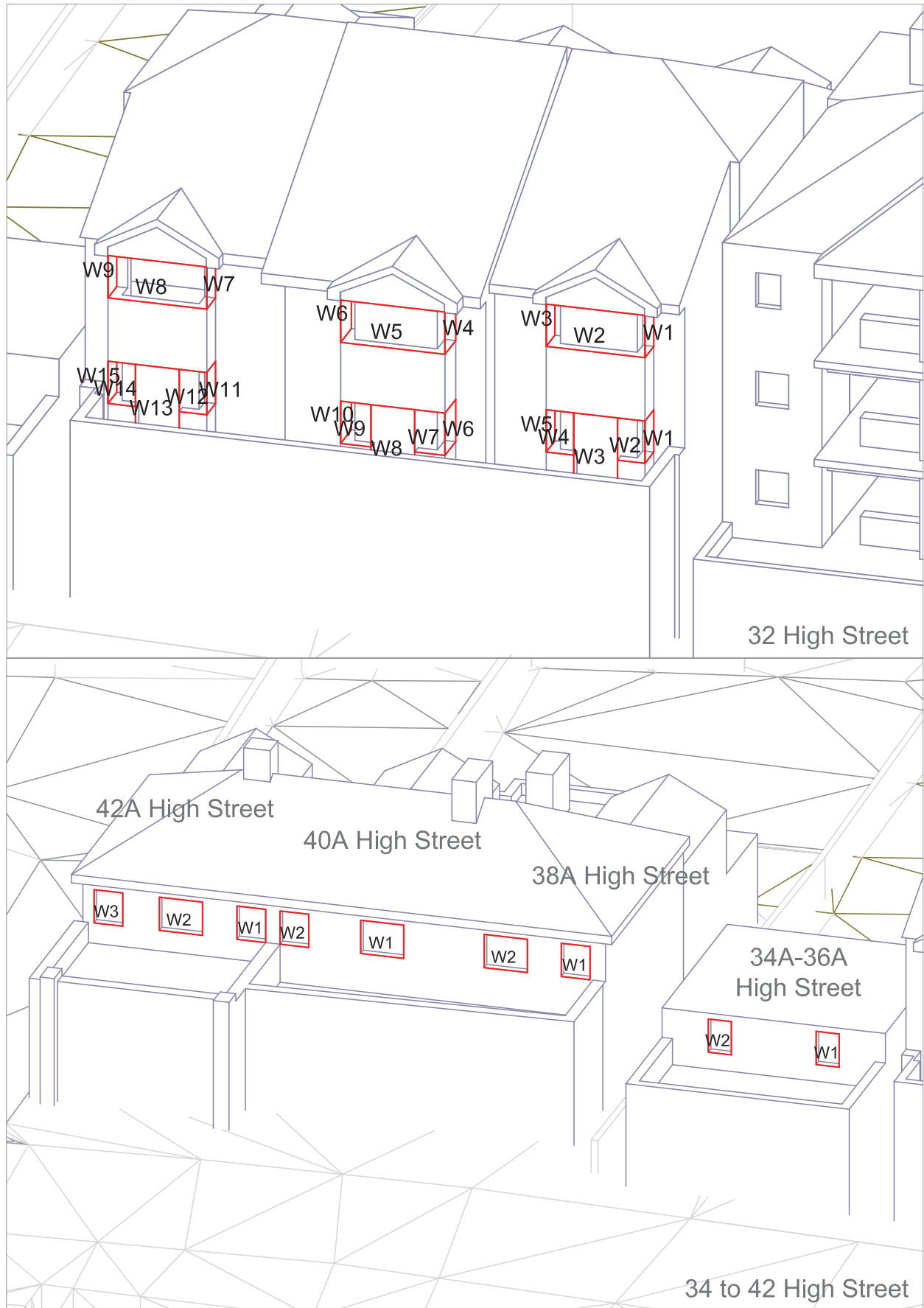
Model as Existing



Model as Proposed

Appendix 2

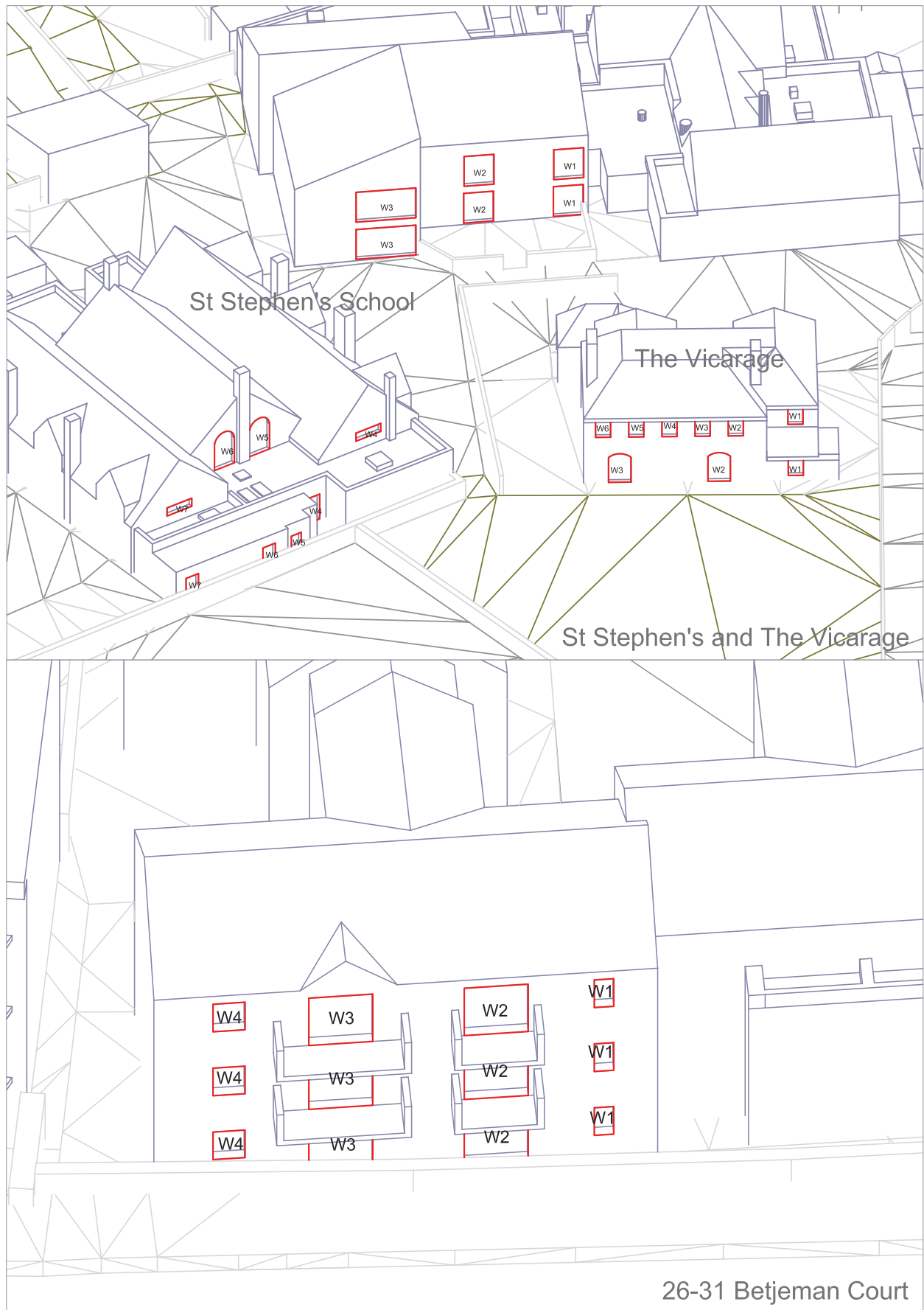
Window Maps and Room
Reference Plans for
Existing Neighbouring
Buildings



Neighbours Windows Assessed



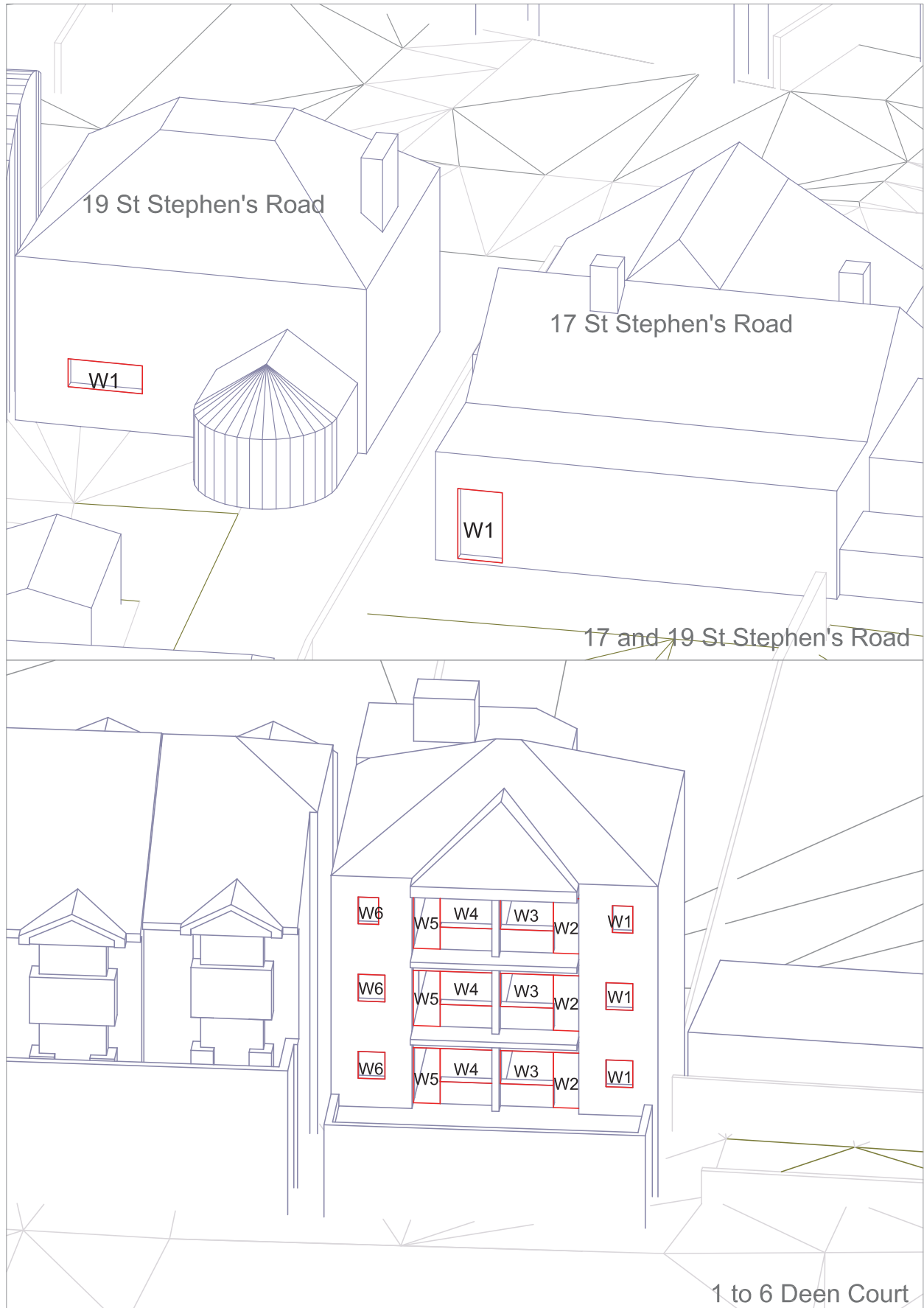
Neighbours Windows Assessed



Neighbours Windows Assessed



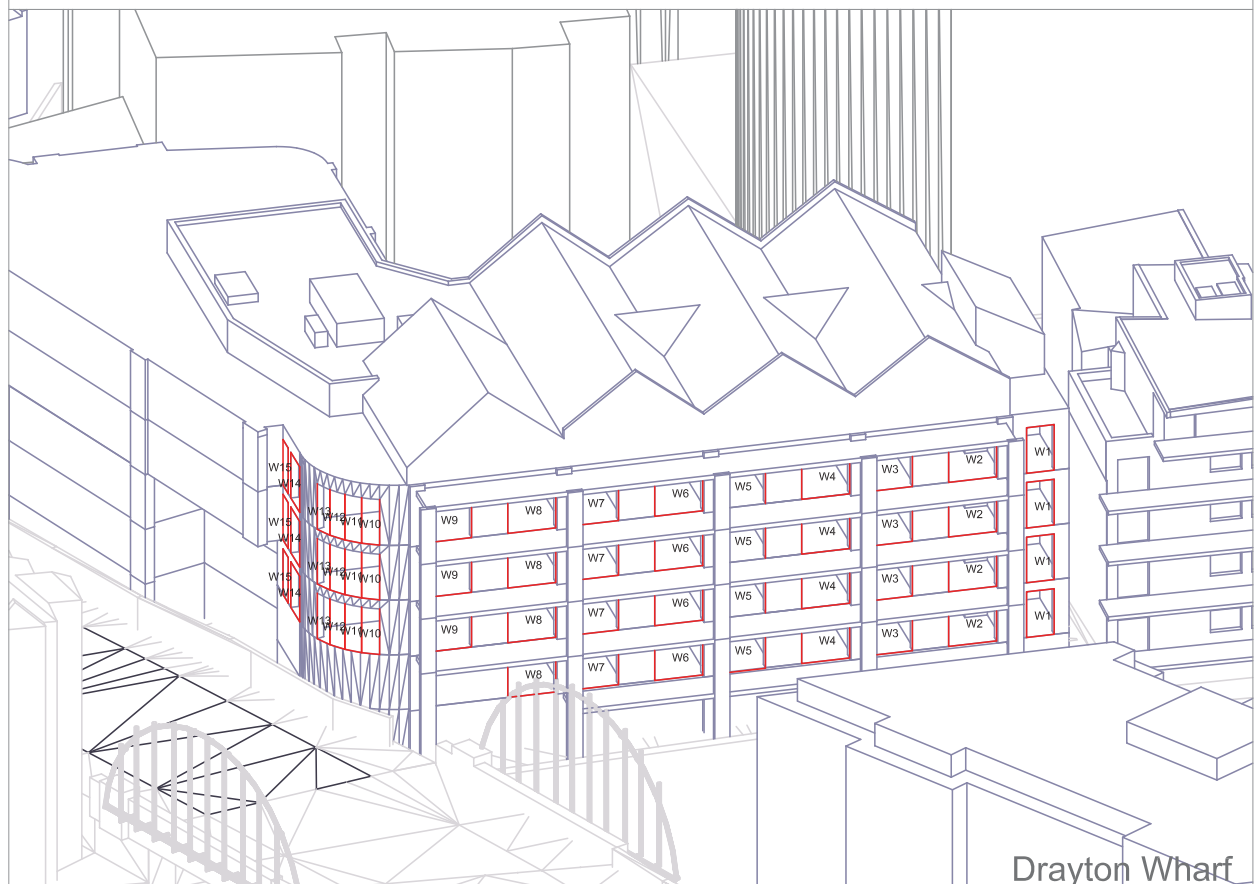
Neighbours Windows Assessed



Neighbours Windows Assessed

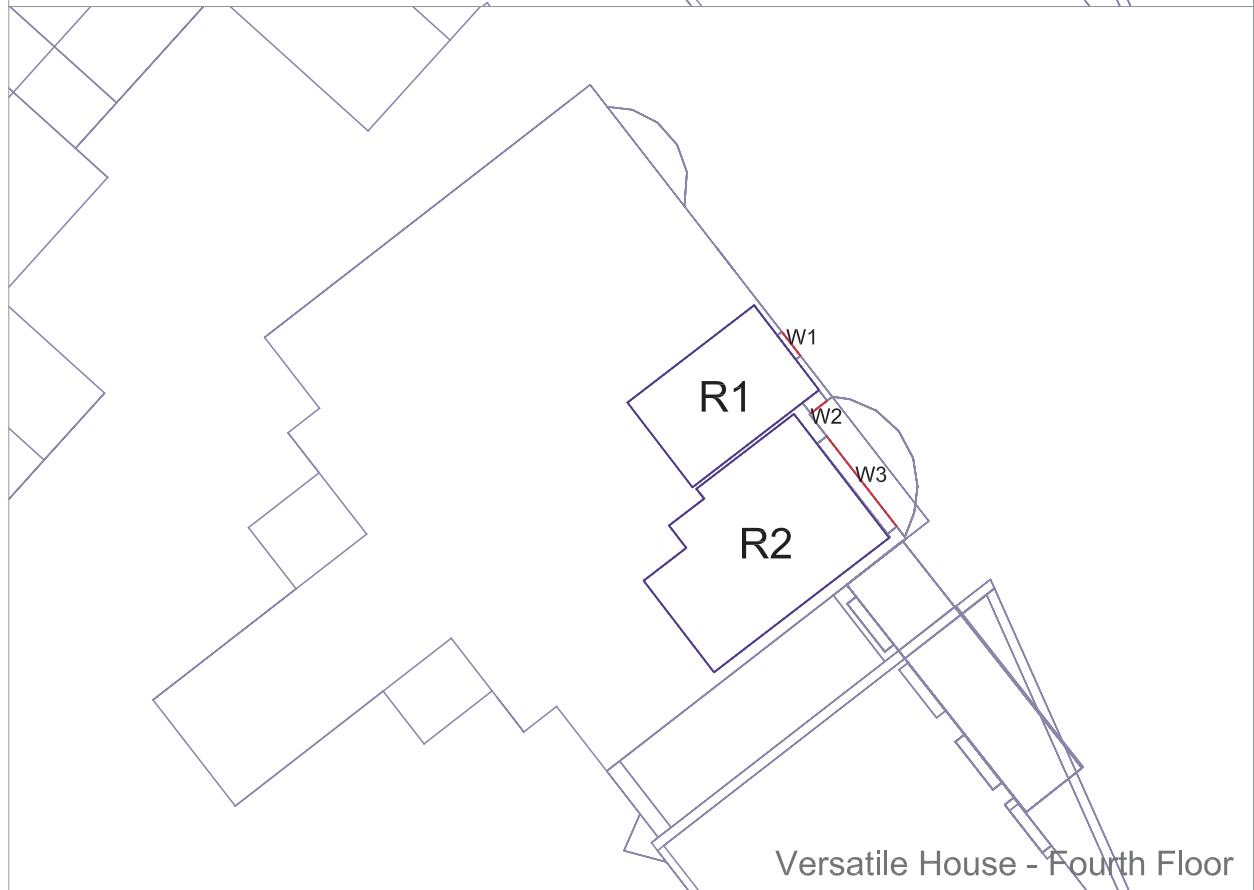
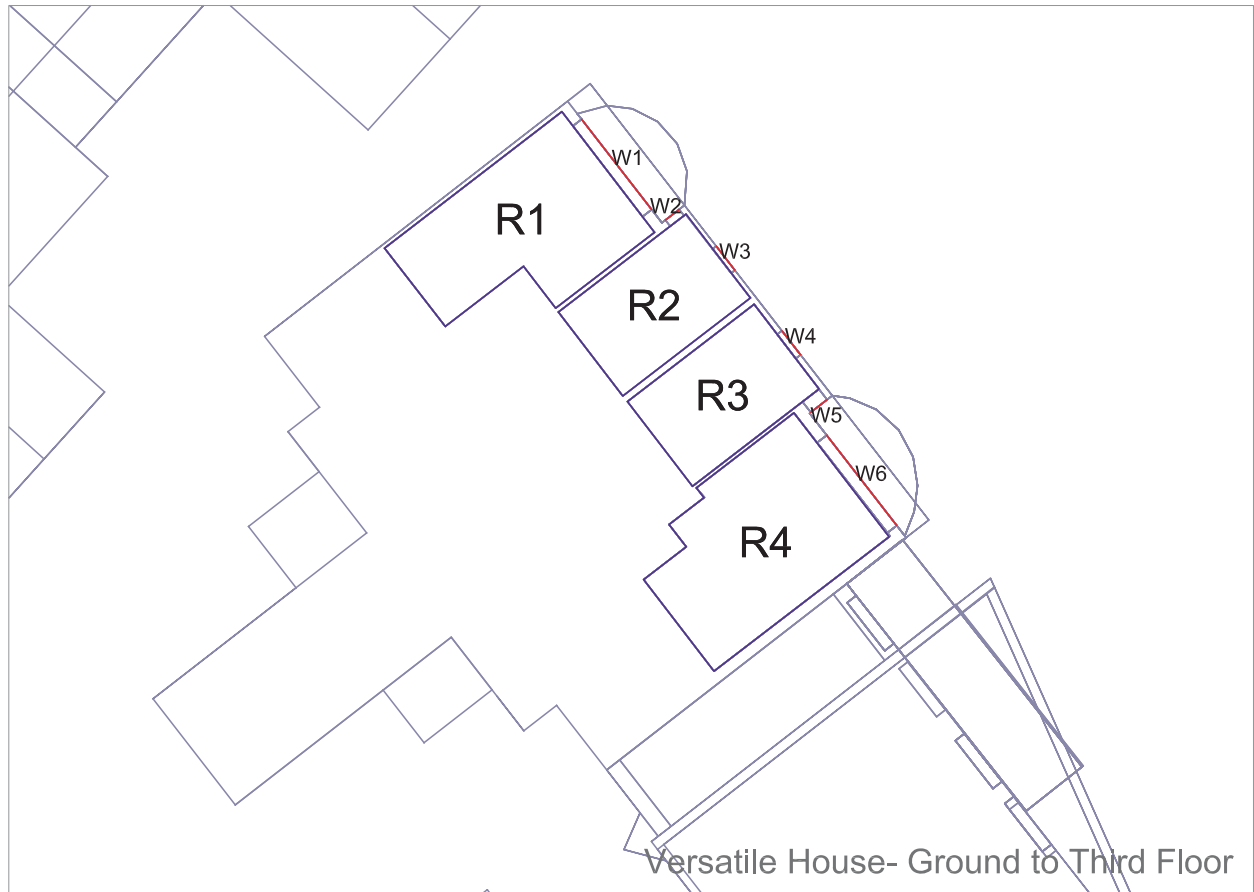


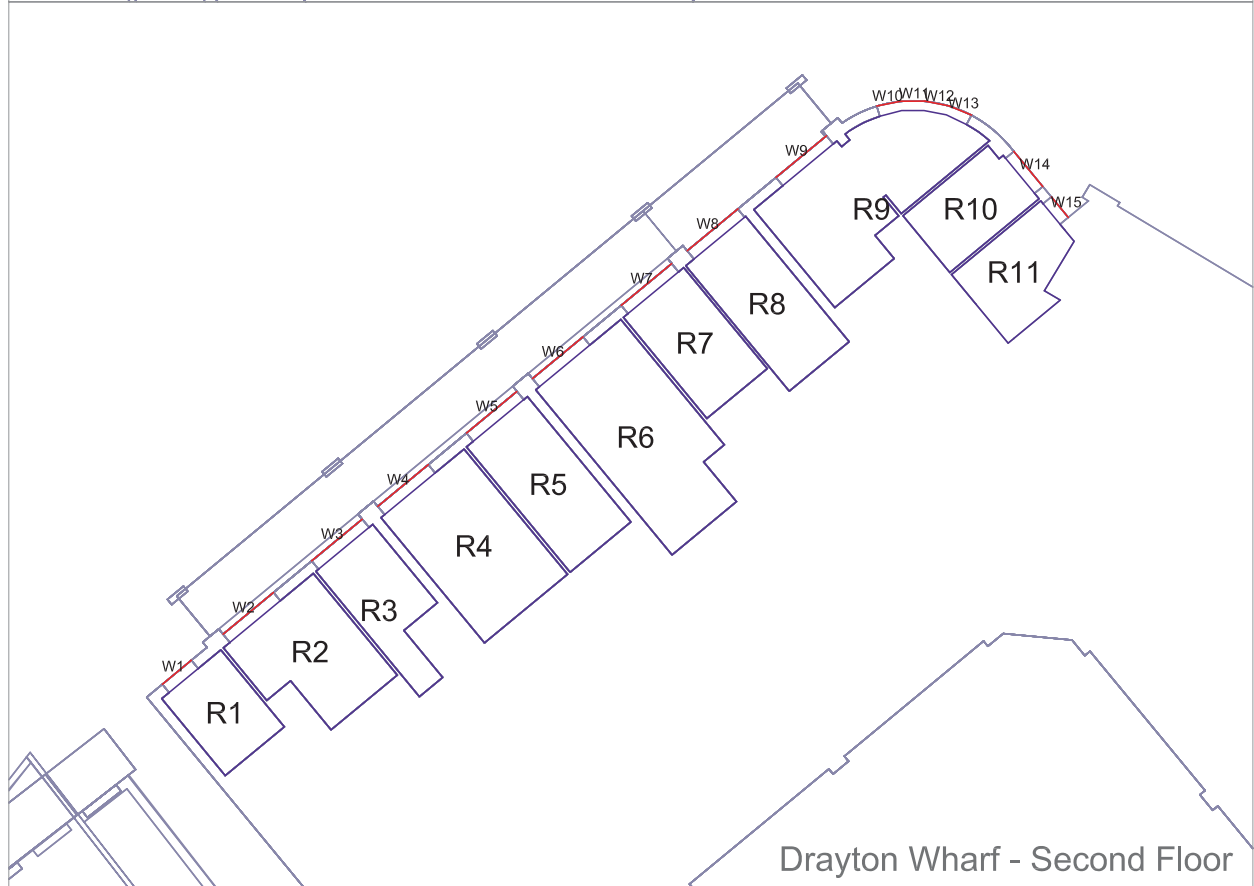
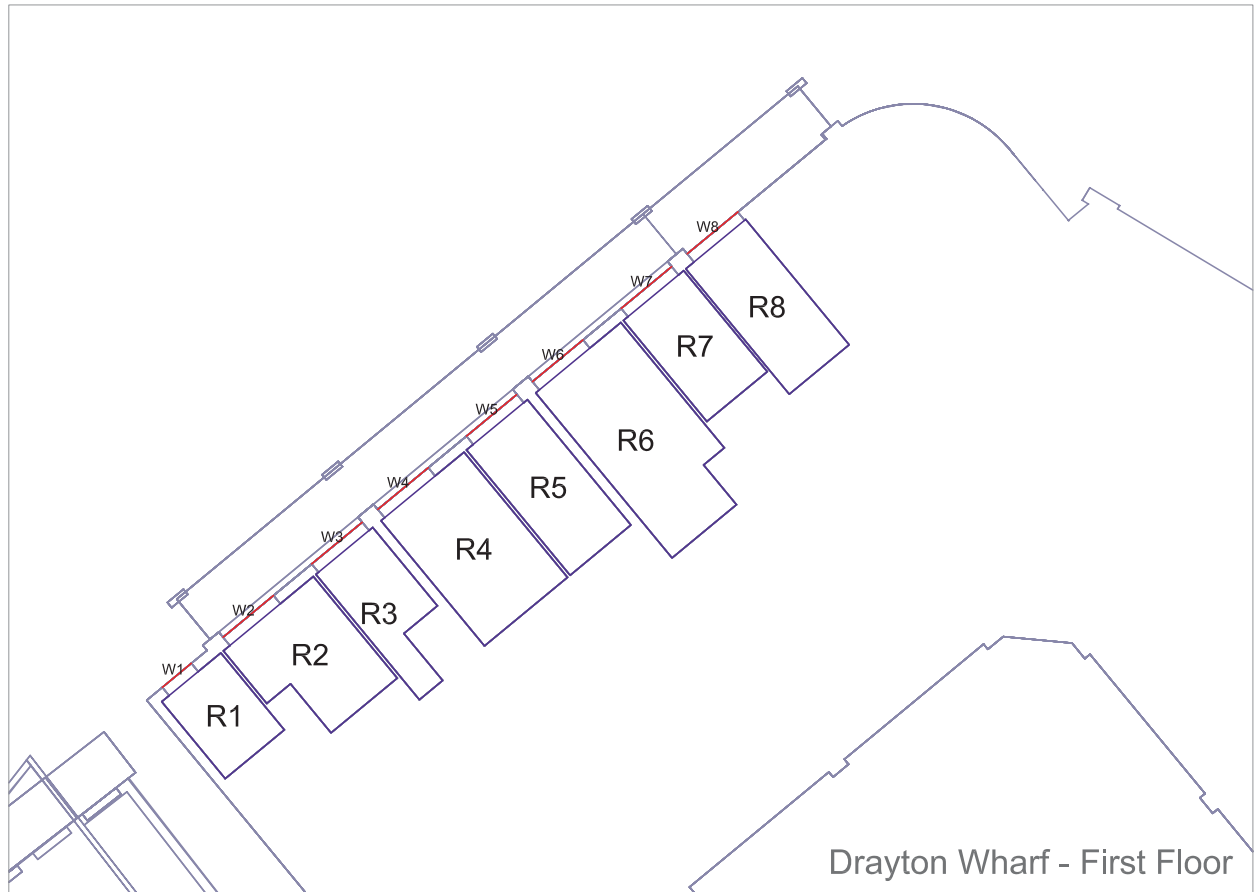
Versatile House



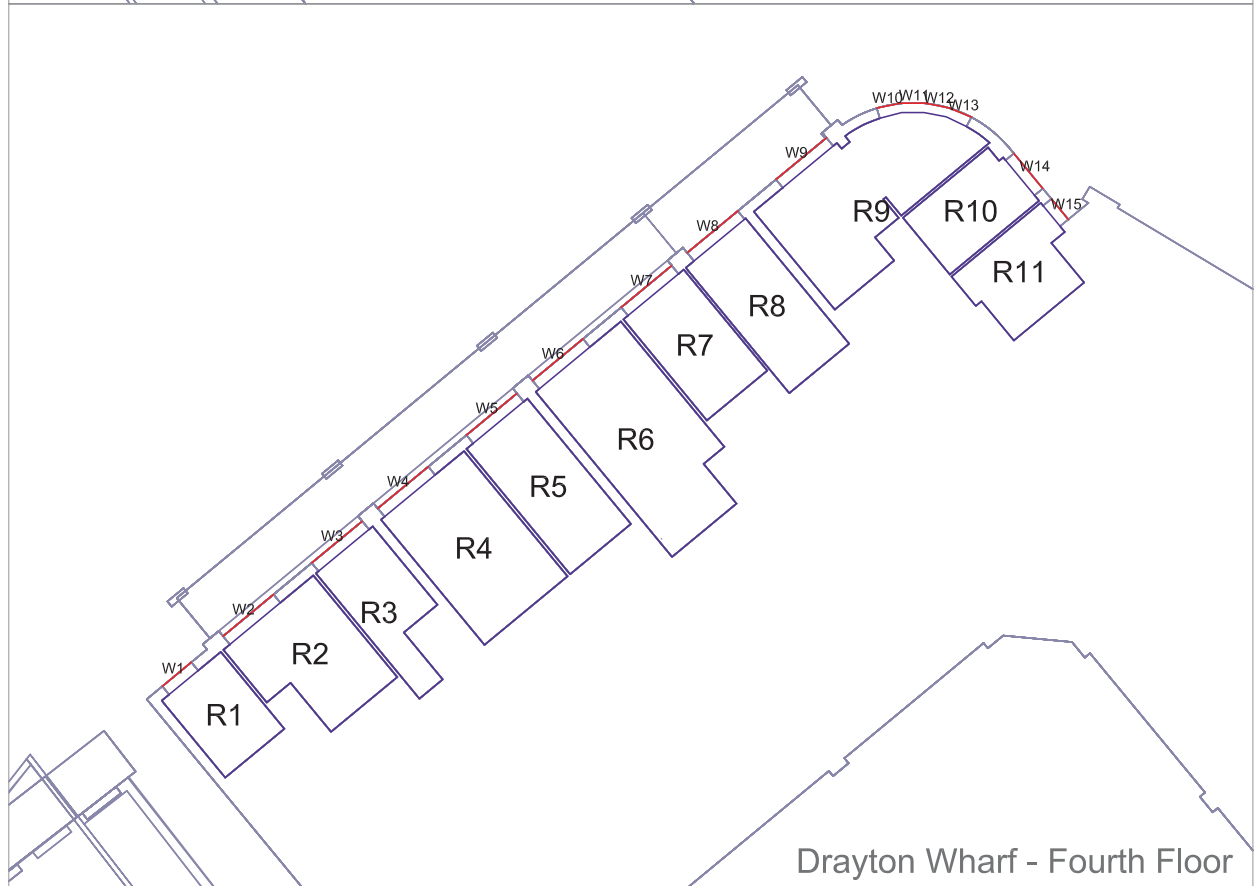
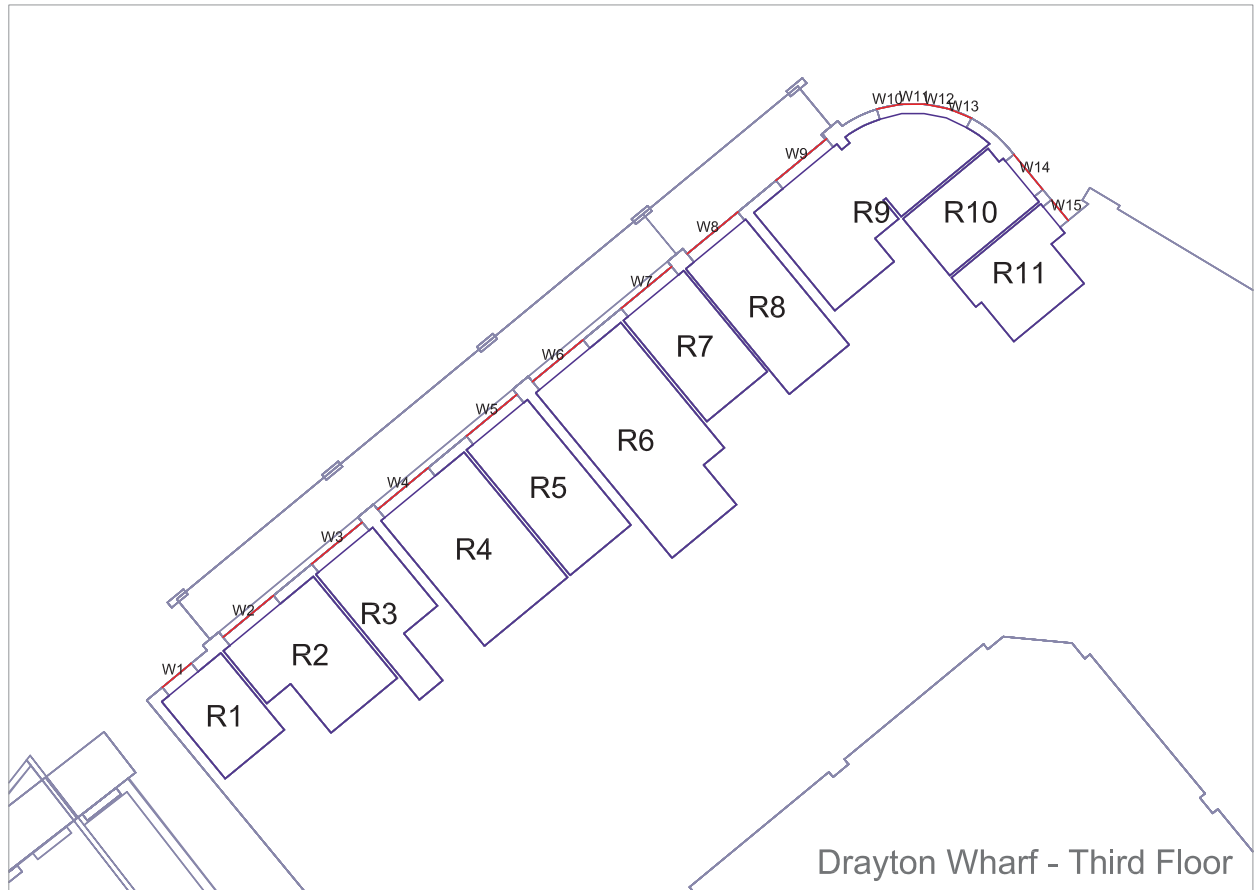
Drayton Wharf

Neighbours Windows Assessed

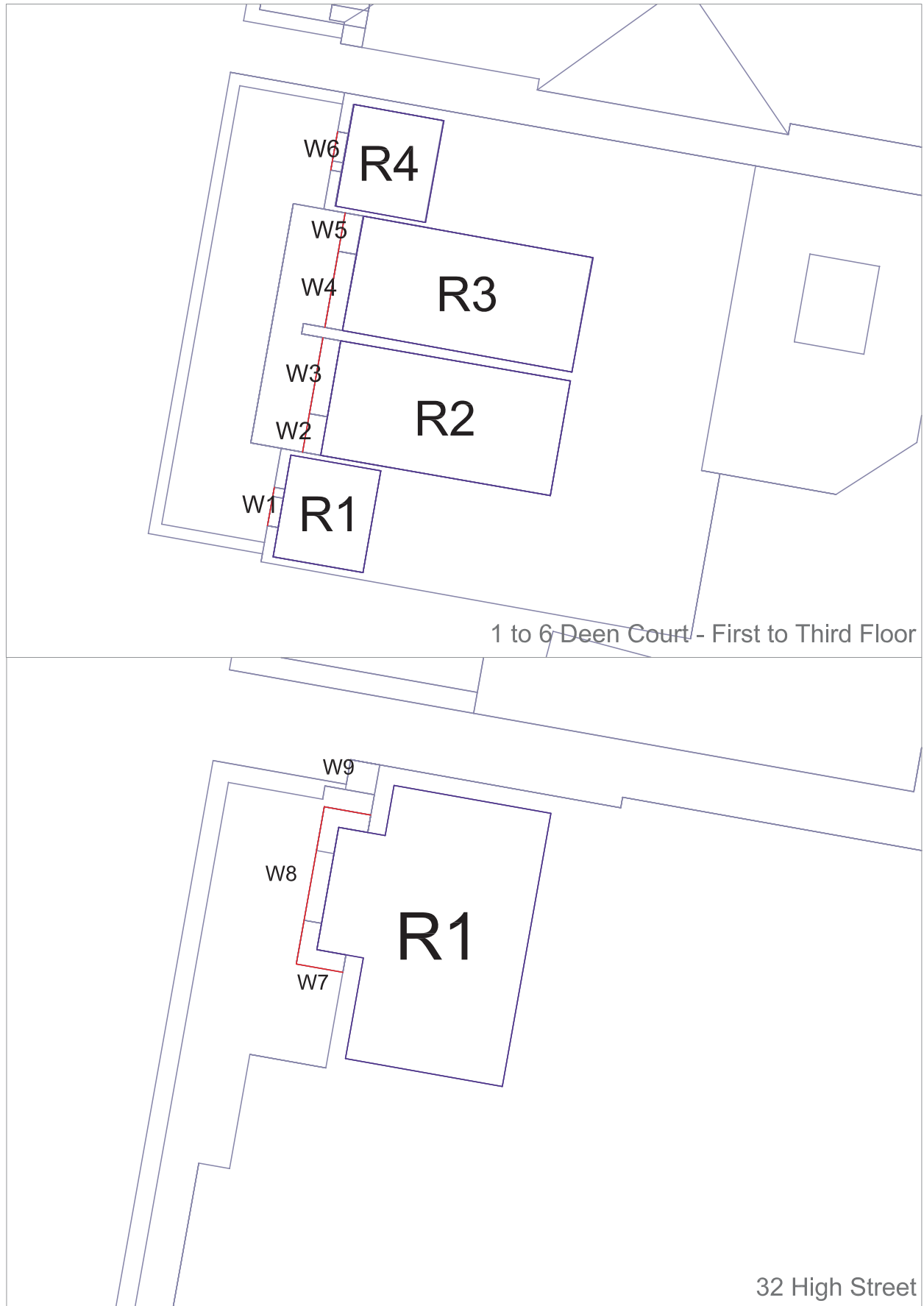




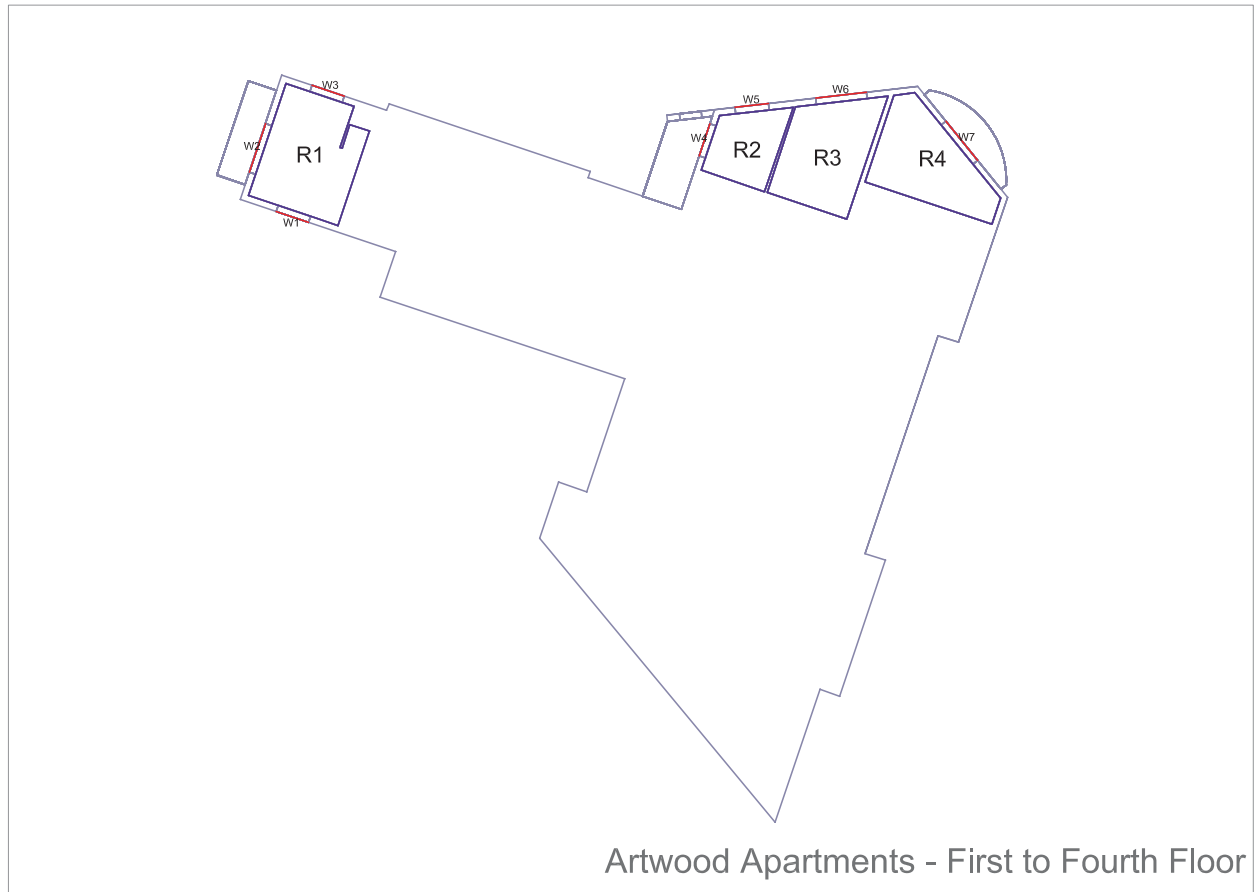
Neighbours Rooms and Windows Assessed



Neighbours Rooms and Windows Assessed

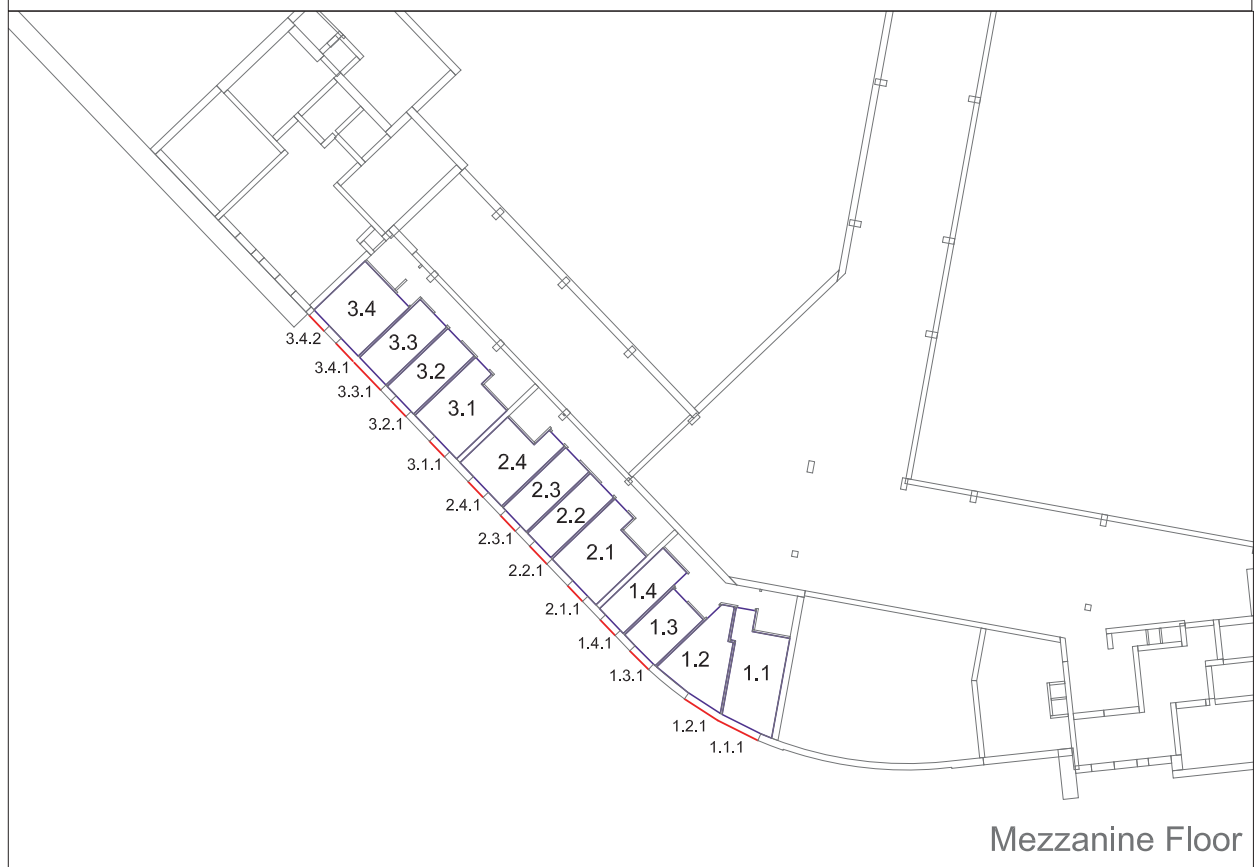
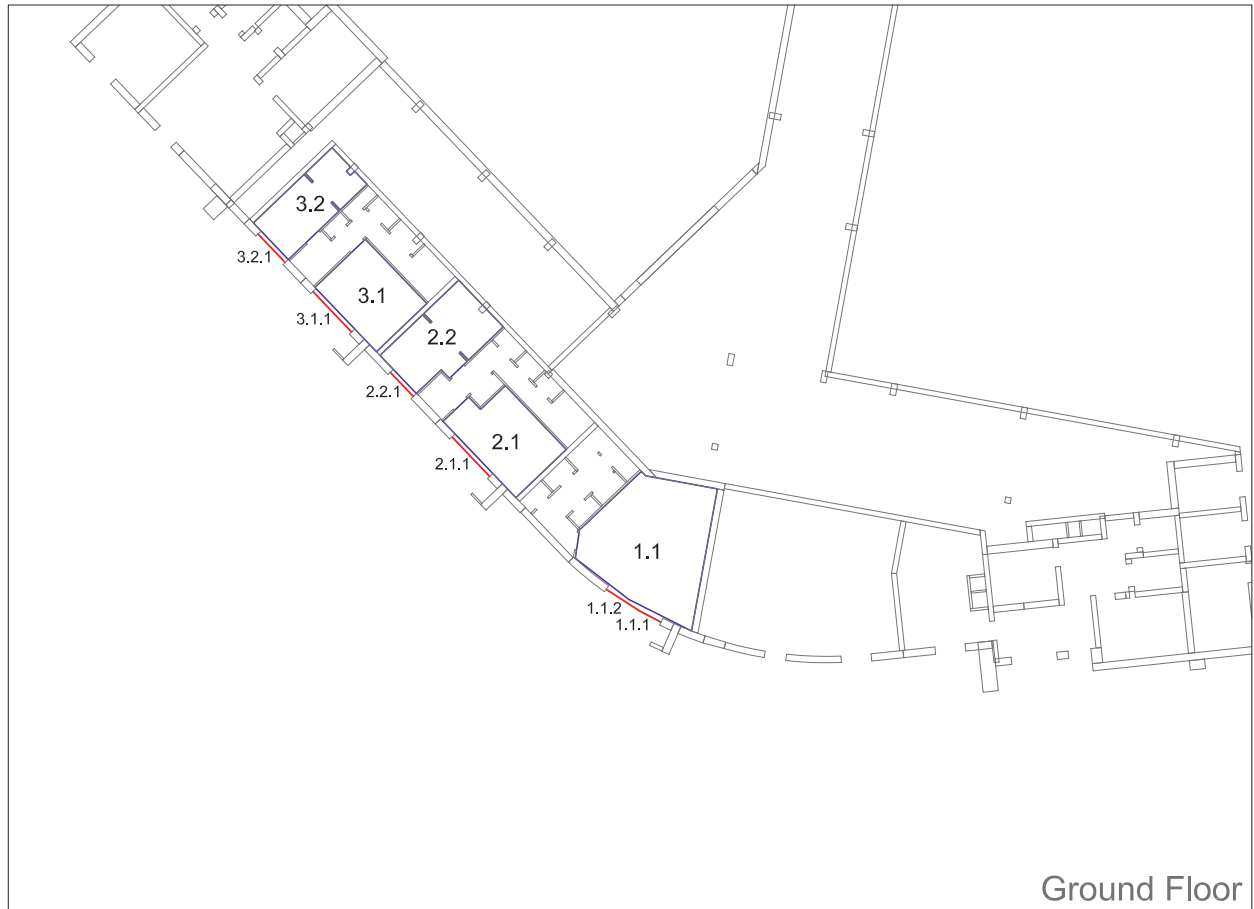


Neighbours Rooms and Windows Assessed

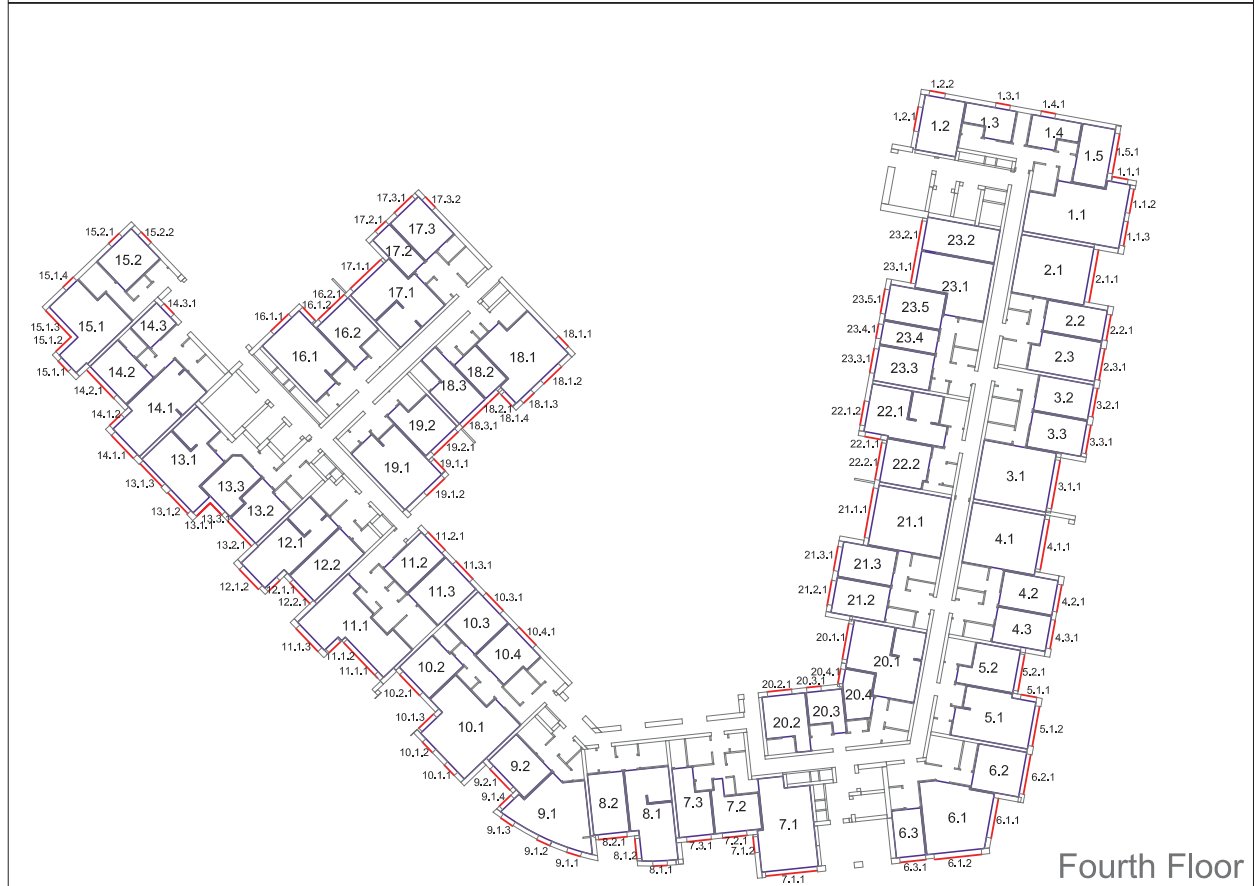
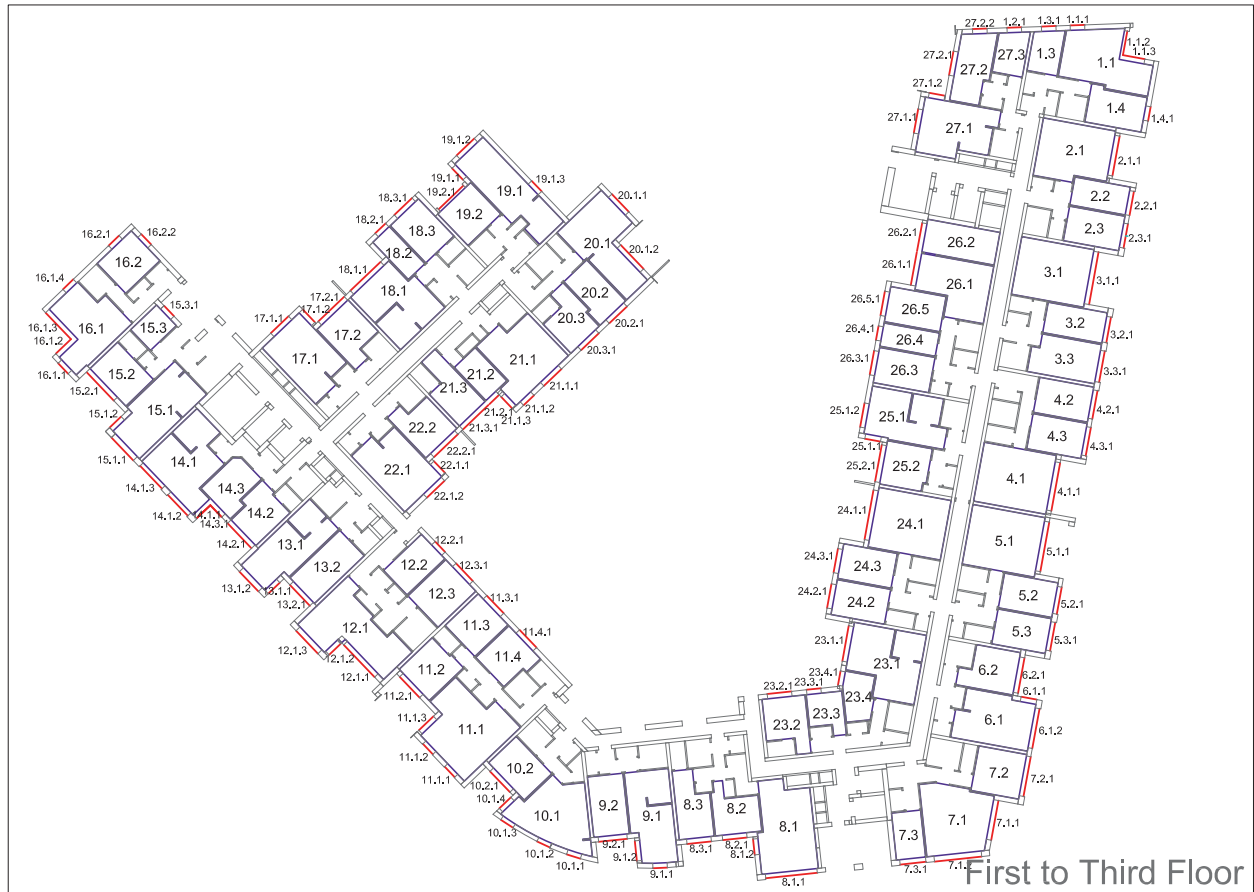


Appendix 3

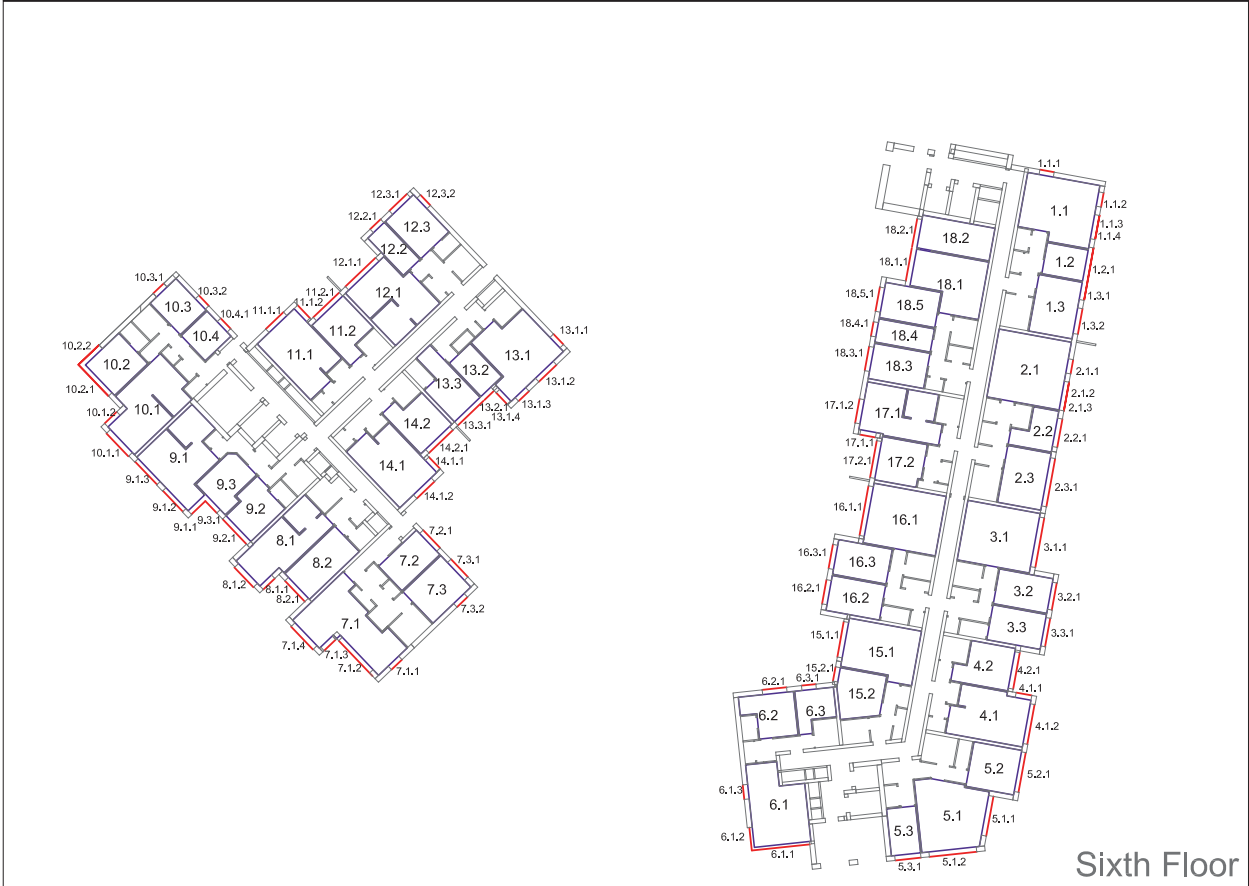
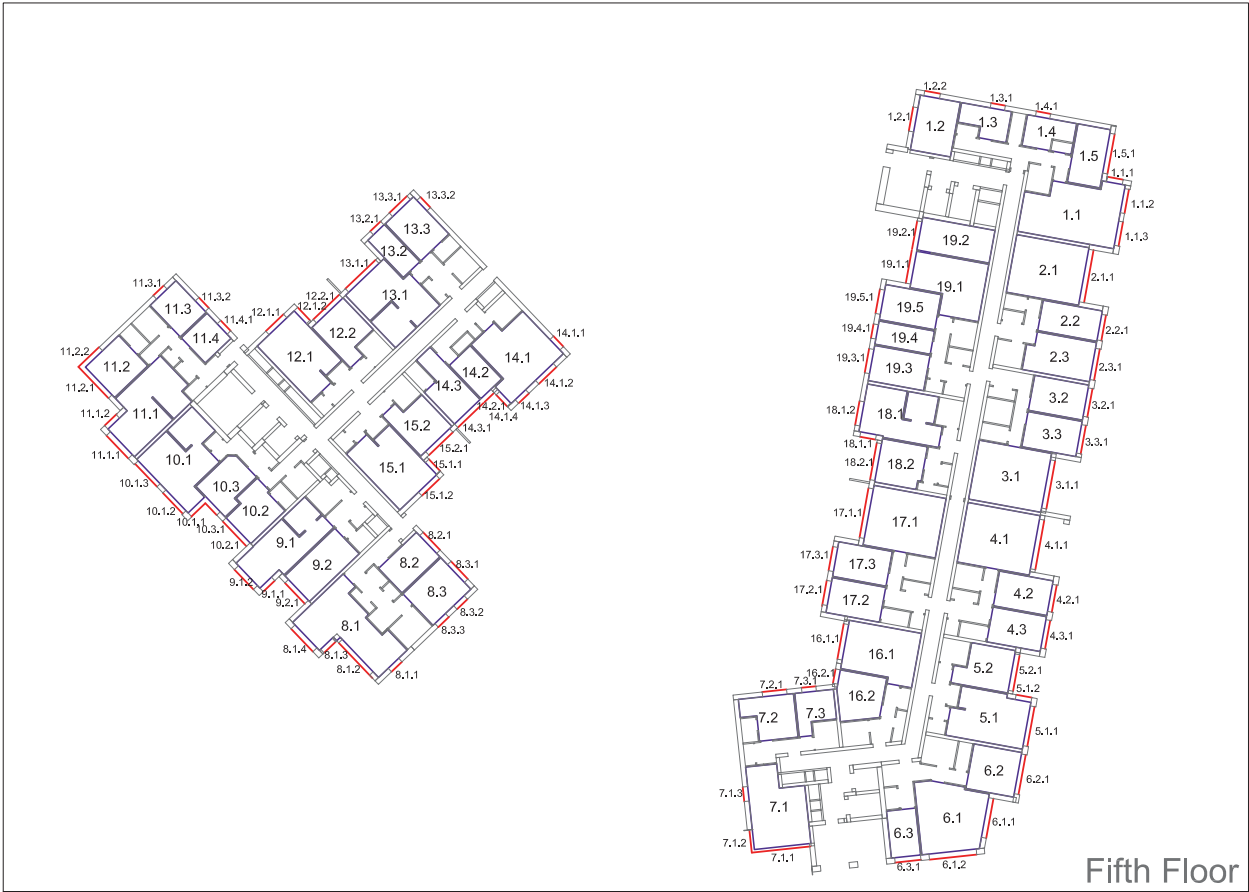
Reference Plans for
Proposed Development



Proposed Rooms and Windows Assessed



Proposed Rooms and Windows Assessed



Proposed Rooms and Windows Assessed

Appendix 4[A]

VSC and Sunlight Results
for Existing Neighbouring
Buildings

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings															
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
1 to 6 Deen Court															
First	R1	Kitchen-Resi	W1	Existing Proposed	30.58 17.55	0.57	Below	280°N	North Facing						
	R2	Living Room	W2	Existing Proposed	13.35 2.97	0.22	Below	280°N	North Facing						
			W3	Existing Proposed	15.60 3.31	0.21	Below	280°N	North Facing						
	R3	Living Room	W4	Existing Proposed	15.62 2.55	0.16	Below	280°N	North Facing						
			W5	Existing Proposed	12.63 2.29	0.18	Below	280°N	North Facing						
	R4	Kitchen-Resi	W6	Existing Proposed	29.68 14.81	0.49	Below	280°N	North Facing						
Second	R1	Kitchen-Resi	W1	Existing Proposed	34.04 19.78	0.58	Below	280°N	North Facing						
	R2	Living Room	W2	Existing Proposed	16.45 3.29	0.20	Below	280°N	North Facing						
			W3	Existing Proposed	19.06 4.36	0.22	Below	280°N	North Facing						
	R3	Living Room	W4	Existing Proposed	19.20 3.63	0.18	Below	280°N	North Facing						
			W5	Existing Proposed	15.88 3.02	0.19	Below	280°N	North Facing						
	R4	Kitchen-Resi	W6	Existing Proposed	34.08 17.34	0.50	Below	280°N	North Facing						
Third	R1	Kitchen-Resi	W1	Existing Proposed	37.28 22.58	0.60	Below (M)	280°N	North Facing						
	R2	Living Room	W2	Existing Proposed	15.06 2.89	0.19	Below	280°N	North Facing						
			W3	Existing Proposed	18.21 3.44	0.18	Below	280°N	North Facing						
	R3	Living Room	W4	Existing Proposed	18.39 2.76	0.15	Below	280°N	North Facing						
			W5	Existing Proposed	14.63 2.39	0.16	Below	280°N	North Facing						
	R4	Kitchen-Resi	W6	Existing Proposed	37.68 20.36	0.54	Below	280°N	North Facing						
32 High Street															
First	No-Room		W1	Existing Proposed	16.32 13.22	0.81	Above	190°	35 22	0.62	Below (M)	8 7	0.87	Above	
	No-Room		W2	Existing Proposed	32.54 15.72	0.48	Below	280°N	North Facing						
	No-Room		W3	Existing Proposed	32.55 15.56	0.47	Below	280°N	North Facing						
	No-Room		W4	Existing Proposed	32.00 15.00	0.46	Below	280°N	North Facing						
	No-Room		W5	Existing Proposed	9.30 4.57	0.49	Below	10°N	North Facing						
	No-Room		W6	Existing Proposed	18.96 14.80	0.78	Below (M)	190°	41 28	0.68	Above	11 9	0.81	Above	
	No-Room		W7	Existing Proposed	32.57 14.79	0.45	Below	280°N	North Facing						
	No-Room		W8	Existing Proposed	32.77 14.88	0.45	Below	280°N	North Facing						
	No-Room		W9	Existing Proposed	32.61 14.79	0.45	Below	280°N	North Facing						
	No-Room		W10	Existing Proposed	19.18 14.35	0.74	Below (M)	10°N	North Facing						
	No-Room		W11	Existing Proposed	11.33 6.74	0.59	Below	190°	28 11	0.39	Below	6 2	0.33	Below	
	No-Room		W12	Existing Proposed	32.61 15.45	0.47	Below	280°N	North Facing						
	No-Room		W13	Existing Proposed	32.95 15.75	0.47	Below	280°N	North Facing						
	No-Room		W14	Existing Proposed	32.88 15.80	0.48	Below	280°N	North Facing						
	No-Room		W15	Existing Proposed	25.06 21.03	0.83	Above	10°N	North Facing						
	Second	No-Room		W1	Existing Proposed	13.78 10.54	0.76	Below (M)	190°	27 15	0.55	Below	9 7	0.77	Above
No-Room			W2	Existing Proposed	36.59 18.23	0.49	Below	280°N	North Facing						
No-Room			W3	Existing Proposed	10.59 5.76	0.54	Below	10°N	North Facing						
No-Room			W4	Existing Proposed	17.06 12.74	0.74	Below (M)	190°	28 13	0.46	Below	11 8	0.72	Above	
No-Room			W5	Existing Proposed	36.57 17.09	0.46	Below	280°N	North Facing						
No-Room			W6	Existing Proposed	15.94 10.86	0.68	Below (M)	10°N	North Facing						
R1		Studio-Apt	W7	Existing Proposed	10.40 5.70	0.54	Below	190°	26 10	0.38	Below	8 3	0.37	Below	
			W8	Existing Proposed	36.82 18.30	0.49	Below	280°N	North Facing						
			W9	Existing Proposed	21.50 17.35	0.80	Above	10°N	North Facing						

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings															
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
34A - 36A High Street															
First	No-Room		W1	Existing	30.40	0.51	Below	280°N	North Facing						
		No-Room		W2	Proposed	15.54		0.54							280°N
				Proposed	32.05		Below			North Facing					
				Proposed	17.41										
38A High Street															
First	No-Room		W1	Existing	31.46	0.58	Below	280°N	North Facing						
		No-Room		W2	Proposed	18.47		0.60							280°N
				Existing	31.65		Below			North Facing					
				Proposed	19.12										
40A High Street															
First	No-Room		W1	Existing	32.05	0.64	Below (M)	280°N	North Facing						
		No-Room		W2	Proposed	20.54		0.67							280°N
				Existing	32.26		Below (M)			North Facing					
				Proposed	21.67										
42A High Street															
First	No-Room		W1	Existing	32.29	0.68	Below (M)	280°N	North Facing						
		No-Room		W2	Proposed	22.20		0.71							280°N
					Existing	32.33			Below (M)		North Facing				
				Proposed	23.14										
	No-Room		W3	Existing	32.46	0.74	Below (M)	280°N	North Facing						
				Proposed	24.27										
70 High Street															
First	No-Room		W1	Existing	36.54	0.85	Above	270°	31	0.77	Below (M)	6	0.16	Below	
				Proposed	31.30			24		1					
Second	No-Room		W1	Existing	37.93	0.87	Above	270°	32	0.78	Above	7	0.28	Below	
				Proposed	33.00				25		2				
71 High Street															
First	No-Room		W1	Existing	36.55	0.86	Above	273°N	North Facing						
		No-Room		W2	Proposed	31.79		0.89							271°N
				Existing	36.97		Above			North Facing					
				Proposed	33.25										
Second	No-Room		W1	Existing	38.59	0.86	Above	273°N	North Facing						
		No-Room		W2	Proposed	33.40	0.89	271°N							
				Existing	38.67				Above		North Facing				
				Proposed	34.68										
73 - 75 High Street															
First	No-Room		W1	Existing	37.13	0.90	Above	267°	32	0.84	Above	8	0.50	Below (M)	
		No-Room		W2	Proposed	33.49		0.90	264°	27					4
					Existing	37.33				Above	35	0.85	9	0.44	Below (M)
					Proposed	33.91			30		4				
	No-Room		W3	Existing	37.41	0.90	Above	259°	36	0.91	Above	9	0.66	Above	
				Proposed	33.85			33		6					
	No-Room		W4	Existing	37.72	0.91	Above	259°	37	0.91	Above	10	0.70	Above	
				Proposed	34.64			34		7					
Second	No-Room		W1	Existing	38.72	0.90	Above	267°	33	0.90	Above	9	0.66	Above	
		No-Room		W2	Proposed	34.90	0.90	264°	30		6				
					Existing	38.76				Above	36	0.94	10	0.80	Above
					Proposed	35.27			34		8				
	No-Room		W3	Existing	38.80	0.90	Above	259°	37	0.91	Above	10	0.70	Above	
				Proposed	35.18			34		7					
	No-Room		W4	Existing	38.88	0.92	Above	259°	37	0.91	Above	10	0.70	Above	
				Proposed	35.92			34		7					
The Vicarage															
Ground	No-Room		W1	Existing	30.68	0.73	Below (M)	164°	47	0.70	Above	24	0.41	Above	
		No-Room		W2	Proposed	22.68		0.75	164°	33			10		
					Existing	34.65				Below (M)	66	0.80	27	0.51	Above
				Proposed	26.28			53		14					
	No-Room		W3	Existing	34.95	0.74	Below (M)	164°	66	0.77	Above	27	0.44	Above	
				Proposed	26.08			51		12					
First	No-Room		W1	Existing	30.90	0.76	Below (M)	164°	46	0.73	Above	23	0.47	Above	
		No-Room		W2	Proposed	23.59	0.75	164°	34		11				
					Existing	32.59				Below (M)	47	0.76	24	0.54	Above
					Proposed	24.71			36		13				
		No-Room		W3	Existing	32.63	0.75	Below (M)	164°	47	0.76	Above	24	0.54	Above
					Proposed	24.61			36		13				
		No-Room		W4	Existing	32.69	0.75	Below (M)	164°	47	0.78	Above	24	0.58	Above
				Proposed	24.53			37		14					
	No-Room		W5	Existing	32.75	0.74	Below (M)	164°	47	0.78	Above	24	0.58	Above	
				Proposed	24.46			37		14					
	No-Room		W6	Existing	32.90	0.74	Below (M)	164°	47	0.74	Above	24	0.50	Above	
				Proposed	24.49			35		12					

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
St Matthew's School														
Ground	No-Room		W1	Existing Proposed	31.99 29.97	0.93	Above	158°	66 64	0.96	Above	23 21	0.91	Above
	No-Room		W2	Existing Proposed	30.74 28.58	0.92	Above	158°	62 60	0.96	Above	22 20	0.90	Above
	No-Room		W3	Existing Proposed	31.70 29.65	0.93	Above	158°	67 63	0.94	Above	18 14	0.77	Above
	No-Room		W4	Existing Proposed	20.90 15.69	0.75	Below (M)	131°	25 19	0.76	Below (M)	6 0	0.00	Below
	No-Room		W5	Existing Proposed	27.86 21.65	0.77	Below (M)	131°	44 28	0.63	Above	12 0	0.00	Below
	No-Room		W6	Existing Proposed	28.62 21.74	0.75	Below (M)	131°	51 30	0.58	Above	16 0	0.00	Below
	No-Room		W7	Existing Proposed	30.53 20.38	0.66	Below (M)	131°	51 27	0.52	Above	16 0	0.00	Below
	First	No-Room		W1	Existing Proposed	35.82 33.13	0.92	Above	158°	72 71	0.98	Above	27 26	0.96
No-Room			W2	Existing Proposed	33.91 31.16	0.91	Above	158°	63 61	0.96	Above	22 20	0.90	Above
No-Room			W3	Existing Proposed	35.64 32.71	0.91	Above	158°	75 73	0.97	Above	26 24	0.92	Above
No-Room			W4	Existing Proposed	35.39 27.81	0.78	Above	131°	46 35	0.76	Above	19 8	0.42	Above
No-Room			W5	Existing Proposed	34.57 26.98	0.78	Below (M)	131°	57 46	0.80	Above	18 7	0.38	Above
No-Room			W6	Existing Proposed	34.19 26.61	0.77	Below (M)	131°	56 45	0.80	Above	17 6	0.35	Above
No-Room			W7	Existing Proposed	36.40 26.08	0.71	Below (M)	131°	47 31	0.65	Above	20 5	0.25	Above
26 - 31 Betjeman Court														
Ground	No-Room		W1	Existing Proposed	27.67 23.45	0.84	Above	42°N	North Facing					
	No-Room		W2	Existing Proposed	14.15 8.36	0.59	Below	42°N	North Facing					
	No-Room		W3	Existing Proposed	11.74 6.35	0.54	Below	42°N	North Facing					
	No-Room		W4	Existing Proposed	21.55 19.69	0.91	Above	42°N	North Facing					
First	No-Room		W1	Existing Proposed	35.89 28.24	0.78	Above	42°N	North Facing					
	No-Room		W2	Existing Proposed	20.00 11.74	0.58	Below	42°N	North Facing					
	No-Room		W3	Existing Proposed	19.02 9.90	0.52	Below	42°N	North Facing					
	No-Room		W4	Existing Proposed	34.71 25.04	0.72	Below (M)	42°N	North Facing					
Second	No-Room		W1	Existing Proposed	38.23 31.28	0.81	Above	42°N	North Facing					
	No-Room		W2	Existing Proposed	38.25 30.74	0.80	Above	42°N	North Facing					
	No-Room		W3	Existing Proposed	38.20 29.91	0.78	Above	42°N	North Facing					
	No-Room		W4	Existing Proposed	38.11 29.29	0.76	Above	42°N	North Facing					
Versatile House														
Ground	R1	LKD	W1	Existing Proposed	14.92 6.13	0.41	Below	52°N	North Facing					
	R2	Bedroom	W2	Existing Proposed	6.13 4.20	0.68	Below (M)	322°N	North Facing					
			W3	Existing Proposed	32.38 23.83	0.73	Below (M)	52°N	North Facing					
	R3	Bedroom	W4	Existing Proposed	32.56 24.13	0.74	Below (M)	52°N	North Facing					
			W5	Existing Proposed	7.07 6.32	0.89	Above	142°	1 1	1.00	Above	1 1	1.00	Above
	R4	LKD	W6	Existing Proposed	18.09 9.15	0.50	Below	52°N	North Facing					
First	R1	LKD	W1	Existing Proposed	19.87 10.40	0.52	Below	52°N	North Facing					
	R2	Bedroom	W2	Existing Proposed	8.98 6.89	0.76	Below (M)	322°N	North Facing					
			W3	Existing Proposed	36.06 26.47	0.73	Below (M)	52°N	North Facing					
	R3	Bedroom	W4	Existing Proposed	35.95 26.58	0.73	Below (M)	52°N	North Facing					
			W5	Existing Proposed	8.01 7.25	0.90	Above	142°	5 5	1.00	Above	3 3	1.00	Above
	R4	LKD	W6	Existing Proposed	19.97 11.20	0.56	Below	52°N	North Facing					
Second	R1	LKD	W1	Existing Proposed	21.15 12.54	0.59	Below	52°N	North Facing					
	R2	Bedroom	W2	Existing Proposed	9.86 8.02	0.81	Above	322°N	North Facing					
			W3	Existing Proposed	37.31 28.56	0.76	Above	52°N	North Facing					

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	R3	Bedroom	W4	Existing	37.15	0.76	Above	52°N	North Facing					
	W5		Existing	28.58	0.91	Above	142°	4	1.00	Above	2	1.00	Above	
				Proposed	7.97				4			2		
	R4	LKD	W6	Existing	21.11	0.62	Below	52°N	North Facing					
				Proposed	13.12									
Third	R1	LKD	W1	Existing	24.03	0.68	Below (M)	52°N	North Facing					
				Proposed	16.52									
	R2	Bedroom	W2	Existing	13.67	0.88	Above	322°N	North Facing					
				Proposed	12.09									
			W3	Existing	38.37	0.80	Above	52°N	North Facing					
				Proposed	30.74									
	R3	Bedroom	W4	Existing	38.13	0.80	Above	52°N	North Facing					
				Proposed	30.68									
		W5	Existing	9.22	0.93	Above	142°	6	1.00	Above	4	1.00	Above	
			Proposed	8.61				6			4			
R4	LKD	W6	Existing	21.97	0.68	Below (M)	52°N	North Facing						
				Proposed	15.05									
Fourth	R1	Bedroom	W1	Existing	38.96	0.84	Above	52°N	North Facing					
				Proposed	32.75									
			W2	Existing	11.77	0.95	Above	142°	11	1.00	Above	3	1.00	Above
				Proposed	11.25				11			3		
R2	LKD	W3	Existing	22.91	0.74	Below (M)	52°N	North Facing						
				Proposed	17.18									
Union Wharf														
Ground	No-Room		W1	Existing	13.29	0.51	Below	52°N	North Facing					
				Proposed	6.91									
	No-Room		W2	Existing	18.34	0.58	Below	52°N	North Facing					
				Proposed	10.75									
	No-Room		W3	Existing	26.69	0.72	Below (M)	52°N	North Facing					
				Proposed	19.30									
	No-Room		W4	Existing	27.56	0.75	Below (M)	52°N	North Facing					
				Proposed	20.77									
	No-Room		W5	Existing	14.72	0.57	Below	52°N	North Facing					
				Proposed	8.49									
	No-Room		W6	Existing	13.92	0.57	Below	52°N	North Facing					
				Proposed	7.99									
	No-Room		W7	Existing	15.16	0.64	Below (M)	52°N	North Facing					
				Proposed	9.81									
No-Room		W8	Existing	14.76	0.66	Below (M)	52°N	North Facing						
			Proposed	9.81										
No-Room		W9	Existing	12.30	0.64	Below (M)	52°N	North Facing						
			Proposed	7.99										
No-Room		W10	Existing	12.52	0.67	Below (M)	52°N	North Facing						
			Proposed	8.51										
No-Room		W11	Existing	23.79	0.85	Above	52°N	North Facing						
			Proposed	20.33										
No-Room		W12	Existing	22.40	0.88	Above	52°N	North Facing						
			Proposed	19.74										
No-Room		W13	Existing	13.24	0.82	Above	52°N	North Facing						
			Proposed	10.87										
No-Room		W14	Existing	9.68	0.81	Above	52°N	North Facing						
			Proposed	7.86										
First	No-Room		W1	Existing	13.49	0.56	Below	52°N	North Facing					
				Proposed	7.63									
	No-Room		W2	Existing	18.60	0.62	Below	52°N	North Facing					
				Proposed	11.67									
	No-Room		W3	Existing	27.64	0.75	Below (M)	52°N	North Facing					
				Proposed	20.89									
	No-Room		W4	Existing	28.81	0.78	Below (M)	52°N	North Facing					
				Proposed	22.60									
	No-Room		W5	Existing	15.22	0.62	Below	52°N	North Facing					
				Proposed	9.51									
	No-Room		W6	Existing	14.50	0.62	Below	52°N	North Facing					
				Proposed	9.06									
	No-Room		W7	Existing	15.97	0.69	Below (M)	52°N	North Facing					
				Proposed	11.02									
No-Room		W8	Existing	15.63	0.70	Below (M)	52°N	North Facing						
			Proposed	11.05										
No-Room		W9	Existing	13.14	0.69	Below (M)	52°N	North Facing						
			Proposed	9.15										
No-Room		W10	Existing	13.39	0.72	Below (M)	52°N	North Facing						
			Proposed	9.68										
No-Room		W11	Existing	25.56	0.87	Above	52°N	North Facing						
			Proposed	22.37										
No-Room		W12	Existing	24.18	0.89	Above	52°N	North Facing						
			Proposed	21.73										
No-Room		W13	Existing	14.41	0.84	Above	52°N	North Facing						
			Proposed	12.21										
No-Room		W14	Existing	10.80	0.84	Above	52°N	North Facing						
			Proposed	9.09										
Second	No-Room		W1	Existing	12.32	0.58	Below	52°N	North Facing					
				Proposed	7.21									
	No-Room		W2	Existing	17.21	0.65	Below (M)	52°N	North Facing					
				Proposed	11.19									
No-Room		W3	Existing	27.67	0.78	Below (M)	52°N	North Facing						
			Proposed	21.80										
No-Room		W4	Existing	29.46	0.81	Above	52°N	North Facing						
			Proposed	24.05										

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	No-Room		W5	Existing	14.03	0.64	Below (M)	52°N	North Facing					
	No-Room		W6	Existing	13.43	0.64								
	No-Room		W7	Existing	15.26	0.71	Below (M)	52°N	North Facing					
	No-Room		W8	Existing	14.98	0.73								
	No-Room		W9	Existing	12.35	0.71	Below (M)	52°N	North Facing					
	No-Room		W10	Existing	12.59	0.73								
	No-Room		W11	Existing	26.73	0.89	Above	52°N	North Facing					
	No-Room		W12	Existing	25.16	0.91								
	No-Room		W13	Existing	13.98	0.85	Above	52°N	North Facing					
	No-Room		W14	Existing	10.29	0.84								
			Proposed	8.65										
Third	No-Room		W1	Existing	25.02	0.82	Above	52°N	North Facing					
	No-Room		W2	Existing	16.75	0.69								
	No-Room		W3	Existing	26.76	0.81	Above	52°N	North Facing					
	No-Room		W4	Existing	29.92	0.84								
	No-Room		W5	Existing	14.02	0.69	Below (M)	52°N	North Facing					
	No-Room		W6	Existing	13.50	0.69								
	No-Room		W7	Existing	15.53	0.75	Below (M)	52°N	North Facing					
	No-Room		W8	Existing	15.31	0.77								
	No-Room		W9	Existing	12.69	0.75	Below (M)	52°N	North Facing					
	No-Room		W10	Existing	12.95	0.77								
	No-Room		W11	Existing	27.80	0.90	Above	52°N	North Facing					
	No-Room		W12	Existing	25.48	0.91								
	No-Room		W13	Existing	14.72	0.86	Above	52°N	North Facing					
	No-Room		W14	Existing	28.18	0.94								
			Proposed	26.56										
Fourth	No-Room		W1	Existing	14.65	0.71	Below (M)	52°N	North Facing					
	No-Room		W2	Existing	14.30	0.72								
	No-Room		W3	Existing	18.01	0.79	Below (M)	52°N	North Facing					
	No-Room		W4	Existing	9.47	0.64								
	No-Room		W5	Existing	9.12	0.63	Below	52°N	North Facing					
	No-Room		W6	Existing	10.66	0.70								
	No-Room		W7	Existing	10.59	0.72	Below (M)	52°N	North Facing					
	No-Room		W8	Existing	8.88	0.70								
	No-Room		W9	Existing	9.18	0.72	Below (M)	52°N	North Facing					
	No-Room		W10	Existing	15.39	0.84								
	No-Room		W11	Existing	14.19	0.85	Above	52°N	North Facing					
	No-Room		W12	Existing	12.96	0.86								
			Proposed	11.24										
Drayton Wharf														
First	R1	Bedroom	W1	Existing	24.74	0.94	Above	50°N	North Facing					
	R2	LKD	W2	Existing	6.71	0.86								
	R3	Bedroom	W3	Existing	4.36	0.82	Above	50°N	North Facing					
	R4	LKD	W4	Existing	5.58	0.88								
	R5	Bedroom	W5	Existing	5.42	0.91	Above	50°N	North Facing					
	R6	LKD	W6	Existing	6.32	0.93								
	R7	Bedroom	W7	Existing	6.19	0.95	Above	50°N	North Facing					
	R8	Bedroom	W8	Existing	7.56	0.96								
			Proposed	7.29										

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
Second	R1	Bedroom	W1	Existing	26.99	0.95	Above	50°N	North Facing					
	R2	LKD	W2	Existing	8.70	0.88	Above	50°N	North Facing					
	R3	Bedroom	W3	Existing	6.61	0.87	Above	50°N	North Facing					
	R4	LKD	W4	Existing	7.57	0.90	Above	50°N	North Facing					
	R5	Bedroom	W5	Existing	7.56	0.92	Above	50°N	North Facing					
	R6	LKD	W6	Existing	8.27	0.95	Above	50°N	North Facing					
	R7	Bedroom	W7	Existing	8.17	0.96	Above	50°N	North Facing					
	R8	Bedroom	W8	Existing	9.37	0.97	Above	50°N	North Facing					
	R9	LKD	W9	Existing	10.53	0.98	Above	50°N	North Facing					
			W10	Existing	34.09	1.00	Above	79°N	North Facing					
			W11	Existing	34.65	1.00	Above	90°N	North Facing					
			W12	Existing	34.09	1.00	Above	101°	43	1.00	Above	10	1.00	Above
			W13	Existing	33.18	1.00	Above	112°	35	1.00	Above	4	1.00	Above
	R10	Bedroom	W14	Existing	28.95	1.00	Above	140°	46	1.00	Above	11	1.00	Above
	R11	Bedroom	W15	Existing	22.47	1.00	Above	140°	28	1.00	Above	9	1.00	Above
				Proposed	22.47				28			9		
Third	R1	Bedroom	W1	Existing	29.47	0.95	Above	50°N	North Facing					
	R2	LKD	W2	Existing	10.55	0.90	Above	50°N	North Facing					
	R3	Bedroom	W3	Existing	8.72	0.88	Above	50°N	North Facing					
	R4	LKD	W4	Existing	9.37	0.91	Above	50°N	North Facing					
	R5	Bedroom	W5	Existing	9.46	0.92	Above	50°N	North Facing					
	R6	LKD	W6	Existing	9.92	0.95	Above	50°N	North Facing					
	R7	Bedroom	W7	Existing	9.86	0.95	Above	50°N	North Facing					
	R8	Bedroom	W8	Existing	10.72	0.97	Above	50°N	North Facing					
	R9	LKD	W9	Existing	11.97	0.97	Above	50°N	North Facing					
			W10	Existing	35.98	0.99	Above	79°N	North Facing					
			W11	Existing	36.79	0.99	Above	90°N	North Facing					
			W12	Existing	36.55	1.00	Above	101°	46	1.00	Above	13	1.00	Above
			W13	Existing	36.00	1.00	Above	112°	46	1.00	Above	13	1.00	Above
	R10	Bedroom	W14	Existing	31.54	1.00	Above	140°	38	1.00	Above	7	1.00	Above
	R11	Bedroom	W15	Existing	18.12	1.00	Above	140°	50	1.00	Above	14	1.00	Above
				Proposed	18.12				50		Above	14		Above
Fourth	R1	Bedroom	W1	Existing	34.27	0.95	Above	50°N	North Facing					
	R2	Bedroom	W2	Existing	12.19	0.91	Above	50°N	North Facing					
	R3	Bedroom	W3	Existing	10.57	0.89	Above	50°N	North Facing					
	R4	Bedroom	W4	Existing	10.85	0.92	Above	50°N	North Facing					
	R5	Bedroom	W5	Existing	11.06	0.92	Above	50°N	North Facing					
	R6	Bedroom	W6	Existing	11.11	0.95	Above	50°N	North Facing					
	R7	Bedroom	W7	Existing	11.06	0.94	Above	50°N	North Facing					
	R8	Bedroom	W8	Existing	11.52	0.97	Above	50°N	North Facing					
	R9	Bedroom	W9	Existing	12.89	0.96	Above	50°N	North Facing					
			W10	Existing	38.13	0.99	Above	79°N	North Facing					
			W11	Existing	38.59	0.99	Above	90°N	North Facing					
			W12	Existing	38.48	0.99	Above	101°	47	1.00	Above	14	1.00	Above
			W13	Existing	38.24	1.00	Above	112°	47	1.00	Above	14	1.00	Above
	R10	Bedroom	W14	Existing	35.53	1.00	Above	140°	39	1.00	Above	8	1.00	Above
	R11	Bedroom	W15	Existing	20.98	1.00	Above	140°	39	1.00	Above	8	1.00	Above
				Proposed	20.98				54	1.00	Above	16	1.00	Above
									54		Above	16		Above
									30	1.00	Above	6	1.00	Above
									30			6		

Appendix 4A: VSC and Sunlight Results for Existing Neighbouring Buildings														
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
Art Wood Apartments														
First	R1	LKD	W1	Existing	27.29	1.00	Above	199°	53	1.00	Above	15	1.00	Above
				Proposed	27.29			288°N	North Facing					
			W2	Existing	20.90	0.86	Above	19°N	North Facing					
	R2	Bedroom		Proposed	18.06			288°N	North Facing					
			W3	Existing	34.79	0.46	Below	353°N	North Facing					
				Proposed	16.04			353°N	North Facing					
	R3	LKD	W4	Existing	7.28	0.50	Below	353°N	North Facing					
				Proposed	3.64			51°N	North Facing					
			W5	Existing	33.30	0.40	Below	51°N	North Facing					
	R4	LKD		Proposed	13.61			51°N	North Facing					
			W6	Existing	32.47	0.40	Below	51°N	North Facing					
				Proposed	13.30			51°N	North Facing					
Second	R1	LKD	W1	Existing	30.76	1.00	Above	199°	37	1.00	Above	19	1.00	Above
				Proposed	30.76			288°N	North Facing					
			W2	Existing	16.44	0.85	Above	19°N	North Facing					
	R2	Bedroom		Proposed	14.10			288°N	North Facing					
			W3	Existing	37.98	0.51	Below	353°N	North Facing					
				Proposed	19.46			353°N	North Facing					
	R3	LKD	W4	Existing	4.23	0.59	Below	353°N	North Facing					
				Proposed	2.50			51°N	North Facing					
			W5	Existing	37.73	0.43	Below	51°N	North Facing					
	R4	LKD	W6	Existing	37.39	0.42	Below	51°N	North Facing					
				Proposed	15.73			51°N	North Facing					
			W7	Existing	18.17	0.81	Above	51°N	North Facing					
Third	R1	LKD	W1	Existing	33.75	1.00	Above	199°	42	1.00	Above	24	1.00	Above
				Proposed	33.75			288°N	North Facing					
			W2	Existing	18.05	0.87	Above	19°N	North Facing					
	R2	Bedroom		Proposed	15.81			288°N	North Facing					
			W3	Existing	38.84	0.59	Below (M)	353°N	North Facing					
				Proposed	23.14			353°N	North Facing					
	R3	LKD	W4	Existing	4.64	0.61	Below	353°N	North Facing					
				Proposed	2.85			51°N	North Facing					
			W5	Existing	39.14	0.49	Below	51°N	North Facing					
	R4	LKD		Proposed	19.22			51°N	North Facing					
			W6	Existing	39.13	0.46	Below	51°N	North Facing					
				Proposed	18.29			51°N	North Facing					
Fourth	R1	LKD	W1	Existing	36.62	1.00	Above	199°	44	1.00	Above	26	1.00	Above
				Proposed	36.62			288°N	North Facing					
			W2	Existing	38.88	0.94	Above	19°N	North Facing					
	R2	Bedroom		Proposed	36.84			288°N	North Facing					
			W3	Existing	39.31	0.70	Above	353°N	North Facing					
				Proposed	27.54			353°N	North Facing					
	R3	LKD	W4	Existing	34.34	0.87	Above	353°N	North Facing					
				Proposed	30.09			51°N	North Facing					
			W5	Existing	39.48	0.58	Below (M)	51°N	North Facing					
	R4	LKD		Proposed	22.92			51°N	North Facing					
			W6	Existing	39.49	0.54	Below	51°N	North Facing					
				Proposed	21.55			51°N	North Facing					
R4	LKD	W7	Existing	20.10	0.79	Below (M)	51°N	North Facing						
			Proposed	15.99			51°N	North Facing						
			Proposed	15.99			51°N	North Facing						

Appendix 4[B]

VSC and Sunlight Results
for Existing Neighbouring
Buildings (Without Balconies)

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
1 to 6 Deen Court														
First	R1	Kitchen-Resi	W1	Existing	31.49	0.58	Below	280°N	North Facing					
				Proposed	18.46									
	R2	Living Room	W2	Existing	26.16	0.48	Below	280°N	North Facing					
				Proposed	12.71									
	R3	Living Room	W3	Existing	28.38	0.52	Below	280°N	North Facing					
				Proposed	14.98									
			W4	Existing	28.39	0.50	Below	280°N	North Facing					
				Proposed	14.20									
R4	Kitchen-Resi	W5	Existing	25.43	0.49	Below	280°N	North Facing						
			Proposed	12.67										
		W6	Existing	30.56	0.51	Below	280°N	North Facing						
			Proposed	15.69										
Second	R1	Kitchen-Resi	W1	Existing	34.98	0.59	Below	280°N	North Facing					
				Proposed	20.71									
	R2	Living Room	W2	Existing	29.29	0.49	Below	280°N	North Facing					
				Proposed	14.63									
	R3	Living Room	W3	Existing	31.87	0.53	Below	280°N	North Facing					
				Proposed	17.14									
			W4	Existing	32.01	0.51	Below	280°N	North Facing					
				Proposed	16.42									
R4	Kitchen-Resi	W5	Existing	28.71	0.50	Below	280°N	North Facing						
			Proposed	14.60										
		W6	Existing	34.94	0.52	Below	280°N	North Facing						
			Proposed	18.21										
Third	R1	Kitchen-Resi	W1	Existing	38.01	0.61	Below (M)	280°N	North Facing					
				Proposed	23.31									
	R2	Living Room	W2	Existing	32.38	0.53	Below	280°N	North Facing					
				Proposed	17.30									
	R3	Living Room	W3	Existing	35.24	0.56	Below	280°N	North Facing					
				Proposed	19.97									
			W4	Existing	35.43	0.54	Below	280°N	North Facing					
				Proposed	19.30									
R4	Kitchen-Resi	W5	Existing	31.93	0.54	Below	280°N	North Facing						
			Proposed	17.29										
		W6	Existing	38.38	0.54	Below	280°N	North Facing						
			Proposed	21.07										
32 High Street														
First	No-Room		W1	Existing	17.62	0.82	Above	190°	27	0.92	Above	8	1.00	Above
				Proposed	14.52				25			8		
	No-Room		W2	Existing	32.54	0.48	Below	280°N	North Facing					
				Proposed	15.72									
	No-Room		W3	Existing	32.53	0.47	Below	280°N	North Facing					
				Proposed	15.54									
	No-Room		W4	Existing	31.90	0.46	Below	280°N	North Facing					
				Proposed	14.90									
	No-Room		W5	Existing	8.87	0.48	Below	10°N	North Facing					
				Proposed	4.29									
	No-Room		W6	Existing	19.23	0.78	Below (M)	190°	33	0.81	Above	11	0.81	Above
				Proposed	15.07				27			9		
	No-Room		W7	Existing	32.57	0.45	Below	280°N	North Facing					
				Proposed	14.79									
	No-Room		W8	Existing	32.77	0.45	Below	280°N	North Facing					
				Proposed	14.88									
	No-Room		W9	Existing	32.61	0.45	Below	280°N	North Facing					
				Proposed	14.79									
	No-Room		W10	Existing	19.14	0.74	Below (M)	10°N	North Facing					
				Proposed	14.30									
No-Room		W11	Existing	11.07	0.58	Below	190°	15	0.60	Below	3	0.00	Below	
			Proposed	6.49				9			0			
No-Room		W12	Existing	32.57	0.47	Below	280°N	North Facing						
			Proposed	15.41										
No-Room		W13	Existing	32.93	0.47	Below	280°N	North Facing						
			Proposed	15.73										
No-Room		W14	Existing	32.87	0.48	Below	280°N	North Facing						
			Proposed	15.79										
No-Room		W15	Existing	25.06	0.83	Above	10°N	North Facing						
			Proposed	21.03										
Second	No-Room		W1	Existing	14.52	0.77	Below (M)	190°	15	1.00	Above	8	1.00	Above
				Proposed	11.28				15			8		
	No-Room		W2	Existing	36.58	0.49	Below	280°N	North Facing					
				Proposed	18.22									
	No-Room		W3	Existing	10.41	0.55	Below	10°N	North Facing					
				Proposed	5.74									
	No-Room		W4	Existing	17.19	0.74	Below (M)	190°	17	0.70	Below (M)	10	0.80	Above
				Proposed	12.87				12			8		
	No-Room		W5	Existing	36.57	0.46	Below	280°N	North Facing					
				Proposed	17.09									
No-Room		W6	Existing	15.86	0.68	Below (M)	10°N	North Facing						
			Proposed	10.79										
R1	Studio-Apt	W7	Existing	10.35	0.54	Below	190°	13	0.69	Above	6	0.50	Above	
				Proposed	5.65				9			3		
			W8	Existing	36.81	0.49	Below	280°N	North Facing					
				Proposed	18.29									
		W9	Existing	21.50	0.80	Above	10°N	North Facing						
			Proposed	17.35										

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
34A - 36A High Street													
First	No-Room	W1	Existing Proposed	30.26 15.41	0.50	Below	280°N	North Facing					
	No-Room	W2	Existing Proposed	32.01 17.37	0.54	Below		280°N	North Facing				
38A High Street													
First	No-Room	W1	Existing Proposed	31.44 18.45	0.58	Below	280°N	North Facing					
	No-Room	W2	Existing Proposed	31.64 19.11	0.60	Below		280°N	North Facing				
40A High Street													
First	No-Room	W3	Existing Proposed	32.05 20.54	0.64	Below (M)	280°N	North Facing					
	No-Room	W4	Existing Proposed	32.26 21.67	0.67	Below (M)		280°N	North Facing				
42A High Street													
First	No-Room	W1	Existing Proposed	32.29 22.20	0.68	Below (M)	280°N	North Facing					
	No-Room	W2	Existing Proposed	32.33 23.14	0.71	Below (M)		280°N	North Facing				
	No-Room	W3	Existing Proposed	32.46 24.27	0.74	Below (M)	280°N		North Facing				
70 High Street													
First	No-Room	W1	Existing Proposed	36.54 31.30	0.85	Above	270°	31 24	0.77	Below (M)	6 1	0.16	Below
Second	No-Room	W1	Existing Proposed	37.93 33.00	0.87	Above	270°	32 25	0.78	Above	7 2	0.28	Below
71 High Street													
First	No-Room	W1	Existing Proposed	36.55 31.79	0.86	Above	273°N	North Facing					
	No-Room	W2	Existing Proposed	36.97 33.25	0.89	Above	271°N	North Facing					
Second	No-Room	W1	Existing Proposed	38.59 33.40	0.86	Above	273°N	North Facing					
	No-Room	W2	Existing Proposed	38.67 34.68	0.89	Above	271°N	North Facing					
73 - 75 High Street													
First	No-Room	W1	Existing Proposed	37.13 33.49	0.90	Above	267°	32 27	0.84	Above	8 4	0.50	Below (M)
	No-Room	W2	Existing Proposed	37.33 33.90	0.90	Above	264°	35 30	0.85	Above	9 4	0.44	Below (M)
	No-Room	W3	Existing Proposed	37.41 33.84	0.90	Above	259°	36 33	0.91	Above	9 6	0.66	Above
	No-Room	W4	Existing Proposed	37.72 34.64	0.91	Above	259°	37 34	0.91	Above	10 7	0.70	Above
Second	No-Room	W1	Existing Proposed	38.72 34.90	0.90	Above	267°	33 30	0.90	Above	9 6	0.66	Above
	No-Room	W2	Existing Proposed	38.75 35.27	0.91	Above	264°	36 34	0.94	Above	10 8	0.80	Above
	No-Room	W3	Existing Proposed	38.79 35.18	0.90	Above	259°	37 34	0.91	Above	10 7	0.70	Above
	No-Room	W4	Existing Proposed	38.88 35.92	0.92	Above	259°	37 34	0.91	Above	10 7	0.70	Above
The Vicarage													
Ground	No-Room	W1	Existing Proposed	30.69 22.68	0.73	Below (M)	164°	47 33	0.70	Above	24 10	0.41	Above
	No-Room	W2	Existing Proposed	34.66 26.28	0.75	Below (M)	164°	66 53	0.80	Above	27 14	0.51	Above
	No-Room	W3	Existing Proposed	34.96 26.08	0.74	Below (M)	164°	66 51	0.77	Above	27 12	0.44	Above
First	No-Room	W1	Existing Proposed	30.91 23.59	0.76	Below (M)	164°	46 34	0.73	Above	23 11	0.47	Above
	No-Room	W2	Existing Proposed	32.60 24.71	0.75	Below (M)	164°	47 36	0.76	Above	24 13	0.54	Above
	No-Room	W3	Existing Proposed	32.64 24.61	0.75	Below (M)	164°	47 36	0.76	Above	24 13	0.54	Above
	No-Room	W4	Existing Proposed	32.70 24.53	0.75	Below (M)	164°	47 37	0.78	Above	24 14	0.58	Above
	No-Room	W5	Existing Proposed	32.76 24.46	0.74	Below (M)	164°	47 37	0.78	Above	24 14	0.58	Above
	No-Room	W6	Existing Proposed	32.91 24.49	0.74	Below (M)	164°	47 35	0.74	Above	24 12	0.50	Above

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)															
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria		
St Matthew's School															
Ground	No-Room		W1	Existing Proposed	32.00 29.97	0.93	Above	158°	66 64	0.96	Above	23 21	0.91	Above	
	No-Room		W2	Existing Proposed	30.74 28.58	0.92	Above	158°	62 60	0.96	Above	22 20	0.90	Above	
	No-Room		W3	Existing Proposed	31.71 29.65	0.93	Above	158°	67 63	0.94	Above	18 14	0.77	Above	
	No-Room		W4	Existing Proposed	20.90 15.69	0.75	Below (M)	131°	25 19	0.76	Below (M)	6 0	0.00	Below	
	No-Room		W5	Existing Proposed	27.86 21.64	0.77	Below (M)	131°	44 28	0.63	Above	12 0	0.00	Below	
	No-Room		W6	Existing Proposed	28.62 21.72	0.75	Below (M)	131°	51 30	0.58	Above	16 0	0.00	Below	
	No-Room		W7	Existing Proposed	30.53 20.35	0.66	Below (M)	131°	51 27	0.52	Above	16 0	0.00	Below	
	First	No-Room		W1	Existing Proposed	35.83 33.13	0.92	Above	158°	72 71	0.98	Above	27 26	0.96	Above
No-Room			W2	Existing Proposed	33.92 31.16	0.91	Above	158°	63 61	0.96	Above	22 20	0.90	Above	
No-Room			W3	Existing Proposed	35.64 32.71	0.91	Above	158°	75 73	0.97	Above	26 24	0.92	Above	
No-Room			W4	Existing Proposed	35.40 27.81	0.78	Above	131°	46 35	0.76	Above	19 8	0.42	Above	
No-Room			W5	Existing Proposed	34.59 26.98	0.77	Below (M)	131°	57 46	0.80	Above	18 7	0.38	Above	
No-Room			W6	Existing Proposed	34.20 26.61	0.77	Below (M)	131°	56 45	0.80	Above	17 6	0.35	Above	
No-Room			W7	Existing Proposed	36.42 26.08	0.71	Below (M)	131°	47 31	0.65	Above	20 5	0.25	Above	
26 - 31 Betjeman Court															
Ground	No-Room		W1	Existing Proposed	29.61 25.39	0.85	Above	42°N	North Facing						
	No-Room		W2	Existing Proposed	31.65 25.86	0.81	Above	42°N	North Facing						
	No-Room		W3	Existing Proposed	30.18 24.79	0.82	Above	42°N	North Facing						
	No-Room		W4	Existing Proposed	24.48 22.62	0.92	Above	42°N	North Facing						
First	No-Room		W1	Existing Proposed	37.51 29.86	0.79	Above	42°N	North Facing						
	No-Room		W2	Existing Proposed	37.52 29.26	0.77	Above	42°N	North Facing						
	No-Room		W3	Existing Proposed	37.45 28.34	0.75	Above	42°N	North Facing						
	No-Room		W4	Existing Proposed	37.34 27.66	0.74	Above	42°N	North Facing						
Second	No-Room		W1	Existing Proposed	38.23 31.28	0.81	Above	42°N	North Facing						
	No-Room		W2	Existing Proposed	38.25 30.74	0.80	Above	42°N	North Facing						
	No-Room		W3	Existing Proposed	38.20 29.91	0.78	Above	42°N	North Facing						
	No-Room		W4	Existing Proposed	38.11 29.29	0.76	Above	42°N	North Facing						
Versatile House															
Ground	R1	LKD	W1	Existing Proposed	29.87 21.08	0.70	Below (M)	52°N	North Facing						
	R2	Bedroom	W2	Existing Proposed	14.16 12.23	0.86	Above	322°N	North Facing						
			W3	Existing Proposed	32.78 24.24	0.73	Below (M)	52°N	North Facing						
	R3	Bedroom	W4	Existing Proposed	32.98 24.55	0.74	Below (M)	52°N	North Facing						
			W5	Existing Proposed	17.43 16.69	0.95	Above	142°	18 18	1.00	Above	3 3	1.00	Above	
	R4	LKD	W6	Existing Proposed	33.35 24.41	0.73	Below (M)	52°N	North Facing						
	First	R1	LKD	W1	Existing Proposed	35.00 25.52	0.72	Below (M)	52°N	North Facing					
		R2	Bedroom	W2	Existing Proposed	18.14 16.05	0.88	Above	322°N	North Facing					
			W3	Existing Proposed	36.46 26.88	0.73	Below (M)	52°N	North Facing						
R3		Bedroom	W4	Existing Proposed	36.35 26.98	0.74	Below (M)	52°N	North Facing						
			W5	Existing Proposed	18.46 17.70	0.95	Above	142°	22 22	1.00	Above	5 5	1.00	Above	
R4		LKD	W6	Existing Proposed	35.23 26.47	0.75	Below (M)	52°N	North Facing						
Second		R1	LKD	W1	Existing Proposed	36.34 27.73	0.76	Above	52°N	North Facing					
		R2	Bedroom	W2	Existing Proposed	20.30 18.46	0.90	Above	322°N	North Facing					
			W3	Existing Proposed	37.59 28.83	0.76	Above	52°N	North Facing						

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	R3	Bedroom	W4	Existing	37.50	0.77	Above	52°N	North Facing					
			W5	Existing	28.94	0.96	Above	142°	22	1.00	Above	5	1.00	Above
				Proposed	18.54				22			5		
	R4	LKD	W6	Existing	36.38	0.78	Above	52°N	North Facing					
				Proposed	28.39				North Facing					
Third	R1	LKD	W1	Existing	37.70	0.80	Above	52°N	North Facing					
				Proposed	30.19				North Facing					
	R2	Bedroom	W2	Existing	23.23	0.93	Above	322°N	North Facing					
				Proposed	21.65				North Facing					
			W3	Existing	38.40	0.80	Above	52°N	North Facing					
				Proposed	30.77				North Facing					
	R3	Bedroom	W4	Existing	38.34	0.80	Above	52°N	North Facing					
				Proposed	30.88				North Facing					
		W5	Existing	20.10	0.96	Above	142°	24	1.00	Above	6	1.00	Above	
			Proposed	19.49				24			6			
R4	LKD	W6	Existing	37.30	0.81	Above	52°N	North Facing						
				Proposed	30.38				North Facing					
Fourth	R1	Bedroom	W1	Existing	38.97	0.84	Above	52°N	North Facing					
				Proposed	32.76				North Facing					
			W2	Existing	23.00	0.97	Above	142°	27	1.00	Above	6	1.00	Above
				Proposed	22.48				27			6		
R2	LKD	W3	Existing	38.49	0.85	Above	52°N	North Facing						
				Proposed	32.77				North Facing					
Union Wharf														
Ground	No-Room		W1	Existing	26.50	0.75	Below (M)	52°N	North Facing					
				Proposed	20.07				North Facing					
	No-Room		W2	Existing	34.40	0.77	Below (M)	52°N	North Facing					
				Proposed	26.81				North Facing					
	No-Room		W3	Existing	34.63	0.78	Above	52°N	North Facing					
				Proposed	27.23				North Facing					
	No-Room		W4	Existing	34.30	0.80	Above	52°N	North Facing					
				Proposed	27.49				North Facing					
	No-Room		W5	Existing	33.58	0.81	Above	52°N	North Facing					
				Proposed	27.26				North Facing					
	No-Room		W6	Existing	33.33	0.81	Above	52°N	North Facing					
				Proposed	27.30				North Facing					
	No-Room		W7	Existing	33.07	0.83	Above	52°N	North Facing					
				Proposed	27.68				North Facing					
No-Room		W8	Existing	32.75	0.84	Above	52°N	North Facing						
			Proposed	27.74				North Facing						
No-Room		W9	Existing	31.96	0.86	Above	52°N	North Facing						
			Proposed	27.53				North Facing						
No-Room		W10	Existing	31.70	0.86	Above	52°N	North Facing						
			Proposed	27.56				North Facing						
No-Room		W11	Existing	31.61	0.88	Above	52°N	North Facing						
			Proposed	28.06				North Facing						
No-Room		W12	Existing	30.71	0.90	Above	52°N	North Facing						
			Proposed	27.94				North Facing						
No-Room		W13	Existing	30.33	0.91	Above	52°N	North Facing						
			Proposed	27.83				North Facing						
No-Room		W14	Existing	27.57	0.92	Above	52°N	North Facing						
			Proposed	25.61				North Facing						
First	No-Room		W1	Existing	27.71	0.78	Below (M)	52°N	North Facing					
				Proposed	21.72				North Facing					
	No-Room		W2	Existing	35.85	0.80	Above	52°N	North Facing					
				Proposed	28.92				North Facing					
	No-Room		W3	Existing	36.12	0.81	Above	52°N	North Facing					
				Proposed	29.37				North Facing					
	No-Room		W4	Existing	35.89	0.82	Above	52°N	North Facing					
				Proposed	29.68				North Facing					
	No-Room		W5	Existing	35.31	0.83	Above	52°N	North Facing					
				Proposed	29.45				North Facing					
	No-Room		W6	Existing	35.10	0.84	Above	52°N	North Facing					
				Proposed	29.51				North Facing					
	No-Room		W7	Existing	34.90	0.85	Above	52°N	North Facing					
				Proposed	29.92				North Facing					
No-Room		W8	Existing	34.63	0.86	Above	52°N	North Facing						
			Proposed	30.00				North Facing						
No-Room		W9	Existing	33.97	0.87	Above	52°N	North Facing						
			Proposed	29.84				North Facing						
No-Room		W10	Existing	33.74	0.88	Above	52°N	North Facing						
			Proposed	29.89				North Facing						
No-Room		W11	Existing	33.70	0.90	Above	52°N	North Facing						
			Proposed	30.45				North Facing						
No-Room		W12	Existing	32.92	0.92	Above	52°N	North Facing						
			Proposed	30.40				North Facing						
No-Room		W13	Existing	32.59	0.93	Above	52°N	North Facing						
			Proposed	30.32				North Facing						
No-Room		W14	Existing	30.48	0.94	Above	52°N	North Facing						
			Proposed	28.66				North Facing						
Second	No-Room		W1	Existing	28.70	0.81	Above	52°N	North Facing					
				Proposed	23.45				North Facing					
	No-Room		W2	Existing	37.12	0.83	Above	52°N	North Facing					
				Proposed	31.10				North Facing					
	No-Room		W3	Existing	37.35	0.84	Above	52°N	North Facing					
				Proposed	31.48				North Facing					
	No-Room		W4	Existing	37.18	0.85	Above	52°N	North Facing					
				Proposed	31.77				North Facing					

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	No-Room		W5	Existing	36.70	0.85	Above	52°N				North Facing		
	No-Room		W6	Existing	36.55	0.86	Above	52°N				North Facing		
	No-Room		W7	Existing	36.42	0.88	Above	52°N				North Facing		
	No-Room		W8	Existing	36.21	0.88	Above	52°N				North Facing		
	No-Room		W9	Existing	35.66	0.89	Above	52°N				North Facing		
	No-Room		W10	Existing	35.48	0.90	Above	52°N				North Facing		
	No-Room		W11	Existing	35.51	0.91	Above	52°N				North Facing		
	No-Room		W12	Existing	34.90	0.93	Above	52°N				North Facing		
	No-Room		W13	Existing	34.63	0.94	Above	52°N				North Facing		
	No-Room		W14	Existing	32.57	0.94	Above	52°N				North Facing		
	No-Room		W14	Proposed	30.90									
Third	No-Room		W1	Existing	30.68	0.85	Above	52°N				North Facing		
	No-Room		W2	Existing	38.29	0.86	Above	52°N				North Facing		
	No-Room		W3	Existing	38.35	0.87	Above	52°N				North Facing		
	No-Room		W4	Existing	38.17	0.87	Above	52°N				North Facing		
	No-Room		W5	Existing	37.81	0.88	Above	52°N				North Facing		
	No-Room		W6	Existing	37.71	0.88	Above	52°N				North Facing		
	No-Room		W7	Existing	37.63	0.89	Above	52°N				North Facing		
	No-Room		W8	Existing	37.47	0.90	Above	52°N				North Facing		
	No-Room		W9	Existing	37.04	0.91	Above	52°N				North Facing		
	No-Room		W10	Existing	36.92	0.91	Above	52°N				North Facing		
	No-Room		W11	Existing	36.99	0.92	Above	52°N				North Facing		
	No-Room		W12	Existing	36.56	0.94	Above	52°N				North Facing		
	No-Room		W13	Existing	36.38	0.94	Above	52°N				North Facing		
	No-Room		W14	Existing	34.50	0.95	Above	52°N				North Facing		
No-Room		W14	Proposed	32.87										
Fourth	No-Room		W1	Existing	39.10	0.88	Above	52°N				North Facing		
	No-Room		W2	Existing	39.06	0.89	Above	52°N				North Facing		
	No-Room		W3	Existing	38.94	0.90	Above	52°N				North Facing		
	No-Room		W4	Existing	38.69	0.90	Above	52°N				North Facing		
	No-Room		W5	Existing	38.63	0.91	Above	52°N				North Facing		
	No-Room		W6	Existing	38.63	0.91	Above	52°N				North Facing		
	No-Room		W7	Existing	38.54	0.92	Above	52°N				North Facing		
	No-Room		W8	Existing	38.25	0.92	Above	52°N				North Facing		
	No-Room		W9	Existing	38.18	0.93	Above	52°N				North Facing		
	No-Room		W10	Existing	38.33	0.94	Above	52°N				North Facing		
	No-Room		W11	Existing	38.05	0.94	Above	52°N				North Facing		
	No-Room		W12	Existing	37.48	0.95	Above	52°N				North Facing		
No-Room		W12	Proposed	35.74										
Drayton Wharf														
First	R1	Bedroom	W1	Existing	31.34	0.95	Above	50°N				North Facing		
	R2	LKD	W2	Existing	31.13	0.96	Above	50°N				North Facing		
	R3	Bedroom	W3	Existing	31.29	0.97	Above	50°N				North Facing		
	R4	LKD	W4	Existing	31.43	0.97	Above	50°N				North Facing		
	R5	Bedroom	W5	Existing	31.84	0.98	Above	50°N				North Facing		
	R6	LKD	W6	Existing	32.19	0.98	Above	50°N				North Facing		
	R7	Bedroom	W7	Existing	32.86	0.98	Above	50°N				North Facing		
	R8	Bedroom	W8	Existing	33.18	0.99	Above	50°N				North Facing		
				Proposed	32.90									

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
Second	R1	Bedroom	W1	Existing	33.64	0.96	Above	50°N	North Facing					
				Proposed	32.35									
	R2	LKD	W2	Existing	33.45	0.96	Above	50°N	North Facing					
				Proposed	32.37									
	R3	Bedroom	W3	Existing	33.63	0.97	Above	50°N	North Facing					
				Proposed	32.76									
	R4	LKD	W4	Existing	33.77	0.97	Above	50°N	North Facing					
				Proposed	33.01									
	R5	Bedroom	W5	Existing	34.14	0.98	Above	50°N	North Facing					
				Proposed	33.52									
	R6	LKD	W6	Existing	34.50	0.98	Above	50°N	North Facing					
				Proposed	33.99									
	R7	Bedroom	W7	Existing	35.11	0.98	Above	50°N	North Facing					
				Proposed	34.73									
	R8	Bedroom	W8	Existing	35.43	0.99	Above	50°N	North Facing					
				Proposed	35.13									
	R9	LKD	W9	Existing	36.01	0.99	Above	50°N	North Facing					
				Proposed	35.78									
		W10	Existing	35.79	1.00	Above	79°N	North Facing						
			Proposed	35.79										
		W11	Existing	35.06	1.00	Above	90°N	North Facing						
			Proposed	35.06										
		W12	Existing	34.13	1.00	Above	101°	31	1.00	Above	2	1.00	Above	
			Proposed	34.13				31			2			
		W13	Existing	33.18	1.00	Above	112°	34	1.00	Above	4	1.00	Above	
			Proposed	33.18				34			4			
	Bedroom	W14	Existing	28.95	1.00	Above	140°	46	1.00	Above	11	1.00	Above	
			Proposed	28.95				46			11			
R11	Bedroom	W15	Existing	22.47	1.00	Above	140°	28	1.00	Above	9	1.00	Above	
			Proposed	22.47				28			9			
Third	R1	Bedroom	W1	Existing	35.80	0.96	Above	50°N	North Facing					
				Proposed	34.47									
	R2	LKD	W2	Existing	35.62	0.96	Above	50°N	North Facing					
				Proposed	34.47									
	R3	Bedroom	W3	Existing	35.76	0.97	Above	50°N	North Facing					
				Proposed	34.78									
	R4	LKD	W4	Existing	35.91	0.97	Above	50°N	North Facing					
				Proposed	35.03									
	R5	Bedroom	W5	Existing	36.18	0.98	Above	50°N	North Facing					
				Proposed	35.46									
	R6	LKD	W6	Existing	36.48	0.98	Above	50°N	North Facing					
				Proposed	35.86									
	R7	Bedroom	W7	Existing	36.93	0.98	Above	50°N	North Facing					
				Proposed	36.42									
	R8	Bedroom	W8	Existing	37.17	0.98	Above	50°N	North Facing					
				Proposed	36.73									
	R9	LKD	W9	Existing	37.53	0.99	Above	50°N	North Facing					
				Proposed	37.17									
		W10	Existing	37.58	0.99	Above	79°N	North Facing						
			Proposed	37.51										
		W11	Existing	37.15	0.99	Above	90°N	North Facing						
			Proposed	37.13										
		W12	Existing	36.58	1.00	Above	101°	33	1.00	Above	4	1.00	Above	
			Proposed	36.58				33			4			
		W13	Existing	36.00	1.00	Above	112°	37	1.00	Above	7	1.00	Above	
			Proposed	36.00				37			7			
	Bedroom	W14	Existing	31.54	1.00	Above	140°	50	1.00	Above	14	1.00	Above	
			Proposed	31.54				50			14			
R11	Bedroom	W15	Existing	18.12	1.00	Above	140°	24	1.00	Above	3	1.00	Above	
			Proposed	18.12				24			3			
Fourth	R1	Bedroom	W1	Existing	37.77	0.96	Above	50°N	North Facing					
				Proposed	36.35									
	R2	LKD	W2	Existing	37.52	0.96	Above	50°N	North Facing					
				Proposed	36.24									
	R3	Bedroom	W3	Existing	37.59	0.96	Above	50°N	North Facing					
				Proposed	36.46									
	R4	LKD	W4	Existing	37.66	0.97	Above	50°N	North Facing					
				Proposed	36.65									
	R5	Bedroom	W5	Existing	37.77	0.97	Above	50°N	North Facing					
				Proposed	36.88									
	R6	LKD	W6	Existing	37.94	0.97	Above	50°N	North Facing					
				Proposed	37.14									
	R7	Bedroom	W7	Existing	38.14	0.98	Above	50°N	North Facing					
				Proposed	37.45									
	R8	Bedroom	W8	Existing	38.25	0.98	Above	50°N	North Facing					
				Proposed	37.63									
	R9	LKD	W9	Existing	38.43	0.98	Above	50°N	North Facing					
				Proposed	37.89									
		W10	Existing	38.86	0.99	Above	79°N	North Facing						
			Proposed	38.71										
		W11	Existing	38.72	0.99	Above	90°N	North Facing						
			Proposed	38.65										
		W12	Existing	38.48	0.99	Above	101°	34	1.00	Above	5	1.00	Above	
			Proposed	38.47				34			5			
		W13	Existing	38.24	1.00	Above	112°	38	1.00	Above	8	1.00	Above	
			Proposed	38.24				38			8			
R10	Bedroom	W14	Existing	35.53	1.00	Above	140°	54	1.00	Above	16	1.00	Above	
			Proposed	35.53				54			16			
R11	Bedroom	W15	Existing	20.98	1.00	Above	140°	30	1.00	Above	6	1.00	Above	
			Proposed	20.98				30			6			

Appendix 4B: VSC and Sunlight Results for Existing Neighbouring Buildings (Without Balconies)														
Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
Art Wood Apartments														
First	R1	LKD	W1	Existing	28.31	1.00	Above	199°	34 34	1.00	Above	16 16	1.00	Above
				Proposed	28.31									
			W2	Existing	34.42	0.89								
		Proposed	30.97											
	W3	Existing	35.56	0.46	Below	19°N	North Facing							
		Proposed	16.54											
	R2	Bedroom	W4	Existing							9.82	0.89	Above	288°N
				Proposed	8.79									
			W5	Existing	34.24	0.40	Below	353°N	North Facing					
		Proposed	14.01											
	R3	LKD	W6	Existing	33.46	0.40							Below	353°N
				Proposed	13.66									
R4			LKD	W7	Existing	35.39	0.83	Above	51°N	North Facing				
		Proposed		29.60										
Second	R1	LKD	W1	Existing	31.10	1.00	Above	199°	37 37	1.00	Above	19 19	1.00	Above
				Proposed	31.10									
			W2	Existing	36.41	0.91								
		Proposed	33.20											
	W3	Existing	37.98	0.51	Below	19°N	North Facing							
		Proposed	19.46											
	R2	Bedroom	W4	Existing							12.38	0.86	Above	288°N
				Proposed	10.65									
			W5	Existing	37.73	0.43	Below	353°N	North Facing					
		Proposed	16.29											
	R3	LKD	W6	Existing	37.39	0.42							Below	353°N
				Proposed	15.73									
R4			LKD	W7	Existing	37.61	0.82	Above	51°N	North Facing				
		Proposed		31.09										
Third	R1	LKD	W1	Existing	33.97	1.00	Above	199°	42 42	1.00	Above	24 24	1.00	Above
				Proposed	33.97									
			W2	Existing	37.90	0.93								
		Proposed	35.25											
	W3	Existing	38.84	0.59	Below (M)	19°N	North Facing							
		Proposed	23.14											
	R2	Bedroom	W4	Existing							19.37	0.90	Above	288°N
				Proposed	17.59									
			W5	Existing	39.14	0.49	Below	353°N	North Facing					
		Proposed	19.22											
	R3	LKD	W6	Existing	39.13	0.46							Below	353°N
				Proposed	18.29									
R4			LKD	W7	Existing	39.01	0.83	Above	51°N	North Facing				
		Proposed		32.49										
Fourth	R1	LKD	W1	Existing	36.63	1.00	Above	199°	44 44	1.00	Above	26 26	1.00	Above
				Proposed	36.63									
			W2	Existing	38.89	0.94								
		Proposed	36.85											
	W3	Existing	39.31	0.70	Above	19°N	North Facing							
		Proposed	27.54											
	R2	Bedroom	W4	Existing							34.34	0.87	Above	288°N
				Proposed	30.09									
			W5	Existing	39.48	0.58	Below (M)	353°N	North Facing					
		Proposed	22.92											
	R3	LKD	W6	Existing	39.49	0.54							Below	353°N
				Proposed	21.55									
R4			LKD	W7	Existing	39.53	0.85	Above	51°N	North Facing				
		Proposed		33.85										
17 St Stephen's road														
Ground	No-Room		W1	Existing	35.05	0.96	Above	137°	52	0.96	Above	20	0.90	Above
				Proposed	33.92				50			18		
19 St Stephen's road														
Ground	No-Room		W1	Existing	24.75	0.96	Above	137°	34	0.94	Above	7	0.71	Above
				Proposed	23.95				32			5		

Appendix 5[A]

DD Results for Existing
Neighbouring Buildings

Appendix SA: DD Results for Existing Neighbouring Buildings								
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/Ex	Meets BRE Criteria
1 to 6 Deen Court								
First	R1	Kitchen-Resi	Area m2 % of room	5.01	4.88 97%	3.24 65%	0.66	Below (M)
	R2	Living Room	Area m2 % of room	14.40	10.89 76%	5.45 38%		Below
	R3	Living Room	Area m2 % of room	14.40	10.25 71%	3.95 27%		Below
	R4	Kitchen-Resi	Area m2 % of room	5.01	4.87 97%	2.27 45%		Below
Second	R1	Kitchen-Resi	Area m2 % of room	5.01	4.88 97%	3.41 68%	0.69	Below (M)
	R2	Living Room	Area m2 % of room	14.40	14.40 100%	5.70 40%		Below
	R3	Living Room	Area m2 % of room	14.40	14.40 100%	4.18 29%		Below
	R4	Kitchen-Resi	Area m2 % of room	5.01	4.87 97%	2.54 51%		Below
Third	R1	Kitchen-Resi	Area m2 % of room	5.01	4.74 95%	3.56 71%	0.75	Below (M)
	R2	Living Room	Area m2 % of room	14.39	14.39 100%	5.74 40%		Below
	R3	Living Room	Area m2 % of room	14.40	14.40 100%	4.30 30%		Below
	R4	Kitchen-Resi	Area m2 % of room	5.01	4.78 95%	2.85 57%		Below
32 High Street								
Second	R1	Studio-Apt	Area m2 % of room	14.37	14.07 98%	7.82 54%	0.55	Below
Versatile House								
Ground	R1	LKD	Area m2 % of room	19.81	19.75 100%	9.65 49%	0.48	Below
	R2	Bedroom	Area m2 % of room	11.71	11.60 99%	6.99 60%		Below
	R3	Bedroom	Area m2 % of room	11.75	11.63 99%	6.38 54%		Below
	R4	LKD	Area m2 % of room	21.87	21.82 100%	12.66 58%		Below
First	R1	LKD	Area m2 % of room	19.81	19.75 100%	11.69 59%	0.59	Below
	R2	Bedroom	Area m2 % of room	11.71	11.59 99%	7.47 64%		Below (M)
	R3	Bedroom	Area m2 % of room	11.75	11.66 99%	7.18 61%		Below
	R4	LKD	Area m2 % of room	21.87	21.82 100%	13.15 60%		Below
Second	R1	LKD	Area m2 % of room	19.81	19.77 100%	12.45 63%	0.62	Below
	R2	Bedroom	Area m2 % of room	11.71	11.67 100%	8.34 71%		Below (M)
	R3	Bedroom	Area m2 % of room	11.75	11.67 99%	7.94 68%		Below (M)
	R4	LKD	Area m2 % of room	21.87	21.82 100%	14.06 64%		Below (M)
Third	R1	LKD	Area m2 % of room	19.81	19.78 100%	14.05 71%	0.71	Below (M)
	R2	Bedroom	Area m2 % of room	11.71	11.68 100%	9.54 81%		Above
	R3	Bedroom	Area m2 % of room	11.75	11.68 99%	8.91 76%		Below (M)
	R4	LKD	Area m2 % of room	21.87	21.82 100%	15.74 72%		Below (M)
Fourth	R1	Bedroom	Area m2 % of room	11.75	11.72 100%	10.06 86%	0.85	Above
	R2	LKD	Area m2 % of room	21.87	21.82 100%	19.39 89%		Above
Drayton Wharf								
First	R1	Bedroom	Area m2 % of room	10.67	10.51 98%	10.51 98%	0.99	Above
	R2	LKD	Area m2 % of room	18.75	13.63 73%	13.29 71%		Above
	R3	Bedroom	Area m2 % of room	13.01	9.38 72%	9.36 72%		Above
	R4	LKD	Area m2 % of room	24.44	14.31 59%	14.01 57%		Above
	R5	Bedroom	Area m2 % of room	17.92	12.22 68%	11.90 66%		Above
	R6	LKD	Area m2 % of room	31.07	21.97 71%	21.67 70%		Above
	R7	Bedroom	Area m2 % of room	14.33	14.32 100%	14.32 100%		Above
	R8	Bedroom	Area m2 % of room	17.61	17.57 100%	17.57 100%		Above
Second	R1	Bedroom	Area m2 % of room	10.67	10.51 98%	10.51 98%	0.99	Above

Appendix SA: DD Results for Existing Neighbouring Buildings								
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/Ex	Meets BRE Criteria
	R2	LKD	Area m2	18.75	18.26	17.99	0.98	Above
	R3	Bedroom	% of room	13.01	10.82	10.82		Above
	R4	LKD	Area m2	24.44	18.68	17.48	0.93	Above
	R5	Bedroom	% of room	17.92	14.19	13.81		Above
	R6	LKD	Area m2	31.07	24.69	24.17	0.97	Above
	R7	Bedroom	% of room	14.33	14.32	14.32		Above
	R8	Bedroom	Area m2	17.61	17.57	17.57	0.99	Above
	R9	LKD	% of room	29.99	100%	100%		Above
	R10	Bedroom	Area m2	29.99	29.75	29.75	0.99	Above
	R11	Bedroom	% of room	11.76	99%	99%		Above
			Area m2	12.41	11.57	11.57	1.00	Above
			% of room		93%	93%		
Third	R1	Bedroom	Area m2	10.67	10.51	10.51	0.99	Above
	R2	LKD	% of room	18.75	98%	98%		Above
	R3	Bedroom	Area m2	13.01	18.41	18.41	0.99	Above
	R4	LKD	% of room		98%	98%		Above
	R5	Bedroom	Area m2	24.44	13.01	13.01	0.99	Above
	R6	LKD	% of room		100%	100%		Above
	R7	Bedroom	Area m2	24.44	24.15	24.15	0.99	Above
	R8	Bedroom	% of room	17.92	99%	99%		Above
	R9	LKD	Area m2	17.92	17.89	17.89	0.99	Above
	R10	Bedroom	% of room	31.07	100%	100%		Above
			Area m2	14.33	30.47	30.47	0.99	Above
			% of room		98%	98%		Above
R11	Bedroom	Area m2	14.33	14.32	14.32	0.99	Above	
R12	Bedroom	% of room	17.61	100%	100%		Above	
R13	LKD	Area m2	17.61	17.60	17.60	0.99	Above	
R14	Bedroom	% of room	29.99	100%	100%		Above	
R15	LKD	Area m2	29.99	29.99	29.99	0.99	Above	
R16	Bedroom	% of room	11.76	99%	99%		Above	
R17	Bedroom	Area m2	11.76	11.62	11.62	1.00	Above	
R18	Bedroom	% of room	12.61	88%	88%		Above	
		Area m2	12.61	11.07	11.07	1.00	Above	
		% of room		88%	88%			
Fourth	R1	Bedroom	Area m2	10.67	10.51	10.51	0.99	Above
	R2	Bedroom	% of room	18.75	99%	99%		Above
	R3	Bedroom	Area m2	13.01	18.41	18.41	0.99	Above
	R4	Bedroom	% of room		98%	98%		Above
	R5	Bedroom	Area m2	24.44	13.01	13.01	0.99	Above
	R6	Bedroom	% of room		100%	100%		Above
	R7	Bedroom	Area m2	24.44	24.15	24.15	0.99	Above
	R8	Bedroom	% of room	17.92	99%	99%		Above
	R9	LKD	Area m2	17.92	17.89	17.89	0.99	Above
	R10	Bedroom	% of room	31.07	100%	100%		Above
			Area m2	14.33	30.73	30.73	0.99	Above
			% of room		99%	99%		Above
R11	Bedroom	Area m2	14.33	14.32	14.32	0.99	Above	
R12	Bedroom	% of room	17.61	100%	100%		Above	
R13	LKD	Area m2	17.61	17.60	17.60	0.99	Above	
R14	Bedroom	% of room	29.99	100%	100%		Above	
R15	LKD	Area m2	29.99	29.99	29.99	0.99	Above	
R16	Bedroom	% of room	11.76	99%	99%		Above	
R17	Bedroom	Area m2	11.76	11.70	11.70	1.00	Above	
R18	Bedroom	% of room	12.61	88%	88%		Above	
		Area m2	12.61	11.09	11.09	1.00	Above	
		% of room		88%	88%			
Art Wood Apartments								
First	R1	LKD	Area m2	26.83	25.56	25.00	0.97	Above
	R2	Bedroom	% of room	12.36	95%	93%		Above
	R3	LKD	Area m2	23.31	12.19	11.78	0.96	Above
	R4	LKD	% of room		99%	95%		Above
		Area m2	23.31	21.61	12.12	0.56	Below	
		% of room		93%	52%			
		Area m2	23.09	22.43	19.28	0.85	Above	
		% of room		97%	83%			
Second	R1	LKD	Area m2	26.83	26.25	25.80	0.98	Above
	R2	Bedroom	% of room	12.36	98%	96%		Above
	R3	LKD	Area m2	23.31	12.19	11.82	0.96	Above
	R4	LKD	% of room		99%	96%		Above
		Area m2	23.31	23.19	12.81	0.55	Below	
		% of room		99%	55%			
		Area m2	23.09	22.44	19.28	0.85	Above	
		% of room		97%	83%			
Third	R1	LKD	Area m2	26.83	26.71	26.30	0.98	Above
	R2	Bedroom	% of room	12.36	100%	98%		Above
	R3	LKD	Area m2	23.31	12.19	11.84	0.97	Above
	R4	LKD	% of room		99%	96%		Above
		Area m2	23.31	23.19	13.72	0.59	Below	
		% of room		99%	59%			
		Area m2	23.09	22.44	19.28	0.85	Above	
		% of room		97%	83%			
Fourth	R1	LKD	Area m2	26.83	26.73	26.67	0.99	Above
	R2	Bedroom	% of room	12.36	100%	99%		Above
	R3	LKD	Area m2	23.31	12.33	12.29	0.99	Above
	R4	LKD	% of room		100%	99%		Above
		Area m2	23.31	23.19	14.95	0.64	Below (M)	
		% of room		99%	64%			
		Area m2	23.09	22.44	19.30	0.86	Above	
		% of room		97%	84%			

Appendix 5[B]

DD Results for Existing
Neighbouring Buildings
(Without Balconies)

Appendix 5B: DD Results for Existing Neighbouring Buildings (Without Balconies)								
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/Ex	Meets BRE Criteria
1 to 6 Deen Court								
First	R1	Kitchen-Resi	Area m2	5.01	4.88	3.24	0.66	Below (M)
			% of room		97%	65%		
	R2	Living Room	Area m2	14.40	10.89	5.64	0.51	Below
			% of room		76%	39%		
R3	Living Room	Area m2	14.40	10.25	4.02	0.39	Below	
		% of room		71%	28%			
R4	Kitchen-Resi	Area m2	5.01	4.87	2.27	0.46	Below	
		% of room		97%	45%			
Second	R1	Kitchen-Resi	Area m2	5.01	4.88	3.41	0.69	Below (M)
			% of room		97%	68%		
	R2	Living Room	Area m2	14.40	14.40	5.88	0.40	Below
			% of room		100%	41%		
R3	Living Room	Area m2	14.40	14.40	4.26	0.29	Below	
		% of room		100%	30%			
R4	Kitchen-Resi	Area m2	5.01	4.87	2.54	0.52	Below	
		% of room		97%	51%			
Third	R1	Kitchen-Resi	Area m2	5.01	4.74	3.56	0.75	Below (M)
			% of room		95%	71%		
	R2	Living Room	Area m2	14.39	14.39	6.10	0.42	Below
			% of room		100%	42%		
R3	Living Room	Area m2	14.40	14.40	4.57	0.31	Below	
		% of room		100%	32%			
R4	Kitchen-Resi	Area m2	5.01	4.79	2.85	0.59	Below	
		% of room		96%	57%			
32 High Street								
Second	R1	Studio-Apt	Area m2	14.37	14.08	7.87	0.55	Below
			% of room		98%	55%		
Versatile House								
Ground	R1	LKD	Area m2	19.81	19.75	9.65	0.48	Below
			% of room		100%	49%		
	R2	Bedroom	Area m2	11.71	11.67	7.06	0.60	Below
			% of room		100%	60%		
R3	Bedroom	Area m2	11.75	11.74	6.50	0.55	Below	
		% of room		100%	55%			
R4	LKD	Area m2	21.87	21.82	12.66	0.58	Below	
		% of room		100%	58%			
First	R1	LKD	Area m2	19.81	19.76	11.69	0.59	Below
			% of room		100%	59%		
	R2	Bedroom	Area m2	11.71	11.67	7.55	0.64	Below (M)
			% of room		100%	64%		
R3	Bedroom	Area m2	11.75	11.74	7.27	0.61	Below	
		% of room		100%	62%			
R4	LKD	Area m2	21.87	21.82	13.15	0.60	Below	
		% of room		100%	60%			
Second	R1	LKD	Area m2	19.81	19.77	12.45	0.62	Below
			% of room		100%	63%		
	R2	Bedroom	Area m2	11.71	11.70	8.37	0.71	Below (M)
			% of room		100%	71%		
R3	Bedroom	Area m2	11.75	11.74	8.01	0.68	Below (M)	
		% of room		100%	68%			
R4	LKD	Area m2	21.87	21.82	14.06	0.64	Below (M)	
		% of room		100%	64%			
Third	R1	LKD	Area m2	19.81	19.79	14.06	0.71	Below (M)
			% of room		100%	71%		
	R2	Bedroom	Area m2	11.71	11.71	9.57	0.81	Above
			% of room		100%	82%		
R3	Bedroom	Area m2	11.75	11.74	8.97	0.76	Below (M)	
		% of room		100%	76%			
R4	LKD	Area m2	21.87	21.82	15.74	0.72	Below (M)	
		% of room		100%	72%			
Fourth	R1	Bedroom	Area m2	11.75	11.74	10.08	0.85	Above
			% of room		100%	86%		
R2	LKD	Area m2	21.87	21.82	19.39	0.88	Above	
		% of room		100%	89%			
Drayton Wharf								
First	R1	Bedroom	Area m2	10.67	10.51	10.51	0.99	Above
			% of room		99%	99%		
	R2	LKD	Area m2	18.75	17.77	17.72	0.99	Above
			% of room		95%	94%		
	R3	Bedroom	Area m2	13.01	10.90	10.90	0.99	Above
			% of room		84%	84%		
	R4	LKD	Area m2	24.44	19.11	18.72	0.97	Above
			% of room		78%	77%		
Second	R5	Bedroom	Area m2	17.92	15.45	15.34	0.99	Above
			% of room		86%	86%		
	R6	LKD	Area m2	31.07	25.30	24.93	0.98	Above
			% of room		81%	80%		
	R7	Bedroom	Area m2	14.33	14.32	14.32	0.99	Above
			% of room		100%	100%		
	R8	Bedroom	Area m2	17.61	17.60	17.60	1.00	Above
			% of room		100%	100%		
Second	R1	Bedroom	Area m2	10.67	10.51	10.51	0.99	Above
		% of room		99%	99%			

Appendix 5B: DD Results for Existing Neighbouring Buildings (Without Balconies)								
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/Ex	Meets BRE Criteria
	R2	LKD	Area m2	18.75	18.41	18.41	0.99	Above
			% of room		98%	98%		
	R3	Bedroom	Area m2	13.01	12.37	12.37	0.99	Above
			% of room		95%	95%		
	R4	LKD	Area m2	24.44	23.41	22.63	0.96	Above
			% of room		96%	93%		
	R5	Bedroom	Area m2	17.92	17.17	17.15	0.99	Above
			% of room		96%	96%		
	R6	LKD	Area m2	31.07	27.74	27.54	0.99	Above
			% of room		89%	89%		
	R7	Bedroom	Area m2	14.33	14.32	14.32	0.99	Above
			% of room		100%	100%		
R8	Bedroom	Area m2	17.61	17.60	17.60	1.00	Above	
		% of room		100%	100%			
R9	LKD	Area m2	29.99	29.75	29.75	0.99	Above	
		% of room		99%	99%			
R10	Bedroom	Area m2	11.76	11.66	11.66	1.00	Above	
		% of room		99%	99%			
R11	Bedroom	Area m2	12.41	11.57	11.57	1.00	Above	
		% of room		93%	93%			
Third	R1	Bedroom	Area m2	10.67	10.51	10.51	0.99	Above
			% of room		99%	99%		
	R2	LKD	Area m2	18.75	18.41	18.41	0.99	Above
			% of room		98%	98%		
	R3	Bedroom	Area m2	13.01	13.01	13.01	0.99	Above
			% of room		100%	100%		
	R4	LKD	Area m2	24.44	24.20	24.20	0.99	Above
			% of room		99%	99%		
	R5	Bedroom	Area m2	17.92	17.90	17.90	0.99	Above
			% of room		100%	100%		
	R6	LKD	Area m2	31.07	30.78	30.78	0.99	Above
			% of room		99%	99%		
R7	Bedroom	Area m2	14.33	14.32	14.32	0.99	Above	
		% of room		100%	100%			
R8	Bedroom	Area m2	17.61	17.60	17.60	1.00	Above	
		% of room		100%	100%			
R9	LKD	Area m2	29.99	29.99	29.99	0.99	Above	
		% of room		100%	100%			
R10	Bedroom	Area m2	11.76	11.62	11.62	1.00	Above	
		% of room		99%	99%			
R11	Bedroom	Area m2	12.61	11.07	11.07	1.00	Above	
		% of room		88%	88%			
Fourth	R1	Bedroom	Area m2	10.67	10.51	10.51	0.99	Above
			% of room		99%	99%		
	R2	LKD	Area m2	18.75	18.41	18.41	0.99	Above
			% of room		98%	98%		
	R3	Bedroom	Area m2	13.01	13.01	13.01	0.99	Above
			% of room		100%	100%		
	R4	LKD	Area m2	24.44	24.20	24.20	0.99	Above
			% of room		99%	99%		
	R5	Bedroom	Area m2	17.92	17.90	17.90	0.99	Above
			% of room		100%	100%		
	R6	LKD	Area m2	31.07	30.78	30.78	0.99	Above
			% of room		99%	99%		
R7	Bedroom	Area m2	14.33	14.32	14.32	0.99	Above	
		% of room		100%	100%			
R8	Bedroom	Area m2	17.61	17.60	17.60	1.00	Above	
		% of room		100%	100%			
R9	LKD	Area m2	29.99	29.99	29.99	0.99	Above	
		% of room		100%	100%			
R10	Bedroom	Area m2	11.76	11.70	11.70	1.00	Above	
		% of room		99%	99%			
R11	Bedroom	Area m2	12.61	11.09	11.09	1.00	Above	
		% of room		88%	88%			
Art Wood Apartments								
First	R1	LKD	Area m2	26.83	25.63	25.35	0.98	Above
			% of room		96%	94%		
	R2	Bedroom	Area m2	12.36	12.19	11.93	0.97	Above
			% of room		99%	97%		
	R3	LKD	Area m2	23.31	21.61	12.12	0.56	Below
			% of room		93%	52%		
	R4	LKD	Area m2	23.09	22.44	19.34	0.86	Above
			% of room		97%	84%		
Second	R1	LKD	Area m2	26.83	26.48	26.29	0.99	Above
			% of room		99%	98%		
	R2	Bedroom	Area m2	12.36	12.19	11.95	0.98	Above
			% of room		99%	97%		
	R3	LKD	Area m2	23.31	23.19	12.81	0.55	Below
			% of room		99%	55%		
	R4	LKD	Area m2	23.09	22.45	19.38	0.86	Above
			% of room		97%	84%		
Third	R1	LKD	Area m2	26.83	26.71	26.59	0.99	Above
			% of room		100%	99%		
	R2	Bedroom	Area m2	12.36	12.19	12.15	0.99	Above
			% of room		99%	98%		
	R3	LKD	Area m2	23.31	23.19	13.72	0.59	Below
			% of room		99%	59%		
	R4	LKD	Area m2	23.09	22.45	19.50	0.86	Above
			% of room		97%	84%		
Fourth	R1	LKD	Area m2	26.83	26.73	26.67	0.99	Above
			% of room		100%	99%		

Appendix 5B: DD Results for Existing Neighbouring Buildings (Without Balconies)								
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/Ex	Meets BRE Criteria
	R2	Bedroom	Area m2	12.36	12.33	12.29	0.99	Above
			% of room		100%	99%		
	R3	LKD	Area m2	23.31	23.19	14.95		Below (M)
			% of room		99%	64%	0.64	
	R4	LKD	Area m2	23.09	22.45	19.71	0.87	Above
			% of room		97%	85%		

Appendix 6[A]

ADF Results for Existing
Neighbouring Buildings

Appendix 6A: ADF Results for Existing Neighbouring Buildings																	
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria		
1 to 6 Deen Court																	
First	R1	Kitchen-Resi	W1	0.68	0.92	0.70	65.21	43.56	31.53	1.00	1.20	0.80	2.00	0.67	Below (M)		
											1.20	0.80					
First	R2	Living Room	W2-L	0.68	0.92	0.60	50.06	26.05	67.44	0.30	0.11	0.06	1.50	0.42	Below		
			W2-U	0.68	0.92	0.84	40.54	15.06	67.44	1.00	0.42	0.16					
			W3-L	0.68	0.92	0.05	50.13	26.52	67.44	0.30	0.01	0.01					
			W3-U	0.68	0.92	1.65	41.10	17.92	67.44	1.00	0.84	0.37					
											1.38	0.59					
First	R3	Living Room	W4-L	0.68	0.92	0.05	50.35	24.17	67.44	0.30	0.01	0.00	1.50	0.39	Below		
			W4-U	0.68	0.92	1.65	41.54	14.76	67.44	1.00	0.85	0.30					
			W5-L	0.68	0.92	0.60	48.63	27.73	67.44	0.30	0.11	0.06					
			W5-U	0.68	0.92	0.84	39.05	16.02	67.44	1.00	0.40	0.17					
											1.37	0.53					
First	R4	Kitchen-Resi	W6	0.68	0.92	0.70	64.36	39.42	31.53	1.00	1.19	0.73	2.00	0.61	Below		
											1.19	0.73					
Second	R1	Kitchen-Resi	W1	0.68	0.92	0.70	71.22	47.29	31.53	1.00	1.32	0.87	2.00	0.66	Below (M)		
											1.32	0.87					
Second	R2	Living Room	W2-L	0.68	0.92	0.60	55.04	29.77	67.44	0.30	0.12	0.07	1.50	0.41	Below		
			W2-U	0.68	0.92	0.84	45.69	16.08	67.44	1.00	0.47	0.17					
			W3-L	0.68	0.92	0.05	55.71	30.97	67.44	0.30	0.01	0.01					
			W3-U	0.68	0.92	1.65	46.86	19.57	67.44	1.00	0.96	0.40					
											1.57	0.64					
Second	R3	Living Room	W4-L	0.68	0.92	0.05	56.24	28.86	67.44	0.30	0.01	0.01	1.50	0.38	Below		
			W4-U	0.68	0.92	1.65	47.43	16.37	67.44	1.00	0.97	0.33					
			W5-L	0.68	0.92	0.60	53.74	31.36	67.44	0.30	0.12	0.07					
			W5-U	0.68	0.92	0.84	44.41	18.30	67.44	1.00	0.46	0.19					
											1.56	0.60					
Second	R4	Kitchen-Resi	W6	0.68	0.92	0.70	71.58	43.43	31.53	1.00	1.32	0.80	2.00	0.61	Below		
											1.32	0.80					
Third	R1	Kitchen-Resi	W1	0.68	0.92	0.53	75.24	50.34	31.53	1.00	1.06	0.71	2.00	0.67	Below (M)		
											1.06	0.71					
Third	R2	Living Room	W3-L	0.68	0.92	0.05	57.26	31.39	67.43	0.30	0.01	0.01	1.50	0.40	Below		
			W3-U	0.68	0.92	1.65	45.47	18.12	67.43	1.00	0.93	0.37					
			W2-L	0.68	0.92	0.60	57.78	31.60	67.43	0.30	0.13	0.07					
			W2-U	0.68	0.92	0.84	44.65	15.27	67.43	1.00	0.46	0.16					
											1.53	0.61					
Third	R3	Living Room	W4-L	0.68	0.92	0.05	57.85	29.35	67.44	0.30	0.01	0.01	1.50	0.37	Below		
			W4-U	0.68	0.92	1.65	46.03	14.92	67.44	1.00	0.94	0.31					
			W5-L	0.68	0.92	0.60	56.63	33.14	67.44	0.30	0.13	0.07					
			W5-U	0.68	0.92	0.84	43.51	16.98	67.44	1.00	0.45	0.18					
											1.53	0.56					
Third	R4	Kitchen-Resi	W6	0.68	0.92	0.53	75.99	46.54	31.53	1.00	1.07	0.65	2.00	0.61	Below		
											1.07	0.65					
32 High Street																	
Second	R1	Studio-Apt	W9	0.68	0.92	0.77	50.84	43.82	68.11	1.00	0.48	0.41	2.00	0.64	Above		
			W7	0.68	0.92	0.77	34.73	24.41	68.11	1.00	0.33	0.23					
			W8	0.68	0.92	2.60	79.59	47.40	68.11	1.00	2.53	1.51					
											3.34	2.15					
Versatile House																	
Ground	R1	LKD	W1-L	0.68	0.92	2.01	44.72	38.71	86.93	0.30	0.26	0.22	2.00	0.68	Below (M)		
			W1-U	0.68	0.92	2.79	43.89	28.22	86.93	1.00	1.17	0.76					
											1.43	0.98					
Ground	R2	Bedroom	W2	0.68	0.92	0.40	21.41	19.77	57.01	1.00	0.13	0.12				1.00	0.81
			W3	0.68	0.92	0.70	69.08	54.36	57.01	1.00	0.71	0.56					
											0.84	0.68					
Ground	R3	Bedroom	W4	0.68	0.92	0.70	69.25	54.71	57.06	1.00	0.71	0.56	1.00	0.83	Above		
			W5	0.68	0.92	0.48	25.15	24.92	57.06	1.00	0.18	0.17					
											0.89	0.74					
Ground	R4	LKD	W6-L	0.68	0.92	2.01	52.65	46.43	91.23	0.30	0.29	0.26				2.00	0.73
			W6-U	0.68	0.92	2.79	49.87	34.89	91.23	1.00	1.27	0.89					
											1.56	1.15					
First	R1	LKD	W1-L	0.68	0.92	2.01	66.48	50.38	86.93	0.30	0.38	0.29	2.00	0.71	Below (M)		
			W1-U	0.68	0.92	2.79	53.80	37.57	86.93	1.00	1.44	1.01					
											1.82	1.30					
First	R2	Bedroom	W2	0.68	0.92	0.40	27.49	26.14	57.01	1.00	0.16	0.15				1.00	0.81
			W3	0.68	0.92	0.70	74.98	58.27	57.01	1.00	0.77	0.60					
											0.93	0.75					
First	R3	Bedroom	W4	0.68	0.92	0.70	74.70	58.38	57.06	1.00	0.77	0.60	1.00	0.82	Above		
			W5	0.68	0.92	0.48	27.04	26.80	57.06	1.00	0.19	0.19					
											0.96	0.79					
First	R4	LKD	W6-L	0.68	0.92	2.01	66.73	51.82	91.23	0.30	0.37	0.29				2.00	0.73
			W6-U	0.68	0.92	2.79	53.87	38.95	91.23	1.00	1.37	0.99					
											1.74	1.28					
Second	R1	LKD	W1-L	0.68	0.92	2.01	68.89	53.79	86.93	0.30	0.40	0.31	2.00	0.75	Below (M)		
			W1-U	0.68	0.92	2.79	55.83	41.34	86.93	1.00	1.49	1.11					
											1.89	1.42					
Second	R2	Bedroom	W2	0.68	0.92	0.40	29.25	28.17	57.01	1.00	0.17	0.17				1.00	0.83
			W3	0.68	0.92	0.70	76.99	61.35	57.01	1.00	0.79	0.63					
											0.97	0.80					
Second	R3	Bedroom	W4	0.68	0.92	0.70	76.80	61.51	57.06	1.00	0.79	0.63	1.00	0.84	Above		
			W5	0.68	0.92	0.48	28.37	28.16	57.06	1.00	0.20	0.20					
											0.99	0.83					
Second	R4	LKD	W6-L	0.68	0.92	2.01	69.01	54.95	91.23	0.30	0.38	0.30				2.00	0.77
			W6-U	0.68	0.92	2.79	55.76	42.35	91.23	1.00	1.42	1.08					
											1.80	1.38					

Appendix 6A: ADF Results for Existing Neighbouring Buildings																			
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria				
Third	R1	LKD	W1-L W1-U	0.68 0.68	0.92 0.92	2.01 2.79	74.30 59.74	60.40 47.29	86.93 86.93	0.30 1.00	0.43 1.60 2.03	0.35 1.27 1.62	2.00	0.80	Below (M)				
Third	R2	Bedroom	W2 W3	0.68 0.68	0.92 0.92	0.40 0.70	36.49 78.53	35.74 64.53	57.01 57.01	1.00 1.00	0.21 0.81 1.02	0.21 0.66 0.88				1.00	0.85	Above	
Third	R3	Bedroom	W4 W5	0.68 0.68	0.92 0.92	0.70 0.48	78.39 29.44	64.70 29.26	57.06 57.06	1.00 1.00	0.81 0.21 1.01	0.67 0.20 0.87							1.00
Third	R4	LKD	W6-L W6-U	0.68 0.68	0.92 0.92	2.01 2.79	70.62 57.16	58.09 45.63	91.23 91.23	0.30 1.00	0.39 1.46 1.85	0.32 1.16 1.48	2.00	0.80	Above				
Fourth	R1	Bedroom	W1 W2	0.68 0.68	0.92 0.92	0.70 0.48	79.67 34.38	67.92 34.23	57.06 57.06	1.00 1.00	0.82 0.24 1.06	0.70 0.24 0.94				1.00	0.88	Above	
Fourth	R2	LKD	W3-L W3-U	0.68 0.68	0.92 0.92	2.01 2.79	75.05 58.50	63.90 48.96	91.23 91.23	0.30 1.00	0.41 1.49 1.91	0.35 1.25 1.60							2.00
Drayton Wharf																			
First	R1	Bedroom	W1-L W1-U	0.68 0.68	0.92 0.92	0.95 1.87	58.19 57.92	55.97 55.78	54.29 54.29	0.30 1.00	0.25 1.67 1.92	0.24 1.61 1.85	1.00	0.96	Above				
First	R2	LKD	W2-L W2-U W3-L W3-U	0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92	1.64 3.26 1.64 3.26	43.62 24.06 39.19 18.18	41.80 21.38 37.80 15.76	83.94 83.94 83.94 83.94	0.30 1.00 0.30 1.00	0.21 0.78 0.19 0.59	0.20 0.69 0.19 0.51				2.00	0.90	Above	
First	R3	Bedroom	W3-L W3-U	0.68 0.68	0.92 0.92	1.64 3.26	39.19 18.18	37.80 15.76	70.15 70.15	0.30 1.00	0.23 0.70 0.93	0.22 0.61 0.83							1.00
First	R4	LKD	W4-L W4-U	0.68 0.68	0.92 0.92	1.64 3.26	41.16 21.50	39.95 19.79	99.36 99.36	0.30 1.00	0.17 0.59 0.76	0.17 0.54 0.71	2.00	0.93	Above				
First	R5	Bedroom	W5-L W5-U	0.68 0.68	0.92 0.92	1.73 3.30	40.41 20.23	39.61 18.95	80.96 80.96	0.30 1.00	0.22 0.69 0.90	0.21 0.64 0.86				1.00	0.95	Above	
First	R6	LKD	W6-L W6-U	0.68 0.68	0.92 0.92	1.64 3.26	42.44 23.63	41.71 22.72	122.77 122.77	0.30 1.00	0.14 0.52 0.66	0.14 0.50 0.64							2.00
First	R7	Bedroom	W7-L W7-U	0.68 0.68	0.92 0.92	1.64 3.26	42.20 23.34	41.77 22.75	67.78 67.78	0.30 1.00	0.26 0.94 1.19	0.25 0.91 1.16	1.00	0.98	Above				
First	R8	Bedroom	W8-L W8-U	0.68 0.68	0.92 0.92	1.64 3.26	44.28 26.67	43.86 26.19	80.09 80.09	0.30 1.00	0.23 0.91 1.13	0.23 0.89 1.11				1.00	0.98	Above	
Second	R1	Bedroom	W1-L W1-U	0.68 0.68	0.92 0.92	0.95 1.87	61.81 61.43	59.71 59.31	54.29 54.29	0.30 1.00	0.27 1.77 2.04	0.26 1.71 1.97							1.00
Second	R2	LKD	W2-L W2-U	0.68 0.68	0.92 0.92	1.64 3.26	47.00 28.67	45.32 26.32	83.94 83.94	0.30 1.00	0.23 0.93 1.16	0.22 0.85 1.07	2.00	0.93	Above				
Second	R3	Bedroom	W3-L W3-U	0.68 0.68	0.92 0.92	1.64 3.26	43.11 24.42	41.75 22.30	70.15 70.15	0.30 1.00	0.25 0.95 1.20	0.24 0.86 1.11				1.00	0.92	Above	
Second	R4	LKD	W4-L W4-U	0.68 0.68	0.92 0.92	1.64 3.26	44.71 26.56	43.56 24.94	99.36 99.36	0.30 1.00	0.19 0.73 0.91	0.18 0.68 0.86							2.00
Second	R5	Bedroom	W5-L W5-U	0.68 0.68	0.92 0.92	1.73 3.30	44.16 25.76	43.30 24.46	80.96 80.96	0.30 1.00	0.24 0.88 1.11	0.23 0.83 1.06	1.00	0.96	Above				
Second	R6	LKD	W6-L W6-U	0.68 0.68	0.92 0.92	1.64 3.26	45.98 28.23	45.31 27.38	122.77 122.77	0.30 1.00	0.15 0.62 0.78	0.15 0.61 0.76				2.00	0.97	Above	
Second	R7	Bedroom	W7-L W7-U	0.68 0.68	0.92 0.92	1.64 3.26	45.81 28.01	45.34 27.33	67.78 67.78	0.30 1.00	0.28 1.12 1.40	0.27 1.09 1.37							1.00
Second	R8	Bedroom	W8-L W8-U	0.68 0.68	0.92 0.92	1.64 3.26	47.97 30.64	47.55 30.12	80.09 80.09	0.30 1.00	0.25 1.04 1.29	0.24 1.02 1.27	1.00	0.98	Above				
Second	R9	LKD	W10-L W10-U W12-L W12-U W11-L W11-U W13-L W13-U W9-L W9-U	0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92	0.62 1.22 0.61 1.21 0.61 1.20 0.61 1.21 1.64 3.26	74.09 74.13 74.87 75.00 76.00 75.97 70.40 71.18 50.23 32.73	74.09 74.13 74.87 75.00 76.00 75.97 70.40 71.18 50.01 32.45	127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41	0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00	0.09 0.59 0.09 0.60 0.09 0.60 0.08 0.56 0.16 0.70	0.09 0.59 0.09 0.60 0.09 0.60 0.08 0.56 0.16 0.69				2.00	1.00	Above	
Second	R10	Bedroom	W14-L W14-U	0.68 0.68	0.92 0.92	1.14 2.26	64.69 64.55	64.69 64.55	58.88 58.88	0.30 1.00	0.31 2.07 2.38	0.31 2.07 2.38							1.00
Second	R11	Bedroom	W15-L W15-U	0.68 0.68	0.92 0.92	0.67 1.33	57.52 51.87	57.52 51.87	62.27 62.27	0.30 1.00	0.15 0.92 1.08	0.15 0.92 1.08	1.00	1.00	Above				
Third	R1	Bedroom	W1-L W1-U	0.68 0.68	0.92 0.92	0.95 1.87	65.68 65.43	63.43 63.15	54.29 54.29	0.30 1.00	0.29 1.88 2.17	0.28 1.82 2.09				1.00	0.97	Above	

Appendix 6A: ADF Results for Existing Neighbouring Buildings																
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria	
Third	R2	LKD	W2-L W2-U	0.68 0.68	0.92 0.92	1.64 3.26	50.13 32.55	48.38 30.33	83.94 83.94	0.30 1.00	0.25 1.05	0.24 0.98				
											1.30 1.22		2.00	0.94	Above	
Third	R3	Bedroom	W3-L W3-U	0.68 0.68	0.92 0.92	1.64 3.26	46.74 29.24	45.23 27.09	70.15 70.15	0.30 1.00	0.27 1.13	0.27 1.05				
											1.41 1.31		1.00	0.93	Above	
Third	R4	LKD	W4-L W4-U	0.68 0.68	0.92 0.92	1.64 3.26	47.90 30.56	46.71 28.98	99.36 99.36	0.30 1.00	0.20 0.84	0.19 0.79				
											1.03 0.99		2.00	0.95	Above	
Third	R5	Bedroom	W5-L W5-U	0.68 0.68	0.92 0.92	1.73 3.30	47.51 30.02	46.51 28.55	80.96 80.96	0.30 1.00	0.25 1.02	0.25 0.97				
											1.27 1.22		1.00	0.96	Above	
Third	R6	LKD	W6-L W6-U	0.68 0.68	0.92 0.92	1.64 3.26	48.93 31.71	48.31 30.88	122.77 122.77	0.30 1.00	0.16 0.70	0.16 0.68				
											0.87 0.84		2.00	0.98	Above	
Third	R7	Bedroom	W7-L W7-U	0.68 0.68	0.92 0.92	1.64 3.26	48.73 31.54	48.13 30.61	67.78 67.78	0.30 1.00	0.30 1.26	0.29 1.23				
											1.56 1.52		1.00	0.97	Above	
Third	R8	Bedroom	W8-L W8-U	0.68 0.68	0.92 0.92	1.64 3.26	50.57 33.30	50.15 32.76	80.09 80.09	0.30 1.00	0.26 1.13	0.26 1.11				
											1.39 1.37		1.00	0.99	Above	
Third	R9	LKD	W9-L W9-U W10-L W10-U W11-L W11-U W12-L W12-U W13-L W13-U	0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92	1.64 3.26 0.62 1.22 0.61 1.20 0.61 1.21 0.61 1.21	52.86 35.38 77.68 77.48 80.58 80.20 80.03 79.87 75.67 76.27	52.52 34.81 77.68 77.48 80.58 80.18 80.03 79.87 75.67 76.27	127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41	0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00	0.17 0.75 0.09 0.62 0.10 0.63 0.10 0.63 0.09 0.60	0.17 0.74 0.09 0.62 0.10 0.63 0.10 0.63 0.09 0.60				
											3.79 3.78		2.00	1.00	Above	
Third	R10	Bedroom	W14-L W14-U	0.68 0.68	0.92 0.92	1.14 2.26	67.64 68.54	67.64 68.54	58.88 58.88	0.30 1.00	0.33 2.19	0.33 2.19				
											2.52 2.52		1.00	1.00	Above	
Third	R11	Bedroom	W15-L W15-U	0.68 0.68	0.92 0.92	0.67 1.33	45.83 46.40	45.83 46.40	63.46 63.46	0.30 1.00	0.12 0.81	0.12 0.81				
											0.93 0.93		1.00	1.00	Above	
Fourth	R1	Bedroom	W1-L W1-U	0.68 0.68	0.92 0.92	0.95 1.87	71.60 73.88	69.07 71.24	54.29 54.29	0.30 1.00	0.31 2.13	0.30 2.05				
											2.44 2.35		1.00	0.96	Above	
Fourth	R2	Bedroom	W2-L W2-U	0.68 0.68	0.92 0.92	1.64 3.26	52.96 35.69	51.16 33.57	83.94 83.94	0.30 1.00	0.26 1.15	0.25 1.09				
											1.41 1.34		1.00	0.95	Above	
Fourth	R3	Bedroom	W3-L W3-U	0.68 0.68	0.92 0.92	1.64 3.26	49.94 33.01	48.20 30.76	70.15 70.15	0.30 1.00	0.29 1.28	0.28 1.19				
											1.57 1.47		1.00	0.94	Above	
Fourth	R4	Bedroom	W4-L W4-U	0.68 0.68	0.92 0.92	1.64 3.26	50.54 33.55	49.30 32.02	99.36 99.36	0.30 1.00	0.21 0.92	0.20 0.88				
											1.13 1.08		1.00	0.96	Above	
Fourth	R5	Bedroom	W5-L W5-U	0.68 0.68	0.92 0.92	1.73 3.30	50.34 33.29	49.05 31.58	80.96 80.96	0.30 1.00	0.27 1.13	0.26 1.07				
											1.40 1.34		1.00	0.95	Above	
Fourth	R6	Bedroom	W6-L W6-U	0.68 0.68	0.92 0.92	1.64 3.26	51.14 34.05	50.41 33.13	122.77 122.77	0.30 1.00	0.17 0.75	0.17 0.73				
											0.92 0.90		1.00	0.98	Above	
Fourth	R7	Bedroom	W7-L W7-U	0.68 0.68	0.92 0.92	1.64 3.26	51.00 33.95	50.07 32.67	67.78 67.78	0.30 1.00	0.31 1.36	0.30 1.31				
											1.67 1.61		1.00	0.97	Above	
Fourth	R8	Bedroom	W8-L W8-U	0.68 0.68	0.92 0.92	1.64 3.26	52.16 34.82	51.67 34.22	80.09 80.09	0.30 1.00	0.27 1.18	0.27 1.16				
											1.45 1.43		1.00	0.98	Above	
Fourth	R9	Bedroom	W9-L W9-U W11-L W11-U W10-L W10-U W13-L W13-U W12-L W12-U	0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92	1.64 3.26 0.61 1.20 0.62 1.22 0.61 1.21 0.61 1.21	54.53 36.95 84.93 84.21 81.19 81.22 80.59 80.67 84.74 83.99	53.85 36.02 84.89 84.15 81.19 81.22 80.59 80.67 84.72 83.96	127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41	0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00	0.18 0.79 0.10 0.66 0.10 0.65 0.10 0.64 0.10 0.67	0.17 0.77 0.10 0.66 0.10 0.65 0.10 0.64 0.10 0.67				
											3.98 3.96		1.00	0.99	Above	
Fourth	R10	Bedroom	W14-L W14-U	0.68 0.68	0.92 0.92	1.14 2.26	73.95 75.98	73.95 75.98	58.88 58.88	0.30 1.00	0.36 2.43	0.36 2.43				
											2.79 2.79		1.00	1.00	Above	
Fourth	R11	Bedroom	W15-L W15-U	0.68 0.68	0.92 0.92	0.67 1.33	49.24 51.50	49.24 51.50	63.46 63.46	0.30 1.00	0.13 0.90	0.13 0.90				
											1.03 1.03		1.00	1.00	Above	
Art Wood Apartments																
First	R1	LKD	W2-L W2-U W1-L W1-U W3-L W3-U	0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92	1.72 2.59 1.01 1.73 1.01 1.73	50.06 43.43 62.64 62.00 75.58 75.14	46.23 39.65 62.64 62.00 44.24 42.98	113.21 113.21 113.21 113.21 113.21 113.21	0.30 1.00 0.30 1.00 0.30 1.00	0.19 0.83 0.14 0.79 0.17 0.96	0.18 0.76 0.14 0.79 0.10 0.55				
											3.08 2.51		2.00	0.82	Above	

Appendix 6A: ADF Results for Existing Neighbouring Buildings																
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria	
First	R2	Bedroom	W4-L	0.68	0.92	1.01	27.90	19.79	60.80	0.30	0.12	0.08	1.00	0.59	Above	
			W4-U	0.68	0.92	1.72	22.70	17.20	60.80	1.00	0.54	0.41				
			W5-L	0.68	0.92	1.00	72.11	39.94	60.80	0.30	0.30	0.16				
			W5-U	0.68	0.92	1.71	72.28	38.30	60.80	1.00	1.69	0.90				
											2.64	1.55				
First	R3	LKD	W6-L	0.68	0.92	1.51	71.20	40.05	96.44	0.30	0.28	0.16	2.00	0.91	Above	
			W6-U	0.68	0.92	2.58	71.12	37.99	96.44	1.00	1.59	0.85				
											1.87	1.01				
First	R4	LKD	W7-L	0.68	0.92	1.50	52.37	45.13	97.55	0.30	0.20	0.17	2.00	0.54	Below	
			W7-U	0.68	0.92	2.56	48.47	44.34	97.55	1.00	1.06	0.97				
											1.26	1.14				
Second	R1	LKD	W2-L	0.68	0.92	1.72	51.18	47.95	113.21	0.30	0.19	0.18	2.00	0.82	Above	
			W2-U	0.68	0.92	2.59	46.96	42.93	113.21	1.00	0.90	0.82				
			W3-L	0.68	0.92	1.01	82.53	48.65	113.21	0.30	0.18	0.11				
			W3-U	0.68	0.92	1.73	80.28	47.80	113.21	1.00	1.02	0.61				
			W1-L	0.68	0.92	1.01	67.46	67.46	113.21	0.30	0.15	0.15				
			W1-U	0.68	0.92	1.73	66.65	66.65	113.21	1.00	0.85	0.85				
											3.30	2.72				
											0.12	0.09				
Second	R2	Bedroom	W4-L	0.68	0.92	1.01	28.68	22.84	60.80	0.30	0.12	0.09	1.00	0.58	Above	
			W4-U	0.68	0.92	1.72	25.06	18.00	60.80	1.00	0.59	0.42				
			W5-L	0.68	0.92	1.00	80.61	43.54	60.80	0.30	0.33	0.18				
			W5-U	0.68	0.92	1.71	79.28	42.27	60.80	1.00	1.86	0.99				
											2.90	1.69				
Second	R3	LKD	W6-L	0.68	0.92	1.51	80.20	43.40	96.44	0.30	0.31	0.17	2.00	0.53	Below	
			W6-U	0.68	0.92	2.58	78.87	41.67	96.44	1.00	1.76	0.93				
											2.08	1.10				
Second	R4	LKD	W7-L	0.68	0.92	1.50	52.94	45.27	97.55	0.30	0.20	0.17	2.00	0.88	Above	
			W7-U	0.68	0.92	2.56	52.15	46.07	97.55	1.00	1.14	1.01				
											1.34	1.18				
Third	R1	LKD	W1-L	0.68	0.92	1.01	72.64	72.64	113.21	0.30	0.16	0.16	2.00	0.85	Above	
			W1-U	0.68	0.92	1.73	71.66	71.66	113.21	1.00	0.92	0.92				
			W2-L	0.68	0.92	1.72	51.41	49.10	113.21	0.30	0.20	0.19				
			W2-U	0.68	0.92	2.59	49.63	45.84	113.21	1.00	0.95	0.88				
			W3-L	0.68	0.92	1.01	85.05	54.11	113.21	0.30	0.19	0.12				
			W3-U	0.68	0.92	1.73	82.12	53.69	113.21	1.00	1.04	0.68				
											3.46	2.94				
											0.13	0.11				
Third	R2	Bedroom	W4-L	0.68	0.92	1.01	30.52	27.24	60.80	0.30	0.13	0.11	1.00	0.62	Above	
			W4-U	0.68	0.92	1.72	26.27	19.44	60.80	1.00	0.62	0.46				
			W5-L	0.68	0.92	1.00	85.32	47.98	60.80	0.30	0.35	0.20				
			W5-U	0.68	0.92	1.71	82.46	47.13	60.80	1.00	1.93	1.10				
											3.03	1.87				
Third	R3	LKD	W6-L	0.68	0.92	1.51	86.03	47.35	96.44	0.30	0.34	0.19	2.00	0.55	Below	
			W6-U	0.68	0.92	2.58	82.89	46.00	96.44	1.00	1.85	1.03				
											2.19	1.21				
Third	R4	LKD	W7-L	0.68	0.92	1.50	52.94	45.68	97.55	0.30	0.20	0.18	2.00	0.86	Above	
			W7-U	0.68	0.92	2.56	54.60	47.24	97.55	1.00	1.19	1.03				
											1.40	1.21				
Fourth	R1	LKD	W2-L	0.68	0.92	1.72	65.61	64.16	113.21	0.30	0.25	0.24	2.00	0.90	Above	
			W2-U	0.68	0.92	2.59	82.28	78.05	113.21	1.00	1.57	1.49				
			W1-L	0.68	0.92	1.01	78.33	78.33	113.21	0.30	0.18	0.18				
			W1-U	0.68	0.92	1.73	76.97	76.97	113.21	1.00	0.98	0.98				
			W3-L	0.68	0.92	1.01	86.22	60.76	113.21	0.30	0.19	0.14				
			W3-U	0.68	0.92	1.73	82.95	60.64	113.21	1.00	1.06	0.77				
											4.23	3.80				
											0.24	0.24				
Fourth	R2	Bedroom	W4-L	0.68	0.92	1.01	59.09	58.50	60.80	0.30	0.24	0.24	1.00	0.76	Above	
			W4-U	0.68	0.92	1.72	72.47	65.14	60.80	1.00	1.71	1.54				
			W5-L	0.68	0.92	1.00	86.49	53.48	60.80	0.30	0.36	0.22				
			W5-U	0.68	0.92	1.71	83.13	53.07	60.80	1.00	1.95	1.24				
											4.25	3.24				
Fourth	R3	LKD	W6-L	0.68	0.92	1.51	87.51	52.25	96.44	0.30	0.34	0.20	2.00	0.61	Below	
			W6-U	0.68	0.92	2.58	83.69	51.32	96.44	1.00	1.87	1.15				
											2.21	1.35				
Fourth	R4	LKD	W7-L	0.68	0.92	1.50	52.94	46.77	97.55	0.30	0.20	0.18	2.00	0.87	Above	
			W7-U	0.68	0.92	2.56	55.51	48.08	97.55	1.00	1.21	1.05				
											1.42	1.23				

Appendix 6[B]

ADF Results for Existing
Neighbouring Buildings
(Without Balconies)

Appendix 6B: ADF Results for Existing Neighbouring Buildings (Without Balconies)																
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria	
1 to 6 Deen Court																
First	R1	Kitchen-Resi	W1	0.68	0.92	0.70	65.92	44.28	32.43	1.00	1.18	0.80	2.00	0.67	Below (M)	
First	R2	Living Room	W2-L	0.68	0.92	0.60	57.43	35.55	69.05	0.30	0.13	0.08				
			W2-U	0.68	0.92	0.84	58.38	35.58	69.05	1.00	0.59	0.36				
			W3-L	0.68	0.92	0.05	62.67	41.65	69.05	0.30	0.01	0.01				
			W3-U	0.68	0.92	1.65	62.80	41.18	69.05	1.00	1.25	0.82				
First	R3	Living Room	W4-L	0.68	0.92	0.05	62.90	39.92	69.05	0.30	1.98	1.27	1.50	0.64	Below (M)	
			W4-U	0.68	0.92	1.65	63.21	39.44	69.05	1.00	0.01	0.01				
			W5-L	0.68	0.92	0.60	56.01	36.91	69.05	0.30	1.26	0.79				
			W5-U	0.68	0.92	0.84	57.00	37.01	69.05	1.00	0.12	0.08				
First	R4	Kitchen-Resi	W6	0.68	0.92	0.70	65.07	40.17	32.43	1.00	0.58	0.37	1.50	0.63	Below (M)	
			W6	0.68	0.92	0.70	65.07	40.17	32.43	1.00	1.97	1.25				
			W6	0.68	0.92	0.70	65.07	40.17	32.43	1.00	1.17	0.72				
			W6	0.68	0.92	0.70	65.07	40.17	32.43	1.00	1.17	0.72				
Second	R1	Kitchen-Resi	W1	0.68	0.92	0.70	71.97	47.99	32.43	1.00	1.29	0.86	2.00	0.67	Below (M)	
Second	R2	Living Room	W2-L	0.68	0.92	0.60	62.46	38.61	69.05	0.30	1.29	0.86				
			W2-U	0.68	0.92	0.84	63.33	38.86	69.05	1.00	1.29	0.86				
			W3-L	0.68	0.92	0.05	68.52	45.09	69.05	0.30	0.14	0.08				
			W3-U	0.68	0.92	1.65	68.57	44.75	69.05	1.00	0.64	0.39				
Second	R3	Living Room	W4-L	0.68	0.92	0.05	69.09	43.42	69.05	0.30	0.01	0.01	1.50	0.64	Below (M)	
			W4-U	0.68	0.92	1.65	69.17	43.09	69.05	1.00	1.37	0.89				
			W5-L	0.68	0.92	0.60	61.12	39.96	69.05	0.30	2.16	1.38				
			W5-U	0.68	0.92	0.84	62.06	40.24	69.05	1.00	0.13	0.09				
Second	R4	Kitchen-Resi	W6	0.68	0.92	0.70	72.34	44.14	32.43	1.00	0.63	0.41	1.50	0.63	Below (M)	
			W6	0.68	0.92	0.70	72.34	44.14	32.43	1.00	2.16	1.36				
			W6	0.68	0.92	0.70	72.34	44.14	32.43	1.00	1.30	0.79				
			W6	0.68	0.92	0.70	72.34	44.14	32.43	1.00	1.30	0.79				
Third	R1	Kitchen-Resi	W1	0.68	0.92	0.53	75.74	50.76	32.43	1.00	1.04	0.69	2.00	0.67	Below (M)	
Third	R2	Living Room	W2-L	0.68	0.92	0.60	67.36	42.30	69.04	0.30	1.04	0.69				
			W2-U	0.68	0.92	0.84	67.96	42.82	69.04	1.00	1.04	0.69				
			W3-L	0.68	0.92	0.05	74.50	49.31	69.04	0.30	0.15	0.09				
			W3-U	0.68	0.92	1.65	74.20	49.00	69.04	1.00	0.69	0.43				
Third	R3	Living Room	W4-L	0.68	0.92	0.05	75.18	47.73	69.05	0.30	2.33	1.51	1.50	0.65	Above	
			W4-U	0.68	0.92	1.65	74.83	47.44	69.05	1.00	0.01	0.01				
			W5-L	0.68	0.92	0.60	66.15	43.61	69.05	0.30	1.48	0.98				
			W5-U	0.68	0.92	0.84	66.79	44.13	69.05	1.00	0.67	0.45				
Third	R4	Kitchen-Resi	W6	0.68	0.92	0.53	76.49	46.96	32.43	1.00	2.33	1.50	1.50	0.64	Above	
			W6	0.68	0.92	0.53	76.49	46.96	32.43	1.00	1.05	0.64				
			W6	0.68	0.92	0.53	76.49	46.96	32.43	1.00	1.05	0.64				
			W6	0.68	0.92	0.53	76.49	46.96	32.43	1.00	1.05	0.64				
32 High Street																
Second	R1	Studio-Apt	W7	0.68	0.92	0.77	34.62	24.27	68.11	1.00	0.33	0.23	2.00	0.64	Above	
Second	R2	Living Room	W8	0.68	0.92	2.60	79.58	47.39	68.11	1.00	2.53	1.51				
			W9	0.68	0.92	0.77	50.84	43.82	68.11	1.00	0.48	0.41				
			W9	0.68	0.92	0.77	50.84	43.82	68.11	1.00	0.48	0.41				
Versatile House																
Ground	R1	LKD	W1-L	0.68	0.92	2.01	53.88	48.24	86.93	0.30	0.31	0.28	2.00	0.81	Above	
Ground	R2	Bedroom	W1-U	0.68	0.92	2.79	64.64	51.12	86.93	1.00	1.73	1.37				
			W2	0.68	0.92	0.40	37.42	36.37	57.01	1.00	2.04	1.65				
			W3	0.68	0.92	0.70	69.08	54.36	57.01	1.00	0.22	0.21				
Ground	R3	Bedroom	W4	0.68	0.92	0.70	69.25	54.71	57.06	1.00	0.71	0.56	1.00	0.83	Above	
			W5	0.68	0.92	0.48	44.09	43.93	57.06	1.00	0.93	0.77				
			W4	0.68	0.92	0.70	69.25	54.71	57.06	1.00	0.71	0.56				
			W5	0.68	0.92	0.48	44.09	43.93	57.06	1.00	0.31	0.31				
Ground	R4	LKD	W6-L	0.68	0.92	2.01	61.95	55.75	91.23	0.30	1.02	0.87	1.00	0.85	Above	
			W6-U	0.68	0.92	2.79	71.17	56.64	91.23	1.00	1.81	1.44				
			W6-L	0.68	0.92	2.01	61.95	55.75	91.23	0.30	2.16	1.75				
			W6-U	0.68	0.92	2.79	71.17	56.64	91.23	1.00	1.81	1.44				
First	R1	LKD	W1-L	0.68	0.92	2.01	76.60	59.44	86.93	0.30	0.44	0.34	2.00	0.81	Above	
First	R2	Bedroom	W1-U	0.68	0.92	2.79	75.42	58.76	86.93	1.00	2.02	1.57				
			W2	0.68	0.92	0.40	43.71	42.71	57.01	1.00	2.46	1.92				
			W3	0.68	0.92	0.70	74.98	58.27	57.01	1.00	0.26	0.25				
First	R3	Bedroom	W4	0.68	0.92	0.40	43.71	42.71	57.01	1.00	0.77	0.60	1.00	0.83	Above	
			W5	0.68	0.92	0.70	74.98	58.27	57.01	1.00	1.03	0.85				
			W4	0.68	0.92	0.70	74.70	58.38	57.06	1.00	0.77	0.60				
			W5	0.68	0.92	0.48	45.55	45.38	57.06	1.00	0.32	0.32				
First	R4	LKD	W6-L	0.68	0.92	2.01	77.14	61.10	91.23	0.30	1.09	0.92	1.00	0.84	Above	
			W6-U	0.68	0.92	2.79	75.73	60.21	91.23	1.00	1.09	0.92				
			W6-L	0.68	0.92	2.01	77.14	61.10	91.23	0.30	0.43	0.34				
			W6-U	0.68	0.92	2.79	75.73	60.21	91.23	1.00	1.93	1.53				
Second	R1	LKD	W1-L	0.68	0.92	2.01	79.41	62.92	86.93	0.30	2.36	1.87	2.00	0.79	Below (M)	
Second	R2	Bedroom	W1-U	0.68	0.92	2.79	77.87	62.22	86.93	1.00	0.46	0.36				
			W2	0.68	0.92	0.40	47.14	46.32	57.01	1.00	2.08	1.66				
			W3	0.68	0.92	0.70	76.99	61.35	57.01	1.00	2.54	2.03				
Second	R3	Bedroom	W4	0.68	0.92	0.40	47.14	46.32	57.01	1.00	0.28	0.27	1.00	0.85	Above	
			W5	0.68	0.92	0.70	76.99	61.35	57.01	1.00	0.79	0.63				
			W4	0.68	0.92	0.70	76.80	61.51	57.06	1.00	1.07	0.90				
			W5	0.68	0.92	0.48	46.68	46.53	57.06	1.00	0.33	0.33				
Second	R4	LKD	W6-L	0.68	0.92	2.01	79.79	64.32	91.23	0.30	1.12	0.96	1.00	0.86	Above	
			W6-U	0.68	0.92	2.79	78.02	63.39	91.23	1.00	1.99	1.62				
			W6-L	0.68	0.92	2.01	79.79	64.32	91.23	0.30	2.43	1.97				
			W6-U	0.68	0.92	2.79	78.02	63.39	91.23	1.00	2.43	1.97				

Appendix 6B: ADF Results for Existing Neighbouring Buildings (Without Balconies)																	
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria		
Third	R1	LKD	W1-L	0.68	0.92	2.01	82.14	66.92	86.93	0.30	0.48	0.39	2.00	0.82	Above		
			W1-U	0.68	0.92	2.79	80.23	66.03	86.93	1.00	2.15	1.77					
Third	R2	Bedroom	W2	0.68	0.92	0.40	51.57	50.92	57.01	1.00	0.30	0.30	1.00	0.87	Above		
			W3	0.68	0.92	0.70	78.53	64.53	57.01	1.00	0.81	0.66					
Third	R3	Bedroom	W4	0.68	0.92	0.70	78.39	64.70	57.06	1.00	0.81	0.67	1.00	0.88	Above		
			W5	0.68	0.92	0.48	47.96	47.82	57.06	1.00	0.34	0.33					
Third	R4	LKD	W6-L	0.68	0.92	2.01	81.76	67.65	91.23	0.30	0.45	0.37	1.00	0.83	Above		
			W6-U	0.68	0.92	2.79	79.80	66.67	91.23	1.00	2.03	1.70					
Fourth	R1	Bedroom	W1	0.68	0.92	0.70	79.67	67.92	57.06	1.00	0.82	0.70	2.00	0.86	Above		
			W2	0.68	0.92	0.48	52.30	52.18	57.06	1.00	0.37	0.37					
Fourth	R2	LKD	W3-L	0.68	0.92	2.01	84.09	71.51	91.23	0.30	0.46	0.39	1.00	0.90	Above		
			W3-U	0.68	0.92	2.79	81.97	70.55	91.23	1.00	2.09	1.80					
Drayton Wharf																	
First	R1	Bedroom	W1-L	0.68	0.92	0.95	67.91	65.47	54.29	0.30	0.30	0.29	1.00	0.97	Above		
			W1-U	0.68	0.92	1.87	68.10	65.75	54.29	1.00	1.96	1.89					
First	R2	LKD	W2-L	0.68	0.92	1.64	68.00	66.04	83.94	0.30	0.33	0.32	2.00	0.97	Above		
			W2-U	0.68	0.92	3.26	68.09	66.21	83.94	1.00	2.20	2.14					
First	R3	Bedroom	W3-L	0.68	0.92	1.64	68.28	66.78	70.15	0.30	0.40	0.39	1.00	0.98	Above		
			W3-U	0.68	0.92	3.26	68.37	66.91	70.15	1.00	2.65	2.59					
First	R4	LKD	W4-L	0.68	0.92	1.64	68.46	67.22	99.36	0.30	0.28	0.28	2.00	0.98	Above		
			W4-U	0.68	0.92	3.26	68.59	67.35	99.36	1.00	1.88	1.84					
First	R5	Bedroom	W5-L	0.68	0.92	1.73	69.30	68.31	80.96	0.30	0.37	0.36	1.00	0.99	Above		
			W5-U	0.68	0.92	3.30	69.46	68.45	80.96	1.00	2.36	2.33					
First	R6	LKD	W6-L	0.68	0.92	1.64	69.76	68.94	122.77	0.30	0.23	0.23	2.00	0.99	Above		
			W6-U	0.68	0.92	3.26	69.99	69.15	122.77	1.00	1.55	1.53					
First	R7	Bedroom	W7-L	0.68	0.92	1.64	70.97	70.31	67.78	0.30	0.43	0.43	1.00	0.99	Above		
			W7-U	0.68	0.92	3.26	71.29	70.63	67.78	1.00	2.86	2.83					
First	R8	Bedroom	W8-L	0.68	0.92	1.64	71.22	70.74	80.09	0.30	0.37	0.36	1.00	0.99	Above		
			W8-U	0.68	0.92	3.26	71.80	71.32	80.09	1.00	2.44	2.42					
Second	R1	Bedroom	W1-L	0.68	0.92	0.95	72.03	69.69	54.29	0.30	0.31	0.30	1.00	0.97	Above		
			W1-U	0.68	0.92	1.87	72.15	69.79	54.29	1.00	2.08	2.01					
Second	R2	LKD	W2-L	0.68	0.92	1.64	72.20	70.28	83.94	0.30	0.35	0.34	2.00	0.97	Above		
			W2-U	0.68	0.92	3.26	72.21	70.24	83.94	1.00	2.34	2.27					
Second	R3	Bedroom	W3-L	0.68	0.92	1.64	72.51	70.94	70.15	0.30	0.43	0.42	1.00	0.98	Above		
			W3-U	0.68	0.92	3.26	72.53	70.90	70.15	1.00	2.81	2.75					
Second	R4	LKD	W4-L	0.68	0.92	1.64	72.77	71.42	99.36	0.30	0.30	0.30	2.00	0.98	Above		
			W4-U	0.68	0.92	3.26	72.81	71.39	99.36	1.00	1.99	1.95					
Second	R5	Bedroom	W5-L	0.68	0.92	1.73	73.61	72.49	80.96	0.30	0.39	0.39	1.00	0.98	Above		
			W5-U	0.68	0.92	3.30	73.60	72.44	80.96	1.00	2.50	2.46					
Second	R6	LKD	W6-L	0.68	0.92	1.64	74.21	73.30	122.77	0.30	0.25	0.25	2.00	0.99	Above		
			W6-U	0.68	0.92	3.26	74.18	73.23	122.77	1.00	1.64	1.62					
Second	R7	Bedroom	W7-L	0.68	0.92	1.64	75.52	74.78	67.78	0.30	0.46	0.45	1.00	0.99	Above		
			W7-U	0.68	0.92	3.26	75.39	74.64	67.78	1.00	3.02	2.99					
Second	R8	Bedroom	W8-L	0.68	0.92	1.64	76.09	75.55	80.09	0.30	0.39	0.39	1.00	0.99	Above		
			W8-U	0.68	0.92	3.26	75.98	75.43	80.09	1.00	2.58	2.56					
Second	R9	LKD	W9-L	0.68	0.92	1.64	77.63	77.17	127.41	0.30	0.25	0.25	1.00	1.00	Above		
			W9-U	0.68	0.92	3.26	77.37	76.90	127.41	1.00	1.65	1.64					
			W10-L	0.68	0.92	0.62	76.12	76.12	127.41	0.30	0.09	0.09					
			W10-U	0.68	0.92	1.22	76.16	76.16	127.41	1.00	0.61	0.61					
			W11-L	0.68	0.92	0.61	77.03	77.03	127.41	0.30	0.09	0.09					
			W11-U	0.68	0.92	1.20	76.83	76.83	127.41	1.00	0.61	0.61					
			W12-L	0.68	0.92	0.61	74.93	74.93	127.41	0.30	0.09	0.09					
			W12-U	0.68	0.92	1.21	75.03	75.03	127.41	1.00	0.60	0.60					
			W13-L	0.68	0.92	0.61	70.40	70.40	127.41	0.30	0.08	0.08					
			W13-U	0.68	0.92	1.21	71.18	71.18	127.41	1.00	0.56	0.56					
			Second	R10	Bedroom	W14-L	0.68	0.92	1.14	64.69	64.69	58.88				0.30	0.31
W14-U	0.68	0.92				2.26	64.55	64.55	58.88	1.00	2.07	2.07					
Second	R11	Bedroom	W15-L	0.68	0.92	0.67	57.52	57.52	62.27	0.30	0.15	0.15	1.00	1.00	Above		
			W15-U	0.68	0.92	1.33	51.87	51.87	62.27	1.00	0.92	0.92					
Third	R1	Bedroom	W1-L	0.68	0.92	0.95	76.19	73.63	54.29	0.30	0.33	0.32	1.00	0.97	Above		
			W1-U	0.68	0.92	1.87	76.19	73.60	54.29	1.00	2.19	2.12					

Appendix 6B: ADF Results for Existing Neighbouring Buildings (Without Balconies)																
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria	
Third	R2	LKD	W2-L W2-U	0.68 0.68	0.92 0.92	1.64 3.26	76.42 76.30	74.24 74.05	83.94 83.94	0.30 1.00	0.37 2.47	0.36 2.40	2.00	0.97	Above	
											2.84 2.97	2.76 2.89				
Third	R3	Bedroom	W3-L W3-U	0.68 0.68	0.92 0.92	1.64 3.26	76.72 76.55	74.87 74.62	70.15 70.15	0.30 1.00	0.45 2.97	0.44 2.89	1.00	0.97	Above	
											3.42 3.33					
Third	R4	LKD	W4-L W4-U	0.68 0.68	0.92 0.92	1.64 3.26	77.05 76.87	75.42 75.13	99.36 99.36	0.30 1.00	0.32 2.10	0.31 2.05	2.00	0.98	Above	
											2.42 2.37					
Third	R5	Bedroom	W5-L W5-U	0.68 0.68	0.92 0.92	1.73 3.30	77.76 77.49	76.42 76.03	80.96 80.96	0.30 1.00	0.42 2.63	0.41 2.58	1.00	0.98	Above	
											3.05 2.99					
Third	R6	LKD	W6-L W6-U	0.68 0.68	0.92 0.92	1.64 3.26	78.36 78.01	77.24 76.76	122.77 122.77	0.30 1.00	0.26 1.73	0.26 1.70	2.00	0.98	Above	
											1.99 1.96					
Third	R7	Bedroom	W7-L W7-U	0.68 0.68	0.92 0.92	1.64 3.26	79.44 78.91	78.51 77.85	67.78 67.78	0.30 1.00	0.48 3.16	0.48 3.12	1.00	0.99	Above	
											3.64 3.59					
Third	R8	Bedroom	W8-L W8-U	0.68 0.68	0.92 0.92	1.64 3.26	80.02 79.41	79.30 78.52	80.09 80.09	0.30 1.00	0.41 2.69	0.41 2.66	1.00	0.99	Above	
											3.11 3.07					
Third	R9	LKD	W9-L W9-U W10-L W10-U W11-L W11-U W12-L W12-U W13-L W13-U	0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92	1.64 3.26 0.62 1.22 0.61 1.20 0.61 1.21 0.61 1.21	81.17 80.30 79.89 79.57 81.66 81.14 80.10 79.92 75.67 76.27	80.54 127.41 79.88 79.52 81.63 81.08 80.10 79.91 75.67 76.27	127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41	0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00	0.26 1.71 0.10 0.64 0.10 0.64 0.10 0.63 0.09 0.60	0.26 1.69 0.10 0.63 0.10 0.64 0.10 0.63 0.09 0.60	2.00	1.00	Above	
											4.87 2.31	4.85 2.19				
Third	R10	Bedroom	W14-L W14-U	0.68 0.68	0.92 0.92	1.14 2.26	67.64 68.54	67.64 68.54	58.88 58.88	0.30 1.00	0.33 2.19	0.33 2.19	1.00	1.00	Above	
											2.52 2.52					
Third	R11	Bedroom	W15-L W15-U	0.68 0.68	0.92 0.92	0.67 1.33	45.83 46.40	45.83 46.40	63.46 63.46	0.30 1.00	0.12 0.81	0.12 0.81	1.00	1.00	Above	
											0.93 0.93					
Fourth	R1	Bedroom	W1-L W1-U	0.68 0.68	0.92 0.92	0.95 1.87	80.28 80.06	77.39 77.13	54.29 54.29	0.30 1.00	0.35 2.31	0.34 2.22	1.00	0.96	Above	
											2.65 2.56					
Fourth	R2	LKD	W2-L W2-U	0.68 0.68	0.92 0.92	1.64 3.26	80.59 80.19	78.01 77.54	83.94 83.94	0.30 1.00	0.39 2.59	0.38 2.51	2.00	0.97	Above	
											2.99 2.89					
Fourth	R3	Bedroom	W3-L W3-U	0.68 0.68	0.92 0.92	1.64 3.26	80.78 80.32	78.52 77.98	70.15 70.15	0.30 1.00	0.47 3.11	0.46 3.02	1.00	0.97	Above	
											3.59 3.48					
Fourth	R4	LKD	W4-L W4-U	0.68 0.68	0.92 0.92	1.64 3.26	81.02 80.49	78.98 78.36	99.36 99.36	0.30 1.00	0.34 2.20	0.33 2.14	2.00	0.97	Above	
											2.54 2.47					
Fourth	R5	Bedroom	W5-L W5-U	0.68 0.68	0.92 0.92	1.73 3.30	81.46 80.78	79.69 78.91	80.96 80.96	0.30 1.00	0.44 2.74	0.43 2.68	1.00	0.98	Above	
											3.18 3.11					
Fourth	R6	LKD	W6-L W6-U	0.68 0.68	0.92 0.92	1.64 3.26	81.86 81.06	80.29 79.38	122.77 122.77	0.30 1.00	0.27 1.79	0.27 1.76	2.00	0.98	Above	
											2.07 2.02					
Fourth	R7	Bedroom	W7-L W7-U	0.68 0.68	0.92 0.92	1.64 3.26	82.49 81.46	81.12 79.98	67.78 67.78	0.30 1.00	0.50 3.26	0.49 3.20	1.00	0.98	Above	
											3.76 3.70					
Fourth	R8	Bedroom	W8-L W8-U	0.68 0.68	0.92 0.92	1.64 3.26	82.87 81.72	81.68 80.41	80.09 80.09	0.30 1.00	0.43 2.77	0.42 2.73	1.00	0.98	Above	
											3.20 3.15					
Fourth	R9	LKD	W9-L W9-U W10-L W10-U W11-L W11-U W12-L W12-U W13-L W13-U	0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92	1.64 3.26 0.62 1.22 0.61 1.20 0.61 1.21 0.61 1.21	83.50 82.12 82.87 82.09 85.68 84.56 84.78 84.01 80.59 80.67	82.43 80.93 82.75 81.93 85.55 84.40 84.76 83.97 80.59 80.67	127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41 127.41	0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00 0.30 1.00	0.27 1.75 0.10 0.66 0.10 0.67 0.10 0.67 0.10 0.64	0.27 1.72 0.10 0.65 0.10 0.67 0.10 0.67 0.10 0.64	2.00	0.99	Above	
											5.05 5.02					
Fourth	R10	Bedroom	W14-L W14-U	0.68 0.68	0.92 0.92	1.14 2.26	73.95 75.98	73.95 75.98	58.88 58.88	0.30 1.00	0.36 2.43	0.36 2.43	1.00	1.00	Above	
											2.79 2.79					
Fourth	R11	Bedroom	W15-L W15-U	0.68 0.68	0.92 0.92	0.67 1.33	49.24 51.50	49.24 51.50	63.46 63.46	0.30 1.00	0.13 0.90	0.13 0.90	1.00	1.00	Above	
											1.03 1.03					
Art Wood Apartments																
First	R1	LKD	W1-L W1-U W2-L W2-U W3-L W3-U	0.68 0.68 0.68 0.68 0.68 0.68	0.92 0.92 0.92 0.92 0.92 0.92	1.01 1.73 1.72 2.59 1.01 1.73	63.45 62.76 75.06 73.26 75.58 75.14	63.45 62.76 68.95 67.32 44.24 42.98	113.21 113.21 113.21 113.21 113.21 113.21	0.30 1.00 0.30 1.00 0.30 1.00	0.14 0.80 0.29 1.40 0.17 0.96	0.14 0.80 0.26 1.29 0.10 0.55	2.00	0.84	Above	
											3.75 3.14					

Appendix 6B: ADF Results for Existing Neighbouring Buildings (Without Balconies)															
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Below Working Plane Factor	ADF Existing	ADF Proposed	Req'd Value	Pr/Ex	Meets BRE Criteria
First	R2	Bedroom	W4-L	0.68	0.92	1.01	36.94	30.69	60.80	0.30	0.15	0.13			
			W4-U	0.68	0.92	1.72	34.42	30.74	60.80	1.00	0.81	0.72			
			W5-L	0.68	0.92	1.00	72.11	39.94	60.80	0.30	0.30	0.16			
			W5-U	0.68	0.92	1.71	72.28	38.30	60.80	1.00	1.69	0.90			
											2.95	1.91	1.00	0.65	Above
First	R3	LKD	W6-L	0.68	0.92	1.51	71.20	40.05	96.44	0.30	0.28	0.16			
			W6-U	0.68	0.92	2.58	71.12	37.99	96.44	1.00	1.59	0.85			
											1.87	1.01	2.00	0.54	Below
First	R4	LKD	W7-L	0.68	0.92	1.50	76.40	66.41	97.55	0.30	0.29	0.25			
			W7-U	0.68	0.92	2.56	74.87	65.02	97.55	1.00	1.64	1.42			
											1.93	1.68	2.00	0.87	Above
Second	R1	LKD	W1-L	0.68	0.92	1.01	68.13	68.13	113.21	0.30	0.15	0.15			
			W1-U	0.68	0.92	1.73	67.25	67.25	113.21	1.00	0.86	0.86			
			W2-L	0.68	0.92	1.72	79.39	72.95	113.21	0.30	0.30	0.28			
			W2-U	0.68	0.92	2.59	77.10	71.19	113.21	1.00	1.47	1.36			
			W3-L	0.68	0.92	1.01	82.53	48.65	113.21	0.30	0.18	0.11			
			W3-U	0.68	0.92	1.73	80.28	47.80	113.21	1.00	1.02	0.61			
											3.99	3.37	2.00	0.84	Above
Second	R2	Bedroom	W5-L	0.68	0.92	1.00	80.61	43.54	60.80	0.30	0.33	0.18			
			W5-U	0.68	0.92	1.71	79.28	42.27	60.80	1.00	1.86	0.99			
			W4-L	0.68	0.92	1.01	39.51	34.99	60.80	0.30	0.16	0.14			
			W4-U	0.68	0.92	1.72	38.62	33.85	60.80	1.00	0.91	0.80			
											3.26	2.11	1.00	0.65	Above
Second	R3	LKD	W6-L	0.68	0.92	1.51	80.20	43.40	96.44	0.30	0.31	0.17			
			W6-U	0.68	0.92	2.58	78.87	41.67	96.44	1.00	1.76	0.93			
											2.08	1.10	2.00	0.53	Below
Second	R4	LKD	W7-L	0.68	0.92	1.50	81.51	69.45	97.55	0.30	0.31	0.27			
			W7-U	0.68	0.92	2.56	79.31	67.49	97.55	1.00	1.74	1.48			
											2.05	1.74	2.00	0.85	Above
Third	R1	LKD	W1-L	0.68	0.92	1.01	73.14	73.14	113.21	0.30	0.16	0.16			
			W1-U	0.68	0.92	1.73	72.06	72.06	113.21	1.00	0.92	0.92			
			W2-L	0.68	0.92	1.72	82.90	77.04	113.21	0.30	0.32	0.29			
			W2-U	0.68	0.92	2.59	80.17	74.96	113.21	1.00	1.53	1.43			
			W3-L	0.68	0.92	1.01	85.05	54.11	113.21	0.30	0.19	0.12			
			W3-U	0.68	0.92	1.73	82.12	53.69	113.21	1.00	1.04	0.68			
											4.17	3.61	2.00	0.87	Above
Third	R2	Bedroom	W4-L	0.68	0.92	1.01	45.56	43.04	60.80	0.30	0.19	0.18			
			W4-U	0.68	0.92	1.72	48.32	43.99	60.80	1.00	1.14	1.04			
			W5-L	0.68	0.92	1.00	85.32	47.98	60.80	0.30	0.35	0.20			
			W5-U	0.68	0.92	1.71	82.46	47.13	60.80	1.00	1.93	1.10			
											3.61	2.52	1.00	0.70	Above
Third	R3	LKD	W6-L	0.68	0.92	1.51	86.03	47.35	96.44	0.30	0.34	0.19			
			W6-U	0.68	0.92	2.58	82.89	46.00	96.44	1.00	1.85	1.03			
											2.19	1.21	2.00	0.55	Below
Third	R4	LKD	W7-L	0.68	0.92	1.50	85.66	71.99	97.55	0.30	0.33	0.28			
			W7-U	0.68	0.92	2.56	82.50	69.87	97.55	1.00	1.80	1.53			
											2.13	1.80	2.00	0.85	Above
Fourth	R1	LKD	W1-L	0.68	0.92	1.01	78.50	78.50	113.21	0.30	0.18	0.18			
			W1-U	0.68	0.92	1.73	77.01	77.01	113.21	1.00	0.98	0.98			
			W2-L	0.68	0.92	1.72	85.65	80.72	113.21	0.30	0.33	0.31			
			W2-U	0.68	0.92	2.59	82.31	78.07	113.21	1.00	1.57	1.49			
			W3-L	0.68	0.92	1.01	86.22	60.76	113.21	0.30	0.19	0.14			
			W3-U	0.68	0.92	1.73	82.95	60.64	113.21	1.00	1.06	0.77			
											4.31	3.87	2.00	0.90	Above
Fourth	R2	Bedroom	W4-L	0.68	0.92	1.01	72.46	64.19	60.80	0.30	0.30	0.27			
			W4-U	0.68	0.92	1.72	72.47	65.14	60.80	1.00	1.71	1.54			
			W5-L	0.68	0.92	1.00	86.49	53.48	60.80	0.30	0.36	0.22			
			W5-U	0.68	0.92	1.71	83.13	53.07	60.80	1.00	1.95	1.24			
											4.31	3.26	1.00	0.76	Above
Fourth	R3	LKD	W6-L	0.68	0.92	1.51	87.51	52.25	96.44	0.30	0.34	0.20			
			W6-U	0.68	0.92	2.58	83.69	51.32	96.44	1.00	1.87	1.15			
											2.21	1.35	2.00	0.61	Below
Fourth	R4	LKD	W7-L	0.68	0.92	1.50	87.47	74.61	97.55	0.30	0.34	0.29			
			W7-U	0.68	0.92	2.56	83.74	72.26	97.55	1.00	1.83	1.58			
											2.17	1.87	2.00	0.86	Above

Appendix 7

VSC and Sunlight Results for Proposed Units

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
Morrisons High Street										
Ground	1.1	LKD	1.1.1	16.09	Below	208°	27	Above	5	Above
			1.1.2	19.04	Below	213°	32	Above	6	Above
	2.1	Living Room	2.1.1	22.11	Below (M)	226°	36	Above	7	Above
	2.2	Kitchen-Resi	2.2.1	24.75	Below (M)	226°	43	Above	13	Above
	3.1	Living Room	3.1.1	23.09	Below (M)	226°	40	Above	10	Above
Mezzanine	3.2	Kitchen-Resi	3.2.1	26.47	Below (M)	226°	47	Above	16	Above
	1.1	Bedroom	1.1.1	27.30	Above	206°	44	Above	7	Above
	1.2	Bedroom	1.2.1	29.29	Above	213°	51	Above	14	Above
	1.3	Bedroom	1.3.1	32.18	Above	225°	48	Above	14	Above
	1.4	Bedroom	1.4.1	32.86	Above	226°	48	Above	15	Above
	2.1	Bedroom	2.1.1	33.22	Above	226°	48	Above	15	Above
	2.2	Bedroom	2.2.1	33.14	Above	226°	49	Above	15	Above
	2.3	Bedroom	2.3.1	32.28	Above	226°	48	Above	15	Above
	2.4	Bedroom	2.4.1	26.17	Below (M)	226°	37	Above	16	Above
	3.1	Bedroom	3.1.1	24.38	Below (M)	226°	34	Above	15	Above
	3.2	Bedroom	3.2.1	22.22	Below (M)	226°	29	Above	14	Above
	3.3	Bedroom	3.3.1	22.38	Below (M)	226°	33	Above	16	Above
	3.4	Bedroom	3.4.1	22.53	Below (M)	226°	30	Above	15	Above
			3.4.2	3.65	Below	226°	0	Below	0	Below
First	1.1	LKD	1.1.1	36.74	Above	358°N		North Facing		
			1.1.2	7.81	Below	100°	7	Below	2	Below
			1.1.3	6.75	Below	10°N		North Facing		
	1.3	Bedroom	1.3.1	36.99	Above	358°N		North Facing		
	1.4	Bedroom	1.4.1	38.84	Above	100°	0	Below	0	Below
	2.1	LKD	2.1.1	11.72	Below	100°	10	Below	3	Below
	2.2	Bedroom	2.2.1	33.23	Above	100°	11	Below	4	Below (M)
	2.3	Bedroom	2.3.1	33.15	Above	100°	11	Below	4	Below (M)
	3.1	LKD	3.1.1	8.10	Below	100°	8	Below	2	Below
	3.2	Bedroom	3.2.1	38.04	Above	100°	13	Below	5	Above
	3.3	Bedroom	3.3.1	37.79	Above	100°	13	Below	5	Above
	4.1	LKD	4.1.1	10.87	Below	100°	12	Below	4	Below (M)
	4.2	Bedroom	4.2.1	32.35	Above	100°	10	Below	3	Below
	4.3	Bedroom	4.3.1	32.08	Above	100°	10	Below	3	Below
	5.1	LKD	5.1.1	6.52	Below	100°	7	Below	2	Below
	5.2	Bedroom	5.2.1	31.41	Above	100°	10	Below	3	Below
	5.3	Bedroom	5.3.1	36.60	Above	100°	12	Below	4	Below (M)
	6.1	LKD	6.1.1	8.12	Below	10°N		North Facing		
			6.1.2	31.77	Above	100°	10	Below	4	Below (M)
	6.2	Bedroom	6.2.1	9.28	Below	100°	10	Below	3	Below
	7.1	LKD	7.1.1	12.48	Below	100°	15	Below	8	Above
			7.1.2	32.49	Above	174°	18	Below	18	Above
	7.2	Bedroom	7.2.1	32.15	Above	100°	10	Below	4	Below (M)
	7.3	Bedroom	7.3.1	28.72	Above	174°	6	Below	6	Above
	8.1	LKD	8.1.1	26.98	Below (M)	174°	5	Below	5	Above
			8.1.2	5.04	Below	264°	8	Below	4	Below (M)
	8.2	Bedroom	8.2.1	0.00	Below	174°	0	Below	0	Below
	8.3	Bedroom	8.3.1	0.12	Below	174°	0	Below	0	Below
	9.1	LKD	9.1.1	26.38	Below (M)	178°	44	Above	11	Above
			9.1.2	5.66	Below	264°	10	Below	6	Above
	9.2	Bedroom	9.2.1	2.63	Below	174°	1	Below	1	Below
	10.1	LKD	10.1.1	29.08	Above	197°	46	Above	13	Above
			10.1.2	30.89	Above	205°	45	Above	15	Above
			10.1.3	33.09	Above	213°	46	Above	17	Above
			10.1.4	5.50	Below	316°N		North Facing		
	10.2	Bedroom	10.2.1	6.63	Below	226°	6	Below	5	Above
	11.1	LKD	11.1.1	35.31	Above	226°	46	Above	14	Above
			11.1.2	35.20	Above	226°	47	Above	15	Above
			11.1.3	5.98	Below	316°N		North Facing		
	11.2	Bedroom	11.2.1	5.86	Below	226°	6	Below	6	Above
	11.3	Bedroom	11.3.1	20.40	Below	46°N		North Facing		
	11.4	Bedroom	11.4.1	21.17	Below	46°N		North Facing		
	12.1	LKD	12.1.1	11.69	Below	226°	11	Below	10	Above
			12.1.2	6.35	Below	136°	11	Below	10	Above
			12.1.3	37.25	Above	226°	30	Above	16	Above
	12.2	Bedroom	12.2.1	16.38	Below	46°N		North Facing		
	12.3	Bedroom	12.3.1	18.61	Below	46°N		North Facing		
	13.1	LKD	13.1.1	7.38	Below	136°	12	Below	10	Above
			13.1.2	37.61	Above	226°	18	Below	12	Above
	13.2	Bedroom	13.2.1	8.31	Below	226°	7	Below	6	Above
	14.1	LKD	14.1.1	6.88	Below	136°	12	Below	11	Above
			14.1.2	37.63	Above	226°	54	Above	21	Above
			14.1.3	37.72	Above	226°	55	Above	23	Above
	14.2	Bedroom	14.2.1	11.73	Below	226°	11	Below	8	Above
	14.3	Bedroom	14.3.1	8.88	Below	226°	11	Below	9	Above
	15.1	LKD	15.1.1	38.07	Above	226°	19	Below	12	Above
			15.1.2	9.41	Below	316°N		North Facing		
	15.2	Bedroom	15.2.1	11.84	Below	226°	10	Below	9	Above
	15.3	Bedroom	15.3.1	3.94	Below	46°N		North Facing		
	16.1	LKD	16.1.1	36.81	Above	226°	0	Below	0	Below
			16.1.2	10.66	Below	316°N		North Facing		
			16.1.3	13.02	Below	226°	15	Below	8	Above
	16.2	Bedroom	16.1.4	39.29	Above	316°N		North Facing		
			16.2.1	39.34	Above	316°N		North Facing		
			16.2.2	31.74	Above	46°N		North Facing		
	17.1	LKD	17.1.1	24.54	Below (M)	316°N		North Facing		
			17.1.2	8.09	Below	46°N		North Facing		
	17.2	Bedroom	17.2.1	9.98	Below	316°N		North Facing		
	18.1	LKD	18.1.1	11.12	Below	316°N		North Facing		
	18.2	Bedroom	18.2.1	35.23	Above	316°N		North Facing		

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
	18.3	Bedroom	18.3.1	35.99	Above	316°N		North Facing		
	19.1	LKD	19.1.1	6.44	Below	226°	8	Below	0	Below
			19.1.2	37.31	Above	316°N		North Facing		
			19.1.3	30.36	Above	46°N		North Facing		
	19.2	Bedroom	19.2.1	9.85	Below	316°N		North Facing		
	20.1	LKD	20.1.1	30.66	Above	46°N		North Facing		
			20.1.2	4.97	Below	46°N		North Facing		
	20.2	Bedroom	20.2.1	19.78	Below	136°	2	Below	2	Below
	20.3	Bedroom	20.3.1	20.36	Below	136°	2	Below	2	Below
	21.1	LKD	21.1.1	20.55	Below	136°	1	Below	1	Below
			21.1.2	20.26	Below	136°	1	Below	1	Below
			21.1.3	1.64	Below	226°	3	Below	2	Below
	21.2	Bedroom	21.2.1	0.89	Below	136°	0	Below	0	Below
	21.3	Bedroom	21.3.1	0.86	Below	136°	0	Below	0	Below
	22.1	LKD	22.1.1	2.37	Below	46°N		North Facing		
			22.1.2	14.57	Below	136°	0	Below	0	Below
	22.2	Bedroom	22.2.1	0.77	Below	136°	0	Below	0	Below
	23.1	LKD	23.1.1	0.17	Below	280°N		North Facing		
	23.2	Bedroom	23.2.1	20.88	Below	354°N		North Facing		
	23.3	Bedroom	23.3.1	19.01	Below	354°N		North Facing		
	23.4	Bedroom	23.4.1	10.67	Below	280°N		North Facing		
	24.1	LKD	24.1.1	1.27	Below	280°N		North Facing		
	24.2	Bedroom	24.2.1	22.45	Below (M)	280°N		North Facing		
	24.3	Bedroom	24.3.1	23.70	Below (M)	280°N		North Facing		
	25.1	LKD	25.1.1	1.74	Below	190°	4	Below	2	Below
			25.1.2	27.00	Above	280°N		North Facing		
	25.2	Bedroom	25.2.1	0.99	Below	280°N		North Facing		
	26.1	Living Room	26.1.1	5.09	Below	280°N		North Facing		
	26.2	Kitchen-Resi	26.2.1	3.24	Below	280°N		North Facing		
	26.3	Bedroom	26.3.1	28.14	Above	280°N		North Facing		
	26.4	Bedroom	26.4.1	28.90	Above	280°N		North Facing		
	26.5	Bedroom	26.5.1	29.59	Above	280°N		North Facing		
	27.1	LKD	27.1.1	31.54	Above	280°N		North Facing		
			27.1.2	8.33	Below	10°N		North Facing		
	27.2	Bedroom	27.2.1	4.09	Below	280°N		North Facing		
			27.2.2	37.35	Above	358°N		North Facing		
	27.3	Bedroom	1.2.1	37.31	Above	358°N		North Facing		
Second	1.1	LKD	1.1.1	38.90	Above	358°N		North Facing		
			1.1.2	8.29	Below	100°	7	Below	2	Below
			1.1.3	7.68	Below	10°N		North Facing		
	1.3	Bedroom	1.3.1	38.93	Above	358°N		North Facing		
	1.4	Bedroom	1.4.1	39.32	Above	100°	0	Below	0	Below
	2.1	LKD	2.1.1	12.16	Below	100°	10	Below	3	Below
	2.2	Bedroom	2.2.1	39.04	Above	100°	14	Below	6	Above
	2.3	Bedroom	2.3.1	33.95	Above	100°	11	Below	4	Below (M)
	3.1	LKD	3.1.1	8.94	Below	100°	9	Below	3	Below
	3.2	Bedroom	3.2.1	39.12	Above	100°	14	Below	6	Above
	3.3	Bedroom	3.3.1	38.98	Above	100°	14	Below	6	Above
	4.1	LKD	4.1.1	12.57	Below	100°	13	Below	5	Above
	4.2	Bedroom	4.2.1	33.77	Above	100°	11	Below	4	Below (M)
	4.3	Bedroom	4.3.1	33.73	Above	100°	11	Below	4	Below (M)
	5.1	LKD	5.1.1	8.36	Below	100°	8	Below	3	Below
	5.2	Bedroom	5.2.1	33.62	Above	100°	11	Below	4	Below (M)
	5.3	Bedroom	5.3.1	33.63	Above	100°	11	Below	4	Below (M)
	6.1	LKD	6.1.1	8.71	Below	10°N		North Facing		
			6.1.2	38.95	Above	100°	14	Below	6	Above
	6.2	Bedroom	6.2.1	11.14	Below	100°	10	Below	3	Below
	7.1	LKD	7.1.1	13.41	Below	100°	15	Below	8	Above
			7.1.2	35.55	Above	174°	24	Below (M)	24	Above
	7.2	Bedroom	7.2.1	33.72	Above	100°	11	Below	4	Below (M)
	7.3	Bedroom	7.3.1	34.36	Above	174°	17	Below	17	Above
	8.1	LKD	8.1.1	27.10	Above	174°	8	Below	8	Above
			8.1.2	6.66	Below	264°	10	Below	6	Above
	8.2	Bedroom	8.2.1	0.15	Below	174°	0	Below	0	Below
	8.3	Bedroom	8.3.1	0.27	Below	174°	0	Below	0	Below
	9.1	LKD	9.1.1	31.58	Above	178°	54	Above	21	Above
			9.1.2	7.13	Below	264°	13	Below	9	Above
	9.2	Bedroom	9.2.1	6.11	Below	174°	8	Below	8	Above
	10.1	LKD	10.1.1	33.50	Above	197°	55	Above	22	Above
			10.1.2	34.55	Above	205°	50	Above	20	Above
			10.1.3	35.87	Above	213°	49	Above	20	Above
			10.1.4	5.68	Below	316°N		North Facing		
	10.2	Bedroom	10.2.1	7.65	Below	226°	8	Below	7	Above
	11.1	LKD	11.1.1	37.09	Above	226°	48	Above	16	Above
			11.1.2	36.82	Above	226°	48	Above	16	Above
			11.1.3	6.08	Below	316°N		North Facing		
	11.2	Bedroom	11.2.1	6.81	Below	226°	7	Below	7	Above
	11.3	Bedroom	11.3.1	23.44	Below (M)	46°N		North Facing		
	11.4	Bedroom	11.4.1	24.34	Below (M)	46°N		North Facing		
	12.1	LKD	12.1.1	12.81	Below	226°	12	Below	11	Above
			12.1.2	7.26	Below	136°	11	Below	10	Above
			12.1.3	38.23	Above	226°	31	Above	17	Above
	12.2	Bedroom	12.2.1	18.32	Below	46°N		North Facing		
	12.3	Bedroom	12.3.1	21.40	Below	46°N		North Facing		
	13.1	LKD	13.1.1	4.82	Below	136°	6	Below	6	Above
			13.1.2	38.40	Above	226°	18	Below	12	Above
	13.2	Bedroom	13.2.1	5.97	Below	226°	5	Below	5	Above
	14.1	LKD	14.1.1	7.40	Below	136°	12	Below	11	Above
			14.1.2	33.10	Above	226°	12	Below	9	Above
			14.1.3	33.14	Above	226°	12	Below	9	Above
	14.2	Bedroom	14.2.1	12.24	Below	226°	11	Below	8	Above
	14.3	Bedroom	14.3.1	9.55	Below	226°	9	Below	9	Above

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
	15.1	LKD	15.1.1	38.65	Above	226°	31	Above	17	Above
			15.1.2	9.43	Below	316°N		North Facing		
	15.2	Bedroom	15.2.1	12.34	Below	226°	10	Below	9	Above
	15.3	Bedroom	15.3.1	4.38	Below	46°N		North Facing		
	16.1	LKD	16.1.1	37.25	Above	226°	0	Below	0	Below
			16.1.2	10.67	Below	316°N		North Facing		
			16.1.3	13.25	Below	226°	15	Below	8	Above
			16.1.4	39.39	Above	316°N		North Facing		
	16.2	Bedroom	16.2.1	39.49	Above	316°N		North Facing		
			16.2.2	33.28	Above	46°N		North Facing		
	17.1	LKD	17.1.1	25.32	Below (M)	316°N		North Facing		
			17.1.2	8.42	Below	46°N		North Facing		
	17.2	Bedroom	17.2.1	10.08	Below	316°N		North Facing		
	18.1	LKD	18.1.1	11.43	Below	316°N		North Facing		
	18.2	Bedroom	18.2.1	36.45	Above	316°N		North Facing		
	18.3	Bedroom	18.3.1	37.29	Above	316°N		North Facing		
	19.1	LKD	19.1.1	6.92	Below	226°	9	Below	0	Below
			19.1.2	38.44	Above	316°N		North Facing		
			19.1.3	32.47	Above	46°N		North Facing		
	19.2	Bedroom	19.2.1	10.64	Below	316°N		North Facing		
	20.1	LKD	20.1.1	32.94	Above	46°N		North Facing		
			20.1.2	5.63	Below	46°N		North Facing		
	20.2	Bedroom	20.2.1	23.35	Below (M)	136°	4	Below	4	Below (M)
	20.3	Bedroom	20.3.1	23.98	Below (M)	136°	3	Below	3	Below
	21.1	LKD	21.1.1	24.28	Below (M)	136°	4	Below	4	Below (M)
			21.1.2	24.03	Below (M)	136°	3	Below	3	Below
			21.1.3	2.51	Below	226°	3	Below	2	Below
	21.2	Bedroom	21.2.1	2.30	Below	136°	1	Below	1	Below
	21.3	Bedroom	21.3.1	2.46	Below	136°	1	Below	1	Below
	22.1	LKD	22.1.1	3.36	Below	46°N		North Facing		
			22.1.2	17.16	Below	136°	2	Below	2	Below
	22.2	Bedroom	22.2.1	2.21	Below	136°	0	Below	0	Below
	23.1	LKD	23.1.1	1.44	Below	280°N		North Facing		
	23.2	Bedroom	23.2.1	23.18	Below (M)	354°N		North Facing		
	23.3	Bedroom	23.3.1	20.47	Below	354°N		North Facing		
	23.4	Bedroom	23.4.1	11.98	Below	280°N		North Facing		
	24.1	LKD	24.1.1	3.09	Below	280°N		North Facing		
	24.2	Bedroom	24.2.1	25.96	Below (M)	280°N		North Facing		
	24.3	Bedroom	24.3.1	27.21	Above	280°N		North Facing		
	25.1	LKD	25.1.1	2.71	Below	190°	5	Below	3	Below
			25.1.2	29.98	Above	280°N		North Facing		
	25.2	Bedroom	25.2.1	2.62	Below	280°N		North Facing		
	26.1	Living Room	26.1.1	6.02	Below	280°N		North Facing		
	26.2	Kitchen-Resi	26.2.1	4.31	Below	280°N		North Facing		
	26.3	Bedroom	26.3.1	30.85	Above	280°N		North Facing		
	26.4	Bedroom	26.4.1	31.40	Above	280°N		North Facing		
	26.5	Bedroom	26.5.1	31.87	Above	280°N		North Facing		
	27.1	LKD	27.1.1	32.73	Above	280°N		North Facing		
			27.1.2	8.67	Below	10°N		North Facing		
	27.2	Bedroom	27.2.1	4.37	Below	280°N		North Facing		
			27.2.2	38.73	Above	358°N		North Facing		
	27.3	Bedroom	1.2.1	38.94	Above	358°N		North Facing		
Third	1.1	LKD	1.1.1	39.19	Above	358°N		North Facing		
			1.1.2	4.78	Below	100°	2	Below	1	Below
			1.1.3	4.56	Below	10°N		North Facing		
	1.3	Bedroom	1.3.1	39.19	Above	358°N		North Facing		
	1.4	Bedroom	1.4.1	39.28	Above	100°	0	Below	0	Below
	2.1	LKD	2.1.1	12.20	Below	100°	10	Below	3	Below
	2.2	Bedroom	2.2.1	34.07	Above	100°	11	Below	4	Below (M)
	2.3	Bedroom	2.3.1	34.09	Above	100°	11	Below	4	Below (M)
	3.1	LKD	3.1.1	13.30	Below	100°	12	Below	4	Below (M)
	3.2	Bedroom	3.2.1	39.37	Above	100°	14	Below	6	Above
	3.3	Bedroom	3.3.1	34.09	Above	100°	11	Below	4	Below (M)
	4.1	LKD	4.1.1	13.22	Below	100°	13	Below	5	Above
	4.2	Bedroom	4.2.1	34.10	Above	100°	11	Below	4	Below (M)
	4.3	Bedroom	4.3.1	39.27	Above	100°	14	Below	6	Above
	5.1	LKD	5.1.1	13.10	Below	100°	12	Below	5	Above
	5.2	Bedroom	5.2.1	39.31	Above	100°	14	Below	6	Above
	5.3	Bedroom	5.3.1	39.31	Above	100°	14	Below	6	Above
	6.1	LKD	6.1.1	8.88	Below	10°N		North Facing		
			6.1.2	34.10	Above	100°	11	Below	4	Below (M)
	6.2	Bedroom	6.2.1	11.80	Below	100°	10	Below	3	Below
	7.1	LKD	7.1.1	13.79	Below	100°	15	Below	8	Above
			7.1.2	38.36	Above	174°	18	Below	18	Above
	7.2	Bedroom	7.2.1	39.24	Above	100°	14	Below	6	Above
	7.3	Bedroom	7.3.1	36.26	Above	174°	15	Below	15	Above
	8.1	LKD	8.1.1	37.34	Above	174°	17	Below	17	Above
			8.1.2	8.10	Below	264°	12	Below	8	Above
	8.2	Bedroom	8.2.1	2.85	Below	174°	1	Below	1	Below
	8.3	Bedroom	8.3.1	3.31	Below	174°	0	Below	0	Below
	9.1	LKD	9.1.1	36.49	Above	178°	59	Above	26	Above
			9.1.2	8.31	Below	264°	14	Below	10	Above
	9.2	Bedroom	9.2.1	9.40	Below	174°	9	Below	9	Above
	10.1	LKD	10.1.1	37.31	Above	197°	58	Above	25	Above
			10.1.2	37.51	Above	205°	52	Above	22	Above
			10.1.3	37.93	Above	213°	50	Above	21	Above
			10.1.4	5.77	Below	316°N		North Facing		
	10.2	Bedroom	10.2.1	8.23	Below	226°	8	Below	7	Above
	11.1	LKD	11.1.1	38.19	Above	226°	48	Above	16	Above
			11.1.2	37.83	Above	226°	48	Above	16	Above
			11.1.3	6.13	Below	316°N		North Facing		
	11.2	Bedroom	11.2.1	7.40	Below	226°	7	Below	7	Above

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
	11.3	Bedroom	11.3.1	26.82	Below (M)	46°N		North Facing		
	11.4	Bedroom	11.4.1	27.77	Above	46°N		North Facing		
	12.1	LKD	12.1.1	13.51	Below	226°	12	Below	11	Above
			12.1.2	8.04	Below	136°	11	Below	10	Above
			12.1.3	38.88	Above	226°	19	Below	12	Above
	12.2	Bedroom	12.2.1	20.97	Below	46°N		North Facing		
	12.3	Bedroom	12.3.1	24.57	Below (M)	46°N		North Facing		
	13.1	LKD	13.1.1	8.25	Below	136°	12	Below	10	Above
			13.1.2	38.92	Above	226°	30	Above	17	Above
	13.2	Bedroom	13.2.1	9.20	Below	226°	7	Below	6	Above
	14.1	LKD	14.1.1	7.81	Below	136°	12	Below	11	Above
			14.1.2	38.72	Above	226°	18	Below	12	Above
			14.1.3	33.58	Above	226°	12	Below	9	Above
	14.2	Bedroom	14.2.1	12.50	Below	226°	11	Below	8	Above
	14.3	Bedroom	14.3.1	9.99	Below	226°	9	Below	9	Above
	15.1	LKD	15.1.1	39.07	Above	226°	31	Above	17	Above
			15.1.2	9.43	Below	316°N		North Facing		
	15.2	Bedroom	15.2.1	12.65	Below	226°	10	Below	9	Above
	15.3	Bedroom	15.3.1	5.16	Below	46°N		North Facing		
	16.1	LKD	16.1.1	37.63	Above	226°	0	Below	0	Below
			16.1.2	10.67	Below	316°N		North Facing		
			16.1.3	13.39	Below	226°	15	Below	8	Above
			16.1.4	39.49	Above	316°N		North Facing		
	16.2	Bedroom	16.2.1	39.54	Above	316°N		North Facing		
			16.2.2	34.66	Above	46°N		North Facing		
	17.1	LKD	17.1.1	26.25	Below (M)	316°N		North Facing		
			17.1.2	8.55	Below	46°N		North Facing		
	17.2	Bedroom	17.2.1	10.53	Below	316°N		North Facing		
	18.1	LKD	18.1.1	11.85	Below	316°N		North Facing		
	18.2	Bedroom	18.2.1	37.22	Above	316°N		North Facing		
	18.3	Bedroom	18.3.1	37.91	Above	316°N		North Facing		
	19.1	LKD	19.1.1	12.68	Below	226°	12	Below	0	Below
			19.1.2	38.71	Above	316°N		North Facing		
			19.1.3	36.05	Above	46°N		North Facing		
	19.2	Bedroom	19.2.1	25.08	Below (M)	316°N		North Facing		
	20.1	LKD	20.1.1	34.69	Above	46°N		North Facing		
			20.1.2	3.35	Below	46°N		North Facing		
	20.2	Bedroom	20.2.1	27.17	Above	136°	6	Below	6	Above
	20.3	Bedroom	20.3.1	27.76	Above	136°	8	Below	8	Above
	21.1	LKD	21.1.1	28.17	Above	136°	9	Below	9	Above
			21.1.2	27.97	Above	136°	8	Below	8	Above
			21.1.3	3.47	Below	226°	5	Below	4	Below (M)
	21.2	Bedroom	21.2.1	4.16	Below	136°	4	Below	4	Below (M)
	21.3	Bedroom	21.3.1	4.96	Below	136°	3	Below	3	Below
	22.1	LKD	22.1.1	4.50	Below	46°N		North Facing		
			22.1.2	20.07	Below	136°	5	Below	3	Below
	22.2	Bedroom	22.2.1	4.44	Below	136°	4	Below	3	Below
	23.1	LKD	23.1.1	3.60	Below	280°N		North Facing		
	23.2	Bedroom	23.2.1	25.54	Below (M)	354°N		North Facing		
	23.3	Bedroom	23.3.1	21.84	Below (M)	354°N		North Facing		
	23.4	Bedroom	23.4.1	13.60	Below	280°N		North Facing		
	24.1	LKD	24.1.1	5.54	Below	280°N		North Facing		
	24.2	Bedroom	24.2.1	29.61	Above	280°N		North Facing		
	24.3	Bedroom	24.3.1	30.74	Above	280°N		North Facing		
	25.1	LKD	25.1.1	3.90	Below	190°	5	Below	3	Below
			25.1.2	32.80	Above	280°N		North Facing		
	25.2	Bedroom	25.2.1	4.84	Below	280°N		North Facing		
	26.1	Living Room	26.1.1	7.14	Below	280°N		North Facing		
	26.2	Kitchen-Resi	26.2.1	5.69	Below	280°N		North Facing		
	26.3	Bedroom	26.3.1	33.39	Above	280°N		North Facing		
	26.4	Bedroom	26.4.1	33.74	Above	280°N		North Facing		
	26.5	Bedroom	26.5.1	33.98	Above	280°N		North Facing		
	27.1	LKD	27.1.1	33.77	Above	280°N		North Facing		
			27.1.2	4.50	Below	10°N		North Facing		
	27.2	Bedroom	27.2.1	1.36	Below	280°N		North Facing		
			27.2.2	39.19	Above	358°N		North Facing		
	27.3	Bedroom	1.2.1	39.19	Above	358°N		North Facing		
Fourth	1.1	LKD	1.1.1	9.12	Below	10°N		North Facing		
			1.1.2	39.24	Above	100°	14	Below	6	Above
			1.1.3	39.24	Above	100°	14	Below	6	Above
	1.2	Bedroom	1.2.1	34.79	Above	280°N		North Facing		
			1.2.2	14.58	Below	10°N		North Facing		
	1.3	Bedroom	1.3.1	39.25	Above	10°N		North Facing		
	1.4	Bedroom	1.4.1	39.49	Above	10°N		North Facing		
	1.5	Bedroom	1.5.1	14.60	Below	100°	11	Below	3	Below
	2.1	LKD	2.1.1	9.07	Below	100°	9	Below	3	Below
	2.2	Bedroom	2.2.1	39.37	Above	100°	14	Below	6	Above
	2.3	Bedroom	2.3.1	34.09	Above	100°	11	Below	4	Below (M)
	3.1	LKD	3.1.1	13.22	Below	100°	13	Below	5	Above
	3.2	Bedroom	3.2.1	39.25	Above	100°	14	Below	6	Above
	3.3	Bedroom	3.3.1	34.09	Above	100°	11	Below	4	Below (M)
	4.1	LKD	4.1.1	9.06	Below	100°	8	Below	3	Below
	4.2	Bedroom	4.2.1	34.10	Above	100°	11	Below	4	Below (M)
	4.3	Bedroom	4.3.1	34.10	Above	100°	11	Below	4	Below (M)
	5.1	LKD	5.1.1	8.88	Below	10°N		North Facing		
			5.1.2	34.10	Above	100°	11	Below	4	Below (M)
	5.2	Bedroom	5.2.1	11.80	Below	100°	10	Below	3	Below
	6.1	LKD	6.1.1	13.80	Below	100°	15	Below	8	Above
			6.1.2	39.23	Above	174°	18	Below	18	Above
	6.2	Bedroom	6.2.1	39.21	Above	100°	14	Below	6	Above
	6.3	Bedroom	6.3.1	37.47	Above	174°	15	Below	15	Above
	7.1	LKD	7.1.1	33.91	Above	174°	13	Below	13	Above

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
	7.2	Bedroom	7.1.2	23.40	Below (M)	264°	29	Above	8	Above
			7.2.1	26.97	Below (M)	174°	47	Above	21	Above
	7.3	Bedroom	7.3.1	30.12	Above	174°	48	Above	20	Above
	8.1	LKD	8.1.1	39.07	Above	178°	59	Above	26	Above
			8.1.2	5.72	Below	264°	8	Below	8	Above
	8.2	Bedroom	8.2.1	7.47	Below	174°	5	Below	5	Above
	9.1	LKD	9.1.1	39.15	Above	197°	58	Above	25	Above
			9.1.2	39.06	Above	205°	56	Above	23	Above
			9.1.3	39.06	Above	214°	56	Above	22	Above
			9.1.4	19.09	Below	316°N		North Facing		
	9.2	Bedroom	9.2.1	25.52	Below (M)	226°	33	Above	10	Above
	10.1	LKD	10.1.1	38.98	Above	226°	51	Above	18	Above
			10.1.2	38.81	Above	226°	51	Above	18	Above
			10.1.3	3.28	Below	316°N		North Facing		
	10.2	Bedroom	10.2.1	4.60	Below	226°	2	Below	2	Below
	10.3	Bedroom	10.3.1	30.39	Above	46°N		North Facing		
	10.4	Bedroom	10.4.1	31.25	Above	46°N		North Facing		
	11.1	LKD	11.1.1	14.16	Below	226°	12	Below	11	Above
			11.1.2	8.58	Below	136°	11	Below	10	Above
			11.1.3	39.25	Above	226°	31	Above	17	Above
	11.2	Bedroom	11.2.1	24.24	Below (M)	46°N		North Facing		
	11.3	Bedroom	11.3.1	28.34	Above	46°N		North Facing		
	12.1	LKD	12.1.1	5.46	Below	136°	6	Below	6	Above
			12.1.2	39.27	Above	226°	18	Below	12	Above
	12.2	Bedroom	12.2.1	6.50	Below	226°	5	Below	5	Above
	13.1	LKD	13.1.1	8.08	Below	136°	12	Below	11	Above
			13.1.2	33.89	Above	226°	12	Below	9	Above
			13.1.3	33.90	Above	226°	12	Below	9	Above
	13.2	Bedroom	13.2.1	12.73	Below	226°	11	Below	8	Above
	13.3	Bedroom	13.3.1	10.33	Below	226°	9	Below	9	Above
	14.1	LKD	14.1.1	39.36	Above	226°	19	Below	12	Above
			14.1.2	9.50	Below	316°N		North Facing		
	14.2	Bedroom	14.2.1	12.89	Below	226°	10	Below	9	Above
	14.3	Bedroom	14.3.1	0.00	Below	46°N		North Facing		
	15.1	LKD	15.1.1	38.60	Above	226°	0	Below	0	Below
			15.1.2	5.64	Below	316°N		North Facing		
			15.1.3	7.56	Below	226°	8	Below	4	Below (M)
			15.1.4	39.62	Above	316°N		North Facing		
	15.2	Bedroom	15.2.1	39.62	Above	316°N		North Facing		
			15.2.2	36.22	Above	46°N		North Facing		
	16.1	LKD	16.1.1	27.86	Above	316°N		North Facing		
			16.1.2	8.60	Below	46°N		North Facing		
	16.2	Bedroom	16.2.1	11.15	Below	316°N		North Facing		
	17.1	LKD	17.1.1	12.40	Below	316°N		North Facing		
	17.2	Bedroom	17.2.1	38.20	Above	316°N		North Facing		
	17.3	Bedroom	17.3.1	38.65	Above	316°N		North Facing		
			17.3.2	38.04	Above	46°N		North Facing		
	18.1	LKD	18.1.1	35.73	Above	46°N		North Facing		
			18.1.2	32.28	Above	136°	13	Below	10	Above
			18.1.3	32.19	Above	136°	12	Below	9	Above
			18.1.4	4.54	Below	226°	8	Below	7	Above
	18.2	Bedroom	18.2.1	6.14	Below	136°	5	Below	5	Above
	18.3	Bedroom	18.3.1	7.80	Below	136°	8	Below	6	Above
	19.1	LKD	19.1.1	5.71	Below	46°N		North Facing		
			19.1.2	23.59	Below (M)	136°	9	Below	5	Above
	19.2	Bedroom	19.2.1	6.86	Below	136°	7	Below	5	Above
	20.1	LKD	20.1.1	5.99	Below	280°N		North Facing		
	20.2	Bedroom	20.2.1	28.44	Above	354°N		North Facing		
	20.3	Bedroom	20.3.1	23.49	Below (M)	354°N		North Facing		
	20.4	Bedroom	20.4.1	15.26	Below	280°N		North Facing		
	21.1	LKD	21.1.1	7.88	Below	280°N		North Facing		
	21.2	Bedroom	21.2.1	33.30	Above	280°N		North Facing		
	21.3	Bedroom	21.3.1	34.17	Above	280°N		North Facing		
	22.1	LKD	22.1.1	5.08	Below	190°	7	Below	5	Above
			22.1.2	35.36	Above	280°N		North Facing		
	22.2	Bedroom	22.2.1	6.95	Below	280°N		North Facing		
	23.1	Living Room	23.1.1	8.24	Below	280°N		North Facing		
	23.2	Kitchen-Resi	23.2.1	7.02	Below	280°N		North Facing		
	23.3	Bedroom	23.3.1	35.67	Above	280°N		North Facing		
	23.4	Bedroom	23.4.1	35.86	Above	280°N		North Facing		
	23.5	Bedroom	23.5.1	35.94	Above	280°N		North Facing		
Fifth	1.1	LKD	1.1.1	25.04	Below (M)	10°N		North Facing		
			1.1.2	34.09	Above	100°	0	Below	0	Below
			1.1.3	34.10	Above	100°	0	Below	0	Below
	1.2	Bedroom	1.2.1	35.53	Above	280°N		North Facing		
			1.2.2	39.44	Above	10°N		North Facing		
	1.3	Bedroom	1.3.1	39.37	Above	10°N		North Facing		
	1.4	Bedroom	1.4.1	39.37	Above	10°N		North Facing		
	1.5	Bedroom	1.5.1	34.79	Above	100°	31	Above	5	Above
	2.1	LKD	2.1.1	7.81	Below	100°	5	Below	3	Below
	2.2	Bedroom	2.2.1	39.35	Above	100°	0	Below	0	Below
	2.3	Bedroom	2.3.1	34.10	Above	100°	0	Below	0	Below
	3.1	LKD	3.1.1	32.53	Above	100°	34	Above	6	Above
	3.2	Bedroom	3.2.1	34.11	Above	100°	0	Below	0	Below
	3.3	Bedroom	3.3.1	34.11	Above	100°	0	Below	0	Below
	4.1	LKD	4.1.1	9.06	Below	100°	8	Below	3	Below
	4.2	Bedroom	4.2.1	34.10	Above	100°	11	Below	4	Below (M)
	4.3	Bedroom	4.3.1	34.11	Above	100°	11	Below	4	Below (M)
	5.1	LKD	5.1.1	34.11	Above	100°	11	Below	4	Below (M)
			5.1.2	8.88	Below	10°N		North Facing		
	5.2	Bedroom	5.2.1	11.80	Below	100°	10	Below	3	Below
	6.1	LKD	6.1.1	8.28	Below	100°	5	Below	3	Below

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
	6.2	Bedroom	6.1.2	39.29	Above	174°	18	Below	18	Above
	6.3	Bedroom	6.2.1	34.11	Above	100°	11	Below	4	Below (M)
	7.1	LKD	6.3.1	37.63	Above	174°	15	Below	15	Above
			7.1.1	8.65	Below	174°	7	Below	7	Above
			7.1.2	11.93	Below	264°	7	Below	4	Below (M)
			7.1.3	37.99	Above	264°	0	Below	0	Below
	7.2	Bedroom	7.2.1	32.00	Above	354°N		North Facing		
	7.3	Bedroom	7.3.1	27.09	Above	354°N		North Facing		
	8.1	LKD	8.1.1	38.23	Above	136°	0	Below	0	Below
			8.1.2	14.95	Below	226°	14	Below	13	Above
			8.1.3	9.54	Below	136°	11	Below	10	Above
			8.1.4	39.29	Above	226°	19	Below	12	Above
	8.2	Bedroom	8.2.1	28.47	Above	46°N		North Facing		
	8.3	Bedroom	8.3.1	32.56	Above	46°N		North Facing		
			8.3.2	37.06	Above	136°	14	Below	10	Above
			8.3.3	37.25	Above	136°	34	Above	15	Above
	9.1	LKD	9.1.1	5.60	Below	136°	6	Below	6	Above
			9.1.2	39.31	Above	226°	18	Below	12	Above
	9.2	Bedroom	9.2.1	6.58	Below	226°	5	Below	5	Above
	10.1	LKD	10.1.1	8.22	Below	136°	12	Below	11	Above
			10.1.2	34.08	Above	226°	12	Below	9	Above
			10.1.3	34.08	Above	226°	12	Below	9	Above
	10.2	Bedroom	10.2.1	12.89	Below	226°	11	Below	8	Above
	10.3	Bedroom	10.3.1	10.55	Below	226°	9	Below	9	Above
	11.1	LKD	11.1.1	39.40	Above	226°	19	Below	12	Above
			11.1.2	10.60	Below	316°N		North Facing		
	11.2	Bedroom	11.2.1	15.29	Below	226°	17	Below	9	Above
			11.2.2	39.62	Above	316°N		North Facing		
	11.3	Bedroom	11.3.1	39.61	Above	316°N		North Facing		
			11.3.2	33.47	Above	46°N		North Facing		
	11.4	Bedroom	11.4.1	28.78	Above	46°N		North Facing		
	12.1	LKD	12.1.1	30.29	Above	316°N		North Facing		
			12.1.2	8.60	Below	46°N		North Facing		
	12.2	Bedroom	12.2.1	11.54	Below	316°N		North Facing		
	13.1	LKD	13.1.1	12.74	Below	316°N		North Facing		
	13.2	Bedroom	13.2.1	38.68	Above	316°N		North Facing		
	13.3	Bedroom	13.3.1	38.93	Above	316°N		North Facing		
			13.3.2	38.55	Above	46°N		North Facing		
	14.1	LKD	14.1.1	37.25	Above	46°N		North Facing		
			14.1.2	35.49	Above	136°	15	Below	11	Above
			14.1.3	35.49	Above	136°	14	Below	10	Above
			14.1.4	5.81	Below	226°	9	Below	8	Above
	14.2	Bedroom	14.2.1	7.67	Below	136°	5	Below	5	Above
	14.3	Bedroom	14.3.1	10.17	Below	136°	8	Below	6	Above
	15.1	LKD	15.1.1	6.89	Below	46°N		North Facing		
			15.1.2	27.68	Above	136°	10	Below	6	Above
	15.2	Bedroom	15.2.1	8.86	Below	136°	8	Below	6	Above
	16.1	LKD	16.1.1	7.93	Below	280°N		North Facing		
	16.2	Bedroom	16.2.1	18.95	Below	280°N		North Facing		
	17.1	LKD	17.1.1	9.68	Below	280°N		North Facing		
	17.2	Bedroom	17.2.1	35.98	Above	280°N		North Facing		
	17.3	Bedroom	17.3.1	36.55	Above	280°N		North Facing		
	18.1	LKD	18.1.1	5.89	Below	190°	7	Below	5	Above
			18.1.2	37.12	Above	280°N		North Facing		
	18.2	Bedroom	18.2.1	8.61	Below	280°N		North Facing		
	19.1	Living Room	19.1.1	9.11	Below	280°N		North Facing		
	19.2	Kitchen-Resi	19.2.1	8.09	Below	280°N		North Facing		
	19.3	Bedroom	19.3.1	37.26	Above	280°N		North Facing		
	19.4	Bedroom	19.4.1	37.34	Above	280°N		North Facing		
	19.5	Bedroom	19.5.1	37.35	Above	280°N		North Facing		
Sixth	1.1	LKD	1.1.1	39.11	Above	10°N		North Facing		
			1.1.2	39.38	Above	100°	14	Below	6	Above
			1.1.3	39.36	Above	100°	11	Below	4	Below (M)
			1.1.4	39.39	Above	100°	38	Above	9	Above
	1.2	Bedroom	1.2.1	39.34	Above	100°	43	Above	14	Above
	1.3	Bedroom	1.3.1	39.31	Above	100°	14	Below	6	Above
			1.3.2	38.86	Above	100°	14	Below	6	Above
	2.1	LKD	2.1.1	39.05	Above	100°	14	Below	6	Above
			2.1.2	39.28	Above	100°	13	Below	5	Above
			2.1.3	39.25	Above	100°	38	Above	9	Above
	2.2	Bedroom	2.2.1	39.32	Above	100°	14	Below	6	Above
	2.3	Bedroom	2.3.1	39.20	Above	100°	44	Above	15	Above
	3.1	LKD	3.1.1	36.23	Above	100°	35	Above	6	Above
	3.2	Bedroom	3.2.1	38.32	Above	100°	13	Below	5	Above
	3.3	Bedroom	3.3.1	38.32	Above	100°	13	Below	5	Above
	4.1	LKD	4.1.1	21.54	Below	10°N		North Facing		
			4.1.2	38.32	Above	100°	13	Below	5	Above
	4.2	Bedroom	4.2.1	28.96	Above	100°	29	Above	4	Below (M)
	5.1	LKD	5.1.1	33.89	Above	100°	42	Above	14	Above
			5.1.2	39.38	Above	174°	18	Below	18	Above
	5.2	Bedroom	5.2.1	38.32	Above	100°	13	Below	5	Above
	5.3	Bedroom	5.3.1	39.37	Above	174°	17	Below	17	Above
	6.1	LKD	6.1.1	35.37	Above	174°	52	Above	27	Above
			6.1.2	30.60	Above	264°	12	Below	5	Above
			6.1.3	38.99	Above	264°	0	Below	0	Below
	6.2	Bedroom	6.2.1	37.09	Above	354°N		North Facing		
	6.3	Bedroom	6.3.1	34.36	Above	354°N		North Facing		
	7.1	LKD	7.1.1	39.27	Above	136°	0	Below	0	Below
			7.1.2	36.38	Above	226°	51	Above	23	Above
			7.1.3	25.97	Below (M)	136°	36	Above	16	Above
			7.1.4	39.62	Above	226°	24	Below (M)	15	Above
	7.2	Bedroom	7.2.1	35.78	Above	46°N		North Facing		

Appendix 7: VSC and Sunlight Results for Proposed Units										
Floor Ref.	Room Ref.	Room Use.	Window Ref.	VSC	Meets BRE Criteria	Window Orientation	Annual	Meets BRE Criteria	Winter	Meets BRE Criteria
	7.3	Bedroom	7.3.1	37.57	Above	46°N		North Facing		
			7.3.2	38.92	Above	136°	16	Below	12	Above
	8.1	LKD	8.1.1	21.93	Below (M)	136°	34	Above	13	Above
			8.1.2	39.62	Above	226°	24	Below (M)	15	Above
	8.2	Bedroom	8.2.1	26.32	Below (M)	226°	35	Above	10	Above
	9.1	LKD	9.1.1	23.09	Below (M)	136°	35	Above	15	Above
			9.1.2	38.32	Above	226°	14	Below	11	Above
			9.1.3	38.32	Above	226°	15	Below	11	Above
	9.2	Bedroom	9.2.1	31.79	Above	226°	40	Above	10	Above
	9.3	Bedroom	9.3.1	26.23	Below (M)	226°	38	Above	17	Above
	10.1	LKD	10.1.1	39.62	Above	226°	24	Below (M)	15	Above
			10.1.2	27.94	Above	316°N		North Facing		
	10.2	Bedroom	10.2.1	37.92	Above	226°	53	Above	18	Above
			10.2.2	39.62	Above	316°N		North Facing		
	10.3	Bedroom	10.3.1	39.62	Above	316°N		North Facing		
			10.3.2	37.73	Above	46°N		North Facing		
	10.4	Bedroom	10.4.1	35.26	Above	46°N		North Facing		
	11.1	LKD	11.1.1	36.10	Above	316°N		North Facing		
			11.1.2	24.65	Below (M)	46°N		North Facing		
	11.2	Bedroom	11.2.1	31.70	Above	316°N		North Facing		
	12.1	LKD	12.1.1	33.92	Above	316°N		North Facing		
	12.2	Bedroom	12.2.1	39.43	Above	316°N		North Facing		
	12.3	Bedroom	12.3.1	39.49	Above	316°N		North Facing		
			12.3.2	39.38	Above	46°N		North Facing		
	13.1	LKD	13.1.1	38.96	Above	46°N		North Facing		
			13.1.2	38.44	Above	136°	17	Below	13	Above
			13.1.3	38.43	Above	136°	16	Below	12	Above
			13.1.4	23.91	Below (M)	226°	38	Above	16	Above
	13.2	Bedroom	13.2.1	24.82	Below (M)	136°	37	Above	18	Above
	13.3	Bedroom	13.3.1	33.59	Above	136°	50	Above	17	Above
	14.1	LKD	14.1.1	24.35	Below (M)	46°N		North Facing		
			14.1.2	34.24	Above	136°	13	Below	9	Above
	14.2	Bedroom	14.2.1	30.55	Above	136°	43	Above	12	Above
	15.1	LKD	15.1.1	30.86	Above	280°N		North Facing		
	15.2	Bedroom	15.2.1	29.67	Above	280°N		North Facing		
	16.1	LKD	16.1.1	33.77	Above	280°N		North Facing		
	16.2	Bedroom	16.2.1	38.39	Above	280°N		North Facing		
	16.3	Bedroom	16.3.1	38.58	Above	280°N		North Facing		
	17.1	LKD	17.1.1	22.62	Below (M)	190°	34	Above	10	Above
			17.1.2	38.73	Above	280°N		North Facing		
	17.2	Bedroom	17.2.1	30.33	Above	280°N		North Facing		
	18.1	Living Room	18.1.1	29.97	Above	280°N		North Facing		
	18.2	Kitchen-Resi	18.2.1	28.73	Above	280°N		North Facing		
	18.3	Bedroom	18.3.1	38.76	Above	280°N		North Facing		
	18.4	Bedroom	18.4.1	38.79	Above	280°N		North Facing		
	18.5	Bedroom	18.5.1	38.81	Above	280°N		North Facing		

Appendix 8

ADF Results for
Proposed Units

Appendix 8: ADF Results for Proposed Units														
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria	
Morrisons High Street														
Ground	1.1	LKD	1.1.1-L	0.68	1.00	0.87	47.03	169.61	0.70	0.30	0.10			
			1.1.1-U	0.68	1.00	2.96	40.39	169.61	0.70	1.00	0.94			
			1.1.2-L	0.68	1.00	1.35	51.74	169.61	0.70	0.30	0.16			
			1.1.2-U	0.68	1.00	4.57	43.20	169.61	0.70	1.00	1.55			
Ground	2.1	Living Room	2.1.1-L	0.68	1.00	1.75	56.75	104.91	0.70	0.30	0.38			
			2.1.1-U	0.68	1.00	6.49	48.83	104.91	0.70	1.00	4.03			
Ground	2.2	Kitchen-Resi	2.2.1-L	0.68	1.00	1.18	61.01	112.14	0.70	0.30	0.26			
			2.2.1-U	0.68	1.00	3.98	53.66	112.14	0.70	1.00	2.54			
Ground	3.1	Living Room	3.1.1-L	0.68	1.00	1.96	58.04	95.48	0.70	0.30	0.48			
			3.1.1-U	0.68	1.00	6.64	50.02	95.48	0.70	1.00	4.63			
Ground	3.2	Kitchen-Resi	3.2.1-L	0.68	1.00	1.65	64.28	102.73	0.70	0.30	0.41			
			3.2.1-U	0.68	1.00	5.13	55.63	102.73	0.70	1.00	3.70			
Mezzanine	1.1	Bedroom	1.1.1-L	0.68	1.00	1.58	61.88	75.78	0.70	0.30	0.51			
			1.1.1-U	0.68	1.00	2.94	61.25	75.78	0.70	1.00	3.17			
Mezzanine	1.2	Bedroom	1.2.1-L	0.68	1.00	1.39	65.10	62.46	0.70	0.30	0.58			
			1.2.1-U	0.68	1.00	2.59	64.55	62.46	0.70	1.00	3.57			
Mezzanine	1.3	Bedroom	1.3.1-L	0.68	1.00	0.93	69.41	44.91	0.70	0.30	0.57			
			1.3.1-U	0.68	1.00	1.73	69.12	44.91	0.70	1.00	3.55			
Mezzanine	1.4	Bedroom	1.4.1-L	0.68	1.00	0.75	69.75	48.56	0.70	0.30	0.43			
			1.4.1-U	0.68	1.00	1.41	69.75	48.56	0.70	1.00	2.69			
Mezzanine	2.1	Bedroom	2.1.1-L	0.68	1.00	0.76	70.63	66.09	0.70	0.30	0.33			
			2.1.1-U	0.68	1.00	1.42	70.56	66.09	0.70	1.00	2.02			
Mezzanine	2.2	Bedroom	2.2.1-L	0.68	1.00	0.88	71.81	47.64	0.70	0.30	0.53			
			2.2.1-U	0.68	1.00	1.63	71.85	47.64	0.70	1.00	3.28			
Mezzanine	2.3	Bedroom	2.3.1-L	0.68	1.00	0.76	70.79	47.64	0.70	0.30	0.45			
			2.3.1-U	0.68	1.00	1.42	69.71	47.64	0.70	1.00	2.77			
Mezzanine	2.4	Bedroom	2.4.1-L	0.68	1.00	0.76	67.95	62.76	0.70	0.30	0.33			
			2.4.1-U	0.68	1.00	1.42	56.20	62.76	0.70	1.00	1.69			
Mezzanine	3.1	Bedroom	3.1.1-L	0.68	1.00	0.76	66.64	62.58	0.70	0.30	0.32			
			3.1.1-U	0.68	1.00	1.42	53.84	62.58	0.70	1.00	1.63			
Mezzanine	3.2	Bedroom	3.2.1-L	0.68	1.00	0.76	65.28	49.55	0.70	0.30	0.40			
			3.2.1-U	0.68	1.00	1.42	50.86	49.55	0.70	1.00	1.94			
Mezzanine	3.3	Bedroom	3.3.1-L	0.68	1.00	1.34	66.36	49.55	0.70	0.30	0.72			
			3.3.1-U	0.68	1.00	2.49	51.41	49.55	0.70	1.00	3.45			
Mezzanine	3.4	Bedroom	3.4.1-L	0.68	1.00	0.87	66.02	60.04	0.70	0.30	0.38			
			3.4.1-U	0.68	1.00	1.61	51.47	60.04	0.70	1.00	1.84			
			3.4.2	0.68	1.00	1.37	51.22	60.04	0.70	1.00	1.55			
First	1.1	LKD	1.1.1	0.68	1.00	1.37	72.86	108.58	0.70	1.00	1.22			
			1.1.2-L	0.68	1.00	1.28	41.86	108.58	0.70	0.30	0.20			
			1.1.2-U	0.68	1.00	2.38	28.67	108.58	0.70	1.00	0.84			
			1.1.3-L	0.68	1.00	1.17	40.97	108.58	0.70	0.30	0.18			
			1.1.3-U	0.68	1.00	2.18	26.94	108.58	0.70	1.00	0.72			
First	1.3	Bedroom	1.3.1	0.68	1.00	1.37	74.36	44.82	0.70	1.00	3.02			
First	1.4	Bedroom	1.4.1	0.68	1.00	1.37	79.70	62.85	0.70	1.00	2.31			
First	2.1	LKD	2.1.1-L	0.68	1.00	2.12	50.19	101.12	0.70	0.30	0.42			
			2.1.1-U	0.68	1.00	3.95	35.10	101.12	0.70	1.00	1.83			
First	2.2	Bedroom	2.2.1-L	0.68	1.00	0.37	81.30	52.70	0.70	0.30	0.23			
			2.2.1-U	0.68	1.00	2.42	77.44	52.70	0.70	1.00	4.74			
First	2.3	Bedroom	2.3.1-L	0.68	1.00	0.37	81.06	60.02	0.70	0.30	0.20			
			2.3.1-U	0.68	1.00	2.42	77.21	60.02	0.70	1.00	4.15			
First	3.1	LKD	3.1.1-L	0.68	1.00	2.80	45.45	104.23	0.70	0.30	0.49			
			3.1.1-U	0.68	1.00	5.21	28.70	104.23	0.70	1.00	1.91			
First	3.2	Bedroom	3.2.1-L	0.68	1.00	0.39	80.27	58.48	0.70	0.30	0.21			
			3.2.1-U	0.68	1.00	2.56	79.53	58.48	0.70	1.00	4.64			

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
First	3.3	Bedroom	3.3.1-L	0.68	1.00	0.47	80.80	74.24	0.70	0.30	0.21		
			3.3.1-U	0.68	1.00	3.12	79.87	74.24	0.70	1.00	4.48		
											4.69	1.00	Above
First	4.1	LKD	4.1.1-L	0.68	1.00	2.57	49.60	105.91	0.70	0.30	0.48		
			4.1.1-U	0.68	1.00	4.82	33.14	105.91	0.70	1.00	2.01		
											2.49	2.00	Above
First	4.2	Bedroom	4.2.1-L	0.68	1.00	0.43	79.78	59.48	0.70	0.30	0.23		
			4.2.1-U	0.68	1.00	2.84	75.88	59.48	0.70	1.00	4.83		
											5.07	1.00	Above
First	4.3	Bedroom	4.3.1-L	0.68	1.00	0.43	79.04	59.48	0.70	0.30	0.23		
			4.3.1-U	0.68	1.00	2.84	75.30	59.48	0.70	1.00	4.80		
											5.03	1.00	Above
First	5.1	LKD	5.1.1-L	0.68	1.00	2.65	43.52	106.83	0.70	0.30	0.43		
			5.1.1-U	0.68	1.00	4.93	24.90	106.83	0.70	1.00	1.53		
											1.96	2.00	Below (M)
First	5.2	Bedroom	5.2.1-L	0.68	1.00	0.41	77.00	58.54	0.70	0.30	0.22		
			5.2.1-U	0.68	1.00	2.70	73.76	58.54	0.70	1.00	4.54		
											4.75	1.00	Above
First	5.3	Bedroom	5.3.1-L	0.68	1.00	0.43	77.25	58.78	0.70	0.30	0.23		
			5.3.1-U	0.68	1.00	2.84	76.92	58.78	0.70	1.00	4.96		
											5.18	1.00	Above
First	6.1	LKD	6.1.1-L	0.68	1.00	0.84	36.61	99.58	0.70	0.30	0.12		
			6.1.1-U	0.68	1.00	1.57	30.04	99.58	0.70	1.00	0.63		
			6.1.2-L	0.68	1.00	0.60	79.01	99.58	0.70	0.30	0.19		
			6.1.2-U	0.68	1.00	3.97	75.05	99.58	0.70	1.00	3.99		
											4.94	2.00	Above
First	6.2	Bedroom	6.2.1-L	0.68	1.00	1.89	44.74	66.02	0.70	0.30	0.51		
			6.2.1-U	0.68	1.00	3.53	30.20	66.02	0.70	1.00	2.15		
											2.66	1.00	Above
First	7.1	LKD	7.1.1-L	0.68	1.00	2.12	52.45	105.72	0.70	0.30	0.42		
			7.1.1-U	0.68	1.00	3.95	36.73	105.72	0.70	1.00	1.83		
			7.1.2-L	0.68	1.00	0.71	70.86	105.72	0.70	0.30	0.19		
			7.1.2-U	0.68	1.00	4.68	72.05	105.72	0.70	1.00	4.25		
											6.69	2.00	Above
First	7.2	Bedroom	7.2.1-L	0.68	1.00	0.60	80.03	63.76	0.70	0.30	0.30		
			7.2.1-U	0.68	1.00	3.97	75.84	63.76	0.70	1.00	6.30		
											6.60	1.00	Above
First	7.3	Bedroom	7.3.1-L	0.68	1.00	0.39	65.28	46.91	0.70	0.30	0.22		
			7.3.1-U	0.68	1.00	2.56	64.04	46.91	0.70	1.00	4.66		
											4.87	1.00	Above
First	8.1	LKD	8.1.1-L	0.68	1.00	0.77	59.90	116.29	0.70	0.30	0.16		
			8.1.1-U	0.68	1.00	5.11	60.18	116.29	0.70	1.00	3.52		
			8.1.2-L	0.68	1.00	0.84	32.27	116.29	0.70	0.30	0.09		
			8.1.2-U	0.68	1.00	1.57	23.13	116.29	0.70	1.00	0.42		
											4.19	2.00	Above
First	8.2	Bedroom	8.2.1-L	0.68	1.00	0.37	31.00	62.60	0.70	0.30	0.07		
			8.2.1-U	0.68	1.00	2.42	13.56	62.60	0.70	1.00	0.70		
											0.77	1.00	Below
First	8.3	Bedroom	8.3.1-L	0.68	1.00	0.37	33.02	65.93	0.70	0.30	0.07		
			8.3.1-U	0.68	1.00	2.42	14.99	65.93	0.70	1.00	0.73		
											0.81	1.00	Below (M)
First	9.1	LKD	9.1.1-L	0.68	1.00	0.76	57.06	113.20	0.70	0.30	0.15		
			9.1.1-U	0.68	1.00	1.43	58.68	113.20	0.70	1.00	0.99		
			9.1.2-L	0.68	1.00	1.06	34.13	113.20	0.70	0.30	0.13		
			9.1.2-U	0.68	1.00	1.98	24.74	113.20	0.70	1.00	0.58		
											1.85	2.00	Below (M)
First	9.2	Bedroom	9.2.1-L	0.68	1.00	1.52	31.63	64.43	0.70	0.30	0.30		
			9.2.1-U	0.68	1.00	2.82	12.31	64.43	0.70	1.00	0.72		
											1.02	1.00	Above
First	10.1	LKD	10.1.1-L	0.68	1.00	0.76	61.72	110.55	0.70	0.30	0.17		
			10.1.1-U	0.68	1.00	1.43	62.89	110.55	0.70	1.00	1.08		
			10.1.2-L	0.68	1.00	0.75	64.72	110.55	0.70	0.30	0.18		
			10.1.2-U	0.68	1.00	1.41	65.32	110.55	0.70	1.00	1.11		
			10.1.3-L	0.68	1.00	0.76	69.26	110.55	0.70	0.30	0.19		
			10.1.3-U	0.68	1.00	1.43	69.72	110.55	0.70	1.00	1.20		
			10.1.4-L	0.68	1.00	0.84	31.93	110.55	0.70	0.30	0.10		
			10.1.4-U	0.68	1.00	1.57	24.56	110.55	0.70	1.00	0.46		
											4.49	2.00	Above
First	10.2	Bedroom	10.2.1-L	0.68	1.00	1.52	39.67	59.39	0.70	0.30	0.40		
			10.2.1-U	0.68	1.00	2.82	25.37	59.39	0.70	1.00	1.61		
											2.01	1.00	Above
First	11.1	LKD	11.1.1-L	0.68	1.00	0.76	72.62	126.24	0.70	0.30	0.17		
			11.1.1-U	0.68	1.00	1.42	72.76	126.24	0.70	1.00	1.09		
			11.1.2-L	0.68	1.00	0.76	73.31	126.24	0.70	0.30	0.18		
			11.1.2-U	0.68	1.00	1.43	73.35	126.24	0.70	1.00	1.11		
			11.1.3-L	0.68	1.00	1.06	32.36	126.24	0.70	0.30	0.11		
			11.1.3-U	0.68	1.00	1.98	26.01	126.24	0.70	1.00	0.54		
											3.20	2.00	Above
First	11.2	Bedroom	11.2.1-L	0.68	1.00	1.52	38.48	60.30	0.70	0.30	0.39		
			11.2.1-U	0.68	1.00	2.82	24.00	60.30	0.70	1.00	1.50		
											1.89	1.00	Above

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
First	11.3	Bedroom	11.3.1-L	0.68	1.00	0.37	50.45	59.03	0.70	0.30	0.13	1.00	Above
			11.3.1-U	0.68	1.00	2.42	50.30	59.03	0.70	1.00	2.75		
											2.87		
First	11.4	Bedroom	11.4.1-L	0.68	1.00	0.37	51.86	59.84	0.70	0.30	0.13	1.00	Above
			11.4.1-U	0.68	1.00	2.42	51.46	59.84	0.70	1.00	2.77		
											2.90		
First	12.1	LKD	12.1.1-L	0.68	1.00	2.35	54.07	127.07	0.70	0.30	0.40	2.00	Above
			12.1.1-U	0.68	1.00	4.37	35.30	127.07	0.70	1.00	1.62		
			12.1.2-L	0.68	1.00	0.84	35.69	127.07	0.70	0.30	0.09		
			12.1.2-U	0.68	1.00	1.57	25.83	127.07	0.70	1.00	0.43		
			12.1.3-L	0.68	1.00	0.47	80.91	127.07	0.70	0.30	0.12		
			12.1.3-U	0.68	1.00	3.12	81.60	127.07	0.70	1.00	2.68		
											5.33		
First	12.2	Bedroom	12.2.1-L	0.68	1.00	0.22	43.95	55.56	0.70	0.30	0.07	1.00	Above
			12.2.1-U	0.68	1.00	1.43	43.92	55.56	0.70	1.00	1.50		
											1.57		
First	12.3	Bedroom	12.3.1-L	0.68	1.00	0.37	47.68	65.45	0.70	0.30	0.11	1.00	Above
			12.3.1-U	0.68	1.00	2.42	47.60	65.45	0.70	1.00	2.34		
											2.45		
First	13.1	LKD	13.1.1-L	0.68	1.00	0.84	33.95	116.05	0.70	0.30	0.10	2.00	Above
			13.1.1-U	0.68	1.00	1.56	28.41	116.05	0.70	1.00	0.51		
			13.1.2-L	0.68	1.00	0.41	81.31	116.05	0.70	0.30	0.11		
			13.1.2-U	0.68	1.00	2.70	79.82	116.05	0.70	1.00	2.48		
											3.20		
First	13.2	Bedroom	13.2.1-L	0.68	1.00	1.52	41.62	70.79	0.70	0.30	0.36	1.00	Above
			13.2.1-U	0.68	1.00	2.82	28.80	70.79	0.70	1.00	1.53		
											1.89		
First	14.1	LKD	14.1.1-L	0.68	1.00	1.01	35.70	126.42	0.70	0.30	0.11	2.00	Above
			14.1.1-U	0.68	1.00	1.89	27.19	126.42	0.70	1.00	0.54		
			14.1.2-L	0.68	1.00	0.43	82.18	126.42	0.70	0.30	0.11		
			14.1.2-U	0.68	1.00	2.84	82.40	126.42	0.70	1.00	2.47		
			14.1.3-L	0.68	1.00	0.47	82.41	126.42	0.70	0.30	0.12		
			14.1.3-U	0.68	1.00	3.12	82.62	126.42	0.70	1.00	2.72		
											6.08		
First	14.2	Bedroom	14.2.1-L	0.68	1.00	1.82	51.11	60.18	0.70	0.30	0.62	1.00	Above
			14.2.1-U	0.68	1.00	3.39	35.00	60.18	0.70	1.00	2.63		
											3.24		
First	14.3	Bedroom	14.3.1-L	0.68	1.00	0.87	44.27	58.64	0.70	0.30	0.26	1.00	Above
			14.3.1-U	0.68	1.00	1.63	29.83	58.64	0.70	1.00	1.10		
											1.36		
First	15.1	LKD	15.1.1-L	0.68	1.00	0.47	82.72	110.53	0.70	0.30	0.14	2.00	Above
			15.1.1-U	0.68	1.00	3.12	80.98	110.53	0.70	1.00	3.05		
			15.1.2-L	0.68	1.00	0.76	42.18	110.53	0.70	0.30	0.12		
			15.1.2-U	0.68	1.00	1.56	33.47	110.53	0.70	1.00	0.63		
											3.94		
First	15.2	Bedroom	15.2.1-L	0.68	1.00	2.04	53.27	59.66	0.70	0.30	0.73	1.00	Above
			15.2.1-U	0.68	1.00	3.80	35.26	59.66	0.70	1.00	3.00		
											3.72		
First	15.3	Bedroom	15.3.1-L	0.68	1.00	0.01	22.38	37.89	0.70	0.30	0.00	1.00	Below (M)
			15.3.1-U	0.68	1.00	1.43	18.65	37.89	0.70	1.00	0.94		
											0.94		
First	16.1	LKD	16.1.1	0.68	1.00	1.37	76.96	102.26	0.70	1.00	1.37	2.00	Above
			16.1.2-L	0.68	1.00	1.10	45.32	102.26	0.70	0.30	0.19		
			16.1.2-U	0.68	1.00	2.05	35.04	102.26	0.70	1.00	0.94		
			16.1.3-L	0.68	1.00	1.93	54.23	102.26	0.70	0.30	0.41		
			16.1.3-U	0.68	1.00	3.60	38.32	102.26	0.70	1.00	1.80		
			16.1.4	0.68	1.00	1.38	81.29	102.26	0.70	1.00	1.46		
											6.17		
First	16.2	Bedroom	16.2.1	0.68	1.00	1.37	81.21	58.74	0.70	1.00	2.52	1.00	Above
			16.2.2-L	0.68	1.00	0.22	68.52	58.74	0.70	0.30	0.10		
			16.2.2-U	0.68	1.00	1.43	68.08	58.74	0.70	1.00	2.21		
											4.83		
First	17.1	LKD	17.1.1-L	0.68	1.00	0.37	58.15	99.30	0.70	0.30	0.09	2.00	Above
			17.1.1-U	0.68	1.00	2.42	57.80	99.30	0.70	1.00	1.88		
			17.1.2-L	0.68	1.00	0.94	37.96	99.30	0.70	0.30	0.14		
			17.1.2-U	0.68	1.00	1.75	30.05	99.30	0.70	1.00	0.71		
											2.81		
First	17.2	Bedroom	17.2.1-L	0.68	1.00	1.89	45.41	64.32	0.70	0.30	0.53	1.00	Above
			17.2.1-U	0.68	1.00	3.53	32.37	64.32	0.70	1.00	2.37		
											2.90		
First	18.1	LKD	18.1.1-L	0.68	1.00	2.19	48.77	121.88	0.70	0.30	0.35	2.00	Below (M)
			18.1.1-U	0.68	1.00	4.09	34.41	121.88	0.70	1.00	1.54		
											1.89		
First	18.2	Bedroom	18.2.1-L	0.68	1.00	0.22	73.95	43.53	0.70	0.30	0.15	1.00	Above
			18.2.1-U	0.68	1.00	1.43	74.20	43.53	0.70	1.00	3.24		
											3.39		
First	18.3	Bedroom	18.3.1-L	0.68	1.00	0.37	76.37	59.98	0.70	0.30	0.19	1.00	Above
			18.3.1-U	0.68	1.00	2.42	76.37	59.98	0.70	1.00	4.10		
											4.29		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
First	19.1	LKD	19.1.1-L	0.68	1.00	0.84	32.20	118.95	0.70	0.30	0.09	2.00	Above
			19.1.1-U	0.68	1.00	1.57	26.04	118.95	0.70	1.00	0.46		
			19.1.2-L	0.68	1.00	0.37	78.99	118.95	0.70	0.30	0.10		
			19.1.2-U	0.68	1.00	2.42	78.92	118.95	0.70	1.00	2.14		
			19.1.3-L	0.68	1.00	0.22	66.19	118.95	0.70	0.30	0.05		
			19.1.3-U	0.68	1.00	1.43	65.82	118.95	0.70	1.00	1.05		
First	19.2	Bedroom	19.2.1-L	0.68	1.00	1.81	44.85	59.31	0.70	0.30	0.55	1.00	Above
			19.2.1-U	0.68	1.00	3.39	31.63	59.31	0.70	1.00	2.41		
											2.96		
First	20.1	LKD	20.1.1-L	0.68	1.00	0.37	67.11	116.60	0.70	0.30	0.08	2.00	Above
			20.1.1-U	0.68	1.00	2.42	66.68	116.60	0.70	1.00	1.84		
			20.1.2-L	0.68	1.00	1.74	34.21	116.60	0.70	0.30	0.20		
			20.1.2-U	0.68	1.00	3.27	22.12	116.60	0.70	1.00	0.83		
											2.96		
First	20.2	Bedroom	20.2.1-L	0.68	1.00	0.37	49.04	58.76	0.70	0.30	0.12	1.00	Above
			20.2.1-U	0.68	1.00	2.42	48.76	58.76	0.70	1.00	2.67		
											2.80		
First	20.3	Bedroom	20.3.1-L	0.68	1.00	0.37	49.91	62.81	0.70	0.30	0.12	1.00	Above
			20.3.1-U	0.68	1.00	2.42	49.67	62.81	0.70	1.00	2.55		
											2.67		
First	21.1	LKD	21.1.1-L	0.68	1.00	0.37	50.19	107.16	0.70	0.30	0.07	2.00	Above
			21.1.1-U	0.68	1.00	2.42	50.02	107.16	0.70	1.00	1.50		
			21.1.2-L	0.68	1.00	0.22	49.06	107.16	0.70	0.30	0.04		
			21.1.2-U	0.68	1.00	1.43	49.25	107.16	0.70	1.00	0.87		
			21.1.3-L	0.68	1.00	0.84	17.90	107.16	0.70	0.30	0.06		
			21.1.3-U	0.68	1.00	1.57	12.14	107.16	0.70	1.00	0.24		
											2.78		
First	21.2	Bedroom	21.2.1-L	0.68	1.00	0.71	25.55	45.33	0.70	0.30	0.16	1.00	Below
			21.2.1-U	0.68	1.00	1.38	5.15	45.33	0.70	1.00	0.21		
											0.37		
First	21.3	Bedroom	21.3.1-L	0.68	1.00	1.86	29.70	67.82	0.70	0.30	0.33	1.00	Below
			21.3.1-U	0.68	1.00	3.63	4.91	67.82	0.70	1.00	0.35		
											0.68		
First	22.1	LKD	22.1.1-L	0.68	1.00	0.87	25.99	99.30	0.70	0.30	0.09	2.00	Below (M)
			22.1.1-U	0.68	1.00	1.63	15.04	99.30	0.70	1.00	0.33		
			22.1.2-L	0.68	1.00	0.37	41.09	99.30	0.70	0.30	0.06		
			22.1.2-U	0.68	1.00	2.42	40.99	99.30	0.70	1.00	1.33		
											1.81		
First	22.2	Bedroom	22.2.1-L	0.68	1.00	1.74	27.47	64.32	0.70	0.30	0.30	1.00	Below
			22.2.1-U	0.68	1.00	3.40	4.31	64.32	0.70	1.00	0.30		
											0.60		
First	23.1	LKD	23.1.1-L	0.68	1.00	1.89	25.76	127.54	0.70	0.30	0.15	2.00	Below
			23.1.1-U	0.68	1.00	3.53	2.37	127.54	0.70	1.00	0.09		
											0.24		
First	23.2	Bedroom	23.2.1-L	0.68	1.00	0.37	48.64	64.84	0.70	0.30	0.11	1.00	Above
			23.2.1-U	0.68	1.00	2.42	50.32	64.84	0.70	1.00	2.50		
											2.61		
First	23.3	Bedroom	23.3.1-L	0.68	1.00	0.22	48.36	47.17	0.70	0.30	0.09	1.00	Above
			23.3.1-U	0.68	1.00	1.43	48.31	47.17	0.70	1.00	1.95		
											2.04		
First	23.4	Bedroom	23.4.1-L	0.68	1.00	0.22	34.80	46.28	0.70	0.30	0.07	1.00	Above
			23.4.1-U	0.68	1.00	1.43	32.49	46.28	0.70	1.00	1.34		
											1.40		
First	24.1	LKD	24.1.1-L	0.68	1.00	2.65	32.47	106.80	0.70	0.30	0.32	2.00	Below
			24.1.1-U	0.68	1.00	4.93	9.65	106.80	0.70	1.00	0.59		
											0.92		
First	24.2	Bedroom	24.2.1-L	0.68	1.00	0.37	53.19	58.78	0.70	0.30	0.13	1.00	Above
			24.2.1-U	0.68	1.00	2.42	53.27	58.78	0.70	1.00	2.92		
											3.05		
First	24.3	Bedroom	24.3.1-L	0.68	1.00	0.37	55.18	58.54	0.70	0.30	0.14	1.00	Above
			24.3.1-U	0.68	1.00	2.42	55.18	58.54	0.70	1.00	3.04		
											3.18		
First	25.1	LKD	25.1.1-L	0.68	1.00	0.84	24.37	113.85	0.70	0.30	0.07	2.00	Above
			25.1.1-U	0.68	1.00	1.57	13.00	113.85	0.70	1.00	0.24		
			25.1.2-L	0.68	1.00	0.37	60.62	113.85	0.70	0.30	0.08		
			25.1.2-U	0.68	1.00	2.42	60.48	113.85	0.70	1.00	1.71		
											2.10		
First	25.2	Bedroom	25.2.1-L	0.68	1.00	1.97	29.62	59.41	0.70	0.30	0.39	1.00	Above
			25.2.1-U	0.68	1.00	3.67	7.51	59.41	0.70	1.00	0.62		
											1.01		
First	26.1	Living Room	26.1.1-L	0.68	1.00	1.75	37.21	95.43	0.70	0.30	0.27	1.50	Below (M)
			26.1.1-U	0.68	1.00	3.27	22.48	95.43	0.70	1.00	1.03		
											1.30		
First	26.2	Kitchen-Resi	26.2.1-L	0.68	1.00	1.51	33.48	71.59	0.70	0.30	0.28	2.00	Below
			26.2.1-U	0.68	1.00	2.80	17.33	71.59	0.70	1.00	0.91		
											1.19		
First	26.3	Bedroom	26.3.1-L	0.68	1.00	0.37	62.88	60.71	0.70	0.30	0.15	1.00	Above
			26.3.1-U	0.68	1.00	2.42	62.56	60.71	0.70	1.00	3.32		
											3.47		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
First	26.4	Bedroom	26.4.1-L	0.68	1.00	0.22	62.58	47.55	0.70	0.30	0.11		
			26.4.1-U	0.68	1.00	1.43	62.58	47.55	0.70	1.00	2.50		
											2.62	1.00	Above
First	26.5	Bedroom	26.5.1-L	0.68	1.00	0.37	65.59	60.71	0.70	0.30	0.16		
			26.5.1-U	0.68	1.00	2.42	65.39	60.71	0.70	1.00	3.47		
											3.63	1.00	Above
First	27.1	LKD	27.1.1-L	0.68	1.00	0.37	67.50	104.21	0.70	0.30	0.09		
			27.1.1-U	0.68	1.00	2.42	68.72	104.21	0.70	1.00	2.13		
			27.1.2-L	0.68	1.00	0.84	39.25	104.21	0.70	0.30	0.13		
			27.1.2-U	0.68	1.00	1.57	30.15	104.21	0.70	1.00	0.61		
											2.95	2.00	Above
First	27.2	Bedroom	27.2.1-L	0.68	1.00	0.37	52.76	70.66	0.70	0.30	0.11		
			27.2.1-U	0.68	1.00	2.42	36.45	70.66	0.70	1.00	1.66		
			27.2.2	0.68	1.00	1.37	76.55	70.66	0.70	1.00	1.97		
											3.75	1.00	Above
First	27.3	Bedroom	1.2.1	0.68	1.00	1.37	75.76	44.91	0.70	1.00	3.07		
											3.07	1.00	Above
Second	1.1	LKD	1.1.1	0.68	1.00	1.37	80.22	108.58	0.70	1.00	1.35		
			1.1.2-L	0.68	1.00	1.28	44.21	108.58	0.70	0.30	0.21		
			1.1.2-U	0.68	1.00	2.38	29.66	108.58	0.70	1.00	0.87		
			1.1.3-L	0.68	1.00	1.17	43.78	108.58	0.70	0.30	0.19		
			1.1.3-U	0.68	1.00	2.18	29.09	108.58	0.70	1.00	0.78		
											3.39	2.00	Above
Second	1.3	Bedroom	1.3.1	0.68	1.00	1.37	80.25	44.82	0.70	1.00	3.26		
											3.26	1.00	Above
Second	1.4	Bedroom	1.4.1	0.68	1.00	1.37	81.41	62.85	0.70	1.00	2.36		
											2.36	1.00	Above
Second	2.1	LKD	2.1.1-L	0.68	1.00	2.12	51.54	101.12	0.70	0.30	0.43		
			2.1.1-U	0.68	1.00	3.95	35.81	101.12	0.70	1.00	1.86		
											2.30	2.00	Above
Second	2.2	Bedroom	2.2.1-L	0.68	1.00	0.37	83.93	52.70	0.70	0.30	0.23		
			2.2.1-U	0.68	1.00	2.42	82.26	52.70	0.70	1.00	5.03		
											5.27	1.00	Above
Second	2.3	Bedroom	2.3.1-L	0.68	1.00	0.37	84.09	60.02	0.70	0.30	0.21		
			2.3.1-U	0.68	1.00	2.42	79.22	60.02	0.70	1.00	4.25		
											4.46	1.00	Above
Second	3.1	LKD	3.1.1-L	0.68	1.00	2.80	46.52	104.23	0.70	0.30	0.50		
			3.1.1-U	0.68	1.00	5.21	30.37	104.23	0.70	1.00	2.03		
											2.52	2.00	Above
Second	3.2	Bedroom	3.2.1-L	0.68	1.00	0.39	83.58	58.48	0.70	0.30	0.22		
			3.2.1-U	0.68	1.00	2.56	82.12	58.48	0.70	1.00	4.79		
											5.01	1.00	Above
Second	3.3	Bedroom	3.3.1-L	0.68	1.00	0.47	84.40	74.24	0.70	0.30	0.22		
			3.3.1-U	0.68	1.00	3.12	82.81	74.24	0.70	1.00	4.65		
											4.86	1.00	Above
Second	4.1	LKD	4.1.1-L	0.68	1.00	2.57	52.58	105.91	0.70	0.30	0.51		
			4.1.1-U	0.68	1.00	4.82	36.32	105.91	0.70	1.00	2.20		
											2.72	2.00	Above
Second	4.2	Bedroom	4.2.1-L	0.68	1.00	0.43	82.93	59.48	0.70	0.30	0.24		
			4.2.1-U	0.68	1.00	2.84	78.60	59.48	0.70	1.00	5.01		
											5.25	1.00	Above
Second	4.3	Bedroom	4.3.1-L	0.68	1.00	0.43	82.61	59.48	0.70	0.30	0.24		
			4.3.1-U	0.68	1.00	2.84	78.44	59.48	0.70	1.00	5.00		
											5.24	1.00	Above
Second	5.1	LKD	5.1.1-L	0.68	1.00	2.65	46.11	106.83	0.70	0.30	0.46		
			5.1.1-U	0.68	1.00	4.93	29.13	106.83	0.70	1.00	1.79		
											2.25	2.00	Above
Second	5.2	Bedroom	5.2.1-L	0.68	1.00	0.41	81.69	58.54	0.70	0.30	0.23		
			5.2.1-U	0.68	1.00	2.70	77.98	58.54	0.70	1.00	4.80		
											5.02	1.00	Above
Second	5.3	Bedroom	5.3.1-L	0.68	1.00	0.43	81.95	58.78	0.70	0.30	0.24		
			5.3.1-U	0.68	1.00	2.84	78.15	58.78	0.70	1.00	5.04		
											5.28	1.00	Above
Second	6.1	LKD	6.1.1-L	0.68	1.00	0.84	37.81	99.58	0.70	0.30	0.13		
			6.1.1-U	0.68	1.00	1.57	31.11	99.58	0.70	1.00	0.65		
			6.1.2-L	0.68	1.00	0.60	84.38	99.58	0.70	0.30	0.20		
			6.1.2-U	0.68	1.00	3.97	82.99	99.58	0.70	1.00	4.42		
											5.40	2.00	Above
Second	6.2	Bedroom	6.2.1-L	0.68	1.00	1.89	47.95	66.02	0.70	0.30	0.55		
			6.2.1-U	0.68	1.00	3.53	33.86	66.02	0.70	1.00	2.41		
											2.96	1.00	Above
Second	7.1	LKD	7.1.1-L	0.68	1.00	2.12	56.15	105.72	0.70	0.30	0.45		
			7.1.1-U	0.68	1.00	3.95	38.34	105.72	0.70	1.00	1.91		
			7.1.2-L	0.68	1.00	0.71	76.44	105.72	0.70	0.30	0.21		
			7.1.2-U	0.68	1.00	4.68	77.86	105.72	0.70	1.00	4.60		
											7.16	2.00	Above
Second	7.2	Bedroom	7.2.1-L	0.68	1.00	0.60	83.73	63.76	0.70	0.30	0.32		
			7.2.1-U	0.68	1.00	3.97	79.06	63.76	0.70	1.00	6.57		
											6.89	1.00	Above
Second	7.3	Bedroom	7.3.1-L	0.68	1.00	0.39	72.13	46.91	0.70	0.30	0.24		
			7.3.1-U	0.68	1.00	2.56	73.25	46.91	0.70	1.00	5.33		
											5.57	1.00	Above

Appendix 8: ADF Results for Proposed Units														
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria	
Second	8.1	LKD	8.1.1-L	0.68	1.00	0.77	67.75	116.29	0.70	0.30	0.18	2.00	Above	
			8.1.1-U	0.68	1.00	5.11	65.74	116.29	0.70	1.00	3.85			
			8.1.2-L	0.68	1.00	0.84	35.28	116.29	0.70	0.30	0.10			
			8.1.2-U	0.68	1.00	1.57	26.80	116.29	0.70	1.00	0.48			
											4.61			
Second	8.2	Bedroom	8.2.1-L	0.68	1.00	0.37	37.63	62.60	0.70	0.30	0.09	1.00	Above	
			8.2.1-U	0.68	1.00	2.42	24.27	62.60	0.70	1.00	1.25			
											1.34			
Second	8.3	Bedroom	8.3.1-L	0.68	1.00	0.37	39.94	65.93	0.70	0.30	0.09	1.00	Above	
			8.3.1-U	0.68	1.00	2.42	25.93	65.93	0.70	1.00	1.27			
											1.36			
Second	9.1	LKD	9.1.1-L	0.68	1.00	0.76	65.37	113.20	0.70	0.30	0.18	2.00	Above	
			9.1.1-U	0.68	1.00	1.43	67.27	113.20	0.70	1.00	1.13			
			9.1.2-L	0.68	1.00	1.06	36.81	113.20	0.70	0.30	0.14			
			9.1.2-U	0.68	1.00	1.98	28.02	113.20	0.70	1.00	0.65			
											2.10			
Second	9.2	Bedroom	9.2.1-L	0.68	1.00	1.52	37.83	64.43	0.70	0.30	0.36	1.00	Above	
			9.2.1-U	0.68	1.00	2.82	23.30	64.43	0.70	1.00	1.36			
											1.72			
Second	10.1	LKD	10.1.1-L	0.68	1.00	0.76	68.96	110.55	0.70	0.30	0.19	2.00	Above	
			10.1.1-U	0.68	1.00	1.43	70.31	110.55	0.70	1.00	1.21			
			10.1.2-L	0.68	1.00	0.75	70.43	110.55	0.70	0.30	0.19			
			10.1.2-U	0.68	1.00	1.41	70.94	110.55	0.70	1.00	1.20			
			10.1.3-L	0.68	1.00	0.76	74.56	110.55	0.70	0.30	0.21			
			10.1.3-U	0.68	1.00	1.43	74.65	110.55	0.70	1.00	1.29			
			10.1.4-L	0.68	1.00	0.84	32.43	110.55	0.70	0.30	0.10			
			10.1.4-U	0.68	1.00	1.57	24.89	110.55	0.70	1.00	0.47			
											4.85			
Second	10.2	Bedroom	10.2.1-L	0.68	1.00	1.52	41.64	59.39	0.70	0.30	0.42	1.00	Above	
			10.2.1-U	0.68	1.00	2.82	27.68	59.39	0.70	1.00	1.75			
											2.18			
Second	11.1	LKD	11.1.1-L	0.68	1.00	0.76	76.21	126.24	0.70	0.30	0.18	2.00	Above	
			11.1.1-U	0.68	1.00	1.42	75.83	126.24	0.70	1.00	1.14			
			11.1.2-L	0.68	1.00	0.76	76.68	126.24	0.70	0.30	0.18			
			11.1.2-U	0.68	1.00	1.43	76.18	126.24	0.70	1.00	1.15			
			11.1.3-L	0.68	1.00	1.06	34.56	126.24	0.70	0.30	0.12			
			11.1.3-U	0.68	1.00	1.98	26.21	126.24	0.70	1.00	0.55			
											3.32			
Second	11.2	Bedroom	11.2.1-L	0.68	1.00	1.52	40.40	60.30	0.70	0.30	0.41	1.00	Above	
			11.2.1-U	0.68	1.00	2.82	26.26	60.30	0.70	1.00	1.64			
											2.05			
Second	11.3	Bedroom	11.3.1-L	0.68	1.00	0.37	55.12	59.03	0.70	0.30	0.14	1.00	Above	
			11.3.1-U	0.68	1.00	2.42	54.89	59.03	0.70	1.00	3.00			
											3.13			
Second	11.4	Bedroom	11.4.1-L	0.68	1.00	0.37	56.53	59.84	0.70	0.30	0.14	1.00	Above	
			11.4.1-U	0.68	1.00	2.42	56.26	59.84	0.70	1.00	3.03			
											3.17			
Second	12.1	LKD	12.1.1-L	0.68	1.00	2.35	56.23	127.07	0.70	0.30	0.42	2.00	Above	
			12.1.1-U	0.68	1.00	4.37	37.34	127.07	0.70	1.00	1.71			
			12.1.2-L	0.68	1.00	0.84	37.36	127.07	0.70	0.30	0.10			
			12.1.2-U	0.68	1.00	1.57	27.85	127.07	0.70	1.00	0.46			
			12.1.3-L	0.68	1.00	0.47	83.91	127.07	0.70	0.30	0.13			
			12.1.3-U	0.68	1.00	3.12	84.07	127.07	0.70	1.00	2.76			
											5.57			
Second	12.2	Bedroom	12.2.1-L	0.68	1.00	0.37	47.33	55.56	0.70	0.30	0.12	1.00	Above	
			12.2.1-U	0.68	1.00	2.42	47.21	55.56	0.70	1.00	2.74			
											2.86			
Second	12.3	Bedroom	12.3.1-L	0.68	1.00	0.37	51.98	65.45	0.70	0.30	0.12	1.00	Above	
			12.3.1-U	0.68	1.00	2.42	51.83	65.45	0.70	1.00	2.55			
											2.67			
Second	13.1	LKD	13.1.1-L	0.68	1.00	0.84	32.86	116.05	0.70	0.30	0.09	2.00	Above	
			13.1.1-U	0.68	1.00	1.56	22.49	116.05	0.70	1.00	0.40			
			13.1.2-L	0.68	1.00	0.41	83.86	116.05	0.70	0.30	0.12			
			13.1.2-U	0.68	1.00	2.70	81.76	116.05	0.70	1.00	2.54			
											3.15			
Second	13.2	Bedroom	13.2.1-L	0.68	1.00	1.52	40.05	70.79	0.70	0.30	0.34	1.00	Above	
			13.2.1-U	0.68	1.00	2.82	24.31	70.79	0.70	1.00	1.29			
											1.64			
Second	14.1	LKD	14.1.1-L	0.68	1.00	1.01	36.68	126.42	0.70	0.30	0.12	2.00	Above	
			14.1.1-U	0.68	1.00	1.89	28.34	126.42	0.70	1.00	0.56			
			14.1.2-L	0.68	1.00	0.43	83.22	126.42	0.70	0.30	0.11			
			14.1.2-U	0.68	1.00	2.84	78.02	126.42	0.70	1.00	2.34			
			14.1.3-L	0.68	1.00	0.47	83.41	126.42	0.70	0.30	0.12			
			14.1.3-U	0.68	1.00	3.12	78.13	126.42	0.70	1.00	2.57			
											5.83			
Second	14.2	Bedroom	14.2.1-L	0.68	1.00	1.82	52.39	60.18	0.70	0.30	0.63	1.00	Above	
			14.2.1-U	0.68	1.00	3.39	35.90	60.18	0.70	1.00	2.69			
											3.33			
Second	14.3	Bedroom	14.3.1-L	0.68	1.00	0.87	45.68	58.64	0.70	0.30	0.27	1.00	Above	
			14.3.1-U	0.68	1.00	1.63	31.22	58.64	0.70	1.00	1.15			
											1.42			

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Second	23.1	LKD	23.1.1-L	0.68	1.00	1.89	30.44	127.54	0.70	0.30	0.18		
			23.1.1-U	0.68	1.00	3.53	8.06	127.54	0.70	1.00	0.30		
											0.48	2.00	Below
Second	23.2	Bedroom	23.2.1-L	0.68	1.00	0.37	55.40	64.84	0.70	0.30	0.13		
			23.2.1-U	0.68	1.00	2.42	55.04	64.84	0.70	1.00	2.74		
											2.86	1.00	Above
Second	23.3	Bedroom	23.3.1-L	0.68	1.00	0.22	50.64	47.17	0.70	0.30	0.09		
			23.3.1-U	0.68	1.00	1.43	50.43	47.17	0.70	1.00	2.03		
											2.13	1.00	Above
Second	23.4	Bedroom	23.4.1-L	0.68	1.00	0.22	38.64	46.28	0.70	0.30	0.07		
			23.4.1-U	0.68	1.00	1.43	35.57	46.28	0.70	1.00	1.46		
											1.53	1.00	Above
Second	24.1	LKD	24.1.1-L	0.68	1.00	2.65	37.42	106.80	0.70	0.30	0.37		
			24.1.1-U	0.68	1.00	4.93	14.98	106.80	0.70	1.00	0.92		
											1.29	2.00	Below
Second	24.2	Bedroom	24.2.1-L	0.68	1.00	0.37	58.80	58.78	0.70	0.30	0.15		
			24.2.1-U	0.68	1.00	2.42	58.82	58.78	0.70	1.00	3.23		
											3.37	1.00	Above
Second	24.3	Bedroom	24.3.1-L	0.68	1.00	0.37	60.76	58.54	0.70	0.30	0.15		
			24.3.1-U	0.68	1.00	2.42	60.69	58.54	0.70	1.00	3.34		
											3.49	1.00	Above
Second	25.1	LKD	25.1.1-L	0.68	1.00	0.84	27.14	113.85	0.70	0.30	0.08		
			25.1.1-U	0.68	1.00	1.57	16.58	113.85	0.70	1.00	0.30		
			25.1.2-L	0.68	1.00	0.37	65.89	113.85	0.70	0.30	0.08		
			25.1.2-U	0.68	1.00	2.42	65.43	113.85	0.70	1.00	1.85		
											2.32	2.00	Above
Second	25.2	Bedroom	25.2.1-L	0.68	1.00	1.97	34.15	59.41	0.70	0.30	0.45		
			25.2.1-U	0.68	1.00	3.67	13.13	59.41	0.70	1.00	1.08		
											1.53	1.00	Above
Second	26.1	Living Room	26.1.1-L	0.68	1.00	1.75	41.00	95.43	0.70	0.30	0.30		
			26.1.1-U	0.68	1.00	3.27	24.29	95.43	0.70	1.00	1.11		
											1.41	1.50	Below (M)
Second	26.2	Kitchen-Resi	26.2.1-L	0.68	1.00	1.51	37.05	71.59	0.70	0.30	0.31		
			26.2.1-U	0.68	1.00	2.80	19.77	71.59	0.70	1.00	1.03		
											1.34	2.00	Below
Second	26.3	Bedroom	26.3.1-L	0.68	1.00	0.37	67.73	60.71	0.70	0.30	0.16		
			26.3.1-U	0.68	1.00	2.42	67.11	60.71	0.70	1.00	3.56		
											3.73	1.00	Above
Second	26.4	Bedroom	26.4.1-L	0.68	1.00	0.22	66.91	47.55	0.70	0.30	0.12		
			26.4.1-U	0.68	1.00	1.43	66.62	47.55	0.70	1.00	2.67		
											2.79	1.00	Above
Second	26.5	Bedroom	26.5.1-L	0.68	1.00	0.37	70.11	60.71	0.70	0.30	0.17		
			26.5.1-U	0.68	1.00	2.42	69.30	60.71	0.70	1.00	3.68		
											3.85	1.00	Above
Second	27.1	LKD	27.1.1-L	0.68	1.00	0.37	71.92	104.21	0.70	0.30	0.10		
			27.1.1-U	0.68	1.00	2.42	71.03	104.21	0.70	1.00	2.20		
			27.1.2-L	0.68	1.00	0.84	41.64	104.21	0.70	0.30	0.13		
			27.1.2-U	0.68	1.00	1.57	30.88	104.21	0.70	1.00	0.62		
											3.05	2.00	Above
Second	27.2	Bedroom	27.2.1-L	0.68	1.00	0.37	54.37	70.66	0.70	0.30	0.11		
			27.2.1-U	0.68	1.00	2.42	37.69	70.66	0.70	1.00	1.72		
			27.2.2	0.68	1.00	1.37	80.24	70.66	0.70	1.00	2.07		
											3.90	1.00	Above
Second	27.3	Bedroom	1.2.1	0.68	1.00	1.37	80.22	44.91	0.70	1.00	3.25		
											3.25	1.00	Above
Third	1.1	LKD	1.1.1	0.68	1.00	1.37	81.26	108.58	0.70	1.00	1.36		
			1.1.2-L	0.68	1.00	1.28	37.45	108.58	0.70	0.30	0.18		
			1.1.2-U	0.68	1.00	2.38	22.23	108.58	0.70	1.00	0.65		
			1.1.3-L	0.68	1.00	1.17	37.70	108.58	0.70	0.30	0.16		
			1.1.3-U	0.68	1.00	2.18	22.37	108.58	0.70	1.00	0.60		
											2.95	2.00	Above
Third	1.3	Bedroom	1.3.1	0.68	1.00	1.37	81.27	44.82	0.70	1.00	3.30		
											3.30	1.00	Above
Third	1.4	Bedroom	1.4.1	0.68	1.00	1.37	81.68	62.85	0.70	1.00	2.37		
											2.37	1.00	Above
Third	2.1	LKD	2.1.1-L	0.68	1.00	2.12	51.66	101.12	0.70	0.30	0.43		
			2.1.1-U	0.68	1.00	3.95	35.85	101.12	0.70	1.00	1.87		
											2.30	2.00	Above
Third	2.2	Bedroom	2.2.1-L	0.68	1.00	0.37	84.11	52.70	0.70	0.30	0.23		
			2.2.1-U	0.68	1.00	2.42	79.17	52.70	0.70	1.00	4.84		
											5.08	1.00	Above
Third	2.3	Bedroom	2.3.1-L	0.68	1.00	0.37	84.11	60.02	0.70	0.30	0.21		
			2.3.1-U	0.68	1.00	2.42	79.17	60.02	0.70	1.00	4.25		
											4.46	1.00	Above
Third	3.1	LKD	3.1.1-L	0.68	1.00	2.80	51.18	104.23	0.70	0.30	0.55		
			3.1.1-U	0.68	1.00	5.21	37.67	104.23	0.70	1.00	2.51		
											3.06	2.00	Above
Third	3.2	Bedroom	3.2.1-L	0.68	1.00	0.39	85.10	58.48	0.70	0.30	0.23		
			3.2.1-U	0.68	1.00	2.56	82.98	58.48	0.70	1.00	4.84		
											5.07	1.00	Above

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Third	3.3	Bedroom	3.3.1-L	0.68	1.00	0.47	85.47	74.24	0.70	0.30	0.22	1.00	Above
			3.3.1-U	0.68	1.00	3.12	79.98	74.24	0.70	1.00	4.49		
											4.71		
Third	4.1	LKD	4.1.1-L	0.68	1.00	2.57	54.56	105.91	0.70	0.30	0.53	2.00	Above
			4.1.1-U	0.68	1.00	4.82	37.49	105.91	0.70	1.00	2.28		
											2.81		
Third	4.2	Bedroom	4.2.1-L	0.68	1.00	0.43	85.02	59.48	0.70	0.30	0.25	1.00	Above
			4.2.1-U	0.68	1.00	2.84	79.73	59.48	0.70	1.00	5.08		
											5.33		
Third	4.3	Bedroom	4.3.1-L	0.68	1.00	0.43	85.75	59.48	0.70	0.30	0.25	1.00	Above
			4.3.1-U	0.68	1.00	2.84	83.49	59.48	0.70	1.00	5.32		
											5.57		
Third	5.1	LKD	5.1.1-L	0.68	1.00	2.65	50.96	106.83	0.70	0.30	0.51	2.00	Above
			5.1.1-U	0.68	1.00	4.93	37.39	106.83	0.70	1.00	2.30		
											2.81		
Third	5.2	Bedroom	5.2.1-L	0.68	1.00	0.41	86.39	58.54	0.70	0.30	0.24	1.00	Above
			5.2.1-U	0.68	1.00	2.70	83.94	58.54	0.70	1.00	5.16		
											5.40		
Third	5.3	Bedroom	5.3.1-L	0.68	1.00	0.43	86.51	58.78	0.70	0.30	0.25	1.00	Above
			5.3.1-U	0.68	1.00	2.84	84.03	58.78	0.70	1.00	5.42		
											5.67		
Third	6.1	LKD	6.1.1-L	0.68	1.00	0.84	38.34	99.58	0.70	0.30	0.13	2.00	Above
			6.1.1-U	0.68	1.00	1.57	31.38	99.58	0.70	1.00	0.66		
			6.1.2-L	0.68	1.00	0.60	86.32	99.58	0.70	0.30	0.21		
			6.1.2-U	0.68	1.00	3.97	80.44	99.58	0.70	1.00	4.28		
											5.28		
Third	6.2	Bedroom	6.2.1-L	0.68	1.00	1.89	50.04	66.02	0.70	0.30	0.57	1.00	Above
			6.2.1-U	0.68	1.00	3.53	35.08	66.02	0.70	1.00	2.50		
											3.07		
Third	7.1	LKD	7.1.1-L	0.68	1.00	2.12	57.18	105.72	0.70	0.30	0.46	2.00	Above
			7.1.1-U	0.68	1.00	3.95	38.98	105.72	0.70	1.00	1.94		
			7.1.2-L	0.68	1.00	0.71	82.33	105.72	0.70	0.30	0.22		
			7.1.2-U	0.68	1.00	4.68	81.42	105.72	0.70	1.00	4.81		
											7.43		
Third	7.2	Bedroom	7.2.1-L	0.68	1.00	0.60	86.93	63.76	0.70	0.30	0.33	1.00	Above
			7.2.1-U	0.68	1.00	3.97	84.33	63.76	0.70	1.00	7.01		
											7.34		
Third	7.3	Bedroom	7.3.1-L	0.68	1.00	0.39	79.13	46.91	0.70	0.30	0.26	1.00	Above
			7.3.1-U	0.68	1.00	2.56	77.69	46.91	0.70	1.00	5.65		
											5.91		
Third	8.1	LKD	8.1.1-L	0.68	1.00	0.77	78.27	116.29	0.70	0.30	0.21	2.00	Above
			8.1.1-U	0.68	1.00	5.11	78.77	116.29	0.70	1.00	4.61		
			8.1.2-L	0.68	1.00	0.84	37.94	116.29	0.70	0.30	0.11		
			8.1.2-U	0.68	1.00	1.57	29.79	116.29	0.70	1.00	0.54		
											5.46		
Third	8.2	Bedroom	8.2.1-L	0.68	1.00	0.37	43.50	62.60	0.70	0.30	0.10	1.00	Above
			8.2.1-U	0.68	1.00	2.42	31.47	62.60	0.70	1.00	1.62		
											1.72		
Third	8.3	Bedroom	8.3.1-L	0.68	1.00	0.37	46.16	65.93	0.70	0.30	0.10	1.00	Above
			8.3.1-U	0.68	1.00	2.42	33.45	65.93	0.70	1.00	1.64		
											1.74		
Third	9.1	LKD	9.1.1-L	0.68	1.00	0.76	74.34	113.20	0.70	0.30	0.20	2.00	Above
			9.1.1-U	0.68	1.00	1.43	76.02	113.20	0.70	1.00	1.28		
			9.1.2-L	0.68	1.00	1.06	39.06	113.20	0.70	0.30	0.15		
			9.1.2-U	0.68	1.00	1.98	30.46	113.20	0.70	1.00	0.71		
											2.34		
Third	9.2	Bedroom	9.2.1-L	0.68	1.00	1.52	43.55	64.43	0.70	0.30	0.41	1.00	Above
			9.2.1-U	0.68	1.00	2.82	30.51	64.43	0.70	1.00	1.78		
											2.19		
Third	10.1	LKD	10.1.1-L	0.68	1.00	0.76	76.41	110.55	0.70	0.30	0.21	2.00	Above
			10.1.1-U	0.68	1.00	1.43	77.23	110.55	0.70	1.00	1.33		
			10.1.2-L	0.68	1.00	0.75	76.15	110.55	0.70	0.30	0.21		
			10.1.2-U	0.68	1.00	1.41	76.16	110.55	0.70	1.00	1.29		
			10.1.3-L	0.68	1.00	0.76	79.07	110.55	0.70	0.30	0.22		
			10.1.3-U	0.68	1.00	1.43	78.65	110.55	0.70	1.00	1.35		
			10.1.4-L	0.68	1.00	0.84	32.59	110.55	0.70	0.30	0.10		
			10.1.4-U	0.68	1.00	1.57	25.05	110.55	0.70	1.00	0.47		
											5.18		
Third	10.2	Bedroom	10.2.1-L	0.68	1.00	1.52	42.85	59.39	0.70	0.30	0.44	1.00	Above
			10.2.1-U	0.68	1.00	2.82	28.91	59.39	0.70	1.00	1.83		
											2.27		
Third	11.1	LKD	11.1.1-L	0.68	1.00	0.76	78.67	126.24	0.70	0.30	0.19	2.00	Above
			11.1.1-U	0.68	1.00	1.42	77.84	126.24	0.70	1.00	1.17		
			11.1.2-L	0.68	1.00	0.76	78.90	126.24	0.70	0.30	0.19		
			11.1.2-U	0.68	1.00	1.43	78.01	126.24	0.70	1.00	1.18		
			11.1.3-L	0.68	1.00	1.06	34.62	126.24	0.70	0.30	0.12		
			11.1.3-U	0.68	1.00	1.98	26.28	126.24	0.70	1.00	0.55		
											3.39		
Third	11.2	Bedroom	11.2.1-L	0.68	1.00	1.52	41.59	60.30	0.70	0.30	0.42	1.00	Above
			11.2.1-U	0.68	1.00	2.82	27.57	60.30	0.70	1.00	1.72		
											2.14		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Third	11.3	Bedroom	11.3.1-L	0.68	1.00	0.37	60.32	59.03	0.70	0.30	0.15	1.00	Above
			11.3.1-U	0.68	1.00	2.42	60.22	59.03	0.70	1.00	3.29		
											3.44		
Third	11.4	Bedroom	11.4.1-L	0.68	1.00	0.37	61.85	59.84	0.70	0.30	0.15	1.00	Above
			11.4.1-U	0.68	1.00	2.42	61.72	59.84	0.70	1.00	3.32		
											3.48		
Third	12.1	LKD	12.1.1-L	0.68	1.00	2.35	57.45	127.07	0.70	0.30	0.42	2.00	Above
			12.1.1-U	0.68	1.00	4.37	38.56	127.07	0.70	1.00	1.77		
			12.1.2-L	0.68	1.00	0.84	38.84	127.07	0.70	0.30	0.10		
			12.1.2-U	0.68	1.00	1.57	29.52	127.07	0.70	1.00	0.49		
			12.1.3-L	0.68	1.00	0.47	85.30	127.07	0.70	0.30	0.13		
			12.1.3-U	0.68	1.00	3.12	82.99	127.07	0.70	1.00	2.72		
											5.63		
Third	12.2	Bedroom	12.2.1-L	0.68	1.00	0.37	51.33	55.56	0.70	0.30	0.14	1.00	Above
			12.2.1-U	0.68	1.00	2.42	51.36	55.56	0.70	1.00	2.98		
											3.11		
Third	12.3	Bedroom	12.3.1-L	0.68	1.00	0.37	56.77	65.45	0.70	0.30	0.13	1.00	Above
			12.3.1-U	0.68	1.00	2.42	56.75	65.45	0.70	1.00	2.79		
											2.92		
Third	13.1	LKD	13.1.1-L	0.68	1.00	0.84	34.11	116.05	0.70	0.30	0.10	2.00	Above
			13.1.1-U	0.68	1.00	1.56	30.28	116.05	0.70	1.00	0.54		
			13.1.2-L	0.68	1.00	0.41	86.15	116.05	0.70	0.30	0.12		
			13.1.2-U	0.68	1.00	2.70	85.97	116.05	0.70	1.00	2.67		
											3.43		
Third	13.2	Bedroom	13.2.1-L	0.68	1.00	1.52	42.98	70.79	0.70	0.30	0.37	1.00	Above
			13.2.1-U	0.68	1.00	2.82	30.61	70.79	0.70	1.00	1.63		
											2.00		
Third	14.1	LKD	14.1.1-L	0.68	1.00	1.01	37.51	126.42	0.70	0.30	0.12	2.00	Above
			14.1.1-U	0.68	1.00	1.89	29.22	126.42	0.70	1.00	0.58		
			14.1.2-L	0.68	1.00	0.43	84.06	126.42	0.70	0.30	0.11		
			14.1.2-U	0.68	1.00	2.84	82.12	126.42	0.70	1.00	2.46		
			14.1.3-L	0.68	1.00	0.47	83.85	126.42	0.70	0.30	0.13		
			14.1.3-U	0.68	1.00	3.12	78.75	126.42	0.70	1.00	2.59		
											5.99		
Third	14.2	Bedroom	14.2.1-L	0.68	1.00	1.82	52.85	60.18	0.70	0.30	0.64	1.00	Above
			14.2.1-U	0.68	1.00	3.39	36.35	60.18	0.70	1.00	2.73		
											3.37		
Third	14.3	Bedroom	14.3.1-L	0.68	1.00	0.87	46.53	58.64	0.70	0.30	0.28	1.00	Above
			14.3.1-U	0.68	1.00	1.63	32.12	58.64	0.70	1.00	1.19		
											1.46		
Third	15.1	LKD	15.1.1-L	0.68	1.00	0.47	86.28	110.53	0.70	0.30	0.15	2.00	Above
			15.1.1-U	0.68	1.00	3.12	86.10	110.53	0.70	1.00	3.25		
			15.1.2-L	0.68	1.00	0.76	42.33	110.53	0.70	0.30	0.12		
			15.1.2-U	0.68	1.00	1.56	33.50	110.53	0.70	1.00	0.63		
											4.14		
Third	15.2	Bedroom	15.2.1-L	0.68	1.00	2.04	55.07	59.66	0.70	0.30	0.75	1.00	Above
			15.2.1-U	0.68	1.00	3.80	36.74	59.66	0.70	1.00	3.12		
											3.87		
Third	15.3	Bedroom	15.3.1-L	0.68	1.00	0.01	24.27	37.89	0.70	0.30	0.00	1.00	Above
			15.3.1-U	0.68	1.00	1.43	21.10	37.89	0.70	1.00	1.06		
											1.06		
Third	16.1	LKD	16.1.1	0.68	1.00	1.37	78.78	102.26	0.70	1.00	1.40	2.00	Above
			16.1.2-L	0.68	1.00	1.10	47.98	102.26	0.70	0.30	0.21		
			16.1.2-U	0.68	1.00	2.05	35.11	102.26	0.70	1.00	0.94		
			16.1.3-L	0.68	1.00	1.93	56.98	102.26	0.70	0.30	0.43		
			16.1.3-U	0.68	1.00	3.60	39.07	102.26	0.70	1.00	1.83		
			16.1.4	0.68	1.00	1.38	81.65	102.26	0.70	1.00	1.46		
											6.27		
Third	16.2	Bedroom	16.2.1	0.68	1.00	1.37	81.62	58.74	0.70	1.00	2.53	1.00	Above
			16.2.2-L	0.68	1.00	0.22	73.98	58.74	0.70	0.30	0.11		
			16.2.2-U	0.68	1.00	1.43	73.16	58.74	0.70	1.00	2.37		
											5.01		
Third	17.1	LKD	17.1.1-L	0.68	1.00	0.37	61.12	99.30	0.70	0.30	0.09	2.00	Above
			17.1.1-U	0.68	1.00	2.42	60.32	99.30	0.70	1.00	1.96		
			17.1.2-L	0.68	1.00	0.94	39.47	99.30	0.70	0.30	0.15		
			17.1.2-U	0.68	1.00	1.75	31.03	99.30	0.70	1.00	0.73		
											2.93		
Third	17.2	Bedroom	17.2.1-L	0.68	1.00	1.89	48.05	64.32	0.70	0.30	0.57	1.00	Above
			17.2.1-U	0.68	1.00	3.53	33.08	64.32	0.70	1.00	2.42		
											2.98		
Third	18.1	LKD	18.1.1-L	0.68	1.00	2.19	52.00	121.88	0.70	0.30	0.37	2.00	Below (M)
			18.1.1-U	0.68	1.00	4.09	35.45	121.88	0.70	1.00	1.59		
											1.96		
Third	18.2	Bedroom	18.2.1-L	0.68	1.00	0.22	79.55	43.53	0.70	0.30	0.16	1.00	Above
			18.2.1-U	0.68	1.00	1.43	78.26	43.53	0.70	1.00	3.42		
											3.58		
Third	18.3	Bedroom	18.3.1-L	0.68	1.00	0.37	82.97	59.98	0.70	0.30	0.20	1.00	Above
			18.3.1-U	0.68	1.00	2.42	80.98	59.98	0.70	1.00	4.35		
											4.55		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Third	19.1	LKD	19.1.1-L	0.68	1.00	0.84	38.03	118.95	0.70	0.30	0.11	2.00	Above
			19.1.1-U	0.68	1.00	1.57	37.42	118.95	0.70	1.00	0.66		
			19.1.2-L	0.68	1.00	0.37	85.20	118.95	0.70	0.30	0.10		
			19.1.2-U	0.68	1.00	2.42	82.92	118.95	0.70	1.00	2.25		
			19.1.3-L	0.68	1.00	0.22	73.98	118.95	0.70	0.30	0.05		
			19.1.3-U	0.68	1.00	1.43	74.58	118.95	0.70	1.00	1.19		
Third	19.2	Bedroom	19.2.1-L	0.68	1.00	1.81	57.75	59.31	0.70	0.30	0.70	1.00	Above
			19.2.1-U	0.68	1.00	3.39	55.95	59.31	0.70	1.00	4.26		
											4.97		
Third	20.1	LKD	20.1.1-L	0.68	1.00	0.37	75.28	116.60	0.70	0.30	0.09	2.00	Above
			20.1.1-U	0.68	1.00	2.42	74.21	116.60	0.70	1.00	2.05		
			20.1.2-L	0.68	1.00	1.74	32.08	116.60	0.70	0.30	0.19		
			20.1.2-U	0.68	1.00	3.27	18.39	116.60	0.70	1.00	0.69		
											3.02		
Third	20.2	Bedroom	20.2.1-L	0.68	1.00	0.37	60.47	58.76	0.70	0.30	0.15	1.00	Above
			20.2.1-U	0.68	1.00	2.42	60.55	58.76	0.70	1.00	3.32		
											3.47		
Third	20.3	Bedroom	20.3.1-L	0.68	1.00	0.37	61.50	62.81	0.70	0.30	0.14	1.00	Above
			20.3.1-U	0.68	1.00	2.42	61.57	62.81	0.70	1.00	3.16		
											3.30		
Third	21.1	LKD	21.1.1-L	0.68	1.00	0.37	62.03	107.16	0.70	0.30	0.08	2.00	Above
			21.1.1-U	0.68	1.00	2.42	62.13	107.16	0.70	1.00	1.87		
			21.1.2-L	0.68	1.00	0.22	60.64	107.16	0.70	0.30	0.05		
			21.1.2-U	0.68	1.00	1.43	61.14	107.16	0.70	1.00	1.09		
			21.1.3-L	0.68	1.00	0.84	24.16	107.16	0.70	0.30	0.08		
			21.1.3-U	0.68	1.00	1.57	18.75	107.16	0.70	1.00	0.37		
											3.53		
Third	21.2	Bedroom	21.2.1-L	0.68	1.00	0.71	33.65	45.33	0.70	0.30	0.21	1.00	Below (M)
			21.2.1-U	0.68	1.00	1.38	18.30	45.33	0.70	1.00	0.75		
											0.96		
Third	21.3	Bedroom	21.3.1-L	0.68	1.00	1.86	39.83	67.82	0.70	0.30	0.44	1.00	Above
			21.3.1-U	0.68	1.00	3.63	19.47	67.82	0.70	1.00	1.39		
											1.83		
Third	22.1	LKD	22.1.1-L	0.68	1.00	0.87	30.94	99.30	0.70	0.30	0.11	2.00	Above
			22.1.1-U	0.68	1.00	1.63	21.48	99.30	0.70	1.00	0.47		
			22.1.2-L	0.68	1.00	0.37	49.56	99.30	0.70	0.30	0.07		
			22.1.2-U	0.68	1.00	2.42	49.74	99.30	0.70	1.00	1.61		
											2.27		
Third	22.2	Bedroom	22.2.1-L	0.68	1.00	1.74	36.34	64.32	0.70	0.30	0.39	1.00	Above
			22.2.1-U	0.68	1.00	3.40	18.37	64.32	0.70	1.00	1.30		
											1.69		
Third	23.1	LKD	23.1.1-L	0.68	1.00	1.89	35.05	127.54	0.70	0.30	0.21	2.00	Below
			23.1.1-U	0.68	1.00	3.53	16.63	127.54	0.70	1.00	0.61		
											0.82		
Third	23.2	Bedroom	23.2.1-L	0.68	1.00	0.37	58.99	64.84	0.70	0.30	0.13	1.00	Above
			23.2.1-U	0.68	1.00	2.42	58.65	64.84	0.70	1.00	2.92		
											3.05		
Third	23.3	Bedroom	23.3.1-L	0.68	1.00	0.22	52.84	47.17	0.70	0.30	0.10	1.00	Above
			23.3.1-U	0.68	1.00	1.43	52.45	47.17	0.70	1.00	2.12		
											2.21		
Third	23.4	Bedroom	23.4.1-L	0.68	1.00	0.22	42.34	46.28	0.70	0.30	0.08	1.00	Above
			23.4.1-U	0.68	1.00	1.43	39.13	46.28	0.70	1.00	1.61		
											1.69		
Third	24.1	LKD	24.1.1-L	0.68	1.00	2.65	41.82	106.80	0.70	0.30	0.41	2.00	Below (M)
			24.1.1-U	0.68	1.00	4.93	21.94	106.80	0.70	1.00	1.35		
											1.77		
Third	24.2	Bedroom	24.2.1-L	0.68	1.00	0.37	64.74	58.78	0.70	0.30	0.16	1.00	Above
			24.2.1-U	0.68	1.00	2.42	64.80	58.78	0.70	1.00	3.55		
											3.71		
Third	24.3	Bedroom	24.3.1-L	0.68	1.00	0.37	66.66	58.54	0.70	0.30	0.17	1.00	Above
			24.3.1-U	0.68	1.00	2.42	66.60	58.54	0.70	1.00	3.67		
											3.83		
Third	25.1	LKD	25.1.1-L	0.68	1.00	0.84	29.77	113.85	0.70	0.30	0.09	2.00	Above
			25.1.1-U	0.68	1.00	1.57	20.20	113.85	0.70	1.00	0.37		
			25.1.2-L	0.68	1.00	0.37	70.87	113.85	0.70	0.30	0.09		
			25.1.2-U	0.68	1.00	2.42	70.39	113.85	0.70	1.00	1.99		
											2.54		
Third	25.2	Bedroom	25.2.1-L	0.68	1.00	1.97	38.34	59.41	0.70	0.30	0.51	1.00	Above
			25.2.1-U	0.68	1.00	3.67	19.95	59.41	0.70	1.00	1.64		
											2.15		
Third	26.1	Living Room	26.1.1-L	0.68	1.00	1.75	42.98	95.43	0.70	0.30	0.32	1.50	Above
			26.1.1-U	0.68	1.00	3.27	26.43	95.43	0.70	1.00	1.21		
											1.52		
Third	26.2	Kitchen-Resi	26.2.1-L	0.68	1.00	1.51	39.64	71.59	0.70	0.30	0.33	2.00	Below
			26.2.1-U	0.68	1.00	2.80	23.08	71.59	0.70	1.00	1.21		
											1.54		
Third	26.3	Bedroom	26.3.1-L	0.68	1.00	0.37	72.27	60.71	0.70	0.30	0.17	1.00	Above
			26.3.1-U	0.68	1.00	2.42	71.63	60.71	0.70	1.00	3.80		
											3.98		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Third	26.4	Bedroom	26.4.1-L	0.68	1.00	0.22	70.94	47.55	0.70	0.30	0.13	1.00	Above
			26.4.1-U	0.68	1.00	1.43	70.63	47.55	0.70	1.00	2.83		
Third	26.5	Bedroom	26.5.1-L	0.68	1.00	0.37	73.98	60.71	0.70	0.30	0.18	1.00	Above
			26.5.1-U	0.68	1.00	2.42	73.12	60.71	0.70	1.00	3.88		
Third	27.1	LKD	27.1.1-L	0.68	1.00	0.37	73.71	104.21	0.70	0.30	0.10	2.00	Above
			27.1.1-U	0.68	1.00	2.42	72.78	104.21	0.70	1.00	2.25		
Third	27.2	Bedroom	27.2.1-L	0.68	1.00	0.84	35.11	104.21	0.70	0.30	0.11	1.00	Above
			27.2.1-U	0.68	1.00	1.57	21.72	104.21	0.70	1.00	0.44		
Third	27.3	Bedroom	27.3.1-L	0.68	1.00	0.37	73.98	60.71	0.70	0.30	0.09	1.00	Above
			27.3.1-U	0.68	1.00	2.42	73.12	60.71	0.70	1.00	2.10		
Fourth	1.1	LKD	1.1.1-L	0.68	1.00	0.84	42.74	128.37	0.70	0.30	0.11	2.00	Above
			1.1.1-U	0.68	1.00	1.57	31.53	128.37	0.70	1.00	0.51		
Fourth	1.2	Bedroom	1.2.1-L	0.68	1.00	0.37	85.81	128.37	0.70	0.30	0.10	1.00	Above
			1.2.1-U	0.68	1.00	2.42	83.49	128.37	0.70	1.00	2.10		
Fourth	1.3	Bedroom	1.3.1-L	0.68	1.00	0.37	85.81	128.37	0.70	0.30	0.10	1.00	Above
			1.3.1-U	0.68	1.00	2.42	83.49	128.37	0.70	1.00	2.10		
Fourth	1.4	Bedroom	1.4.1-L	0.68	1.00	0.22	83.07	48.56	0.70	0.30	0.15	1.00	Above
			1.4.1-U	0.68	1.00	1.43	81.52	48.56	0.70	1.00	3.19		
Fourth	1.5	Bedroom	1.5.1-L	0.68	1.00	2.12	58.27	60.16	0.70	0.30	0.82	1.00	Above
			1.5.1-U	0.68	1.00	3.95	40.39	60.16	0.70	1.00	3.53		
Fourth	2.1	LKD	2.1.1-L	0.68	1.00	2.80	49.53	104.23	0.70	0.30	0.53	2.00	Above
			2.1.1-U	0.68	1.00	5.21	30.64	104.23	0.70	1.00	2.04		
Fourth	2.2	Bedroom	2.2.1-L	0.68	1.00	0.39	85.11	58.48	0.70	0.30	0.23	1.00	Above
			2.2.1-U	0.68	1.00	2.56	82.98	58.48	0.70	1.00	4.84		
Fourth	2.3	Bedroom	2.3.1-L	0.68	1.00	0.47	85.49	74.24	0.70	0.30	0.22	1.00	Above
			2.3.1-U	0.68	1.00	3.12	79.98	74.24	0.70	1.00	4.49		
Fourth	3.1	LKD	3.1.1-L	0.68	1.00	2.57	54.60	105.91	0.70	0.30	0.53	2.00	Above
			3.1.1-U	0.68	1.00	4.82	37.49	105.91	0.70	1.00	2.28		
Fourth	3.2	Bedroom	3.2.1-L	0.68	1.00	0.43	85.78	59.48	0.70	0.30	0.25	1.00	Above
			3.2.1-U	0.68	1.00	2.84	83.49	59.48	0.70	1.00	5.32		
Fourth	3.3	Bedroom	3.3.1-L	0.68	1.00	0.43	85.05	59.48	0.70	0.30	0.25	1.00	Above
			3.3.1-U	0.68	1.00	2.84	79.73	59.48	0.70	1.00	5.08		
Fourth	4.1	LKD	4.1.1-L	0.68	1.00	2.65	49.52	106.83	0.70	0.30	0.49	2.00	Above
			4.1.1-U	0.68	1.00	4.93	30.63	106.83	0.70	1.00	1.89		
Fourth	4.2	Bedroom	4.2.1-L	0.68	1.00	0.41	85.62	58.54	0.70	0.30	0.24	1.00	Above
			4.2.1-U	0.68	1.00	2.70	80.03	58.54	0.70	1.00	4.92		
Fourth	4.3	Bedroom	4.3.1-L	0.68	1.00	0.43	85.74	58.78	0.70	0.30	0.25	1.00	Above
			4.3.1-U	0.68	1.00	2.84	80.10	58.78	0.70	1.00	5.16		
Fourth	5.1	LKD	5.1.1-L	0.68	1.00	0.84	38.34	99.58	0.70	0.30	0.13	2.00	Above
			5.1.1-U	0.68	1.00	1.57	31.38	99.58	0.70	1.00	0.66		
Fourth	5.2	Bedroom	5.2.1-L	0.68	1.00	0.60	86.38	99.58	0.70	0.30	0.21	1.00	Above
			5.2.1-U	0.68	1.00	3.97	80.44	99.58	0.70	1.00	4.28		
Fourth	6.1	LKD	6.1.1-L	0.68	1.00	1.89	50.10	66.02	0.70	0.30	0.57	1.00	Above
			6.1.1-U	0.68	1.00	3.53	35.08	66.02	0.70	1.00	2.50		
Fourth	6.2	Bedroom	6.2.1-L	0.68	1.00	0.60	86.99	63.76	0.70	0.30	0.33	1.00	Above
			6.2.1-U	0.68	1.00	3.97	84.33	63.76	0.70	1.00	7.01		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Fourth	13.3	Bedroom	13.3.1-L	0.68	1.00	0.87	47.15	58.64	0.70	0.30	0.28	1.00	Above
			13.3.1-U	0.68	1.00	1.63	32.80	58.64	0.70	1.00	1.21		
											1.49		
Fourth	14.1	LKD	14.1.1-L	0.68	1.00	0.47	86.80	110.53	0.70	0.30	0.15	2.00	Above
			14.1.1-U	0.68	1.00	3.12	84.14	110.53	0.70	1.00	3.17		
			14.1.2-L	0.68	1.00	0.76	42.57	110.53	0.70	0.30	0.12		
			14.1.2-U	0.68	1.00	1.56	33.63	110.53	0.70	1.00	0.63		
											4.07		
Fourth	14.2	Bedroom	14.2.1-L	0.68	1.00	2.04	55.53	59.80	0.70	0.30	0.76	1.00	Above
			14.2.1-U	0.68	1.00	3.80	37.18	59.80	0.70	1.00	3.15		
											3.91		
Fourth	14.3	Bedroom	14.3.1-L	0.68	1.00	0.01	25.03	37.89	0.70	0.30	0.00	1.00	Below (M)
			14.3.1-U	0.68	1.00	1.43	17.15	37.89	0.70	1.00	0.86		
											0.86		
Fourth	15.1	LKD	15.1.1	0.68	1.00	1.37	79.71	102.26	0.70	1.00	1.42	2.00	Above
			15.1.2-L	0.68	1.00	1.10	40.68	102.26	0.70	0.30	0.18		
			15.1.2-U	0.68	1.00	2.05	24.99	102.26	0.70	1.00	0.67		
			15.1.3-L	0.68	1.00	1.93	48.72	102.26	0.70	0.30	0.37		
			15.1.3-U	0.68	1.00	3.60	28.96	102.26	0.70	1.00	1.36		
			15.1.4	0.68	1.00	1.38	81.71	102.26	0.70	1.00	1.47		
											5.45		
											2.53		
Fourth	15.2	Bedroom	15.2.1	0.68	1.00	1.37	81.68	58.74	0.70	1.00	0.58	1.00	Above
			15.2.2-L	0.68	1.00	0.22	76.62	58.74	0.70	0.30	0.11		
			15.2.2-U	0.68	1.00	1.43	75.64	58.74	0.70	1.00	2.45		
											5.10		
Fourth	16.1	LKD	16.1.1-L	0.68	1.00	0.37	63.10	99.30	0.70	0.30	0.09	2.00	Above
			16.1.1-U	0.68	1.00	2.42	62.41	99.30	0.70	1.00	2.03		
			16.1.2-L	0.68	1.00	0.94	39.64	99.30	0.70	0.30	0.15		
			16.1.2-U	0.68	1.00	1.75	31.14	99.30	0.70	1.00	0.73		
											3.00		
Fourth	16.2	Bedroom	16.2.1-L	0.68	1.00	1.89	49.21	64.32	0.70	0.30	0.58	1.00	Above
			16.2.1-U	0.68	1.00	3.53	34.25	64.32	0.70	1.00	2.50		
											3.08		
Fourth	17.1	LKD	17.1.1-L	0.68	1.00	2.19	53.03	121.88	0.70	0.30	0.38	2.00	Above
			17.1.1-U	0.68	1.00	4.09	36.46	121.88	0.70	1.00	1.63		
											2.01		
Fourth	17.2	Bedroom	17.2.1-L	0.68	1.00	0.22	81.13	43.53	0.70	0.30	0.16	1.00	Above
			17.2.1-U	0.68	1.00	1.43	79.77	43.53	0.70	1.00	3.49		
											3.65		
Fourth	17.3	Bedroom	17.3.1-L	0.68	1.00	0.37	84.42	59.98	0.70	0.30	0.21	1.00	Above
			17.3.1-U	0.68	1.00	2.42	82.32	59.98	0.70	1.00	4.42		
			17.3.2-L	0.68	1.00	0.22	80.14	59.98	0.70	0.30	0.12		
			17.3.2-U	0.68	1.00	1.43	78.95	59.98	0.70	1.00	2.50		
											7.25		
Fourth	18.1	LKD	18.1.1-L	0.68	1.00	0.22	74.76	107.16	0.70	0.30	0.06	2.00	Above
			18.1.1-U	0.68	1.00	1.43	74.14	107.16	0.70	1.00	1.32		
			18.1.2-L	0.68	1.00	0.37	68.77	107.16	0.70	0.30	0.09		
			18.1.2-U	0.68	1.00	2.42	68.90	107.16	0.70	1.00	2.07		
			18.1.3-L	0.68	1.00	0.22	67.19	107.16	0.70	0.30	0.05		
			18.1.3-U	0.68	1.00	1.43	67.74	107.16	0.70	1.00	1.20		
			18.1.4-L	0.68	1.00	0.84	28.04	107.16	0.70	0.30	0.09		
			18.1.4-U	0.68	1.00	1.57	21.69	107.16	0.70	1.00	0.42		
											5.31		
											0.24		
Fourth	18.2	Bedroom	18.2.1-L	0.68	1.00	0.71	37.56	45.33	0.70	0.30	0.97	1.00	Above
			18.2.1-U	0.68	1.00	1.38	23.79	45.33	0.70	1.00	1.20		
											0.49		
Fourth	18.3	Bedroom	18.3.1-L	0.68	1.00	1.86	44.67	67.82	0.70	0.30	1.90	1.00	Above
			18.3.1-U	0.68	1.00	3.63	26.59	67.82	0.70	1.00	2.39		
											0.12		
Fourth	19.1	LKD	19.1.1-L	0.68	1.00	0.87	33.29	99.30	0.70	0.30	0.53	2.00	Above
			19.1.1-U	0.68	1.00	1.63	24.43	99.30	0.70	1.00	0.08		
			19.1.2-L	0.68	1.00	0.37	54.71	99.30	0.70	0.30	1.79		
			19.1.2-U	0.68	1.00	2.42	55.03	99.30	0.70	1.00	0.44		
											1.75		
Fourth	19.2	Bedroom	19.2.1-L	0.68	1.00	1.74	40.82	64.32	0.70	0.30	0.23	1.00	Above
			19.2.1-U	0.68	1.00	3.40	24.87	64.32	0.70	1.00	0.87		
											1.10		
Fourth	20.1	LKD	20.1.1-L	0.68	1.00	1.89	39.43	127.54	0.70	0.30	0.14	2.00	Below
			20.1.1-U	0.68	1.00	3.53	23.56	127.54	0.70	1.00	3.14		
											3.28		
Fourth	20.2	Bedroom	20.2.1-L	0.68	1.00	0.37	63.42	64.84	0.70	0.30	0.10	1.00	Above
			20.2.1-U	0.68	1.00	2.42	63.08	64.84	0.70	1.00	2.21		
											2.31		
Fourth	20.3	Bedroom	20.3.1-L	0.68	1.00	0.22	55.27	47.17	0.70	0.30	0.09	1.00	Above
			20.3.1-U	0.68	1.00	1.43	54.79	47.17	0.70	1.00	1.76		
											1.84		
Fourth	20.4	Bedroom	20.4.1-L	0.68	1.00	0.22	46.03	46.28	0.70	0.30	0.46	1.00	Above
			20.4.1-U	0.68	1.00	1.43	42.77	46.28	0.70	1.00	1.70		
											2.15		
Fourth	21.1	LKD	21.1.1-L	0.68	1.00	2.65	45.98	106.80	0.70	0.30	0.46	2.00	Above
			21.1.1-U	0.68	1.00	4.93	27.56	106.80	0.70	1.00	1.70		
											2.15		

Appendix 8: ADF Results for Proposed Units														
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria	
Fourth	21.2	Bedroom	21.2.1-L	0.68	1.00	0.39	71.25	58.78	0.70	0.30	0.19	1.00		Above
			21.2.1-U	0.68	1.00	2.56	71.07	58.78	0.70	1.00	4.13			
Fourth	21.3	Bedroom	21.3.1-L	0.68	1.00	0.37	73.01	58.54	0.70	0.30	0.18	1.00		Above
			21.3.1-U	0.68	1.00	2.42	72.67	58.54	0.70	1.00	4.00			
Fourth	22.1	LKD	22.1.1-L	0.68	1.00	0.84	32.33	113.85	0.70	0.30	0.10	2.00		Above
			22.1.1-U	0.68	1.00	1.57	23.23	113.85	0.70	1.00	0.43			
Fourth	22.2	Bedroom	22.2.1-L	0.68	1.00	1.97	42.24	59.41	0.70	0.30	0.56	1.00		Above
			22.2.1-U	0.68	1.00	3.67	25.37	59.41	0.70	1.00	2.09			
Fourth	23.1	Living Room	23.1.1-L	0.68	1.00	1.75	44.91	95.43	0.70	0.30	0.33	1.50		Above
			23.1.1-U	0.68	1.00	3.27	28.81	95.43	0.70	1.00	1.32			
Fourth	23.2	Kitchen-Resi	23.2.1-L	0.68	1.00	1.51	42.12	71.59	0.70	0.30	0.35	2.00		Below (M)
			23.2.1-U	0.68	1.00	2.80	26.32	71.59	0.70	1.00	1.38			
Fourth	23.3	Bedroom	23.3.1-L	0.68	1.00	0.37	77.02	60.71	0.70	0.30	0.19	1.00		Above
			23.3.1-U	0.68	1.00	2.42	75.97	60.71	0.70	1.00	4.03			
Fourth	23.4	Bedroom	23.4.1-L	0.68	1.00	0.22	75.08	47.55	0.70	0.30	0.14	1.00		Above
			23.4.1-U	0.68	1.00	1.43	74.46	47.55	0.70	1.00	2.98			
Fourth	23.5	Bedroom	23.5.1-L	0.68	1.00	0.37	78.04	60.71	0.70	0.30	0.19	1.00		Above
			23.5.1-U	0.68	1.00	2.42	76.83	60.71	0.70	1.00	4.08			
Fifth	1.1	LKD	1.1.1-L	0.68	1.00	0.84	57.19	128.37	0.70	0.30	0.15	2.00		Above
			1.1.1-U	0.68	1.00	1.57	58.07	128.37	0.70	1.00	0.95			
Fifth	1.2	Bedroom	1.2.1-L	0.68	1.00	0.37	77.05	65.32	0.70	0.30	0.17	1.00		Above
			1.2.1-U	0.68	1.00	2.42	75.74	65.32	0.70	1.00	3.74			
Fifth	1.3	Bedroom	1.3.1-L	0.68	1.00	0.22	83.80	48.56	0.70	0.30	0.15	1.00		Above
			1.3.1-U	0.68	1.00	1.43	81.92	48.56	0.70	1.00	3.21			
Fifth	1.4	Bedroom	1.4.1-L	0.68	1.00	0.22	83.80	51.12	0.70	0.30	0.14	1.00		Above
			1.4.1-U	0.68	1.00	1.43	81.92	51.12	0.70	1.00	3.05			
Fifth	1.5	Bedroom	1.5.1-L	0.68	1.00	2.12	74.97	60.16	0.70	0.30	1.06	1.00		Above
			1.5.1-U	0.68	1.00	3.95	74.77	60.16	0.70	1.00	6.54			
Fifth	2.1	LKD	2.1.1-L	0.68	1.00	2.80	46.23	104.23	0.70	0.30	0.50	2.00		Above
			2.1.1-U	0.68	1.00	5.21	27.75	104.23	0.70	1.00	1.85			
Fifth	2.2	Bedroom	2.2.1-L	0.68	1.00	0.39	85.09	58.41	0.70	0.30	0.23	1.00		Above
			2.2.1-U	0.68	1.00	2.56	82.98	58.41	0.70	1.00	4.85			
Fifth	2.3	Bedroom	2.3.1-L	0.68	1.00	0.47	85.49	74.24	0.70	0.30	0.22	1.00		Above
			2.3.1-U	0.68	1.00	3.12	79.98	74.24	0.70	1.00	4.49			
Fifth	3.1	LKD	3.1.1-L	0.68	1.00	2.57	68.58	106.14	0.70	0.30	0.66	2.00		Above
			3.1.1-U	0.68	1.00	4.82	70.07	106.14	0.70	1.00	4.24			
Fifth	3.2	Bedroom	3.2.1-L	0.68	1.00	0.43	85.05	59.48	0.70	0.30	0.25	1.00		Above
			3.2.1-U	0.68	1.00	2.84	79.73	59.48	0.70	1.00	5.08			
Fifth	3.3	Bedroom	3.3.1-L	0.68	1.00	0.43	85.05	59.48	0.70	0.30	0.25	1.00		Above
			3.3.1-U	0.68	1.00	2.84	79.73	59.48	0.70	1.00	5.08			
Fifth	4.1	LKD	4.1.1-L	0.68	1.00	2.65	46.22	106.83	0.70	0.30	0.46	2.00		Above
			4.1.1-U	0.68	1.00	4.93	30.63	106.83	0.70	1.00	1.89			
Fifth	4.2	Bedroom	4.2.1-L	0.68	1.00	0.41	84.85	58.54	0.70	0.30	0.24	1.00		Above
			4.2.1-U	0.68	1.00	2.70	79.61	58.54	0.70	1.00	4.90			
Fifth	4.3	Bedroom	4.3.1-L	0.68	1.00	0.43	85.05	58.78	0.70	0.30	0.25	1.00		Above
			4.3.1-U	0.68	1.00	2.84	79.73	58.78	0.70	1.00	5.14			
Fifth	5.1	LKD	5.1.1-L	0.68	1.00	0.60	86.38	99.58	0.70	0.30	0.21	2.00		Above
			5.1.1-U	0.68	1.00	3.97	80.45	99.58	0.70	1.00	4.28			
Fifth			5.1.2-L	0.68	1.00	0.84	38.30	99.58	0.70	0.30	0.13			
			5.1.2-U	0.68	1.00	1.57	31.38	99.58	0.70	1.00	0.66			
Fifth												1.00		Above

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Fifth	5.2	Bedroom	5.2.1-L	0.68	1.00	1.89	50.10	66.02	0.70	0.30	0.57	1.00	Above
			5.2.1-U	0.68	1.00	3.53	35.08	66.02	0.70	1.00	2.50		
											3.07		
Fifth	6.1	LKD	6.1.1-L	0.68	1.00	2.12	49.78	105.72	0.70	0.30	0.40	2.00	Above
			6.1.1-U	0.68	1.00	3.95	29.67	105.72	0.70	1.00	1.48		
			6.1.2-L	0.68	1.00	0.71	87.82	105.72	0.70	0.30	0.24		
			6.1.2-U	0.68	1.00	4.68	84.86	105.72	0.70	1.00	5.01		
											7.12		
Fifth	6.2	Bedroom	6.2.1-L	0.68	1.00	0.60	86.17	63.76	0.70	0.30	0.33	1.00	Above
			6.2.1-U	0.68	1.00	3.97	80.36	63.76	0.70	1.00	6.68		
											7.00		
Fifth	6.3	Bedroom	6.3.1-L	0.68	1.00	0.39	85.74	46.91	0.70	0.30	0.28	1.00	Above
			6.3.1-U	0.68	1.00	2.56	81.78	46.91	0.70	1.00	5.95		
											6.23		
Fifth	7.1	LKD	7.1.1-L	0.68	1.00	3.10	48.07	104.73	0.70	0.30	0.57	2.00	Above
			7.1.1-U	0.68	1.00	5.81	30.42	104.73	0.70	1.00	2.25		
			7.1.2-L	0.68	1.00	0.32	74.89	104.73	0.70	0.30	0.09		
			7.1.2-U	0.68	1.00	1.88	61.45	104.73	0.70	1.00	1.47		
			7.1.3-L	0.68	1.00	0.22	79.58	104.73	0.70	0.30	0.07		
			7.1.3-U	0.68	1.00	1.08	76.74	104.73	0.70	1.00	1.05		
											5.50		
											0.16		
Fifth	7.2	Bedroom	7.2.1-L	0.68	1.00	0.37	68.65	63.34	0.70	0.30	0.16	1.00	Above
			7.2.1-U	0.68	1.00	2.42	68.75	63.34	0.70	1.00	3.50		
											3.66		
Fifth	7.3	Bedroom	7.3.1-L	0.68	1.00	0.22	59.38	48.91	0.70	0.30	0.11	1.00	Above
			7.3.1-U	0.68	1.00	1.43	59.92	48.91	0.70	1.00	2.33		
											2.44		
Fifth	8.1	LKD	8.1.1	0.68	1.00	1.29	78.00	127.07	0.70	1.00	1.06	2.00	Above
			8.1.2-L	0.68	1.00	2.57	61.11	127.07	0.70	0.30	0.49		
			8.1.2-U	0.68	1.00	4.79	41.15	127.07	0.70	1.00	2.07		
			8.1.3-L	0.68	1.00	0.84	44.07	127.07	0.70	0.30	0.12		
			8.1.3-U	0.68	1.00	1.57	32.40	127.07	0.70	1.00	0.53		
			8.1.4-L	0.68	1.00	0.47	87.38	127.07	0.70	0.30	0.13		
			8.1.4-U	0.68	1.00	3.12	84.60	127.07	0.70	1.00	2.77		
											7.18		
Fifth	8.2	Bedroom	8.2.1-L	0.68	1.00	0.37	61.97	55.56	0.70	0.30	0.16	1.00	Above
			8.2.1-U	0.68	1.00	2.42	62.55	55.56	0.70	1.00	3.63		
											3.79		
Fifth	8.3	Bedroom	8.3.1-L	0.68	1.00	0.37	69.18	65.45	0.70	0.30	0.15	1.00	Above
			8.3.1-U	0.68	1.00	2.42	69.53	65.45	0.70	1.00	3.42		
			8.3.2-L	0.68	1.00	0.22	77.42	65.45	0.70	0.30	0.10		
			8.3.2-U	0.68	1.00	1.42	76.80	65.45	0.70	1.00	2.22		
			8.3.3-L	0.68	1.00	0.35	77.89	65.45	0.70	0.30	0.17		
			8.3.3-U	0.68	1.00	1.43	77.32	65.45	0.70	1.00	2.25		
											8.32		
Fifth	9.1	LKD	9.1.1-L	0.68	1.00	0.84	30.95	116.05	0.70	0.30	0.09	2.00	Above
			9.1.1-U	0.68	1.00	1.56	24.41	116.05	0.70	1.00	0.44		
			9.1.2-L	0.68	1.00	0.41	87.10	116.05	0.70	0.30	0.12		
			9.1.2-U	0.68	1.00	2.70	84.43	116.05	0.70	1.00	2.62		
											3.27		
Fifth	9.2	Bedroom	9.2.1-L	0.68	1.00	1.52	38.89	70.79	0.70	0.30	0.33	1.00	Above
			9.2.1-U	0.68	1.00	2.82	25.71	70.79	0.70	1.00	1.37		
											1.70		
Fifth	10.1	LKD	10.1.1-L	0.68	1.00	1.01	38.43	126.42	0.70	0.30	0.12	2.00	Above
			10.1.1-U	0.68	1.00	1.89	30.05	126.42	0.70	1.00	0.60		
			10.1.2-L	0.68	1.00	0.43	85.52	126.42	0.70	0.30	0.12		
			10.1.2-U	0.68	1.00	2.84	79.98	126.42	0.70	1.00	2.40		
			10.1.3-L	0.68	1.00	0.47	85.84	126.42	0.70	0.30	0.13		
			10.1.3-U	0.68	1.00	3.12	80.16	126.42	0.70	1.00	2.64		
											6.00		
Fifth	10.2	Bedroom	10.2.1-L	0.68	1.00	1.82	53.55	60.18	0.70	0.30	0.65	1.00	Above
			10.2.1-U	0.68	1.00	3.39	37.06	60.18	0.70	1.00	2.78		
											3.43		
Fifth	10.3	Bedroom	10.3.1-L	0.68	1.00	0.87	47.62	58.64	0.70	0.30	0.28	1.00	Above
			10.3.1-U	0.68	1.00	1.63	33.22	58.64	0.70	1.00	1.23		
											1.51		
Fifth	11.1	LKD	11.1.1-L	0.68	1.00	0.47	87.41	120.55	0.70	0.30	0.14	2.00	Above
			11.1.1-U	0.68	1.00	3.12	84.61	120.55	0.70	1.00	2.92		
			11.1.2-L	0.68	1.00	0.89	45.62	120.55	0.70	0.30	0.13		
			11.1.2-U	0.68	1.00	1.66	34.70	120.55	0.70	1.00	0.64		
											3.83		
Fifth	11.2	Bedroom	11.2.1-L	0.68	1.00	2.26	62.58	58.26	0.70	0.30	0.97	1.00	Above
			11.2.1-U	0.68	1.00	4.25	42.33	58.26	0.70	1.00	4.12		
			11.2.2-L	0.68	1.00	1.50	79.14	58.26	0.70	0.30	0.82		
			11.2.2-U	0.68	1.00	2.80	85.56	58.26	0.70	1.00	5.48		
											11.39		
Fifth	11.3	Bedroom	11.3.1-L	0.68	1.00	0.22	83.80	50.21	0.70	0.30	0.14	1.00	Above
			11.3.1-U	0.68	1.00	1.43	81.92	50.21	0.70	1.00	3.10		
			11.3.2-L	0.68	1.00	0.22	70.03	50.21	0.70	0.30	0.12		
			11.3.2-U	0.68	1.00	1.43	70.11	50.21	0.70	1.00	2.66		
											6.03		

Appendix 8: ADF Results for Proposed Units														
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria	
Fifth	11.4	Bedroom	11.4.1-L	0.68	1.00	0.22	62.32	42.81	0.70	0.30	0.13	1.00	Above	
			11.4.1-U	0.68	1.00	1.43	62.39	42.81	0.70	1.00	2.77			
Fifth	12.1	LKD	12.1.1-L	0.68	1.00	0.37	66.28	99.30	0.70	0.30	0.10	2.00	Above	
			12.1.1-U	0.68	1.00	2.42	65.81	99.30	0.70	1.00	2.14			
			12.1.2-L	0.68	1.00	0.94	39.65	99.30	0.70	0.30	0.15			
			12.1.2-U	0.68	1.00	1.75	31.14	99.30	0.70	1.00	0.73			
											3.12			
Fifth	12.2	Bedroom	12.2.1-L	0.68	1.00	1.89	50.49	64.32	0.70	0.30	0.59	1.00	Above	
			12.2.1-U	0.68	1.00	3.53	34.92	64.32	0.70	1.00	2.55			
Fifth	13.1	LKD	13.1.1-L	0.68	1.00	2.19	54.12	121.88	0.70	0.30	0.39	2.00	Above	
			13.1.1-U	0.68	1.00	4.09	37.04	121.88	0.70	1.00	1.66			
Fifth	13.2	Bedroom	13.2.1-L	0.68	1.00	0.22	82.58	43.53	0.70	0.30	0.16	1.00	Above	
			13.2.1-U	0.68	1.00	1.43	80.93	43.53	0.70	1.00	3.54			
Fifth	13.3	Bedroom	13.3.1-L	0.68	1.00	0.37	85.71	59.98	0.70	0.30	0.21	1.00	Above	
			13.3.1-U	0.68	1.00	2.42	83.35	59.98	0.70	1.00	4.48			
			13.3.2-L	0.68	1.00	0.22	81.65	59.98	0.70	0.30	0.12			
			13.3.2-U	0.68	1.00	1.43	80.20	59.98	0.70	1.00	2.54			
											7.35			
Fifth	14.1	LKD	14.1.1-L	0.68	1.00	0.22	77.98	107.16	0.70	0.30	0.06	2.00	Above	
			14.1.1-U	0.68	1.00	1.43	77.20	107.16	0.70	1.00	1.37			
			14.1.2-L	0.68	1.00	0.37	75.88	107.16	0.70	0.30	0.10			
			14.1.2-U	0.68	1.00	2.42	75.37	107.16	0.70	1.00	2.27			
			14.1.3-L	0.68	1.00	0.22	73.99	107.16	0.70	0.30	0.06			
			14.1.3-U	0.68	1.00	1.43	73.89	107.16	0.70	0.30	1.31			
			14.1.4-L	0.68	1.00	0.84	32.50	107.16	0.70	0.30	0.10			
			14.1.4-U	0.68	1.00	1.57	24.73	107.16	0.70	1.00	0.48			
											5.76			
											1.11			
Fifth	14.2	Bedroom	14.2.1-L	0.68	1.00	0.71	41.62	45.33	0.70	0.30	0.26	1.00	Above	
			14.2.1-U	0.68	1.00	1.38	27.24	45.33	0.70	1.00	1.11			
Fifth	14.3	Bedroom	14.3.1-L	0.68	1.00	1.86	49.12	67.82	0.70	0.30	0.54	1.00	Above	
			14.3.1-U	0.68	1.00	3.63	31.53	67.82	0.70	1.00	2.25			
Fifth	15.1	LKD	15.1.1-L	0.68	1.00	0.87	35.49	99.30	0.70	0.30	0.12	2.00	Above	
			15.1.1-U	0.68	1.00	1.63	27.09	99.30	0.70	1.00	0.59			
			15.1.2-L	0.68	1.00	0.37	61.00	99.30	0.70	0.30	0.09			
			15.1.2-U	0.68	1.00	2.42	61.36	99.30	0.70	1.00	1.99			
											2.80			
Fifth	15.2	Bedroom	15.2.1-L	0.68	1.00	1.74	45.32	64.32	0.70	0.30	0.49	1.00	Above	
			15.2.1-U	0.68	1.00	3.40	29.19	64.32	0.70	1.00	2.06			
Fifth	16.1	LKD	16.1.1-L	0.68	1.00	1.89	43.42	96.35	0.70	0.30	0.34	2.00	Below (M)	
			16.1.1-U	0.68	1.00	3.53	28.13	96.35	0.70	1.00	1.37			
Fifth	16.2	Bedroom	16.2.1-L	0.68	1.00	0.22	49.97	60.18	0.70	0.30	0.07	1.00	Above	
			16.2.1-U	0.68	1.00	1.43	47.40	60.18	0.70	1.00	1.50			
Fifth	17.1	LKD	17.1.1-L	0.68	1.00	2.65	49.25	106.80	0.70	0.30	0.49	2.00	Above	
			17.1.1-U	0.68	1.00	4.93	31.41	106.80	0.70	1.00	1.93			
Fifth	17.2	Bedroom	17.2.1-L	0.68	1.00	0.39	77.46	58.78	0.70	0.30	0.20	1.00	Above	
			17.2.1-U	0.68	1.00	2.56	76.62	58.78	0.70	1.00	4.45			
Fifth	17.3	Bedroom	17.3.1-L	0.68	1.00	0.37	78.78	58.54	0.70	0.30	0.20	1.00	Above	
			17.3.1-U	0.68	1.00	2.42	77.77	58.54	0.70	1.00	4.28			
Fifth	18.1	LKD	18.1.1-L	0.68	1.00	0.84	34.65	113.85	0.70	0.30	0.10	2.00	Above	
			18.1.1-U	0.68	1.00	1.57	25.05	113.85	0.70	1.00	0.46			
			18.1.2-L	0.68	1.00	0.37	80.33	113.85	0.70	0.30	0.10			
			18.1.2-U	0.68	1.00	2.42	79.03	113.85	0.70	1.00	2.24			
											2.90			
Fifth	18.2	Bedroom	18.2.1-L	0.68	1.00	1.97	45.23	59.41	0.70	0.30	0.60	1.00	Above	
			18.2.1-U	0.68	1.00	3.67	29.10	59.41	0.70	1.00	2.39			
Fifth	19.1	Living Room	19.1.1-L	0.68	1.00	1.75	46.36	95.43	0.70	0.30	0.34	1.50	Above	
			19.1.1-U	0.68	1.00	3.27	30.60	95.43	0.70	1.00	1.40			
Fifth	19.2	Kitchen-Resi	19.2.1-L	0.68	1.00	1.51	44.07	71.59	0.70	0.30	0.37	2.00	Below (M)	
			19.2.1-U	0.68	1.00	2.80	28.74	71.59	0.70	1.00	1.50			
Fifth	19.3	Bedroom	19.3.1-L	0.68	1.00	0.37	80.84	60.71	0.70	0.30	0.20	1.00	Above	
			19.3.1-U	0.68	1.00	2.42	79.45	60.71	0.70	1.00	4.22			
Fifth	19.4	Bedroom	19.4.1-L	0.68	1.00	0.22	78.39	47.55	0.70	0.30	0.14	1.00	Above	
			19.4.1-U	0.68	1.00	1.43	77.53	47.55	0.70	1.00	3.10			

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Fifth	19.5	Bedroom	19.5.1-L	0.68	1.00	0.37	81.38	60.71	0.70	0.30	0.20	1.00	Above
			19.5.1-U	0.68	1.00	2.42	79.87	60.71	0.70	1.00	4.24		
											4.44		
Sixth	1.1	LKD	1.1.1-L	0.68	1.00	0.22	83.80	108.00	0.70	0.30	0.07	2.00	Above
			1.1.1-U	0.68	1.00	1.43	81.92	108.00	0.70	1.00	1.44		
			1.1.2-L	0.68	1.00	0.22	83.80	108.00	0.70	0.30	0.07		
			1.1.2-U	0.68	1.00	1.43	81.92	108.00	0.70	1.00	1.44		
			1.1.3-L	0.68	1.00	0.13	82.08	108.00	0.70	0.30	0.04		
			1.1.3-U	0.68	1.00	0.85	80.14	108.00	0.70	1.00	0.84		
			1.1.4-L	0.68	1.00	0.84	80.55	108.00	0.70	0.30	0.25		
			1.1.4-U	0.68	1.00	1.57	83.70	108.00	0.70	1.00	1.62		
											5.77		
Sixth	1.2	Bedroom	1.2.1-L	0.68	1.00	1.85	81.97	44.59	0.70	0.30	1.36	1.00	Above
			1.2.1-U	0.68	1.00	3.47	84.68	44.59	0.70	1.00	8.78		
											10.14		
Sixth	1.3	Bedroom	1.3.1-L	0.68	1.00	0.27	84.73	70.71	0.70	0.30	0.13	1.00	Above
			1.3.1-U	0.68	1.00	1.78	82.96	70.71	0.70	1.00	2.78		
			1.3.2-L	0.68	1.00	0.39	77.45	70.71	0.70	0.30	0.17		
			1.3.2-U	0.68	1.00	2.56	79.48	70.71	0.70	1.00	3.83		
											6.92		
Sixth	2.1	LKD	2.1.1-L	0.68	1.00	0.22	78.82	117.59	0.70	0.30	0.06	2.00	Above
			2.1.1-U	0.68	1.00	1.43	79.57	117.59	0.70	1.00	1.29		
			2.1.2-L	0.68	1.00	0.20	84.92	117.59	0.70	0.30	0.06		
			2.1.2-U	0.68	1.00	1.30	82.82	117.59	0.70	1.00	1.22		
			2.1.3-L	0.68	1.00	0.84	80.33	117.59	0.70	0.30	0.23		
			2.1.3-U	0.68	1.00	1.57	83.52	117.59	0.70	1.00	1.49		
											4.34		
Sixth	2.2	Bedroom	2.2.1-L	0.68	1.00	0.43	87.25	50.22	0.70	0.30	0.30	1.00	Above
			2.2.1-U	0.68	1.00	2.84	84.53	50.22	0.70	1.00	6.38		
											6.68		
Sixth	2.3	Bedroom	2.3.1-L	0.68	1.00	2.57	86.10	70.89	0.70	0.30	1.25	1.00	Above
			2.3.1-U	0.68	1.00	4.82	84.47	70.89	0.70	1.00	7.66		
											8.91		
Sixth	3.1	LKD	3.1.1-L	0.68	1.00	2.65	73.82	106.83	0.70	0.30	0.73	2.00	Above
			3.1.1-U	0.68	1.00	4.93	77.80	106.83	0.70	1.00	4.79		
											5.52		
Sixth	3.2	Bedroom	3.2.1-L	0.68	1.00	0.41	86.34	58.54	0.70	0.30	0.24	1.00	Above
			3.2.1-U	0.68	1.00	2.70	82.58	58.54	0.70	1.00	5.08		
											5.32		
Sixth	3.3	Bedroom	3.3.1-L	0.68	1.00	0.43	86.48	58.78	0.70	0.30	0.25	1.00	Above
			3.3.1-U	0.68	1.00	2.84	82.67	58.78	0.70	1.00	5.33		
											5.58		
Sixth	4.1	LKD	4.1.1-L	0.68	1.00	0.84	47.97	99.58	0.70	0.30	0.16	2.00	Above
			4.1.1-U	0.68	1.00	1.57	53.06	99.58	0.70	1.00	1.12		
			4.1.2-L	0.68	1.00	0.60	87.36	99.58	0.70	0.30	0.21		
			4.1.2-U	0.68	1.00	3.97	83.15	99.58	0.70	1.00	4.42		
											5.91		
Sixth	4.2	Bedroom	4.2.1-L	0.68	1.00	1.94	61.88	66.02	0.70	0.30	0.73	1.00	Above
			4.2.1-U	0.68	1.00	3.62	63.87	66.02	0.70	1.00	4.67		
											5.40		
Sixth	5.1	LKD	5.1.1-L	0.68	1.00	2.12	69.27	105.72	0.70	0.30	0.56	2.00	Above
			5.1.1-U	0.68	1.00	3.95	73.08	105.72	0.70	1.00	3.64		
			5.1.2-L	0.68	1.00	0.71	88.17	105.72	0.70	0.30	0.24		
			5.1.2-U	0.68	1.00	4.68	85.10	105.72	0.70	1.00	5.02		
											9.45		
Sixth	5.2	Bedroom	5.2.1-L	0.68	1.00	0.60	87.36	63.76	0.70	0.30	0.33	1.00	Above
			5.2.1-U	0.68	1.00	3.97	83.15	63.76	0.70	1.00	6.91		
											7.24		
Sixth	5.3	Bedroom	5.3.1-L	0.68	1.00	0.39	87.14	46.91	0.70	0.30	0.29	1.00	Above
			5.3.1-U	0.68	1.00	2.56	84.52	46.91	0.70	1.00	6.15		
											6.44		
Sixth	6.1	LKD	6.1.1-L	0.68	1.00	3.10	73.23	104.73	0.70	0.30	0.87	2.00	Above
			6.1.1-U	0.68	1.00	5.81	72.17	104.73	0.70	1.00	5.34		
			6.1.2-L	0.68	1.00	0.32	83.89	104.73	0.70	0.30	0.10		
			6.1.2-U	0.68	1.00	1.88	77.12	104.73	0.70	1.00	1.85		
			6.1.3-L	0.68	1.00	0.22	81.78	104.73	0.70	0.30	0.07		
			6.1.3-U	0.68	1.00	1.08	78.68	104.73	0.70	1.00	1.08		
											9.31		
Sixth	6.2	Bedroom	6.2.1-L	0.68	1.00	0.37	76.73	63.34	0.70	0.30	0.18	1.00	Above
			6.2.1-U	0.68	1.00	2.42	77.55	63.34	0.70	1.00	3.95		
											4.12		
Sixth	6.3	Bedroom	6.3.1-L	0.68	1.00	0.22	67.44	48.91	0.70	0.30	0.12	1.00	Above
			6.3.1-U	0.68	1.00	1.43	69.90	48.91	0.70	1.00	2.72		
											2.84		
Sixth	7.1	LKD	7.1.1	0.68	1.00	1.29	80.08	127.07	0.70	1.00	1.09	2.00	Above
			7.1.2-L	0.68	1.00	2.57	79.06	127.07	0.70	0.30	0.64		
			7.1.2-U	0.68	1.00	4.79	77.96	127.07	0.70	1.00	3.92		
			7.1.3-L	0.68	1.00	0.84	58.69	127.07	0.70	0.30	0.15		
			7.1.3-U	0.68	1.00	1.57	59.59	127.07	0.70	1.00	0.98		
			7.1.4-L	0.68	1.00	0.47	88.53	127.07	0.70	0.30	0.13		
			7.1.4-U	0.68	1.00	3.12	86.93	127.07	0.70	1.00	2.85		
											9.76		

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Sixth	7.2	Bedroom	7.2.1-L	0.68	1.00	0.37	71.36	55.56	0.70	0.30	0.19		
			7.2.1-U	0.68	1.00	2.42	73.45	55.56	0.70	1.00	4.26		
											4.45	1.00	Above
Sixth	7.3	Bedroom	7.3.1-L	0.68	1.00	0.37	77.67	65.45	0.70	0.30	0.17		
			7.3.1-U	0.68	1.00	2.42	78.22	65.45	0.70	1.00	3.85		
			7.3.2-L	0.68	1.00	0.22	80.83	65.45	0.70	0.30	0.11		
			7.3.2-U	0.68	1.00	1.42	79.96	65.45	0.70	1.00	2.32		
											6.45	1.00	Above
Sixth	8.1	LKD	8.1.1-L	0.68	1.00	0.84	44.79	116.05	0.70	0.30	0.13		
			8.1.1-U	0.68	1.00	1.56	53.65	116.05	0.70	1.00	0.96		
			8.1.2-L	0.68	1.00	0.41	88.31	116.05	0.70	0.30	0.12		
			8.1.2-U	0.68	1.00	2.70	86.80	116.05	0.70	1.00	2.69		
											3.91	2.00	Above
Sixth	8.2	Bedroom	8.2.1-L	0.68	1.00	1.52	54.81	70.79	0.70	0.30	0.47		
			8.2.1-U	0.68	1.00	2.82	59.68	70.79	0.70	1.00	3.17		
											3.64	1.00	Above
Sixth	9.1	LKD	9.1.1-L	0.68	1.00	1.01	51.15	126.42	0.70	0.30	0.16		
			9.1.1-U	0.68	1.00	1.89	55.13	126.42	0.70	1.00	1.10		
			9.1.2-L	0.68	1.00	0.43	86.48	126.42	0.70	0.30	0.12		
			9.1.2-U	0.68	1.00	2.84	82.67	126.42	0.70	1.00	2.48		
			9.1.3-L	0.68	1.00	0.47	86.78	126.42	0.70	0.30	0.13		
			9.1.3-U	0.68	1.00	3.12	82.84	126.42	0.70	1.00	2.72		
											6.71	2.00	Above
Sixth	9.2	Bedroom	9.2.1-L	0.68	1.00	1.82	67.63	60.18	0.70	0.30	0.82		
			9.2.1-U	0.68	1.00	3.39	68.81	60.18	0.70	1.00	5.16		
											5.98	1.00	Above
Sixth	9.3	Bedroom	9.3.1-L	0.68	1.00	0.87	59.14	58.64	0.70	0.30	0.35		
			9.3.1-U	0.68	1.00	1.63	59.77	58.64	0.70	1.00	2.21		
											2.56	1.00	Above
Sixth	10.1	LKD	10.1.1-L	0.68	1.00	0.47	88.53	120.55	0.70	0.30	0.14		
			10.1.1-U	0.68	1.00	3.12	86.93	120.55	0.70	1.00	3.00		
			10.1.2-L	0.68	1.00	0.89	60.65	120.55	0.70	0.30	0.18		
			10.1.2-U	0.68	1.00	1.66	62.66	120.55	0.70	1.00	1.15		
											4.47	2.00	Above
Sixth	10.2	Bedroom	10.2.1-L	0.68	1.00	2.08	82.35	58.26	0.70	0.30	1.18		
			10.2.1-U	0.68	1.00	4.25	80.95	58.26	0.70	1.00	7.88		
			10.2.2-L	0.68	1.00	1.50	88.49	58.26	0.70	0.30	0.91		
			10.2.2-U	0.68	1.00	2.76	85.65	58.26	0.70	1.00	5.41		
											15.38	1.00	Above
Sixth	10.3	Bedroom	10.3.1-L	0.68	1.00	0.22	83.80	50.21	0.70	0.30	0.14		
			10.3.1-U	0.68	1.00	1.43	81.92	50.21	0.70	1.00	3.10		
			10.3.2-L	0.68	1.00	0.22	76.29	50.21	0.70	0.30	0.13		
			10.3.2-U	0.68	1.00	1.43	76.95	50.21	0.70	1.00	2.92		
											6.30	1.00	Above
Sixth	10.4	Bedroom	10.4.1-L	0.68	1.00	0.22	69.04	42.81	0.70	0.30	0.14		
			10.4.1-U	0.68	1.00	1.43	71.21	42.81	0.70	1.00	3.17		
											3.30	1.00	Above
Sixth	11.1	LKD	11.1.1-L	0.68	1.00	0.37	72.76	99.30	0.70	0.30	0.11		
			11.1.1-U	0.68	1.00	2.42	74.32	99.30	0.70	1.00	2.41		
			11.1.2-L	0.68	1.00	0.94	52.63	99.30	0.70	0.30	0.20		
			11.1.2-U	0.68	1.00	1.75	57.66	99.30	0.70	1.00	1.35		
											4.07	2.00	Above
Sixth	11.2	Bedroom	11.2.1-L	0.68	1.00	1.89	64.30	64.32	0.70	0.30	0.76		
			11.2.1-U	0.68	1.00	3.53	68.70	64.32	0.70	1.00	5.02		
											5.78	1.00	Above
Sixth	12.1	LKD	12.1.1-L	0.68	1.00	2.19	69.85	121.88	0.70	0.30	0.50		
			12.1.1-U	0.68	1.00	4.09	72.77	121.88	0.70	1.00	3.25		
											3.76	2.00	Above
Sixth	12.2	Bedroom	12.2.1-L	0.68	1.00	0.22	83.23	43.53	0.70	0.30	0.17		
			12.2.1-U	0.68	1.00	1.43	81.56	43.53	0.70	1.00	3.57		
											3.73	1.00	Above
Sixth	12.3	Bedroom	12.3.1-L	0.68	1.00	0.37	86.35	59.98	0.70	0.30	0.21		
			12.3.1-U	0.68	1.00	2.42	83.94	59.98	0.70	1.00	4.51		
			12.3.2-L	0.68	1.00	0.22	82.86	59.98	0.70	0.30	0.12		
			12.3.2-U	0.68	1.00	1.43	81.28	59.98	0.70	1.00	2.58		
											7.42	1.00	Above
Sixth	13.1	LKD	13.1.1-L	0.68	1.00	0.22	81.09	107.16	0.70	0.30	0.07		
			13.1.1-U	0.68	1.00	1.43	80.10	107.16	0.70	1.00	1.42		
			13.1.2-L	0.68	1.00	0.37	81.52	107.16	0.70	0.30	0.11		
			13.1.2-U	0.68	1.00	2.42	80.75	107.16	0.70	1.00	2.43		
			13.1.3-L	0.68	1.00	0.22	79.06	107.16	0.70	0.30	0.06		
			13.1.3-U	0.68	1.00	1.43	78.77	107.16	0.70	1.00	1.40		
			13.1.4-L	0.68	1.00	0.84	51.16	107.16	0.70	0.30	0.16		
			13.1.4-U	0.68	1.00	1.57	56.24	107.16	0.70	1.00	1.10		
											6.75	2.00	Above
Sixth	13.2	Bedroom	13.2.1-L	0.68	1.00	0.71	56.07	45.33	0.70	0.30	0.35		
			13.2.1-U	0.68	1.00	1.38	57.40	45.33	0.70	1.00	2.34		
											2.69	1.00	Above
Sixth	13.3	Bedroom	13.3.1-L	0.68	1.00	1.86	67.41	67.82	0.70	0.30	0.74		
			13.3.1-U	0.68	1.00	3.63	72.27	67.82	0.70	1.00	5.16		
											5.90	1.00	Above

Appendix 8: ADF Results for Proposed Units													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Req'd Value	Meets BRE Criteria
Sixth	14.1	LKD	14.1.1-L	0.68	1.00	0.87	51.01	99.30	0.70	0.30	0.18		
			14.1.1-U	0.68	1.00	1.63	56.88	99.30	0.70	1.00	1.24		
			14.1.2-L	0.68	1.00	0.37	67.30	99.30	0.70	0.30	0.10		
			14.1.2-U	0.68	1.00	2.42	69.96	99.30	0.70	1.00	2.27		
											3.79	2.00	Above
Sixth	14.2	Bedroom	14.2.1-L	0.68	1.00	1.74	61.92	64.32	0.70	0.30	0.67		
			14.2.1-U	0.68	1.00	3.40	66.93	64.32	0.70	1.00	4.72		
											5.39	1.00	Above
Sixth	15.1	LKD	15.1.1-L	0.68	1.00	1.89	64.47	96.35	0.70	0.30	0.51		
			15.1.1-U	0.68	1.00	3.53	67.59	96.35	0.70	1.00	3.30		
											3.81	2.00	Above
Sixth	15.2	Bedroom	15.2.1-L	0.68	1.00	0.22	61.63	60.18	0.70	0.30	0.09		
			15.2.1-U	0.68	1.00	1.43	62.86	60.18	0.70	1.00	1.99		
											2.08	1.00	Above
Sixth	16.1	LKD	16.1.1-L	0.68	1.00	2.65	70.09	106.80	0.70	0.30	0.69		
			16.1.1-U	0.68	1.00	4.93	72.61	106.80	0.70	1.00	4.47		
											5.17	2.00	Above
Sixth	16.2	Bedroom	16.2.1-L	0.68	1.00	0.37	82.23	58.78	0.70	0.30	0.21		
			16.2.1-U	0.68	1.00	2.42	81.27	58.78	0.70	1.00	4.46		
											4.66	1.00	Above
Sixth	16.3	Bedroom	16.3.1-L	0.68	1.00	0.37	83.03	58.54	0.70	0.30	0.21		
			16.3.1-U	0.68	1.00	2.42	81.79	58.54	0.70	1.00	4.50		
											4.71	1.00	Above
Sixth	17.1	LKD	17.1.1-L	0.68	1.00	0.84	49.77	113.85	0.70	0.30	0.15		
			17.1.1-U	0.68	1.00	1.57	54.55	113.85	0.70	1.00	1.00		
			17.1.2-L	0.68	1.00	0.37	83.80	113.85	0.70	0.30	0.11		
			17.1.2-U	0.68	1.00	2.42	82.29	113.85	0.70	1.00	2.33		
											3.59	2.00	Above
Sixth	17.2	Bedroom	17.2.1-L	0.68	1.00	1.97	62.74	59.41	0.70	0.30	0.83		
			17.2.1-U	0.68	1.00	3.67	66.25	59.41	0.70	1.00	5.45		
											6.28	1.00	Above
Sixth	18.1	Living Room	18.1.1-L	0.68	1.00	1.75	63.92	95.43	0.70	0.30	0.47		
			18.1.1-U	0.68	1.00	3.27	66.11	95.43	0.70	1.00	3.02		
											3.49	1.50	Above
Sixth	18.2	Kitchen-Resi	18.2.1-L	0.68	1.00	1.51	61.85	71.59	0.70	0.30	0.52		
			18.2.1-U	0.68	1.00	2.80	64.48	71.59	0.70	1.00	3.37		
											3.89	2.00	Above
Sixth	18.3	Bedroom	18.3.1-L	0.68	1.00	0.37	84.04	60.71	0.70	0.30	0.20		
			18.3.1-U	0.68	1.00	2.42	82.45	60.71	0.70	1.00	4.38		
											4.58	1.00	Above
Sixth	18.4	Bedroom	18.4.1-L	0.68	1.00	0.22	81.27	47.55	0.70	0.30	0.15		
			18.4.1-U	0.68	1.00	1.43	80.26	47.55	0.70	1.00	3.21		
											3.36	1.00	Above
Sixth	18.5	Bedroom	18.5.1-L	0.68	1.00	0.37	84.28	60.71	0.70	0.30	0.20		
			18.5.1-U	0.68	1.00	2.42	82.61	60.71	0.70	1.00	4.39		
											4.59	1.00	Above

Appendix 9

DD Results for
Proposed Units

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
Morrisons High Street						
Ground	1.1	LKD	Area m2 % of room	38.79	33.75 87%	Above
	2.1	Living Room	Area m2 % of room	18.53	18.11 98%	Above
	2.2	Kitchen-Resi	Area m2 % of room	18.03	17.58 97%	Above
	3.1	Living Room	Area m2 % of room	17.00	16.82 99%	Above
	3.2	Kitchen-Resi	Area m2 % of room	14.89	14.66 98%	Above
Mezzanine	1.1	Bedroom	Area m2 % of room	15.06	13.75 91%	Above
	1.2	Bedroom	Area m2 % of room	11.96	10.86 91%	Above
	1.3	Bedroom	Area m2 % of room	8.00	7.93 99%	Above
	1.4	Bedroom	Area m2 % of room	8.28	8.24 100%	Above
	2.1	Bedroom	Area m2 % of room	13.37	12.90 96%	Above
	2.2	Bedroom	Area m2 % of room	8.03	8.00 100%	Above
	2.3	Bedroom	Area m2 % of room	8.03	7.99 99%	Above
	2.4	Bedroom	Area m2 % of room	12.13	11.85 98%	Above
	3.1	Bedroom	Area m2 % of room	12.41	11.96 96%	Above
	3.2	Bedroom	Area m2 % of room	8.78	8.71 99%	Above
	3.3	Bedroom	Area m2 % of room	8.78	8.78 100%	Above
	3.4	Bedroom	Area m2 % of room	12.40	12.34 100%	Above
First	1.1	LKD	Area m2 % of room	25.20	24.93 99%	Above
	1.3	Bedroom	Area m2 % of room	8.00	7.86 98%	Above
	1.4	Bedroom	Area m2 % of room	12.61	12.33 98%	Above
	2.1	LKD	Area m2 % of room	24.78	24.50 99%	Above
	2.2	Bedroom	Area m2 % of room	9.78	9.78 100%	Above
	2.3	Bedroom	Area m2 % of room	12.12	12.09 100%	Above
	3.1	LKD	Area m2 % of room	26.31	26.29 100%	Above
	3.2	Bedroom	Area m2 % of room	11.40	11.40 100%	Above
	3.3	Bedroom	Area m2 % of room	15.95	15.94 100%	Above
	4.1	LKD	Area m2 % of room	26.89	26.80 100%	Above
	4.2	Bedroom	Area m2 % of room	12.01	12.00 100%	Above
	4.3	Bedroom	Area m2 % of room	12.01	12.00 100%	Above
	5.1	LKD	Area m2 % of room	27.21	27.13 100%	Above
	5.2	Bedroom	Area m2 % of room	11.74	11.72 100%	Above
	5.3	Bedroom	Area m2 % of room	11.81	11.80 100%	Above
	6.1	LKD	Area m2 % of room	22.95	22.91 100%	Above
	6.2	Bedroom	Area m2 % of room	13.22	13.18 100%	Above
	7.1	LKD	Area m2 % of room	26.89	26.89 100%	Above
	7.2	Bedroom	Area m2 % of room	13.50	13.50 100%	Above
	7.3	Bedroom	Area m2 % of room	8.48	8.22 97%	Above
	8.1	LKD	Area m2 % of room	28.77	20.96 73%	Below (M)
	8.2	Bedroom	Area m2 % of room	11.53	8.48 74%	Below (M)
	8.3	Bedroom	Area m2 % of room	12.57	7.21 57%	Below
	9.1	LKD	Area m2 % of room	23.37	11.02 47%	Below
	9.2	Bedroom	Area m2 % of room	13.32	6.30 47%	Below
	10.1	LKD	Area m2 % of room	25.85	25.50 99%	Above
	10.2	Bedroom	Area m2 % of room	12.10	11.23 93%	Above
	11.1	LKD	Area m2 % of room	32.03	30.89 96%	Above

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	11.2	Bedroom	Area m2	12.35	11.96	Above
			% of room		97%	
	11.3	Bedroom	Area m2	12.11	11.49	Above
			% of room		95%	
	11.4	Bedroom	Area m2	12.00	10.96	Above
			% of room		91%	
	12.1	LKD	Area m2	28.90	28.65	Above
			% of room		99%	
	12.2	Bedroom	Area m2	10.89	9.77	Above
			% of room		90%	
	12.3	Bedroom	Area m2	13.96	12.99	Above
			% of room		93%	
	13.1	LKD	Area m2	23.10	21.80	Above
			% of room		94%	
	13.2	Bedroom	Area m2	14.97	14.90	Above
			% of room		100%	
	14.1	LKD	Area m2	26.65	24.71	Above
			% of room		93%	
	14.2	Bedroom	Area m2	11.87	11.65	Above
			% of room		98%	
	14.3	Bedroom	Area m2	11.55	11.18	Above
			% of room		97%	
	15.1	LKD	Area m2	24.88	24.50	Above
			% of room		98%	
	15.2	Bedroom	Area m2	12.18	11.99	Above
			% of room		98%	
	15.3	Bedroom	Area m2	6.31	5.67	Above
			% of room		90%	
	16.1	LKD	Area m2	22.97	22.97	Above
			% of room		100%	
	16.2	Bedroom	Area m2	12.01	11.92	Above
			% of room		99%	
	17.1	LKD	Area m2	22.99	22.69	Above
			% of room		99%	
	17.2	Bedroom	Area m2	12.82	12.74	Above
			% of room		99%	
	18.1	LKD	Area m2	25.38	23.80	Above
			% of room		94%	
	18.2	Bedroom	Area m2	7.21	7.14	Above
			% of room		99%	
	18.3	Bedroom	Area m2	12.29	12.20	Above
			% of room		99%	
	19.1	LKD	Area m2	26.16	25.91	Above
			% of room		99%	
	19.2	Bedroom	Area m2	12.19	12.04	Above
			% of room		99%	
	20.1	LKD	Area m2	25.86	25.26	Above
			% of room		98%	
	20.2	Bedroom	Area m2	11.37	6.73	Below
			% of room		59%	
	20.3	Bedroom	Area m2	11.89	8.65	Below (M)
			% of room		73%	
	21.1	LKD	Area m2	25.70	16.43	Below
			% of room		64%	
	21.2	Bedroom	Area m2	8.07	2.87	Below
			% of room		36%	
	21.3	Bedroom	Area m2	12.80	5.27	Below
			% of room		41%	
	22.1	LKD	Area m2	22.99	10.59	Below
			% of room		46%	
	22.2	Bedroom	Area m2	12.82	5.79	Below
			% of room		45%	
	23.1	LKD	Area m2	27.09	4.93	Below
			% of room		18%	
	23.2	Bedroom	Area m2	12.53	12.29	Above
			% of room		98%	
	23.3	Bedroom	Area m2	8.00	7.29	Above
			% of room		91%	
	23.4	Bedroom	Area m2	8.23	7.47	Above
			% of room		91%	
	24.1	LKD	Area m2	27.20	9.89	Below
			% of room		36%	
	24.2	Bedroom	Area m2	11.81	7.59	Below (M)
			% of room		64%	
	24.3	Bedroom	Area m2	11.74	7.71	Below (M)
			% of room		66%	
	25.1	LKD	Area m2	22.66	11.89	Below
			% of room		52%	
	25.2	Bedroom	Area m2	12.14	6.18	Below
			% of room		51%	
	26.1	Living Room	Area m2	21.93	19.17	Above
			% of room		87%	
	26.2	Kitchen-Resi	Area m2	14.93	13.56	Above
			% of room		91%	
	26.3	Bedroom	Area m2	12.34	9.64	Below (M)
			% of room		78%	
	26.4	Bedroom	Area m2	8.14	5.91	Below (M)
			% of room		73%	
	26.5	Bedroom	Area m2	12.34	10.80	Above
			% of room		88%	
	27.1	LKD	Area m2	23.16	22.93	Above
			% of room		99%	

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	27.2	Bedroom	Area m2	14.46	14.23	Above
			% of room		98%	
	27.3	Bedroom	Area m2	8.02	7.90	Above
			% of room		98%	
Second	1.1	LKD	Area m2	25.20	24.75	Above
			% of room		98%	
	1.3	Bedroom	Area m2	8.00	7.86	Above
			% of room		98%	
	1.4	Bedroom	Area m2	12.61	12.33	Above
			% of room		98%	
	2.1	LKD	Area m2	24.78	24.50	Above
			% of room		99%	
	2.2	Bedroom	Area m2	9.78	9.78	Above
			% of room		100%	
	2.3	Bedroom	Area m2	12.12	12.09	Above
			% of room		100%	
	3.1	LKD	Area m2	26.31	26.29	Above
			% of room		100%	
	3.2	Bedroom	Area m2	11.40	11.40	Above
			% of room		100%	
	3.3	Bedroom	Area m2	15.95	15.94	Above
			% of room		100%	
	4.1	LKD	Area m2	26.89	26.80	Above
			% of room		100%	
	4.2	Bedroom	Area m2	12.01	12.00	Above
			% of room		100%	
	4.3	Bedroom	Area m2	12.01	12.00	Above
			% of room		100%	
	5.1	LKD	Area m2	27.21	27.13	Above
			% of room		100%	
	5.2	Bedroom	Area m2	11.74	11.72	Above
			% of room		100%	
	5.3	Bedroom	Area m2	11.81	11.80	Above
			% of room		100%	
	6.1	LKD	Area m2	22.95	22.91	Above
			% of room		100%	
	6.2	Bedroom	Area m2	13.22	13.20	Above
			% of room		100%	
	7.1	LKD	Area m2	26.89	26.89	Above
			% of room		100%	
	7.2	Bedroom	Area m2	13.50	13.50	Above
			% of room		100%	
	7.3	Bedroom	Area m2	8.48	8.47	Above
			% of room		100%	
	8.1	LKD	Area m2	28.77	25.97	Above
			% of room		90%	
	8.2	Bedroom	Area m2	11.53	11.07	Above
			% of room		96%	
	8.3	Bedroom	Area m2	12.57	12.43	Above
			% of room		99%	
	9.1	LKD	Area m2	23.37	17.37	Below (M)
			% of room		74%	
	9.2	Bedroom	Area m2	13.32	13.19	Above
			% of room		99%	
	10.1	LKD	Area m2	25.85	25.48	Above
			% of room		99%	
	10.2	Bedroom	Area m2	12.10	11.23	Above
			% of room		93%	
	11.1	LKD	Area m2	32.03	31.12	Above
			% of room		97%	
	11.2	Bedroom	Area m2	12.35	11.98	Above
			% of room		97%	
	11.3	Bedroom	Area m2	12.11	11.79	Above
			% of room		97%	
	11.4	Bedroom	Area m2	12.00	11.64	Above
			% of room		97%	
	12.1	LKD	Area m2	28.90	28.76	Above
			% of room		99%	
	12.2	Bedroom	Area m2	10.89	10.80	Above
			% of room		99%	
	12.3	Bedroom	Area m2	13.96	13.57	Above
			% of room		97%	
	13.1	LKD	Area m2	23.10	21.79	Above
			% of room		94%	
	13.2	Bedroom	Area m2	14.97	14.90	Above
			% of room		100%	
	14.1	LKD	Area m2	26.65	24.55	Above
			% of room		92%	
	14.2	Bedroom	Area m2	11.87	11.65	Above
			% of room		98%	
	14.3	Bedroom	Area m2	11.55	11.10	Above
			% of room		96%	
	15.1	LKD	Area m2	24.88	24.59	Above
			% of room		99%	
	15.2	Bedroom	Area m2	12.18	11.96	Above
			% of room		98%	
	15.3	Bedroom	Area m2	6.31	5.70	Above
			% of room		90%	
	16.1	LKD	Area m2	22.97	22.97	Above
			% of room		100%	
	16.2	Bedroom	Area m2	12.01	11.94	Above
			% of room		99%	

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	17.1	LKD	Area m2	22.99	22.69	Above
			% of room		99%	
	17.2	Bedroom	Area m2	12.82	12.74	Above
			% of room		99%	
	18.1	LKD	Area m2	25.38	23.81	Above
			% of room		94%	
	18.2	Bedroom	Area m2	7.21	7.14	Above
			% of room		99%	
	18.3	Bedroom	Area m2	12.29	12.20	Above
			% of room		99%	
	19.1	LKD	Area m2	26.16	25.92	Above
			% of room		99%	
	19.2	Bedroom	Area m2	12.19	12.04	Above
			% of room		99%	
	20.1	LKD	Area m2	25.86	25.29	Above
			% of room		98%	
	20.2	Bedroom	Area m2	11.37	8.06	Below (M)
			% of room		71%	
	20.3	Bedroom	Area m2	11.89	10.49	Above
			% of room		88%	
	21.1	LKD	Area m2	25.70	21.77	Above
			% of room		85%	
	21.2	Bedroom	Area m2	8.07	5.89	Below (M)
			% of room		73%	
	21.3	Bedroom	Area m2	12.80	8.75	Below (M)
			% of room		68%	
	22.1	LKD	Area m2	22.99	14.49	Below
			% of room		63%	
	22.2	Bedroom	Area m2	12.82	10.26	Above
			% of room		80%	
	23.1	LKD	Area m2	27.09	7.93	Below
			% of room		29%	
	23.2	Bedroom	Area m2	12.53	12.33	Above
			% of room		98%	
	23.3	Bedroom	Area m2	8.00	7.49	Above
			% of room		94%	
	23.4	Bedroom	Area m2	8.23	7.55	Above
			% of room		92%	
	24.1	LKD	Area m2	27.20	17.26	Below
			% of room		63%	
	24.2	Bedroom	Area m2	11.81	9.61	Above
			% of room		81%	
	24.3	Bedroom	Area m2	11.74	9.52	Above
			% of room		81%	
	25.1	LKD	Area m2	22.66	15.90	Below (M)
			% of room		70%	
	25.2	Bedroom	Area m2	12.14	9.23	Below (M)
			% of room		76%	
	26.1	Living Room	Area m2	21.93	20.16	Above
			% of room		92%	
	26.2	Kitchen-Resi	Area m2	14.93	14.83	Above
			% of room		99%	
	26.3	Bedroom	Area m2	12.34	11.25	Above
			% of room		91%	
	26.4	Bedroom	Area m2	8.14	7.20	Above
			% of room		88%	
	26.5	Bedroom	Area m2	12.34	11.66	Above
			% of room		95%	
	27.1	LKD	Area m2	23.16	22.94	Above
			% of room		99%	
	27.2	Bedroom	Area m2	14.46	14.23	Above
			% of room		98%	
	27.3	Bedroom	Area m2	8.02	7.90	Above
			% of room		98%	
Third	1.1	LKD	Area m2	25.20	24.75	Above
			% of room		98%	
	1.3	Bedroom	Area m2	8.00	7.86	Above
			% of room		98%	
	1.4	Bedroom	Area m2	12.61	12.33	Above
			% of room		98%	
	2.1	LKD	Area m2	24.78	24.50	Above
			% of room		99%	
	2.2	Bedroom	Area m2	9.78	9.78	Above
			% of room		100%	
	2.3	Bedroom	Area m2	12.12	12.09	Above
			% of room		100%	
	3.1	LKD	Area m2	26.31	26.29	Above
			% of room		100%	
	3.2	Bedroom	Area m2	11.40	11.39	Above
			% of room		100%	
	3.3	Bedroom	Area m2	15.95	15.94	Above
			% of room		100%	
	4.1	LKD	Area m2	26.89	26.80	Above
			% of room		100%	
	4.2	Bedroom	Area m2	12.01	12.00	Above
			% of room		100%	
	4.3	Bedroom	Area m2	12.01	12.00	Above
			% of room		100%	
	5.1	LKD	Area m2	27.21	27.14	Above
			% of room		100%	
	5.2	Bedroom	Area m2	11.74	11.72	Above
			% of room		100%	

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	5.3	Bedroom	Area m2	11.81	11.80	Above
			% of room		100%	
	6.1	LKD	Area m2	22.95	22.91	Above
			% of room		100%	
	6.2	Bedroom	Area m2	13.22	13.20	Above
			% of room		100%	
	7.1	LKD	Area m2	26.89	26.89	Above
			% of room		100%	
	7.2	Bedroom	Area m2	13.50	13.50	Above
			% of room		100%	
	7.3	Bedroom	Area m2	8.48	8.47	Above
			% of room		100%	
	8.1	LKD	Area m2	28.77	28.76	Above
			% of room		100%	
	8.2	Bedroom	Area m2	11.53	11.07	Above
			% of room		96%	
	8.3	Bedroom	Area m2	12.57	12.43	Above
			% of room		99%	
	9.1	LKD	Area m2	23.37	21.96	Above
			% of room		94%	
	9.2	Bedroom	Area m2	13.32	13.27	Above
			% of room		100%	
	10.1	LKD	Area m2	25.85	25.48	Above
			% of room		99%	
	10.2	Bedroom	Area m2	12.10	11.23	Above
			% of room		93%	
	11.1	LKD	Area m2	32.03	31.14	Above
			% of room		97%	
	11.2	Bedroom	Area m2	12.35	11.96	Above
			% of room		97%	
	11.3	Bedroom	Area m2	12.11	11.91	Above
			% of room		98%	
	11.4	Bedroom	Area m2	12.00	11.85	Above
			% of room		99%	
	12.1	LKD	Area m2	28.90	28.76	Above
			% of room		99%	
	12.2	Bedroom	Area m2	10.89	10.82	Above
			% of room		99%	
	12.3	Bedroom	Area m2	13.96	13.76	Above
			% of room		99%	
	13.1	LKD	Area m2	23.10	21.80	Above
			% of room		94%	
	13.2	Bedroom	Area m2	14.97	14.90	Above
			% of room		100%	
	14.1	LKD	Area m2	26.65	24.56	Above
			% of room		92%	
	14.2	Bedroom	Area m2	11.87	11.65	Above
			% of room		98%	
	14.3	Bedroom	Area m2	11.55	11.04	Above
			% of room		96%	
	15.1	LKD	Area m2	24.88	24.59	Above
			% of room		99%	
	15.2	Bedroom	Area m2	12.18	11.96	Above
			% of room		98%	
	15.3	Bedroom	Area m2	6.31	5.71	Above
			% of room		91%	
	16.1	LKD	Area m2	22.97	22.97	Above
			% of room		100%	
	16.2	Bedroom	Area m2	12.01	11.95	Above
			% of room		100%	
	17.1	LKD	Area m2	22.99	22.82	Above
			% of room		99%	
	17.2	Bedroom	Area m2	12.82	12.74	Above
			% of room		99%	
	18.1	LKD	Area m2	25.38	23.87	Above
			% of room		94%	
	18.2	Bedroom	Area m2	7.21	7.14	Above
			% of room		99%	
	18.3	Bedroom	Area m2	12.29	12.21	Above
			% of room		99%	
	19.1	LKD	Area m2	26.16	25.93	Above
			% of room		99%	
	19.2	Bedroom	Area m2	12.19	12.06	Above
			% of room		99%	
	20.1	LKD	Area m2	25.86	25.29	Above
			% of room		98%	
	20.2	Bedroom	Area m2	11.37	10.27	Above
			% of room		90%	
	20.3	Bedroom	Area m2	11.89	11.70	Above
			% of room		98%	
	21.1	LKD	Area m2	25.70	24.13	Above
			% of room		94%	
	21.2	Bedroom	Area m2	8.07	7.20	Above
			% of room		89%	
	21.3	Bedroom	Area m2	12.80	12.22	Above
			% of room		95%	
	22.1	LKD	Area m2	22.99	18.87	Above
			% of room		82%	
	22.2	Bedroom	Area m2	12.82	11.81	Above
			% of room		92%	
	23.1	LKD	Area m2	27.09	13.71	Below
			% of room		51%	

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	23.2	Bedroom	Area m2	12.53	12.38	Above
			% of room		99%	
	23.3	Bedroom	Area m2	8.00	7.50	Above
			% of room		94%	
	23.4	Bedroom	Area m2	8.23	7.55	Above
			% of room		92%	
	24.1	LKD	Area m2	27.20	21.35	Below (M)
			% of room		78%	
	24.2	Bedroom	Area m2	11.81	11.75	Above
			% of room		100%	
	24.3	Bedroom	Area m2	11.74	11.70	Above
			% of room		100%	
	25.1	LKD	Area m2	22.66	18.54	Above
			% of room		82%	
	25.2	Bedroom	Area m2	12.14	11.30	Above
			% of room		93%	
	26.1	Living Room	Area m2	21.93	20.23	Above
			% of room		92%	
	26.2	Kitchen-Resi	Area m2	14.93	14.91	Above
			% of room		100%	
	26.3	Bedroom	Area m2	12.34	12.18	Above
			% of room		99%	
	26.4	Bedroom	Area m2	8.14	7.91	Above
			% of room		97%	
	26.5	Bedroom	Area m2	12.34	12.24	Above
			% of room		99%	
	27.1	LKD	Area m2	23.16	22.93	Above
			% of room		99%	
	27.2	Bedroom	Area m2	14.46	14.23	Above
			% of room		98%	
	27.3	Bedroom	Area m2	8.02	7.90	Above
			% of room		98%	
Fourth	1.1	LKD	Area m2	32.37	32.37	Above
			% of room		100%	
	1.2	Bedroom	Area m2	13.84	13.83	Above
			% of room		100%	
	1.3	Bedroom	Area m2	8.18	7.24	Above
			% of room		88%	
	1.4	Bedroom	Area m2	8.01	7.17	Above
			% of room		89%	
	1.5	Bedroom	Area m2	12.02	11.93	Above
			% of room		99%	
	2.1	LKD	Area m2	26.31	26.29	Above
			% of room		100%	
	2.2	Bedroom	Area m2	11.40	11.39	Above
			% of room		100%	
	2.3	Bedroom	Area m2	15.95	15.94	Above
			% of room		100%	
	3.1	LKD	Area m2	26.89	26.80	Above
			% of room		100%	
	3.2	Bedroom	Area m2	12.01	11.99	Above
			% of room		100%	
	3.3	Bedroom	Area m2	12.01	12.00	Above
			% of room		100%	
	4.1	LKD	Area m2	27.21	27.13	Above
			% of room		100%	
	4.2	Bedroom	Area m2	11.74	11.72	Above
			% of room		100%	
	4.3	Bedroom	Area m2	11.81	11.80	Above
			% of room		100%	
	5.1	LKD	Area m2	22.95	22.91	Above
			% of room		100%	
	5.2	Bedroom	Area m2	13.22	13.20	Above
			% of room		100%	
	6.1	LKD	Area m2	26.89	26.89	Above
			% of room		100%	
	6.2	Bedroom	Area m2	13.50	13.50	Above
			% of room		100%	
	6.3	Bedroom	Area m2	8.48	8.47	Above
			% of room		100%	
	7.1	LKD	Area m2	28.76	28.75	Above
			% of room		100%	
	7.2	Bedroom	Area m2	11.53	11.24	Above
			% of room		97%	
	7.3	Bedroom	Area m2	12.57	12.52	Above
			% of room		100%	
	8.1	LKD	Area m2	23.37	21.83	Above
			% of room		93%	
	8.2	Bedroom	Area m2	13.32	13.26	Above
			% of room		100%	
	9.1	LKD	Area m2	25.90	25.75	Above
			% of room		99%	
	9.2	Bedroom	Area m2	12.10	11.74	Above
			% of room		97%	
	10.1	LKD	Area m2	32.03	31.14	Above
			% of room		97%	
	10.2	Bedroom	Area m2	12.35	11.96	Above
			% of room		97%	
	10.3	Bedroom	Area m2	12.11	11.98	Above
			% of room		99%	
	10.4	Bedroom	Area m2	12.00	11.89	Above
			% of room		99%	

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	11.1	LKD	Area m2	28.90	28.75	Above
			% of room		99%	
	11.2	Bedroom	Area m2	10.89	10.84	Above
			% of room		100%	
	11.3	Bedroom	Area m2	13.96	13.79	Above
			% of room		99%	
	12.1	LKD	Area m2	23.10	21.66	Above
			% of room		94%	
	12.2	Bedroom	Area m2	14.97	14.90	Above
			% of room		100%	
	13.1	LKD	Area m2	26.65	24.55	Above
			% of room		92%	
	13.2	Bedroom	Area m2	11.87	11.65	Above
			% of room		98%	
	13.3	Bedroom	Area m2	11.55	11.03	Above
			% of room		95%	
	14.1	LKD	Area m2	24.88	24.50	Above
			% of room		98%	
	14.2	Bedroom	Area m2	12.22	11.98	Above
			% of room		98%	
	14.3	Bedroom	Area m2	6.31	5.53	Above
			% of room		88%	
	15.1	LKD	Area m2	22.97	22.97	Above
			% of room		100%	
	15.2	Bedroom	Area m2	12.01	11.95	Above
			% of room		100%	
	16.1	LKD	Area m2	22.99	22.81	Above
			% of room		99%	
	16.2	Bedroom	Area m2	12.82	12.74	Above
			% of room		99%	
	17.1	LKD	Area m2	25.38	23.96	Above
			% of room		94%	
	17.2	Bedroom	Area m2	7.21	7.14	Above
			% of room		99%	
	17.3	Bedroom	Area m2	12.29	12.29	Above
			% of room		100%	
	18.1	LKD	Area m2	25.70	25.69	Above
			% of room		100%	
	18.2	Bedroom	Area m2	8.07	7.46	Above
			% of room		92%	
	18.3	Bedroom	Area m2	12.80	12.75	Above
			% of room		100%	
	19.1	LKD	Area m2	22.99	22.57	Above
			% of room		98%	
	19.2	Bedroom	Area m2	12.82	12.70	Above
			% of room		99%	
	20.1	LKD	Area m2	27.09	20.72	Below (M)
			% of room		76%	
	20.2	Bedroom	Area m2	12.53	12.41	Above
			% of room		99%	
	20.3	Bedroom	Area m2	8.00	7.50	Above
			% of room		94%	
	20.4	Bedroom	Area m2	8.23	7.56	Above
			% of room		92%	
	21.1	LKD	Area m2	27.20	25.89	Above
			% of room		95%	
	21.2	Bedroom	Area m2	11.81	11.76	Above
			% of room		100%	
	21.3	Bedroom	Area m2	11.74	11.71	Above
			% of room		100%	
	22.1	LKD	Area m2	22.66	21.09	Above
			% of room		93%	
	22.2	Bedroom	Area m2	12.14	12.10	Above
			% of room		100%	
	23.1	Living Room	Area m2	21.93	20.23	Above
			% of room		92%	
	23.2	Kitchen-Resi	Area m2	14.93	14.91	Above
			% of room		100%	
	23.3	Bedroom	Area m2	12.34	12.31	Above
			% of room		100%	
	23.4	Bedroom	Area m2	8.14	8.12	Above
			% of room		100%	
	23.5	Bedroom	Area m2	12.34	12.30	Above
			% of room		100%	
Fifth	1.1	LKD	Area m2	32.37	32.37	Above
			% of room		100%	
	1.2	Bedroom	Area m2	13.84	13.83	Above
			% of room		100%	
	1.3	Bedroom	Area m2	8.18	7.24	Above
			% of room		89%	
	1.4	Bedroom	Area m2	9.63	7.27	Below (M)
			% of room		75%	
	1.5	Bedroom	Area m2	12.02	11.93	Above
			% of room		99%	
	2.1	LKD	Area m2	26.31	26.28	Above
			% of room		100%	
	2.2	Bedroom	Area m2	11.39	11.39	Above
			% of room		100%	
	2.3	Bedroom	Area m2	15.95	15.94	Above
			% of room		100%	
	3.1	LKD	Area m2	26.97	26.91	Above
			% of room		100%	

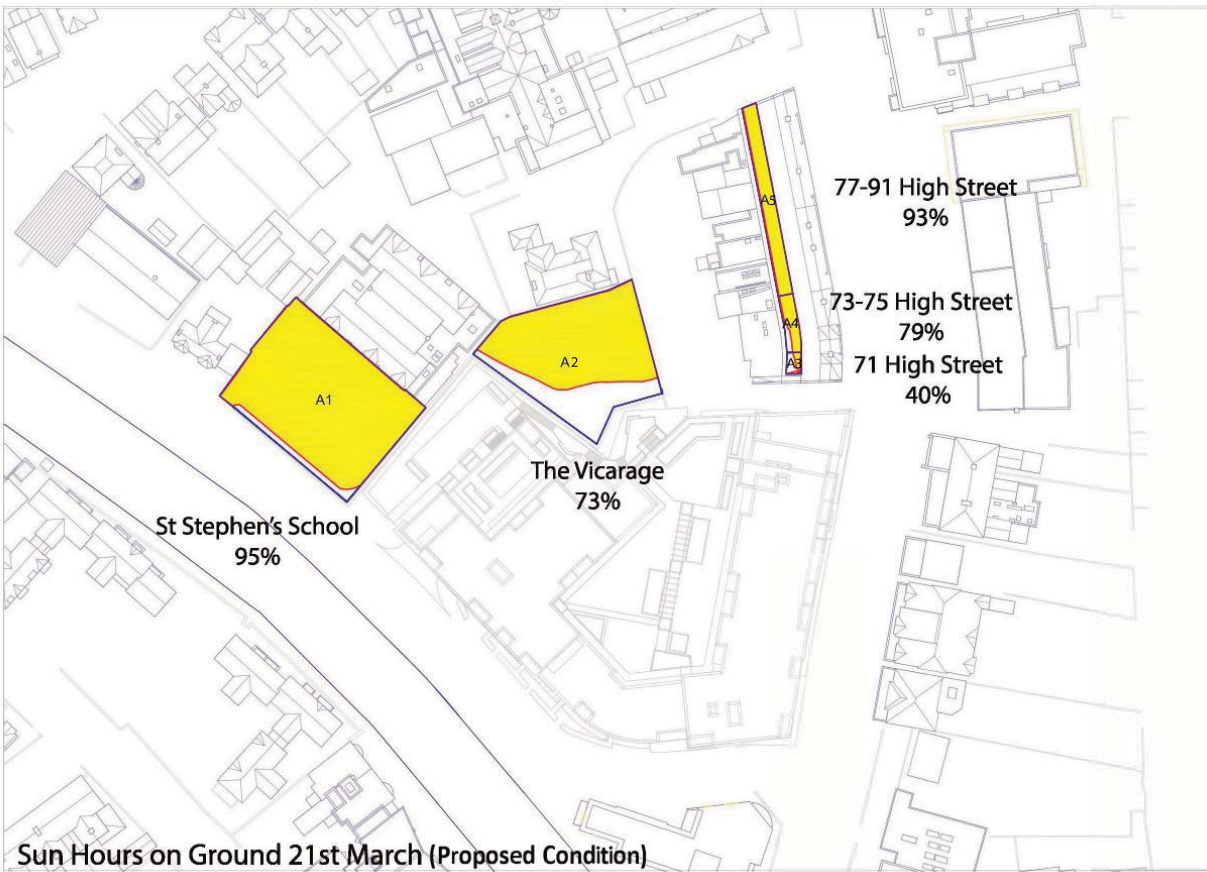
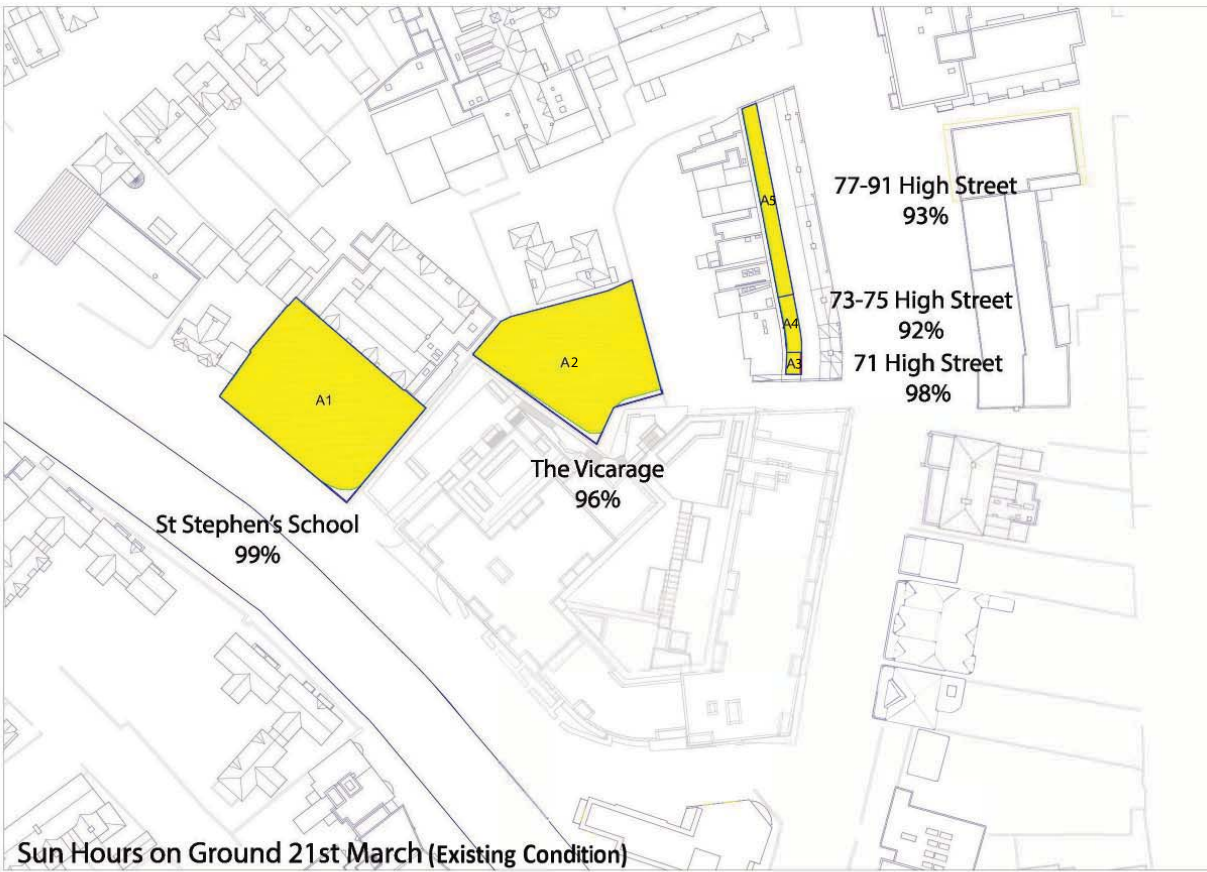
Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	3.2	Bedroom	Area m2	12.01	11.99	Above
			% of room		100%	
	3.3	Bedroom	Area m2	12.01	12.00	Above
			% of room		100%	
	4.1	LKD	Area m2	27.21	27.13	Above
			% of room		100%	
	4.2	Bedroom	Area m2	11.74	11.72	Above
			% of room		100%	
	4.3	Bedroom	Area m2	11.81	11.80	Above
			% of room		100%	
	5.1	LKD	Area m2	22.95	22.92	Above
			% of room		100%	
	5.2	Bedroom	Area m2	13.22	13.20	Above
			% of room		100%	
	6.1	LKD	Area m2	26.89	26.89	Above
			% of room		100%	
	6.2	Bedroom	Area m2	13.50	13.50	Above
			% of room		100%	
	6.3	Bedroom	Area m2	8.48	8.47	Above
			% of room		100%	
	7.1	LKD	Area m2	25.02	25.02	Above
			% of room		100%	
	7.2	Bedroom	Area m2	12.26	11.14	Above
			% of room		91%	
	7.3	Bedroom	Area m2	8.26	7.82	Above
			% of room		95%	
	8.1	LKD	Area m2	28.90	28.68	Above
			% of room		99%	
	8.2	Bedroom	Area m2	10.89	10.86	Above
			% of room		100%	
	8.3	Bedroom	Area m2	13.96	13.93	Above
			% of room		100%	
	9.1	LKD	Area m2	23.10	21.79	Above
			% of room		94%	
	9.2	Bedroom	Area m2	14.97	14.90	Above
			% of room		100%	
	10.1	LKD	Area m2	26.65	24.55	Above
			% of room		92%	
	10.2	Bedroom	Area m2	11.87	11.65	Above
			% of room		98%	
	10.3	Bedroom	Area m2	11.55	11.03	Above
			% of room		95%	
	11.1	LKD	Area m2	26.14	23.26	Above
			% of room		89%	
	11.2	Bedroom	Area m2	11.88	11.88	Above
			% of room		100%	
	11.3	Bedroom	Area m2	9.56	9.38	Above
			% of room		98%	
	11.4	Bedroom	Area m2	7.61	6.61	Above
			% of room		87%	
	12.1	LKD	Area m2	22.99	22.81	Above
			% of room		99%	
	12.2	Bedroom	Area m2	12.82	12.74	Above
			% of room		99%	
	13.1	LKD	Area m2	25.38	23.98	Above
			% of room		94%	
	13.2	Bedroom	Area m2	7.21	7.14	Above
			% of room		99%	
	13.3	Bedroom	Area m2	12.29	12.29	Above
			% of room		100%	
	14.1	LKD	Area m2	25.70	25.69	Above
			% of room		100%	
	14.2	Bedroom	Area m2	8.07	7.52	Above
			% of room		93%	
	14.3	Bedroom	Area m2	12.80	12.80	Above
			% of room		100%	
	15.1	LKD	Area m2	22.99	22.57	Above
			% of room		98%	
	15.2	Bedroom	Area m2	12.82	12.71	Above
			% of room		99%	
	16.1	LKD	Area m2	23.00	22.59	Above
			% of room		98%	
	16.2	Bedroom	Area m2	12.57	11.58	Above
			% of room		92%	
	17.1	LKD	Area m2	27.20	27.13	Above
			% of room		100%	
	17.2	Bedroom	Area m2	11.81	11.76	Above
			% of room		100%	
	17.3	Bedroom	Area m2	11.74	11.71	Above
			% of room		100%	
	18.1	LKD	Area m2	22.66	21.66	Above
			% of room		96%	
	18.2	Bedroom	Area m2	12.14	12.10	Above
			% of room		100%	
	19.1	Living Room	Area m2	21.93	20.23	Above
			% of room		92%	
	19.2	Kitchen-Resi	Area m2	14.93	14.91	Above
			% of room		100%	
	19.3	Bedroom	Area m2	12.34	12.31	Above
			% of room		100%	
	19.4	Bedroom	Area m2	8.14	8.12	Above
			% of room		100%	

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	19.5	Bedroom	Area m2 % of room	12.34	12.30 100%	Above
Sixth	1.1	LKD	Area m2 % of room	27.07	27.04 100%	Above
	1.2	Bedroom	Area m2 % of room	8.01	8.01 100%	Above
	1.3	Bedroom	Area m2 % of room	15.50	15.46 100%	Above
	2.1	LKD	Area m2 % of room	30.96	30.67 99%	Above
	2.2	Bedroom	Area m2 % of room	8.37	8.34 100%	Above
	2.3	Bedroom	Area m2 % of room	15.55	15.55 100%	Above
	3.1	LKD	Area m2 % of room	27.21	27.18 100%	Above
	3.2	Bedroom	Area m2 % of room	11.74	11.72 100%	Above
	3.3	Bedroom	Area m2 % of room	11.81	11.80 100%	Above
	4.1	LKD	Area m2 % of room	22.95	22.93 100%	Above
	4.2	Bedroom	Area m2 % of room	13.22	13.21 100%	Above
	5.1	LKD	Area m2 % of room	26.89	26.89 100%	Above
	5.2	Bedroom	Area m2 % of room	13.50	13.50 100%	Above
	5.3	Bedroom	Area m2 % of room	8.48	8.47 100%	Above
	6.1	LKD	Area m2 % of room	25.02	25.02 100%	Above
	6.2	Bedroom	Area m2 % of room	12.26	11.86 97%	Above
	6.3	Bedroom	Area m2 % of room	8.26	7.90 96%	Above
	7.1	LKD	Area m2 % of room	28.90	28.73 99%	Above
	7.2	Bedroom	Area m2 % of room	10.89	10.87 100%	Above
	7.3	Bedroom	Area m2 % of room	13.96	13.94 100%	Above
	8.1	LKD	Area m2 % of room	23.10	21.81 94%	Above
	8.2	Bedroom	Area m2 % of room	14.97	14.95 100%	Above
	9.1	LKD	Area m2 % of room	26.65	24.64 92%	Above
	9.2	Bedroom	Area m2 % of room	11.87	11.66 98%	Above
	9.3	Bedroom	Area m2 % of room	11.55	11.33 98%	Above
	10.1	LKD	Area m2 % of room	26.14	23.33 89%	Above
	10.2	Bedroom	Area m2 % of room	11.88	11.88 100%	Above
	10.3	Bedroom	Area m2 % of room	9.56	9.43 99%	Above
	10.4	Bedroom	Area m2 % of room	7.61	7.38 97%	Above
	11.1	LKD	Area m2 % of room	22.99	22.99 100%	Above
	11.2	Bedroom	Area m2 % of room	12.82	12.81 100%	Above
	12.1	LKD	Area m2 % of room	25.38	24.47 96%	Above
	12.2	Bedroom	Area m2 % of room	7.21	7.14 99%	Above
	12.3	Bedroom	Area m2 % of room	12.29	12.29 100%	Above
	13.1	LKD	Area m2 % of room	25.70	25.70 100%	Above
	13.2	Bedroom	Area m2 % of room	8.07	7.85 97%	Above
	13.3	Bedroom	Area m2 % of room	12.80	12.80 100%	Above
	14.1	LKD	Area m2 % of room	22.99	22.99 100%	Above
	14.2	Bedroom	Area m2 % of room	12.82	12.79 100%	Above
	15.1	LKD	Area m2 % of room	23.00	22.77 99%	Above
	15.2	Bedroom	Area m2 % of room	12.57	11.98 95%	Above
	16.1	LKD	Area m2 % of room	27.20	27.16 100%	Above
	16.2	Bedroom	Area m2 % of room	11.81	11.77 100%	Above
	16.3	Bedroom	Area m2 % of room	11.74	11.70 100%	Above
	17.1	LKD	Area m2 % of room	22.66	22.04 97%	Above

Appendix 9: DD Results for Proposed Units						
Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Proposed	Meets BRE Criteria
	17.2	Bedroom	Area m2	12.14	12.13	Above
			% of room		100%	
	18.1	Living Room	Area m2	21.93	20.29	Above
			% of room		93%	
	18.2	Kitchen-Resi	Area m2	14.93	14.93	Above
			% of room		100%	
	18.3	Bedroom	Area m2	12.34	12.31	Above
			% of room		100%	
	18.4	Bedroom	Area m2	8.14	8.10	Above
			% of room		100%	
	18.5	Bedroom	Area m2	12.34	12.31	Above
			% of room		100%	

Appendix 10[A]

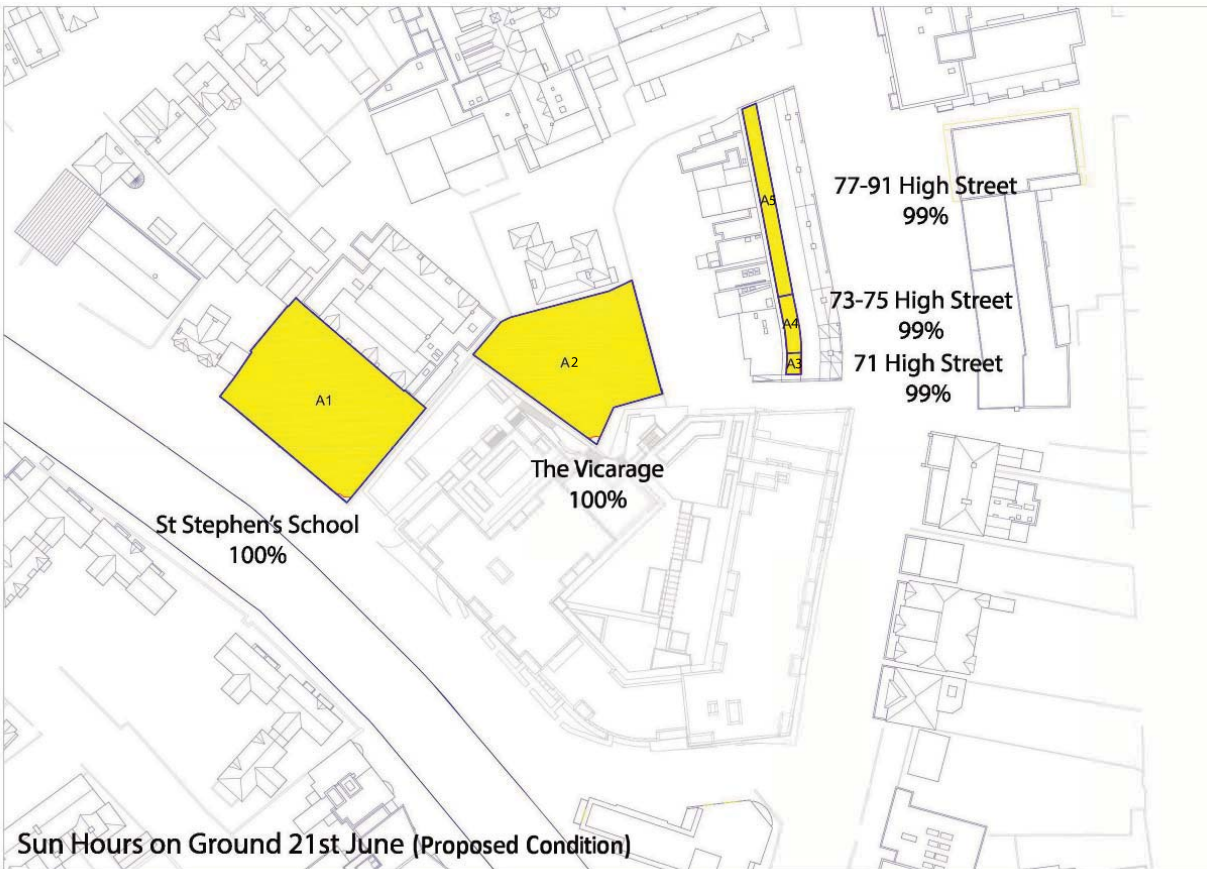
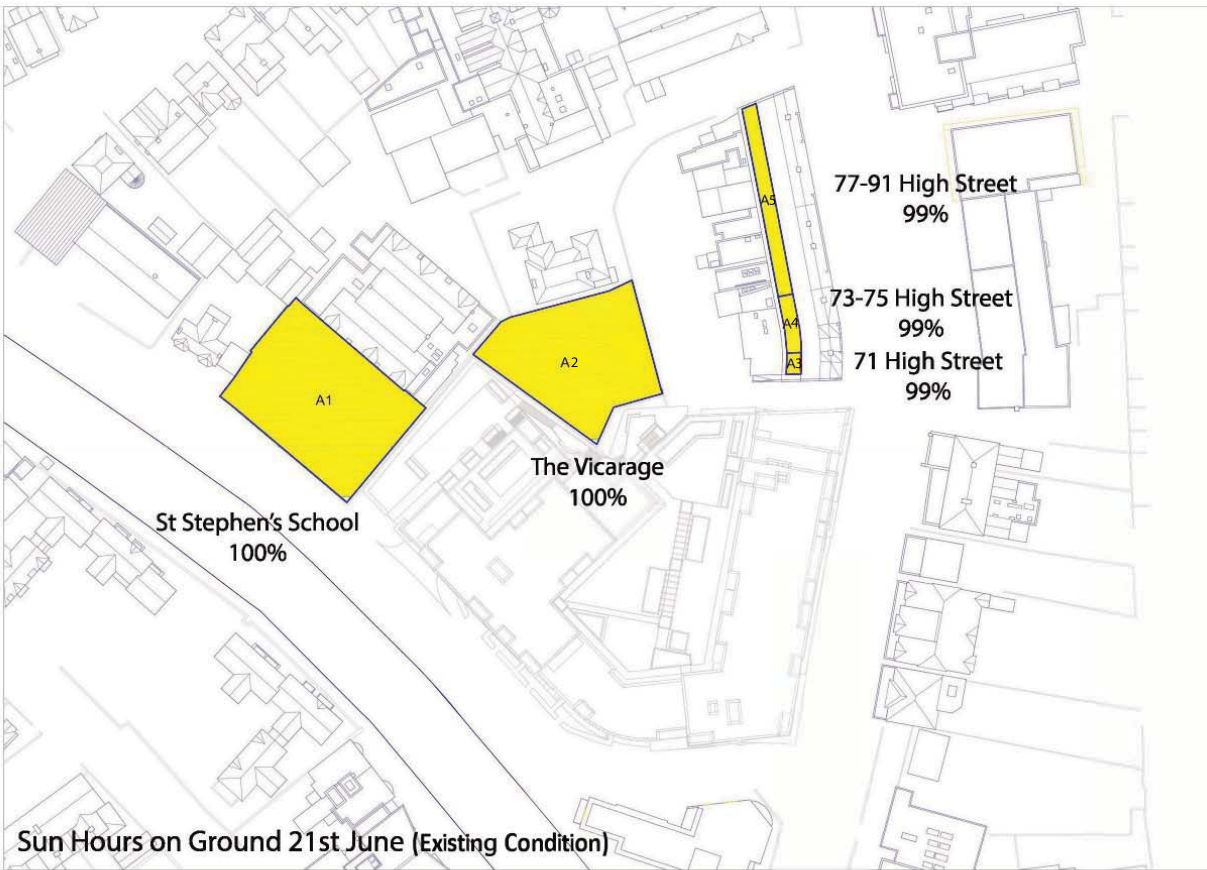
Sun Contour Plans for
Existing Neighbouring
Amenity Spaces (21st March)



Neighbouring Amenity Spaces Assessed

Appendix 10[B]

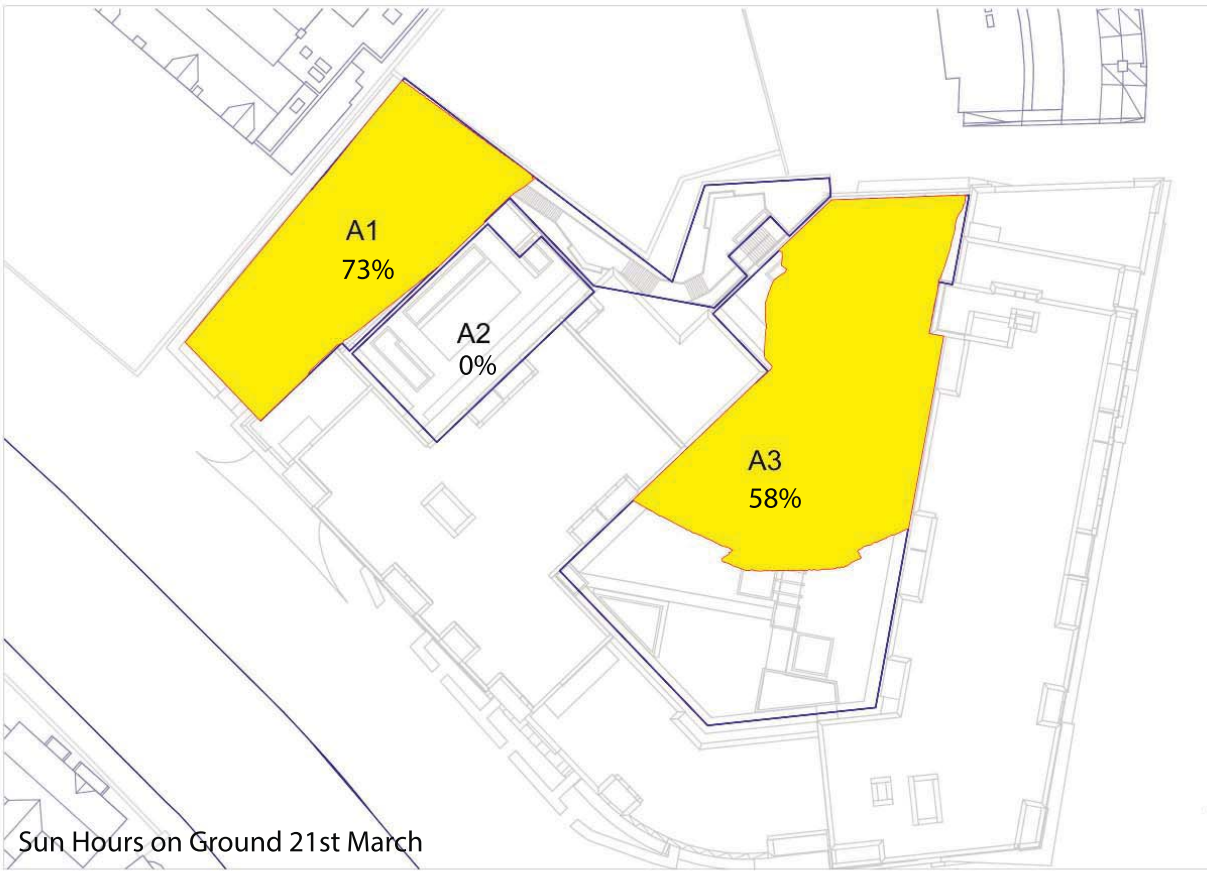
Sun Contour Plans for
Existing Neighbouring
Amenity Spaces (21st June)



Neighbouring Amenity Spaces Assessed

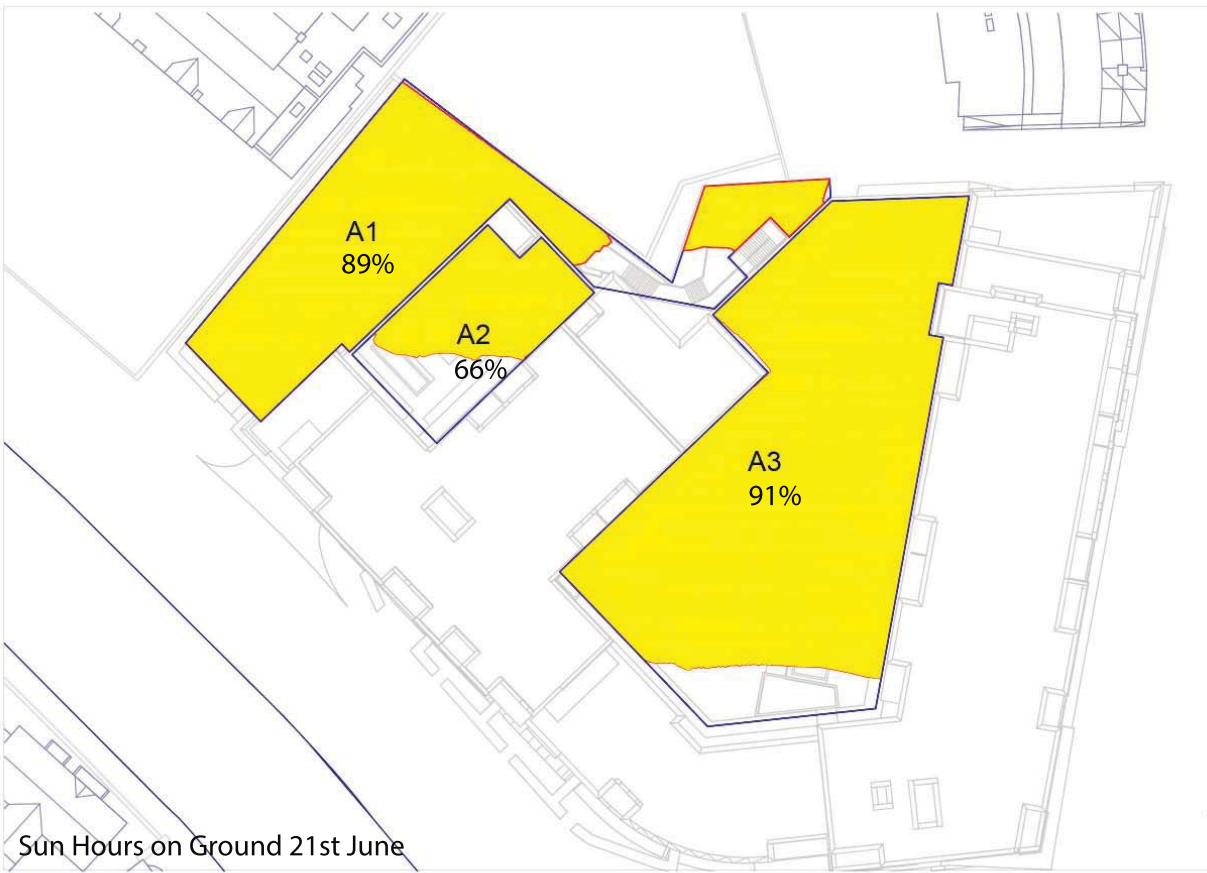
Appendix 11[A]

Sun Contour Plans for
Proposed Amenity Spaces
(21st March)



Appendix 11[B]

Sun Contour Plans for
Proposed Amenity Spaces
(21st June)



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