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Daylight and Sunlight Study 40 to 42 Parker Street, London WC2B 5PQ

5 March 2014



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1 EXECUTIVE SUMMARY

1.1 Overview

- 1.1.1 Right of Light Consulting has been commissioned to undertake a daylight and sunlight study of the proposed development at 40 to 42 Parker Street, London WC2B 5PQ.
- 1.1.2 The aim of the study is to assess the impact of the development on the light receivable by the neighbouring properties at 34 to 41 Parker Street, 25 to 37 Parker Street House and 8 to 26 Great Queen Street. The study is based on the various numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a guide to good practice' by P J Littlefair 2011.
- 1.1.3 The window key in Appendix 1 identifies the windows analysed in this study.

 Appendix 2 gives the numerical results of the various daylight and sunlight tests.
- 1.1.4 The results confirm that all neighbouring windows pass the BRE diffuse daylight and direct sunlight tests. The development also satisfies the BRE overshadowing to gardens and open spaces requirements.
- 1.1.5 In summary, the proposed development will have a low impact on the light receivable by its neighbouring properties. Right of Light Consulting confirms that the development design satisfies all of the requirements set out in the BRE guide 'Site Layout Planning for Daylight and Sunlight'

2 INFORMATION SOURCES

2.1 Documents Considered

2.1.1 This report is based on drawings:

Peek Architecture & Design Ltd

SK-01	Proposed Fourth Floor Plan	Rev –
SK-02	Proposed Fifth Floor Plan	Rev -

3 METHODOLOGY OF THE STUDY

3.1 BRE Guide: Site Layout Planning for Daylight and Sunlight

- 3.1.1 The study is based on the various numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a guide to good practice' by P J Littlefair 2011. In general, the BRE tests are based on the requirements of the British Standard, BS 8206 Part 2.
- 3.1.2 The standards set out in the BRE guide are intended to be used flexibly. The following statement is quoted directly from the BRE guide:
- 3.1.3 "The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the guide should not be seen as 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."

3.2 Daylight to Windows

3.2.1 Diffuse daylight is the light received from the sun which has been diffused through the sky. Even on a cloudy day when the sun is not visible, a room will continue to be lit with light from the sky. This is diffuse daylight.

Diffuse daylight calculations should be undertaken to all rooms where daylight is required, including living rooms, kitchens and bedrooms. Usually, if a kitchen is less than 13m² it is considered to be a non-habitable room and the daylight tests need not be applied. The BRE guide states that windows to bathrooms, toilets, storerooms, circulation areas and garages need not be analysed.

3.2.2 The BRE guide contains two tests which measure diffuse daylight:

3.2.3 Test 1 Vertical Sky Component

The percentage of the sky visible from the centre of a window is known as the Vertical Sky Component. Diffuse daylight may be adversely affected if after a development the Vertical Sky Component is both less than 27% and less than 0.8 times its former value.

3.2.4 Test 2 Daylight Distribution

The BRE guide states that where room layouts are known, the impact on the daylighting distribution can be found by plotting the 'no sky line' in each of the main rooms. The no-sky line is a line which separates areas of the working plane that can and cannot have a direct view of the sky. Daylight may be adversely affected if after the development the area of the working plane in a room which can receive direct skylight is reduced to less than 0.8 times its former value.

3.3 Sunlight availability to Windows

- 3.3.1 The BRE sunlight tests should be applied to all main living rooms and conservatories which have a window which faces within 90 degrees of due south. The guide states that kitchens and bedrooms are less important, although care should be taken not to block too much sunlight.
- 3.3.2 The BRE guide states that sunlight availability may be adversely affected if the centre of the window:
 - receives less than 25% of annual probable sunlight hours, or less than 5% of annual probable sunlight hours between 21 September and 21 March and
 - receives less than 0.8 times its former sunlight hours during either period and
 - has a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

3.4 Overshadowing to Gardens and Open Spaces

- 3.4.1 The availability of sunlight should be checked for all open spaces where sunlight is required. This would normally include:
 - Gardens, usually the main back garden of a house
 - Parks and playing fields
 - Children's playgrounds
 - Outdoor swimming pools and paddling pools
 - Sitting out areas, such as those between non-domestic buildings and in public squares
 - Focal points for views such as a group of monuments or fountains.

3.4.2 The BRE guide recommends that at least 50% of the area of each amenity space listed above should receive at least two hours of sunlight on 21st 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 21st March is less than 0.8 times its former value, then the loss of light is likely to be noticeable.

4 RESULTS OF THE STUDY

4.1 Windows & Amenity Areas Considered

4.1.1 Appendix 1 provides a plan and photographs to indicate the positions of the windows and garden analysed in this study.

4.2 Numerical Results

4.2.1 Appendix 2 lists the detailed numerical daylight and sunlight test results. The results are interpreted below.

4.3 Daylight to Windows

4.3.1 All main windows pass the Vertical Sky Component (VSC) test with the exception of window 124 at 34 to 38 Park Street (before/after ratio of 0.76 - against the BRE target of 0.8). However, this window is already hampered by a projecting wing. The BRE guide acknowledges that where a window has an overhang or projecting wings on one or both sides of it, as is the case with window 124, a larger relative reduction in VSC may be unavoidable, as the building itself contributes to its poor daylighting. One way to test whether the building is the main factor in poor daylighting is to test the windows without the obstructions in place. In this instance without the wings in place, window 124 would surpass the BRE criteria. The results are presented in appendix 3. The proposed development therefore satisfies the BRE daylight requirements.

4.4 Sunlight to Windows

4.4.1 All windows which face within 90 degrees of due south have been tested for direct sunlight. All habitable room windows pass both the total annual sunlight hours test and the winter sunlight hours test. The proposed development therefore satisfies the BRE direct sunlight to windows requirements.

4.5 Overshadowing to Gardens and Open Spaces

4.5.1 The proposed development will not create any new areas which receive less than two hours of sunlight on 21st March. The before/after ratio is 1 (no loss) and the proposed development therefore passes the BRE overshadowing to gardens and open spaces test.

4.6 Conclusion

4.6.1 The proposed development will have a low impact on the light receivable by its neighbouring properties. Right of Light Consulting confirms that the development design satisfies all of the requirements set out in the BRE guide 'Site Layout Planning for Daylight and Sunlight'.

5 CLARIFICATIONS

5.1 General

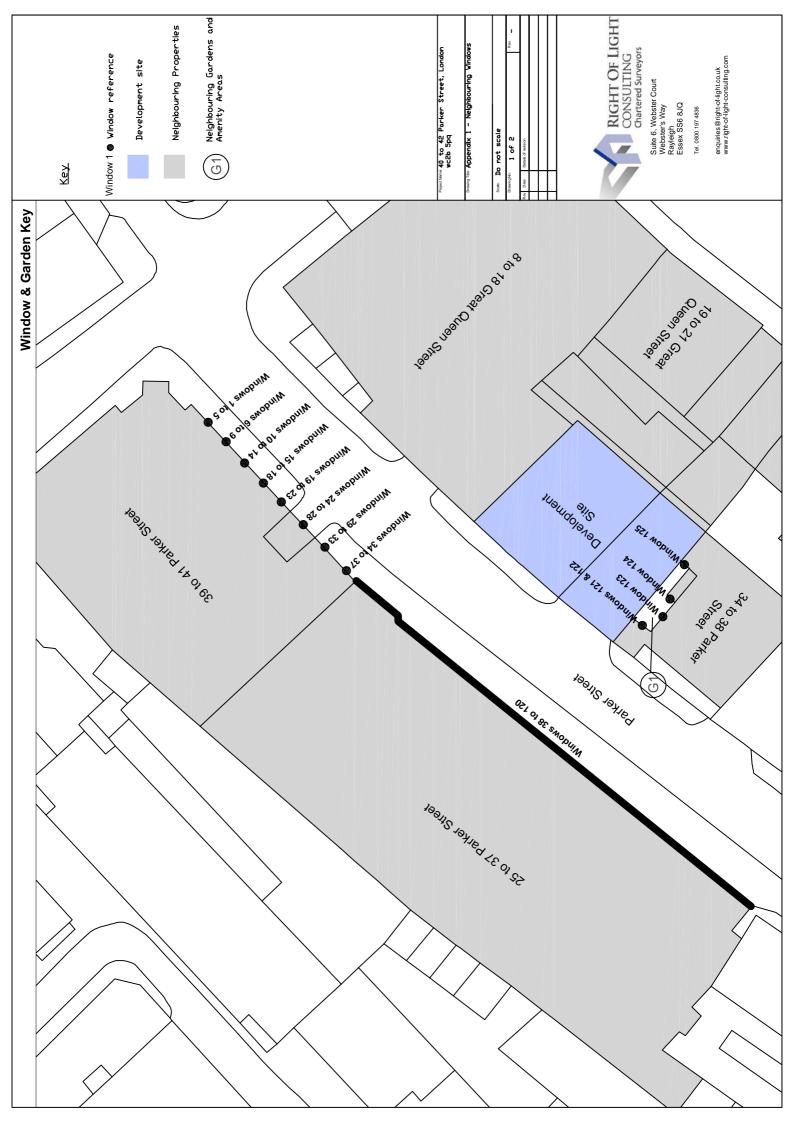
- 5.1.1 The report provided is solely for the use of the client and no liability to anyone else is accepted.
- 5.1.2 We have undertaken the survey following the guidelines of the RICS publication "Surveying Safely".
- 5.1.3 We have used our best endeavours to ensure all relevant windows within the neighbouring properties have been identified.
- 5.1.4 Where limited access is available, reasonable assumptions will have been made.
- 5.1.5 We have adopted the conventional approach of assessing all habitable rooms within domestic properties.
- 5.1.6 Right of Light Consulting have endeavoured to include in the report those matters, which they have knowledge of or of which they have been made aware, that might adversely affect the validity of the opinion given.

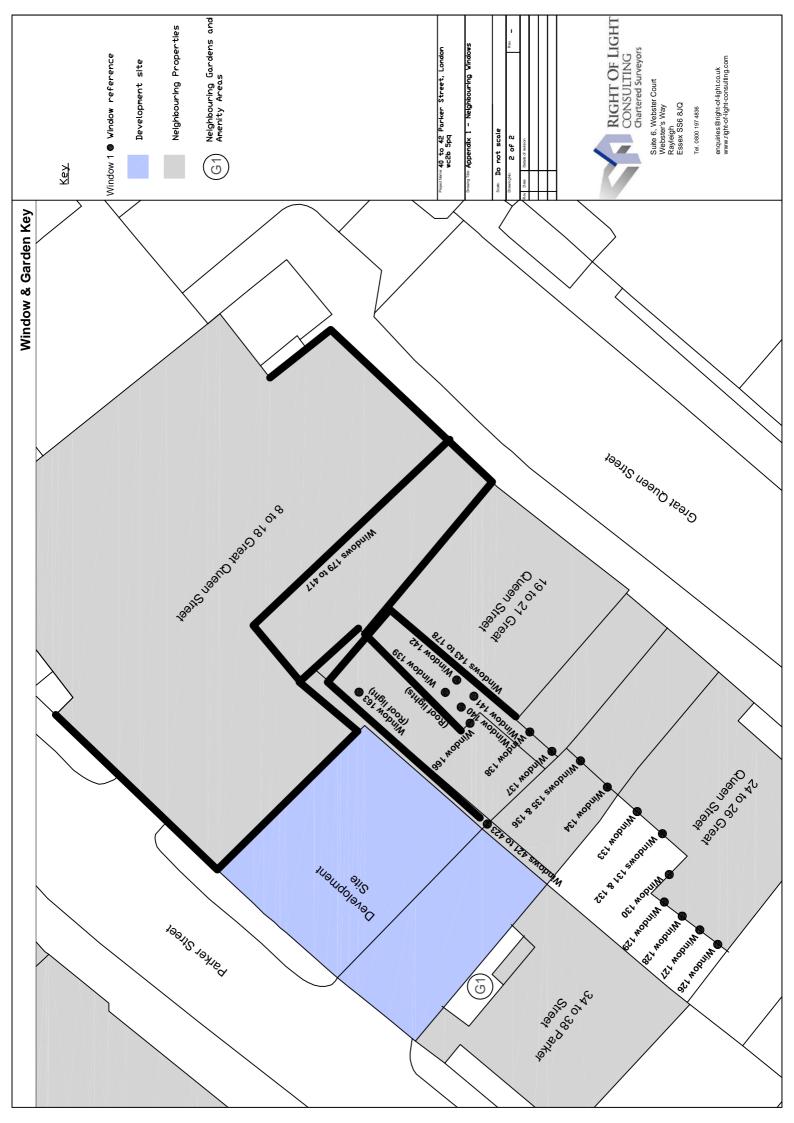
5.2 Project Specific

5.2.1 None



APPENDIX 1	
WINDOW & GARDEN KEY	





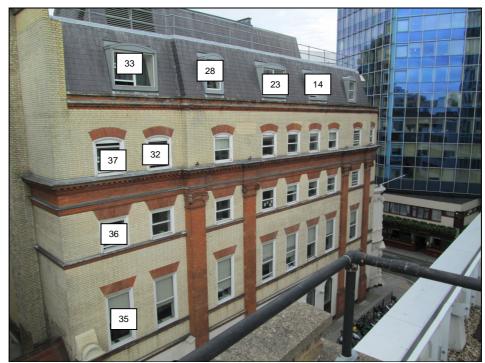
Neighbouring Windows



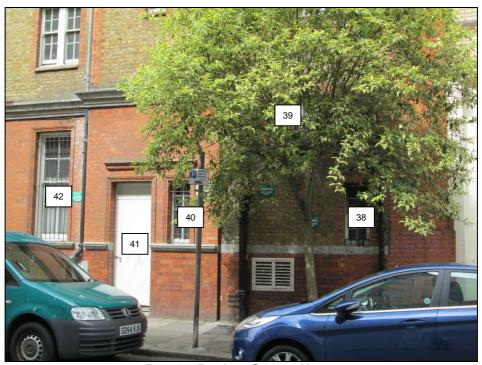
39 to 41 Parker Street



39 to 41 Parker Street



39 to 41 Parker Street



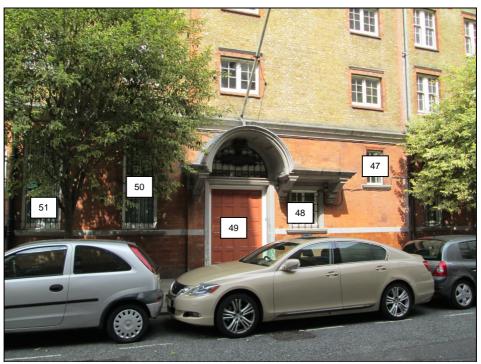
25 to 37 Parker Street House



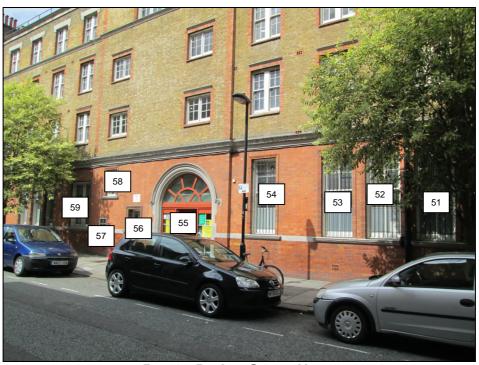
25 to 37 Parker Street House



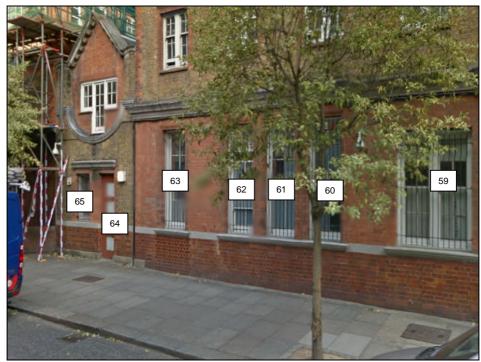
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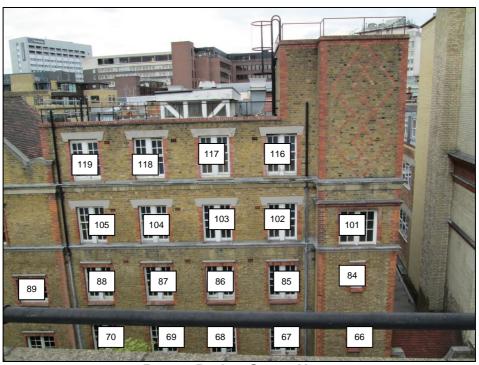
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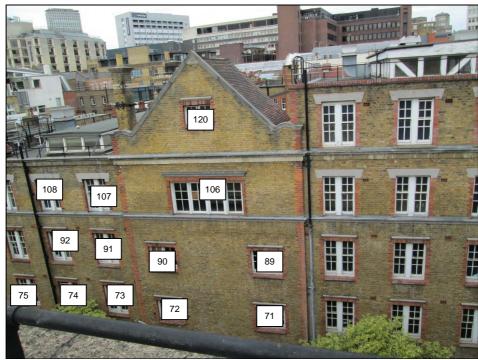
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25 to 37 Parker Street House



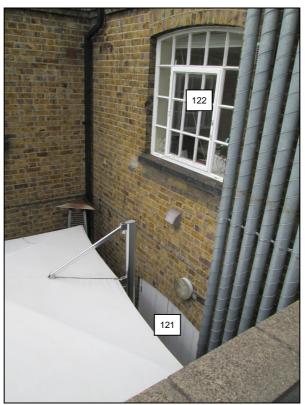
25 to 37 Parker Street House



25 to 37 Parker Street House



25 to 37 Parker Street House



34 to 38 Parker Street



34 to 38 Parker Street



34 to 38 Parker Street



34 to 38 Parker Street



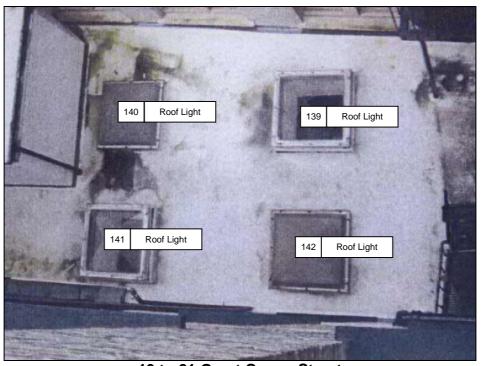
24 to 26 Great Queen Street



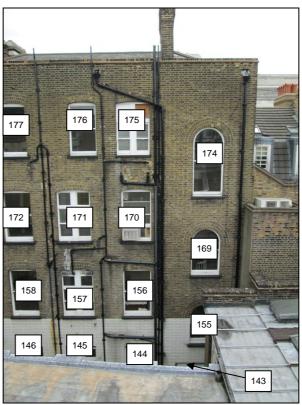
24 to 26 Great Queen Street



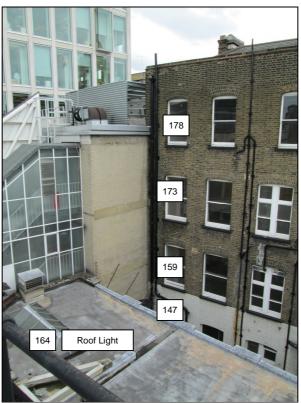
24 to 26 Great Queen Street



19 to 21 Great Queen Street



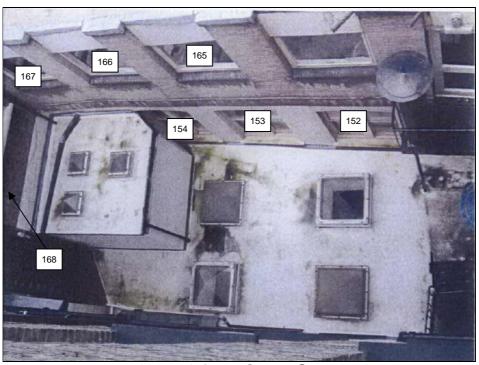
19 to 21 Great Queen Street



19 to 21 Great Queen Street



19 to 21 Great Queen Street



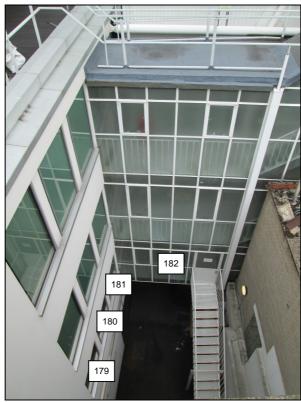
19 to 21 Great Queen Street



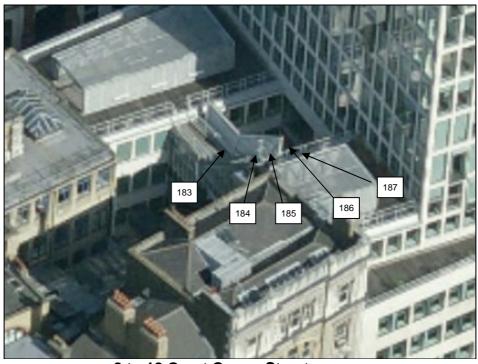
19 to 21 Great Queen Street



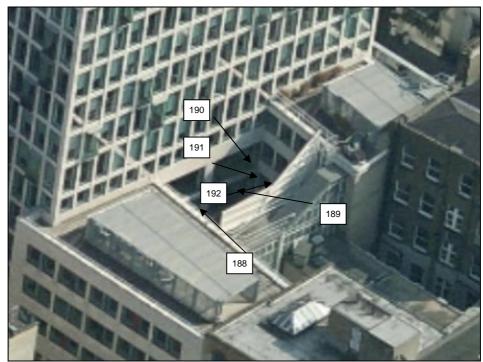
19 to 21 Great Queen Street



8 to 18 Great Queen Street



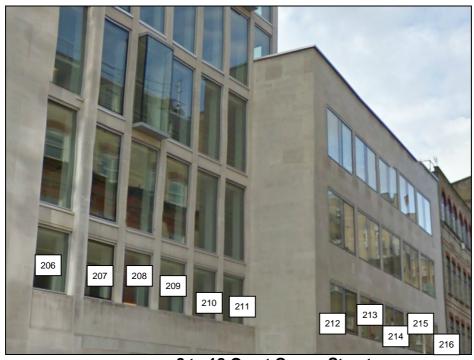
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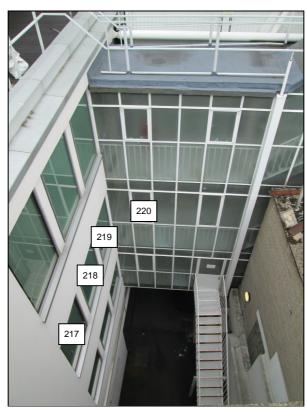
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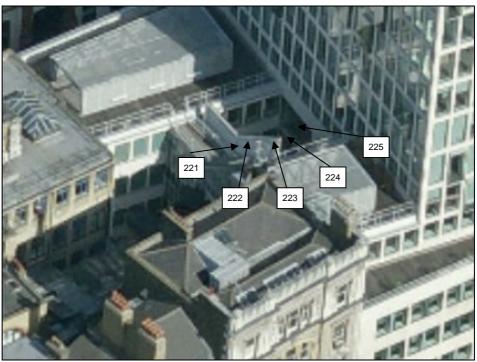
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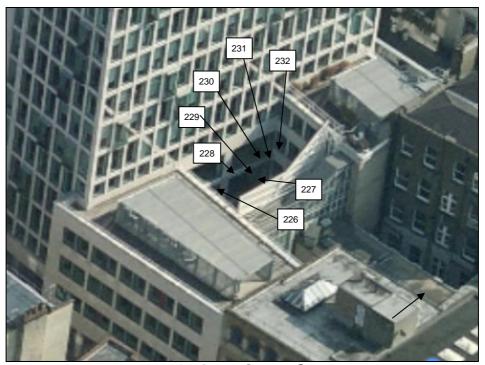
8 to 18 Great Queen Street



8 to 18 Great Queen Street



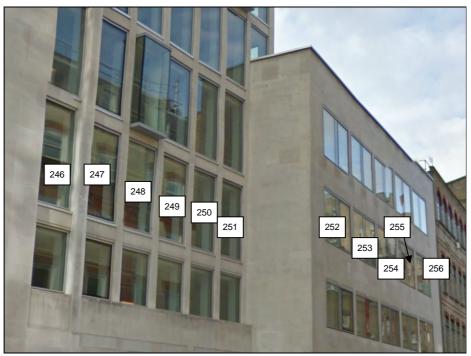
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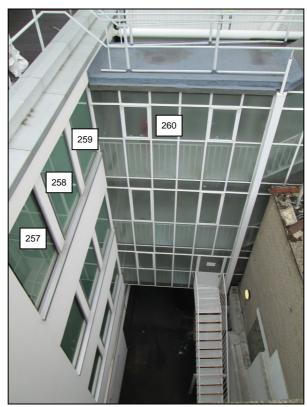
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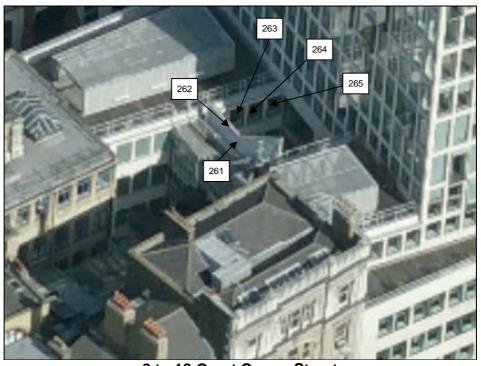
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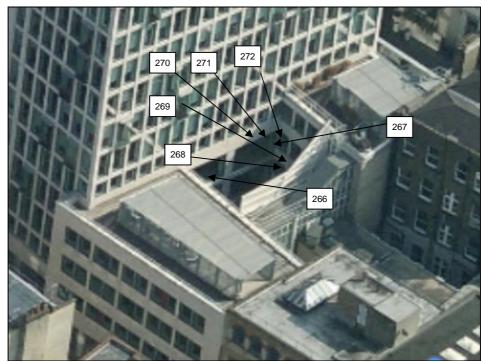
8 to 18 Great Queen Street



8 to 18 Great Queen Street



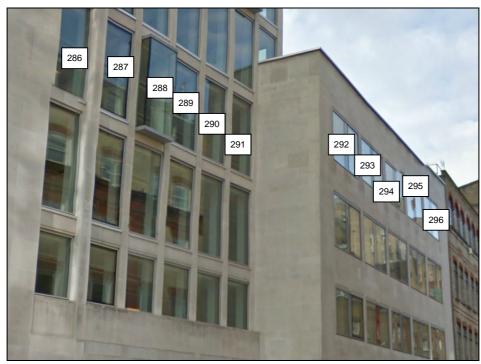
8 to 18 Great Queen Street



8 to 18 Great Queen Street



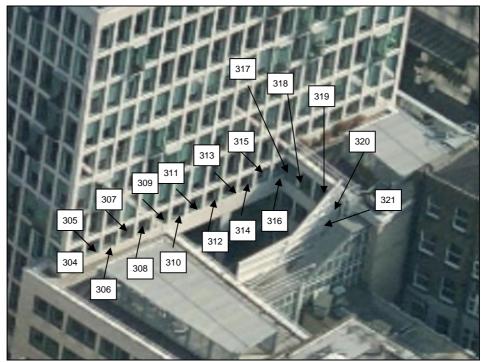
8 to 18 Great Queen Street



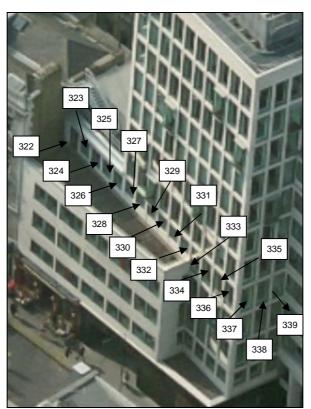
8 to 18 Street Great Queen



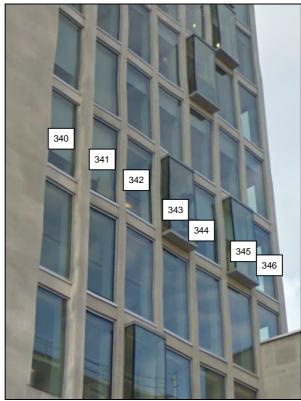
8 to 18 Street Great Queen



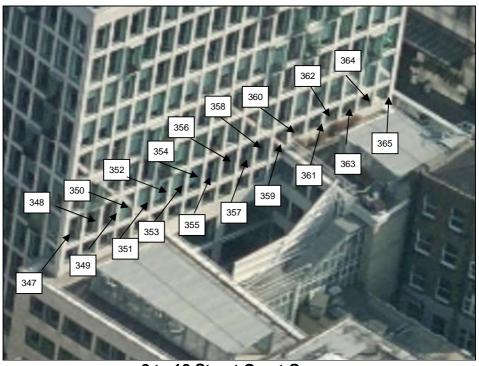
8 to 18 Street Great Queen



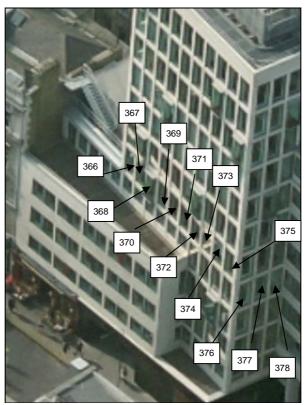
8 to 18 Street Great Queen



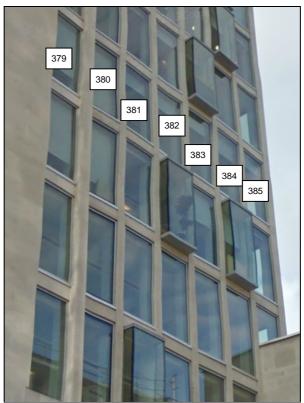
8 to 18 Street Great Queen



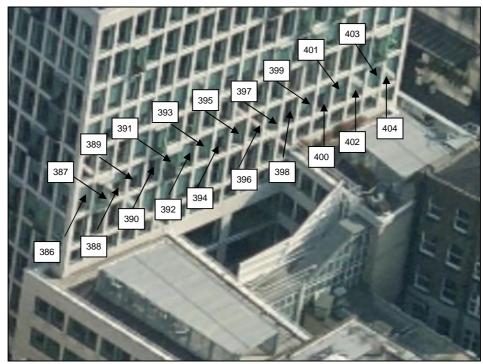
8 to 18 Street Great Queen



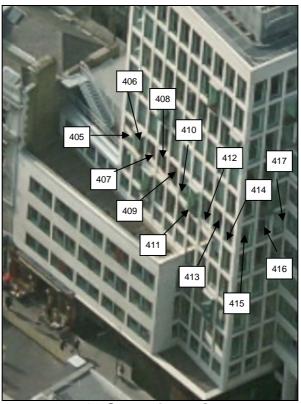
8 to 18 Street Great Queen



8 to 18 Street Great Queen



8 to 18 Street Great Queen



8 to 18 Street Great Queen

APPENDIX	7.2	
DAYLIGHT AND SUNLI		

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class Vertical Sky Componer				Vertical Sky Component	
		Before	After	Loss	Ratio	
39 to 41 Parker Street						
Window 1	Habitable	11.9%	11.7%	0.2%	0.98	
Window 2	Habitable	14.4%	14.1%	0.3%	0.98	
Window 3	Habitable	14.7%	14.4%	0.3%	0.98	
Window 4	Habitable	18.3%	18.0%	0.3%	0.98	
Window 5	Habitable	20.6%	20.5%	0.1%	1.0	
Window 6	Habitable	12.9%	12.6%	0.3%	0.98	
Window 7	Habitable	15.9%	15.5%	0.4%	0.97	
Window 8	Habitable	16.6%	16.2%	0.4%	0.98	
Window 9	Habitable	20.3%	20.0%	0.3%	0.99	
Window 10	Habitable	13.6%	13.3%	0.3%	0.98	
Window 11	Habitable	17.2%	16.7%	0.5%	0.97	
Window 12	Habitable	18.3%	17.8%	0.5%	0.97	
Window 13	Habitable	22.1%	21.7%	0.4%	0.98	
Window 14	Habitable	23.3%	23.1%	0.2%	0.99	
Window 15	Habitable	14.2%	13.8%	0.4%	0.97	
Window 16	Habitable	18.2%	17.6%	0.6%	0.97	
Window 17	Habitable	19.6%	18.9%	0.7%	0.96	
Window 18	Habitable	23.4%	22.9%	0.5%	0.98	
Window 19	Habitable	14.5%	14.1%	0.4%	0.97	
Window 20	Habitable	18.7%	18.0%	0.7%	0.96	
Window 21	Habitable	20.4%	19.6%	0.8%	0.96	
Window 22	Habitable	24.2%	23.7%	0.5%	0.98	
Window 23	Habitable	26.0%	25.8%	0.2%	0.99	
Window 24	Habitable	13.7%	13.2%	0.5%	0.96	
Window 25	Habitable	19.7%	18.7%	1.0%	0.95	
Window 26	Habitable	21.6%	20.6%	1.0%	0.95	
Window 27	Habitable	25.6%	24.9%	0.7%	0.97	
Window 28	Habitable	27.8%	27.7%	0.1%	1.0	
Window 29	Habitable	15.8%	15.1%	0.7%	0.96	

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class		Vertical Sky	Vertical Sky Component		
		Before	After	Loss	Ratio	
Window 30	Habitable	20.6%	19.3%	1.3%	0.94	
Window 31	Habitable	22.8%	21.4%	1.4%	0.94	
Window 32	Habitable	26.9%	26.0%	0.9%	0.97	
Window 33	Habitable	29.5%	29.4%	0.1%	1.0	
Window 34	Habitable	16.2%	15.4%	0.8%	0.95	
Window 35	Habitable	21.1%	19.7%	1.4%	0.93	
Window 36	Habitable	23.6%	21.8%	1.8%	0.92	
Window 37	Habitable	27.7%	26.6%	1.1%	0.96	
25 to 37 Parker Street Hou	ise					
Window 38	Habitable	14.8%	14.1%	0.7%	0.95	
Window 39	Non Habitable	16.6%	15.6%	1.0%	0.94	
Window 40	Non Habitable	14.8%	14.0%	0.8%	0.95	
Window 41	Non Habitable	14.1%	13.3%	0.8%	0.94	
Window 42	Habitable	14.7%	13.5%	1.2%	0.92	
Window 43	Habitable	15.8%	14.5%	1.3%	0.92	
Window 44	Habitable	15.8%	14.5%	1.3%	0.92	
Window 45	Habitable	15.8%	14.4%	1.4%	0.91	
Window 46	Habitable	15.7%	14.3%	1.4%	0.91	
Window 47	Non Habitable	16.5%	15.0%	1.5%	0.91	
Window 48	Habitable	15.0%	13.8%	1.2%	0.92	
Window 49	Habitable	15.8%	14.7%	1.1%	0.93	
Window 50	Habitable	15.9%	14.9%	1.0%	0.94	
Window 51	Habitable	16.0%	15.3%	0.7%	0.96	
Window 52	Habitable	16.1%	15.4%	0.7%	0.96	
Window 53	Habitable	16.3%	15.7%	0.6%	0.96	
Window 54	Habitable	16.5%	16.1%	0.4%	0.98	
Window 55	Habitable	17.2%	16.9%	0.3%	0.98	
Window 56	Habitable	16.8%	16.7%	0.1%	0.99	
Window 57	Habitable	16.8%	16.7%	0.1%	0.99	
Window 58	Habitable	18.9%	18.8%	0.1%	0.99	
Window 59	Habitable	18.1%	18.1%	0.0%	1.0	
Window 60	Habitable	18.5%	18.5%	0.0%	1.0	
Window 61	Habitable	18.6%	18.6%	0.0%	1.0	
Window 62	Habitable	18.5%	18.5%	0.0%	1.0	
Window 63	Habitable	18.4%	18.4%	0.0%	1.0	
Window 64	Habitable	16.7%	16.7%	0.0%	1.0	
Window 65	Habitable	17.0%	17.0%	0.0%	1.0	
Window 66	Non Habitable	20.4%	18.7%	1.7%	0.92	
Window 67	Habitable	19.2%	17.2%	2.0%	0.9	
Window 68	Habitable	20.2%	17.8%	2.4%	0.88	
Window 69	Habitable	20.3%	17.9%	2.4%	0.88	
Window 70	Habitable	20.2%	17.8%	2.4%	0.88	

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class		Vertical Sky	Component	
		Before	After	Loss	Ratio
Window 71	Non Habitable	19.9%	17.8%	2.1%	0.89
Window 72	Non Habitable	19.9%	18.2%	1.7%	0.91
Window 73	Habitable	20.3%	18.9%	1.4%	0.93
Window 74	Habitable	20.3%	19.2%	1.1%	0.95
Window 74	Habitable	20.3%	19.2%	1.1%	0.95
Window 75	Habitable	20.4%	19.6%	0.8%	0.96
Window 75	Habitable	20.4%	19.6%	0.8%	0.96
Window 76	Habitable	20.6%	20.1%	0.5%	0.98
Window 77	Non Habitable	20.9%	20.6%	0.3%	0.99
Window 78	Non Habitable	21.9%	21.9%	0.0%	1.0
Window 79	Habitable	22.6%	22.6%	0.0%	1.0
Window 80	Habitable	22.8%	22.8%	0.0%	1.0
Window 80	Habitable	22.8%	22.8%	0.0%	1.0
Window 81	Habitable	22.9%	22.9%	0.0%	1.0
Window 82	Habitable	22.9%	22.8%	0.1%	1.0
Window 83	Habitable	20.4%	20.4%	0.0%	1.0
Window 84	Non Habitable	24.1%	21.6%	2.5%	0.9
Window 85	Habitable	22.9%	19.9%	3.0%	0.87
Window 86	Habitable	24.0%	20.6%	3.4%	0.86
Window 87	Habitable	24.1%	20.7%	3.4%	0.86
Window 88	Habitable	24.1%	20.7%	3.4%	0.86
Window 89	Non Habitable	23.8%	20.7%	3.1%	0.87
Window 90	Non Habitable	23.7%	21.3%	2.4%	0.9
Window 91	Habitable	24.1%	22.0%	2.1%	0.91
Window 92	Habitable	24.1%	22.5%	1.6%	0.93
Window 92	Habitable	24.1%	22.5%	1.6%	0.93
Window 93	Habitable	24.0%	22.9%	1.1%	0.95
Window 93	Habitable	24.0%	22.9%	1.1%	0.95
Window 94	Habitable	24.1%	23.5%	0.6%	0.98
Window 95	Non Habitable	24.2%	24.0%	0.2%	0.99
Window 96	Non Habitable	25.3%	25.2%	0.1%	1.0
Window 97	Habitable	26.0%	26.0%	0.0%	1.0

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class		Vertical Sky	Component	
		Before	After	Loss	Ratio
Window 98	Habitable	26.3%	26.3%	0.0%	1.0
Window 98	Habitable	26.3%	26.3%	0.0%	1.0
Window 99	Habitable	26.4%	26.4%	0.0%	1.0
Window 100	Habitable	26.4%	26.4%	0.0%	1.0
Window 101	Non Habitable	26.7%	23.9%	2.8%	0.9
Window 102	Habitable	26.2%	22.7%	3.5%	0.87
Window 103	Habitable	27.6%	23.5%	4.1%	0.85
Window 104	Habitable	27.8%	23.7%	4.1%	0.85
Window 105	Habitable	27.9%	23.9%	4.0%	0.86
Window 106	Non Habitable	28.0%	24.3%	3.7%	0.87
Window 108	Habitable	27.8%	25.9%	1.9%	0.93
Window 107	Habitable	27.9%	25.5%	2.4%	0.91
Window 108	Habitable	27.8%	25.9%	1.9%	0.93
Window 109	Habitable	27.7%	26.5%	1.2%	0.96
Window 110	Habitable	27.8%	27.1%	0.7%	0.97
Window 111	Non Habitable	28.3%	28.2%	0.1%	1.0
Window 112	Habitable	29.4%	29.4%	0.0%	1.0
Window 113	Habitable	29.7%	29.6%	0.1%	1.0
Window 114	Habitable	29.6%	29.6%	0.0%	1.0
Window 113	Habitable	29.7%	29.6%	0.1%	1.0
Window 115	Habitable	29.8%	29.8%	0.0%	1.0
Window 116	Habitable	28.2%	25.8%	2.4%	0.91
Window 117	Habitable	29.7%	26.9%	2.8%	0.91
Window 118	Habitable	30.1%	27.2%	2.9%	0.9
Window 119	Habitable	30.4%	27.5%	2.9%	0.9
Window 120	Habitable	31.2%	29.0%	2.2%	0.93
34 to 38 Parker Street					
Window 121	Non Habitable	16.6%	10.7%	5.9%	0.64
Window 122	Habitable	26.0%	21.9%	4.1%	0.84
Window 123	Habitable	26.3%	19.9%	6.4%	0.76
Window 124	Non Habitable	16.9%	13.4%	3.5%	0.79
Window 125	Non Habitable	7.5%	2.4%	5.1%	0.32

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
24 to 26 Great Queen Str	<u>eet</u>				
Window 126	Habitable	30.5%	30.2%	0.3%	0.99
Window 127	Habitable	30.3%	29.9%	0.4%	0.99
Window 127 Window 128	Habitable	30.2%	29.7%	0.5%	0.98
Window 129	Habitable	30.2%		0.8%	0.97
Window 130	Habitable	18.2%	16.8%	1.4%	0.92
Window 131	Habitable	18.2%	17.4%	0.8%	0.96
Window 132	Habitable	25.4%	23.2%	2.2%	0.91
Window 133	Habitable	32.8%	30.1%	2.7%	0.92
Window 134	Habitable	27.6%	24.9%	2.7%	0.9
Window 135	Habitable	19.4%	18.5%	0.9%	0.95
Window 136	Habitable	32.0%		4.1%	0.87
Window 137	Habitable	35.8%	32.8%	3.0%	0.92
Window 138	Habitable	35.5%	32.4%	3.1%	0.91
19 to 21 Great Queen Stre	 <u> </u> 				
Window 139	Habitable	2.6%	2.6%	0.0%	1.0
Window 140	Habitable	3.0%	3.0%	0.0%	1.0
Window 141	Habitable	3.1%	3.1%	0.0%	1.0
Window 142	Habitable	2.3%	2.3%	0.0%	1.0
Window 143	Habitable	6.6%	6.6%	0.0%	1.0
Window 144	Habitable	12.3%	11.4%	0.9%	0.93
Window 145	Habitable	12.8%	12.1%	0.7%	0.95
Window 146	Habitable	12.0%	11.5%	0.5%	0.96
Window 147	Habitable	9.9%	9.7%	0.2%	0.98
Window 148	Habitable	0.7%	0.7%	0.0%	1.0
Window 149	Habitable	0.9%	0.8%	0.1%	0.89
Window 150	Habitable	1.5%	1.4%	0.1%	0.93
Window 151	Habitable	3.1%	2.8%	0.3%	0.9
Window 152	Habitable	3.0%	3.0%	0.0%	1.0
Window 153	Habitable	3.2%	3.2%	0.0%	1.0
Window 154	Habitable	1.6%	1.6%	0.0%	1.0
Window 155	Non Habitable	15.0%	13.4%	1.6%	0.89
Window 156	Habitable	22.1%	18.9%	3.2%	0.86
Window 157	Habitable	22.5%	19.5%	3.0%	0.87
Window 158	Habitable	21.9%	19.1%	2.8%	0.87
Window 159	Habitable	18.8%	16.2%	2.6%	0.86
Window 160	Habitable	1.9%	1.7%	0.2%	0.89
Window 161	Habitable	20.2%	19.8%	0.4%	0.98

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 162	Habitable	23.0%	22.7%	0.3%	0.99
Window 163	Habitable	28.6%	27.4%	1.2%	0.96
Window 164	Habitable	55.5%	51.7%	3.8%	0.93
Window 165	Habitable	5.6%	5.6%	0.0%	1.0
Window 166	Habitable	6.1%	6.1%	0.0%	1.0
Window 167	Habitable	5.4%	5.4%	0.0%	1.0
Window 168	Habitable	7.9%	7.9%	0.0%	1.0
Window 169	Non Habitable	24.8%	20.5%	4.3%	0.83
Window 170	Habitable	28.0%	23.7%	4.3%	0.85
Window 171	Habitable	27.8%	24.0%	3.8%	0.86
Window 172	Habitable	27.3%	23.9%	3.4%	0.88
Window 173	Habitable	24.3%	21.4%	2.9%	0.88
Window 174	Non Habitable	31.4%	26.9%	4.5%	0.86
Window 175	Habitable	32.7%	28.8%	3.9%	0.88
Window 176	Habitable	32.2%	28.8%	3.4%	0.89
Window 177	Habitable	31.3%	28.4%	2.9%	0.91
Window 178	Habitable	30.3%	27.8%	2.5%	0.92
8 to 18 Great Queen Stree	<u>t</u>				
Window 179	Non Domestic	11.0%	11.0%	0.0%	1.0
Window 180	Non Domestic	11.8%	11.7%	0.1%	0.99
Window 181	Non Domestic	9.4%	9.4%	0.0%	1.0
Window 183	Non Domestic	8.3%	8.3%	0.0%	1.0
Window 184	Non Domestic	8.8%	8.8%	0.0%	1.0
Window 185	Non Domestic	9.0%	9.0%	0.0%	1.0
Window 186	Non Domestic	9.0%	9.0%	0.0%	1.0
Window 187	Non Domestic	8.6%	8.6%	0.0%	1.0
Window 188	Non Domestic	13.6%	13.2%	0.4%	0.97
Window 189	Non Domestic	14.1%	13.5%	0.6%	0.96
Window 190	Non Domestic	11.3%	10.9%	0.4%	0.96
Window 191	Non Domestic	11.4%	11.1%	0.3%	0.97
Window 192	Non Domestic	11.1%	10.8%	0.3%	0.97
Window 193	Non Domestic	14.6%	14.6%	0.0%	1.0
Window 194	Non Domestic	14.5%	14.5%	0.0%	1.0
Window 195	Non Domestic	14.4%	14.4%	0.0%	1.0
Window 196	Non Domestic	14.3%	14.3%	0.0%	1.0
Window 197	Non Domestic	14.2%	14.2%	0.0%	1.0

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 198	Non Domestic	10.7%	10.7%	0.0%	1.0
Window 199	Non Domestic	9.0%	9.0%	0.0%	1.0
Window 200	Non Domestic	11.8%	11.8%	0.0%	1.0
Window 201	Non Domestic	13.3%	13.3%	0.0%	1.0
Window 202	Non Domestic	14.0%	14.0%	0.0%	1.0
Window 203	Non Domestic	13.3%	13.3%	0.0%	1.0
Window 204	Non Domestic	12.9%	12.9%	0.0%	1.0
Window 205	Non Domestic	12.4%	12.4%	0.0%	1.0
Window 206	Non Domestic	15.1%	15.1%	0.0%	1.0
Window 207	Non Domestic	14.5%	14.5%	0.0%	1.0
Window 208	Non Domestic	13.8%	13.8%	0.0%	1.0
Window 209	Non Domestic	12.7%	12.7%	0.0%	1.0
Window 210	Non Domestic	11.2%	11.2%	0.0%	1.0
Window 211	Non Domestic	8.8%	8.8%	0.0%	1.0
Window 212	Non Domestic	12.5%	12.5%	0.0%	1.0
Window 213	Non Domestic	13.1%	13.1%	0.0%	1.0
Window 214	Non Domestic	14.3%	14.3%	0.0%	1.0
Window 215	Non Domestic	16.2%	16.2%	0.0%	1.0
Window 216	Non Domestic	17.9%	17.9%	0.0%	1.0
Window 182	Non Domestic	6.6%	5.7%	0.9%	0.86
Window 217	Non Domestic	15.0%	14.9%	0.1%	0.99
Window 218	Non Domestic	16.8%	16.7%	0.1%	0.99
Window 219	Non Domestic	15.1%	15.0%	0.1%	0.99
Window 221	Non Domestic	11.4%	11.4%	0.0%	1.0
Window 222	Non Domestic	12.1%	12.1%	0.0%	1.0
Window 223	Non Domestic	12.2%	12.2%	0.0%	1.0
Window 224	Non Domestic	11.9%	11.9%	0.0%	1.0
Window 225	Non Domestic	11.2%	11.2%	0.0%	1.0
Window 226	Non Domestic	20.2%	19.1%	1.1%	0.95
Window 227	Non Domestic	19.3%	18.1%	1.2%	0.94
Window 228	Non Domestic	14.4%	13.9%	0.5%	0.97
Window 229	Non Domestic	15.1%	14.6%	0.5%	0.97
Window 230	Non Domestic	15.0%	14.5%	0.5%	0.97
Window 231	Non Domestic	13.8%	13.0%	0.8%	0.94
Window 232	Non Domestic	12.5%	11.3%	1.2%	0.9
Window 233	Non Domestic	17.2%	17.2%	0.0%	1.0

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 234	Non Domestic	17.2%	17.2%	0.0%	1.0
Window 235	Non Domestic	17.1%	17.1%	0.0%	1.0
Window 236	Non Domestic	17.0%	17.0%	0.0%	1.0
Window 237	Non Domestic	16.8%	16.8%	0.0%	1.0
Window 238	Non Domestic	11.8%	11.8%	0.0%	1.0
Window 239	Non Domestic	11.0%	11.0%	0.0%	1.0
Window 240	Non Domestic	14.4%	14.4%	0.0%	1.0
Window 241	Non Domestic	16.1%	16.1%	0.0%	1.0
Window 242	Non Domestic	16.8%	16.8%	0.0%	1.0
Window 243	Non Domestic	14.5%	14.5%	0.0%	1.0
Window 244	Non Domestic	14.1%	14.1%	0.0%	1.0
Window 245	Non Domestic	13.6%	13.6%	0.0%	1.0
Window 246	Non Domestic	17.6%	17.6%	0.0%	1.0
Window 247	Non Domestic	17.2%	17.2%	0.0%	1.0
Window 248	Non Domestic	16.5%	16.5%	0.0%	1.0
Window 249	Non Domestic	15.4%	15.4%	0.0%	1.0
Window 250	Non Domestic	13.6%	13.6%	0.0%	1.0
Window 251	Non Domestic	10.6%	10.6%	0.0%	1.0
Window 252	Non Domestic	15.3%	15.3%	0.0%	1.0
Window 253	Non Domestic	15.8%	15.8%	0.0%	1.0
Window 254	Non Domestic	17.4%	17.4%	0.0%	1.0
Window 255	Non Domestic	19.5%	19.5%	0.0%	1.0
Window 256	Non Domestic	21.5%	21.5%	0.0%	1.0
Window 220	Non Domestic	15.3%	13.5%	1.8%	0.88
Window 257	Non Domestic	20.3%	20.0%	0.3%	0.99
Window 258	Non Domestic	21.7%	21.5%	0.2%	0.99
Window 259	Non Domestic	21.0%	20.9%	0.1%	1.0
Window 261	Non Domestic	17.5%	17.5%	0.0%	1.0
Window 262	Non Domestic	17.1%	17.1%	0.0%	1.0
Window 263	Non Domestic	16.2%	16.2%	0.0%	1.0
Window 264	Non Domestic	15.2%	15.1%	0.1%	0.99
Window 265	Non Domestic	14.1%	14.1%	0.0%	1.0
Window 266	Non Domestic	29.2%	27.5%	1.7%	0.94
Window 267	Non Domestic	24.7%	23.2%	1.5%	0.94
Window 268	Non Domestic	17.0%	16.2%	0.8%	0.95
Window 269	Non Domestic	18.3%	17.3%	1.0%	0.95
Window 270	Non Domestic	18.9%	18.1%	0.8%	0.96
Window 271	Non Domestic	18.0%	17.6%	0.4%	0.98
Window 272	Non Domestic	13.7%	12.0%	1.7%	0.88
Window 273	Non Domestic	20.7%	20.7%	0.0%	1.0
Window 274	Non Domestic	20.6%	20.6%	0.0%	1.0
Window 275	Non Domestic	20.5%	20.5%	0.0%	1.0

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 276	Non Domestic	20.4%	20.4%	0.0%	1.0
Window 277	Non Domestic	20.3%	20.3%	0.0%	1.0
Window 278	Non Domestic	13.1%	13.1%	0.0%	1.0
Window 279	Non Domestic	14.2%	14.2%	0.0%	1.0
Window 280	Non Domestic	18.5%	18.5%	0.0%	1.0
Window 281	Non Domestic	20.0%	20.0%	0.0%	1.0
Window 282	Non Domestic	20.4%	20.4%	0.0%	1.0
Window 283	Non Domestic	16.0%	16.0%	0.0%	1.0
Window 284	Non Domestic	15.4%	15.4%	0.0%	1.0
Window 285	Non Domestic	14.6%	14.6%	0.0%	1.0
Window 286	Non Domestic	20.8%	20.8%	0.0%	1.0
Window 287	Non Domestic	20.4%	20.4%	0.0%	1.0
Window 288	Non Domestic	19.9%	19.9%	0.0%	1.0
Window 289	Non Domestic	19.1%	19.1%	0.0%	1.0
Window 290	Non Domestic	17.4%	17.4%	0.0%	1.0
Window 291	Non Domestic	13.3%	13.3%	0.0%	1.0
Window 292	Non Domestic	18.9%	18.9%	0.0%	1.0
Window 293	Non Domestic	19.7%	19.7%	0.0%	1.0
Window 294	Non Domestic	21.2%	21.2%	0.0%	1.0
Window 295	Non Domestic	23.3%	23.3%	0.0%	1.0
Window 296	Non Domestic	25.4%	25.4%	0.0%	1.0
Window 260	Non Domestic	25.2%	21.2%	4.0%	0.84
Window 297	Non Domestic	24.2%	24.2%	0.0%	1.0
Window 298	Non Domestic	24.0%	24.0%	0.0%	1.0
Window 299	Non Domestic	23.9%	23.9%	0.0%	1.0
Window 300	Non Domestic	23.8%	23.8%	0.0%	1.0
Window 301	Non Domestic	23.7%	23.7%	0.0%	1.0
Window 302	Non Domestic	23.6%	23.6%	0.0%	1.0
Window 303	Non Domestic	24.4%	24.4%	0.0%	1.0
Window 304	Non Domestic	33.2%	32.4%	0.8%	0.98
Window 305	Non Domestic	32.9%	32.0%	0.9%	0.97
Window 306	Non Domestic	32.9%	32.0%	0.9%	0.97
Window 307	Non Domestic	33.4%	32.3%	1.1%	0.97
Window 308	Non Domestic	33.8%	32.5%	1.3%	0.96
Window 309	Non Domestic	34.1%	32.6%	1.5%	0.96
Window 310	Non Domestic	34.3%	32.7%	1.6%	0.95
Window 311	Non Domestic	34.3%	32.6%	1.7%	0.95
Window 312	Non Domestic	34.1%	32.4%	1.7%	0.95
Window 313	Non Domestic	33.6%	31.9%	1.7%	0.95

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 314	Non Domestic	32.7%	31.1%	1.6%	0.95
Window 315	Non Domestic	31.3%	29.7%	1.6%	0.95
Window 316	Non Domestic	26.3%	24.9%	1.4%	0.95
Window 317	Non Domestic	18.5%	17.6%	0.9%	0.95
Window 318	Non Domestic	19.8%	18.7%	1.1%	0.94
Window 319	Non Domestic	21.2%	19.9%	1.3%	0.94
Window 320	Non Domestic	22.5%	21.1%	1.4%	0.94
Window 321	Non Domestic	23.7%	22.0%	1.7%	0.93
Window 322	Non Domestic	18.5%	18.5%	0.0%	1.0
Window 323	Non Domestic	21.8%	21.8%	0.0%	1.0
Window 324	Non Domestic	23.5%	23.5%	0.0%	1.0
Window 325	Non Domestic	24.3%	24.3%	0.0%	1.0
Window 326	Non Domestic	24.6%	24.6%	0.0%	1.0
Window 327	Non Domestic	24.7%	24.7%	0.0%	1.0
Window 328	Non Domestic	24.7%	24.7%	0.0%	1.0
Window 329	Non Domestic	24.7%	24.7%	0.0%	1.0
Window 330	Non Domestic	24.6%	24.6%	0.0%	1.0
Window 331	Non Domestic	24.4%	24.4%	0.0%	1.0
Window 332	Non Domestic	24.2%	24.2%	0.0%	1.0
Window 333	Non Domestic	24.2%	24.2%	0.0%	1.0
Window 334	Non Domestic	24.2%	24.2%	0.0%	1.0
Window 335	Non Domestic	24.2%	24.2%	0.0%	1.0
Window 336	Non Domestic	24.1%	24.1%	0.0%	1.0
Window 337	Non Domestic	17.4%	17.4%	0.0%	1.0
Window 338	Non Domestic	16.5%	16.5%	0.0%	1.0
Window 339	Non Domestic	15.6%	15.6%	0.0%	1.0
Window 340	Non Domestic	27.8%	27.8%	0.0%	1.0
Window 341	Non Domestic	27.8%	27.8%	0.0%	1.0
Window 342	Non Domestic	27.7%	27.7%	0.0%	1.0
Window 343	Non Domestic	27.7%	27.7%	0.0%	1.0
Window 344	Non Domestic	27.7%	27.7%	0.0%	1.0
Window 345	Non Domestic	27.7%	27.7%	0.0%	1.0
Window 346	Non Domestic	27.8%	27.8%	0.0%	1.0

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 347	Non Domestic	36.3%	35.4%	0.9%	0.98
Window 348	Non Domestic	36.5%	35.7%	0.8%	0.98
Window 349	Non Domestic	36.7%	35.8%	0.9%	0.98
Window 350	Non Domestic	36.9%	35.9%	1.0%	0.97
Window 351	Non Domestic	37.0%	36.0%	1.0%	0.97
Window 352	Non Domestic	37.0%	36.0%	1.0%	0.97
Window 353	Non Domestic	37.0%	35.9%	1.1%	0.97
Window 354	Non Domestic	37.1%	35.9%	1.2%	0.97
Window 355	Non Domestic	37.0%	35.9%	1.1%	0.97
Window 356	Non Domestic	37.0%	35.8%	1.2%	0.97
Window 357	Non Domestic	36.9%	35.8%	1.1%	0.97
Window 358	Non Domestic	36.5%	35.4%	1.1%	0.97
Window 359	Non Domestic	35.7%	34.7%	1.0%	0.97
Window 360	Non Domestic	34.4%	33.4%	1.0%	0.97
Window 361	Non Domestic	32.2%	31.3%	0.9%	0.97
Window 362	Non Domestic	30.6%	30.1%	0.5%	0.98
Window 363	Non Domestic	31.0%	31.0%	0.0%	1.0
Window 364	Non Domestic	32.2%	32.2%	0.0%	1.0
Window 365	Non Domestic	33.0%	33.0%	0.0%	1.0
Window 366	Non Domestic	27.7%	27.7%	0.0%	1.0
Window 367	Non Domestic	27.7%	27.7%	0.0%	1.0
Window 368	Non Domestic	27.6%	27.6%	0.0%	1.0
Window 369	Non Domestic	27.5%	27.5%	0.0%	1.0
Window 370	Non Domestic	27.4%	27.4%	0.0%	1.0
Window 371	Non Domestic	27.3%	27.3%	0.0%	1.0
Window 372	Non Domestic	27.2%	27.2%	0.0%	1.0
Window 373	Non Domestic	27.1%	27.1%	0.0%	1.0
Window 374	Non Domestic	26.9%	26.9%	0.0%	1.0
Window 375	Non Domestic	26.8%	26.8%	0.0%	1.0
Window 376	Non Domestic	18.8%	18.8%	0.0%	1.0
Window 377	Non Domestic	17.8%	17.8%	0.0%	1.0
Window 378	Non Domestic	16.7%	16.7%	0.0%	1.0
Window 379	Non Domestic	31.4%	31.4%	0.0%	1.0
Window 380	Non Domestic	31.5%	31.5%	0.0%	1.0
Window 381	Non Domestic	31.6%	31.6%	0.0%	1.0
Window 382	Non Domestic	31.7%	31.7%	0.0%	1.0
Window 383	Non Domestic	31.8%	31.8%	0.0%	1.0
Window 384	Non Domestic	31.8%	31.8%	0.0%	1.0
Window 385	Non Domestic	31.9%	31.9%	0.0%	1.0
Window 386	Non Domestic	37.7%	37.5%	0.2%	0.99
Window 387	Non Domestic	37.9%	37.6%	0.3%	0.99

Appendix 2 - Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class		Vertical Sky	Component	
		Before	After	Loss	Ratio
Window 388	Non Domestic	38.0%	37.7%	0.3%	0.99
Window 389	Non Domestic	38.1%	37.7%	0.4%	0.99
Window 390	Non Domestic	38.1%	37.8%	0.3%	0.99
Window 391	Non Domestic	38.1%	37.8%	0.3%	0.99
Window 392	Non Domestic	38.1%	37.7%	0.4%	0.99
Window 393	Non Domestic	38.1%	37.7%	0.4%	0.99
Window 394	Non Domestic	38.1%	37.7%	0.4%	0.99
Window 395	Non Domestic	38.1%	37.7%	0.4%	0.99
Window 396	Non Domestic	38.0%	37.6%	0.4%	0.99
Window 397	Non Domestic	38.0%	37.6%	0.4%	0.99
Window 398	Non Domestic	38.0%	37.6%	0.4%	0.99
Window 399	Non Domestic	37.9%	37.5%	0.4%	0.99
Window 400	Non Domestic	37.8%	37.5%	0.3%	0.99
Window 401	Non Domestic	37.7%	37.4%	0.3%	0.99
Window 402	Non Domestic	37.6%	37.3%	0.3%	0.99
Window 403	Non Domestic	37.5%	37.2%	0.3%	0.99
Window 404	Non Domestic	37.4%	37.1%	0.3%	0.99
Window 405	Non Domestic	30.5%	30.5%	0.0%	1.0
Window 406	Non Domestic	30.4%	30.4%	0.0%	1.0
Window 407	Non Domestic	30.3%	30.3%	0.0%	1.0
Window 408	Non Domestic	30.2%	30.2%	0.0%	1.0
Window 409	Non Domestic	30.2%	30.2%	0.0%	1.0
Window 410	Non Domestic	30.1%	30.1%	0.0%	1.0
Window 411	Non Domestic	30.0%	30.0%	0.0%	1.0
Window 412	Non Domestic	29.9%	29.9%	0.0%	1.0
Window 413	Non Domestic	29.8%	29.8%	0.0%	1.0
Window 414	Non Domestic	29.7%	29.7%	0.0%	1.0
Window 415	Non Domestic	20.4%	20.4%	0.0%	1.0
Window 416	Non Domestic	19.1%	19.1%	0.0%	1.0
Window 417	Non Domestic	17.8%	17.8%	0.0%	1.0

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

					Sunlight to	Windov	VS		
Reference	Use Class	Т	otal Sur	light Ho	urs	W	/inter Su	nlight Ho	ours
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
39 to 41 Parker Street									
Window 1	Non Habitable	22%	21%	1%	0.95	7%	6%	1%	0.86
Window 2	Habitable	28%	26%	2%	0.93	13%	11%	2%	0.85
Window 3	Habitable	27%	26%	1%	0.96	14%	13%	1%	0.93
Window 4	Habitable	38%	38%	0%	1.0	15%	15%	0%	1.0
Window 5	Habitable	47%	47%	0%	1.0	16%	16%	0%	1.0
Window 6	Habitable	29%	27%	2%	0.93	9%	7%	2%	0.78
Window 7	Habitable	34%	33%	1%	0.97	14%	13%	1%	0.93
Window 8	Habitable	31%	30%	1%	0.97	16%	15%	1%	0.94
Window 9	Habitable	40%	40%	0%	1.0	17%	17%	0%	1.0
Window 10	Habitable	29%	28%	1%	0.97	8%	7%	1%	0.88
Window 11	Habitable	37%	35%	2%	0.95	16%	14%	2%	0.88
Window 12	Habitable	34%	32%	2%	0.94	18%	16%	2%	0.89
Window 13	Habitable	42%	42%	0%	1.0	19%	19%	0%	1.0
Window 14	Habitable	49%	49%	0%	1.0	20%	20%	0%	1.0
Window 15	Habitable	29%	28%	1%	0.97	8%	7%	1%	0.88
Window 16	Habitable	35%	34%	1%	0.97	14%	13%	1%	0.93
Window 17	Habitable	36%	35%	1%	0.97	19%	18%	1%	0.95
Window 18	Habitable	43%	43%	0%	1.0	20%	20%	0%	1.0
Window 19	Habitable	30%	29%	1%	0.97	7%	6%	1%	0.86
Window 20	Habitable	37%	36%	1%	0.97	13%	12%	1%	0.92
Window 21	Habitable	41%	40%	1%	0.98	20%	19%	1%	0.95
Window 22	Habitable	47%	47%	0%	1.0	21%	21%	0%	1.0
Window 23	Habitable	51%	51%	0%	1.0	21%	21%	0%	1.0
Window 24	Habitable	28%	27%	1%	0.96	5%	4%	1%	0.8
Window 25	Habitable	39%	37%	2%	0.95	13%	11%	2%	0.85
Window 26	Habitable	43%	41%	2%	0.95	20%	18%	2%	0.9
Window 27	Habitable	50%	50%	0%	1.0	21%	21%	0%	1.0
Window 28	Habitable	56%	56%	0%	1.0	23%	23%	0%	1.0
Window 29	Habitable	36%	34%	2%	0.94	8%	6%	2%	0.75
Window 30	Habitable	42%	41%	1%	0.98	13%	12%	1%	0.92
Window 31	Habitable	47%	44%	3%	0.94	21%	18%	3%	0.86
Window 32	Habitable	51%	50%	1%	0.98	21%	20%	1%	0.95
Window 33	Habitable	57%	57%	0%	1.0	22%	22%	0%	1.0
Window 34	Habitable	35%	34%	1%	0.97	7%	6%	1%	0.86

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

		Sunlight to Windows								
Reference	Use Class	1	Total Sur	light Ho	urs	W	inter Su	nlight Ho	urs	
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
Window 35	Habitable	43%	40%	3%	0.93	14%	11%	3%	0.79	
Window 36	Habitable	47%	43%	4%	0.91	21%	17%	4%	0.81	
Window 37	Habitable	53%	51%	2%	0.96	21%	19%	2%	0.9	
25 to 37 Parker Street Ho	use									
Window 38	Habitable	30%	30%	0%	1.0	6%	6%	0%	1.0	
Window 39	Non Habitable	33%	31%	2%	0.94	7%	6%	1%	0.86	
Window 40	Non Habitable	30%	29%	1%	0.97	5%	5%	0%	1.0	
Window 41	Non Habitable	27%	24%	3%	0.89	3%	3%	0%	1.0	
Window 42	Habitable	33%	31%	2%	0.94	7%	6%	1%	0.86	
Window 43	Habitable	33%	30%	3%	0.91	7%	6%	1%	0.86	
Window 44	Habitable	33%	29%	4%	0.88	7%	6%	1%	0.86	
Window 45	Habitable	32%	28%	4%	0.88	6%	6%	0%	1.0	
Window 46	Habitable	31%	27%	4%	0.87	6%	6%	0%	1.0	
Window 47	Non Habitable	34%	29%	5%	0.85	7%	7%	0%	1.0	
Window 48	Habitable	29%	26%	3%	0.9	6%	6%	0%	1.0	
Window 49	Habitable	31%	28%	3%	0.9	6%	6%	0%	1.0	
Window 50	Habitable	28%	25%	3%	0.89	6%	6%	0%	1.0	
Window 51	Habitable	30%	28%	2%	0.93	8%	8%	0%	1.0	
Window 52	Habitable	31%	30%	1%	0.97	9%	9%	0%	1.0	
Window 53	Habitable	31%	31%	0%	1.0	9%	9%	0%	1.0	
Window 54	Habitable	31%	31%	0%	1.0	9%	9%	0%	1.0	
Window 55	Habitable	31%	31%	0%	1.0	9%	9%	0%	1.0	
Window 56	Habitable	32%	32%	0%	1.0	8%	8%	0%	1.0	
Window 57	Habitable	32%	32%	0%	1.0	7%	7%	0%	1.0	
Window 58	Habitable	35%	35%	0%	1.0	9%	9%	0%	1.0	
Window 59	Habitable	33%	33%	0%	1.0	6%	6%	0%	1.0	
Window 60	Habitable	34%	34%	0%	1.0	6%	6%	0%	1.0	
Window 61	Habitable	35%	35%	0%	1.0	6%	6%	0%	1.0	
Window 62	Habitable	37%	37%	0%	1.0	6%	6%	0%	1.0	
Window 63	Habitable	36%	36%	0%	1.0	6%	6%	0%	1.0	
Window 64	Habitable	33%	33%	0%	1.0	6%	6%	0%	1.0	
Window 65	Habitable	33%	33%	0%	1.0	6%	6%	0%	1.0	
Window 66	Non Habitable	42%	38%	4%	0.9	10%	7%	3%	0.7	
Window 67	Habitable	42%	38%	4%	0.9	10%	7%	3%	0.7	
Window 68	Habitable	43%	39%	4%	0.91	11%	9%	2%	0.82	
Window 69	Habitable	43%	38%	5%	0.88	10%	8%	2%	0.8	
Window 70	Habitable	41%	36%	5%	0.88	8%	6%	2%	0.75	
Window 71	Non Habitable	44%	36%	8%	0.82	10%	9%	1%	0.9	
Window 72	Non Habitable	42%	35%	7%	0.83	8%	8%	0%	1.0	
Window 73	Habitable	43%	37%	6%	0.86	10%	10%	0%	1.0	
Window 74	Habitable	42%	37%	5%	0.88	9%	9%	0%	1.0	
Window 74	Habitable	42%	37%	5%	0.88	9%	9%	0%	1.0	
Window 75	Habitable	42%	38%	4%	0.9	10%	10%	0%	1.0	
Window 75	Habitable	42%	38%	4%	0.9	10%	10%	0%	1.0	
Window 76	Habitable	40%	37%	3%	0.93	10%	10%	0%	1.0	
Window 77	Non Habitable	41%	40%	1%	0.98	11%	11%	0%	1.0	
Window 78	Non Habitable	42%	42%		1.0	12%	12%	0%	1.0	

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

					Sunlight to) Window	/S		
Reference	Use Class	Т	otal Sun	light Hou	ırs	W	inter Su	nlight Ho	urs
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 79	Habitable	44%	44%	0%	1.0	11%	11%	0%	1.0
Window 80	Habitable	45%	45%	0%	1.0	10%	10%	0%	1.0
Window 80	Habitable	45%	45%	0%	1.0	10%	10%	0%	1.0
Window 81	Habitable	44%	44%	0%	1.0	9%	9%	0%	1.0
Window 82	Habitable	43%	43%	0%	1.0	8%	8%	0%	1.0
Window 83	Habitable	43%	43%	0%	1.0	9%	9%	0%	1.0
Window 84	Non Habitable	47%	45%	2%	0.96	13%	11%	2%	0.85
Window 85	Habitable	47%	42%	5%	0.89	14%	10%	4%	0.71
Window 86	Habitable	48%	43%	5%	0.9	13%	10%	3%	0.77
Window 87	Habitable	48%	43%	5%	0.9	13%	10%	3%	0.77
Window 88	Habitable	48%	44%	4%	0.92	13%	11%	2%	0.85
Window 89	Non Habitable	49%	44%	5%	0.9	13%	11%	2%	0.85
Window 90	Non Habitable	51%	45%	6%	0.88	12%	11%	1%	0.92
Window 91	Habitable	51%	48%	3%	0.94	14%	14%	0%	1.0
Window 92	Habitable	51%	48%	3%	0.94	14%	14%	0%	1.0
Window 92	Habitable	51%	48%	3%	0.94	14%	14%	0%	1.0
Window 93	Habitable	50%	48%	2%	0.96	14%	14%	0%	1.0
Window 93	Habitable	50%	48%	2%	0.96	14%	14%	0%	1.0
Window 94	Habitable	49%	47%	2%	0.96	14%	14%	0%	1.0
Window 95	Non Habitable	47%	47%	0%	1.0	13%	13%	0%	1.0
Window 96	Non Habitable	51%	51%	0%	1.0	15%	15%	0%	1.0
Window 97	Habitable	54%	54%	0%	1.0	17%	17%	0%	1.0
Window 98	Habitable	54%	54%	0%	1.0	17%	17%	0%	1.0
Window 98	Habitable	54%	54%	0%	1.0	17%	17%	0%	1.0
Window 99	Habitable	53%	53%	0%	1.0	16%	16%	0%	1.0
Window 100	Habitable	53%	53%	0%	1.0	15%	15%	0%	1.0
Window 101	Non Habitable	53%	48%	5%	0.91	19%	14%	5%	0.74
Window 102	Habitable	55%	49%	6%	0.89	21%	15%	6%	0.71
Window 103	Habitable	56%	49%	7%	88.0	21%	14%	7%	0.67
Window 104	Habitable	54%	48%	6%	0.89	19%	13%	6%	0.68
Window 105	Habitable	56%	50%	6%	0.89	19%	14%	5%	0.74
Window 106	Non Habitable	56%	52%	4%	0.93	17%	14%	3%	0.82
Window 108	Habitable	56%	53%	3%	0.95	16%	15%	1%	0.94
Window 107	Habitable	56%	53%	3%	0.95	16%	15%	1%	0.94
Window 108	Habitable	56%	53%	3%	0.95	16%	15%	1%	0.94
Window 109	Habitable	56%	54%	2%	0.96	16%	16%	0%	1.0
Window 110	Habitable	56%	55%	1%	0.98	17%	17%	0%	1.0
Window 111	Non Habitable	55%	55%	0%	1.0	18%	18%	0%	1.0
Window 112	Habitable	56%	56%	0%	1.0	18%	18%	0%	1.0

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

					Sunlight to) Windov	vs		
Reference	Use Class	Т	otal Sur	light Ho	urs	W	inter Su	nlight Ho	urs
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 113	Habitable	55%	55%	0%	1.0	17%	17%	0%	1.0
Window 114	Habitable	57%	56%	1%	0.98	17%	17%	0%	1.0
Window 113	Habitable	55%	55%	0%	1.0	17%	17%	0%	1.0
Window 115	Habitable	58%	58%	0%	1.0	16%	16%	0%	1.0
Window 116	Habitable	55%	51%	4%	0.93	21%	17%	4%	0.81
Window 117	Habitable	57%	53%	4%	0.93	21%	17%	4%	0.81
Window 118	Habitable	57%	53%	4%	0.93	21%	17%	4%	0.81
Window 119	Habitable	59%	55%	4%	0.93	20%	17%	3%	0.85
Window 120	Habitable	61%	58%	3%	0.95	20%	18%	2%	0.9
34 to 38 Parker Street									
Window 121	Non Habitable	23%	16%	7%	0.7	0%	0%	0%	1.0
Window 122	Non Habitable	45%	42%	3%	0.93	6%	6%	0%	1.0
19 to 21 Great Queen Stre	<u>et</u>								
Window 139	Habitable	1%	1%	0%	1.0	0%	0%	0%	1.0
Window 140	Habitable	2%	2%	0%	1.0	0%	0%	0%	1.0
Window 141	Habitable	2%	2%	0%	1.0	0%	0%	0%	1.0
Window 142	Habitable	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 152	Habitable	10%	10%	0%	1.0	1%	1%	0%	1.0
Window 153	Habitable	8%	8%	0%	1.0	0%	0%	0%	1.0
Window 154	Habitable	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 164	Habitable	42%	40%	2%	0.95	6%	6%	0%	1.0
Window 165	Habitable	13%	13%	0%	1.0	2%	2%	0%	1.0
Window 166	Habitable	13%	13%	0%	1.0	2%	2%	0%	1.0
Window 167	Habitable	7%	7%	0%	1.0	0%	0%	0%	1.0
8 to 18 Great Queen Stree	<u>t</u>								
Window 179	Non Domestic	17%	17%	0%	1.0	2%	2%	0%	1.0
Window 180	Non Domestic	23%	23%	0%	1.0	5%	5%	0%	1.0
Window 181	Non Domestic	22%	22%	0%	1.0	3%	3%	0%	1.0
Window 183	Non Domestic	19%	19%	0%	1.0	2%	2%	0%	1.0
Window 184	Non Domestic	23%	22%	1%	0.96	4%	4%	0%	1.0
Window 185	Non Domestic	22%	22%	0%	1.0	1%	1%	0%	1.0
Window 186	Non Domestic	24%	24%	0%	1.0	3%	3%	0%	1.0
Window 187	Non Domestic	24%	24%	0%	1.0	4%	4%	0%	1.0
Window 188	Non Domestic	25%	23%	2%	0.92	2%	2%	0%	1.0
Window 189	Non Domestic	17%	15%	2%	0.88	2%	2%	0%	1.0
Window 191	Non Domestic	7%	6%	1%	0.86	0%	0%	0%	1.0
Window 193	Non Domestic	27%	27%	0%	1.0	5%	5%	0%	1.0
Window 194	Non Domestic	27%	27%	0%	1.0	5%	5%	0%	1.0
Window 195	Non Domestic	27%	27%	0%	1.0	5%	5%	0%	1.0
Window 196	Non Domestic	26%	26%	0%	1.0	5%	5%	0%	1.0
Window 197	Non Domestic	26%	26%	0%	1.0	5%	5%	0%	1.0
Window 199	Non Domestic	8%	8%	0%	1.0	0%	0%	0%	1.0
Window 200	Non Domestic	13%	13%	0%	1.0	0%	0%	0%	1.0
Window 201	Non Domestic	18%	18%	0%	1.0	2%	2%	0%	1.0
Window 202	Non Domestic	24%	24%	0%	1.0	5%	5%	0%	1.0
Window 182	Non Domestic	6%	6%	0%	1.0	0%	0%	0%	1.0

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

					Sunlight to	o Windov	VS		
Reference	Use Class	Т	otal Sur	light Ho	urs	W	inter Su	nlight Ho	ours
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 217	Non Domestic	25%	25%	0%	1.0	4%	4%	0%	1.0
Window 218	Non Domestic	35%	34%	1%	0.97	7%	7%	0%	1.0
Window 219	Non Domestic	37%	36%	1%	0.97	9%	9%	0%	1.0
Window 221	Non Domestic	24%	24%	0%	1.0	5%	5%	0%	1.0
Window 222	Non Domestic	29%	29%	0%	1.0	5%	5%	0%	1.0
Window 223	Non Domestic	33%	33%	0%	1.0	6%	6%	0%	1.0
Window 224	Non Domestic	33%	33%	0%	1.0	8%	8%	0%	1.0
Window 225	Non Domestic	29%	29%	0%	1.0	7%	7%	0%	1.0
Window 226	Non Domestic	38%	37%	1%	0.97	7%	7%	0%	1.0
Window 227	Non Domestic	24%	22%	2%	0.92	2%	2%	0%	1.0
Window 229	Non Domestic	10%	8%	2%	8.0	0%	0%	0%	1.0
Window 233	Non Domestic	33%	33%	0%	1.0	8%	8%	0%	1.0
Window 234	Non Domestic	32%	32%	0%	1.0	7%	7%	0%	1.0
Window 235	Non Domestic	32%	32%	0%	1.0	7%	7%	0%	1.0
Window 236	Non Domestic	32%	32%	0%	1.0	7%	7%	0%	1.0
Window 237	Non Domestic	32%	32%	0%	1.0	7%	7%	0%	1.0
Window 239	Non Domestic	13%	13%	0%	1.0	0%	0%	0%	1.0
Window 240	Non Domestic	19%	19%	0%	1.0	1%	1%	0%	1.0
Window 241	Non Domestic	26%	26%	0%	1.0	4%	4%	0%	1.0
Window 242	Non Domestic	34%	34%	0%	1.0	7%	7%	0%	1.0
Window 220	Non Domestic	29%	26%	3%	0.9	3%	3%	0%	1.0
Window 257	Non Domestic	39%	38%	1%	0.97	7%	7%	0%	1.0
Window 258	Non Domestic	49%	46%	3%	0.94	14%	14%	0%	1.0
Window 259	Non Domestic	46%	44%	2%	0.96	14%	14%	0%	1.0
Window 261	Non Domestic	40%	40%	0%	1.0	12%	12%	0%	1.0
Window 262	Non Domestic	43%	43%	0%	1.0	15%	15%	0%	1.0
Window 263	Non Domestic	43%	43%	0%	1.0	16%	16%	0%	1.0
Window 264	Non Domestic	40%	40%	0%	1.0	15%	15%	0%	1.0
Window 265	Non Domestic	36%	36%	0%	1.0	14%	14%	0%	1.0
Window 266	Non Domestic	50%	48%	2%	0.96	13%	13%	0%	1.0
Window 267	Non Domestic	38%	37%	1%	0.97	3%	3%	0%	1.0
Window 270	Non Domestic	15%	12%	3%	8.0	1%	0%	1%	0.01
Window 273	Non Domestic	42%	42%	0%	1.0	9%	9%	0%	1.0
Window 274	Non Domestic	42%	42%	0%	1.0	9%	9%	0%	1.0
Window 275	Non Domestic	42%	42%	0%	1.0	9%	9%	0%	1.0
Window 276	Non Domestic	42%	42%	0%	1.0	9%	9%	0%	1.0
Window 277	Non Domestic	42%	42%	0%	1.0	9%	9%	0%	1.0
Window 279	Non Domestic	21%	21%	0%	1.0	0%	0%	0%	1.0
Window 280	Non Domestic	34%	34%	0%	1.0	2%	2%	0%	1.0
Window 281	Non Domestic	41%	41%	0%	1.0	5%	5%	0%	1.0

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

					Sunlight to	Windov	VS		
Reference	Use Class	Т	otal Sun	light Hou	urs	W	inter Su	nlight Ho	urs
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 282	Non Domestic	45%	45%	0%	1.0	8%	8%	0%	1.0
Window 260	Non Domestic	48%	40%	8%	0.83	13%	13%	0%	1.0
Window 304	Non Domestic	60%	60%	0%	1.0	23%	23%	0%	1.0
Window 305	Non Domestic	61%	60%	1%	0.98	22%	21%	1%	0.95
Window 306	Non Domestic	62%	60%	2%	0.97	21%	19%	2%	0.9
Window 307	Non Domestic	62%	59%	3%	0.95	21%	18%	3%	0.86
Window 308	Non Domestic	63%	62%	1%	0.98	22%	21%	1%	0.95
Window 309	Non Domestic	62%	62%	0%	1.0	20%	20%	0%	1.0
Window 310	Non Domestic	63%	62%	1%	0.98	21%	20%	1%	0.95
Window 311	Non Domestic	64%	60%	4%	0.94	22%	19%	3%	0.86
Window 312	Non Domestic	62%	59%	3%	0.95	20%	18%	2%	0.9
Window 313	Non Domestic	58%	55%	3%	0.95	16%	14%	2%	0.88
Window 314	Non Domestic	57%	55%	2%	0.96	15%	14%	1%	0.93
Window 315	Non Domestic	53%	52%	1%	0.98	11%	10%	1%	0.91
Window 316	Non Domestic	42%	41%	1%	0.98	5%	4%	1%	0.8
Window 322	Non Domestic	34%	34%	0%	1.0	2%	2%	0%	1.0
Window 323	Non Domestic	45%	45%	0%	1.0	5%	5%	0%	1.0
Window 324	Non Domestic	49%	49%	0%	1.0	7%	7%	0%	1.0
Window 325	Non Domestic	56%	56%	0%	1.0	12%	12%	0%	1.0
Window 326	Non Domestic	56%	56%	0%	1.0	12%	12%	0%	1.0
Window 327	Non Domestic	57%	57%	0%	1.0	13%	13%	0%	1.0
Window 328	Non Domestic	54%	54%	0%	1.0	12%	12%	0%	1.0
Window 329	Non Domestic	54%	54%	0%	1.0	13%	13%	0%	1.0
Window 330	Non Domestic	53%	53%	0%	1.0	13%	13%	0%	1.0
Window 331	Non Domestic	51%	51%	0%	1.0	12%	12%	0%	1.0
Window 332	Non Domestic	51%	51%	0%	1.0	12%	12%	0%	1.0
Window 333	Non Domestic	53%	53%	0%	1.0	14%	14%	0%	1.0
Window 334	Non Domestic	53%	53%	0%	1.0	13%	13%	0%	1.0
Window 335	Non Domestic	53%	53%	0%	1.0	13%	13%	0%	1.0

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

		Sunlight to Windows								
Reference	Use Class			nlight Ho				nlight Ho	ours	
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
Window 336	Non Domestic	55%	55%		1.0	13%	13%	0%	1.0	
Window 347	Non Domestic	64%	63%	1%	0.98	24%	23%	1%	0.96	
Window 348	Non Domestic	65%	64%	1%	0.98	24%	23%	1%	0.96	
Window 349	Non Domestic	65%	64%	1%	0.98	24%	23%	1%	0.96	
Window 350	Non Domestic	64%	63%	1%	0.98	23%	22%	1%	0.96	
Window 351	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 352	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 353	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 354	Non Domestic	66%	64%	2%	0.97	24%	22%	2%	0.92	
Window 355	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 356	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 357	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 358	Non Domestic	66%	65%	1%	0.98	24%	23%	1%	0.96	
Window 359	Non Domestic	64%	63%	1%	0.98	22%	21%	1%	0.9	
Window 360	Non Domestic	62%	61%	1%	0.98	19%	18%	1%	0.9	
Window 361	Non Domestic	58%	56%	2%	0.97	15%	14%	1%	0.93	
Window 362	Non Domestic	56%	55%	1%	0.98	14%	14%	0%	1.0	
Window 363	Non Domestic	56%	56%	0%	1.0	16%	16%	0%	1.0	
Window 364	Non Domestic	58%	58%	0%	1.0	18%	18%	0%	1.0	
Window 365	Non Domestic	60%	60%	0%	1.0	19%	19%	0%	1.0	
Window 366	Non Domestic	63%	63%	0%	1.0	18%	18%	0%	1.0	
Window 367	Non Domestic	63%	63%	0%	1.0	18%	18%	0%	1.0	
Window 368	Non Domestic	63%	63%	0%	1.0	18%	18%	0%	1.0	
Window 369	Non Domestic	63%	63%	0%	1.0	18%	18%	0%	1.	
Window 370	Non Domestic	63%	63%	0%	1.0	18%	18%	0%	1.0	
Window 371	Non Domestic	63%	63%	0%	1.0	18%	18%	0%	1.0	
Window 371 Window 372	Non Domestic	62%	62%	0%	1.0	17%	17%	0%	1.0	
Window 372 Window 373	Non Domestic	62%	62%	0%	1.0	17%	17%	0%	1.0	
Window 373 Window 374	Non Domestic	61%	61%	0%	1.0	17%	17%	0%	1.0	
Window 374	Non Domestic	61%	61%	0%	1.0	17%	17%	0%	1.0	
	Non Domestic	66%	66%	0%	1.0	24%	24%	0%	1.0	
Window 386 Window 387		66%	66%	0%	1.0	24%	24%	0%	1.0	
	Non Domestic									
Window 388	Non Domestic	66%	66%	0%	1.0	24%	24%	0%	1.0	
Window 389	Non Domestic	65%	65%	0%	1.0	23%	23%	0%	1.0	
Window 390	Non Domestic	67%	67%		1.0	24%	24%	0%	1.0	
Window 391	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.0	
Window 392	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.0	
Window 393	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.0	
Window 394	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.0	
Window 395	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.0	
Window 396	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.0	
Window 397	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.	
Window 398	Non Domestic	67%	67%	0%	1.0	24%	24%	0%	1.	
Window 399	Non Domestic	66%	66%	0%	1.0	24%	24%	0%	1.	
Window 400	Non Domestic	66%	66%	0%	1.0	24%	24%	0%	1.	
Window 401	Non Domestic	66%	66%	0%	1.0	24%	24%	0%	1.	

Appendix 2 - Sunlight to Windows 40 to 42 Parker Street, London WC2B 5PQ

					Sunlight to	Window	/S		
Reference	Use Class	Т	otal Sun	light Hou	urs	Winter Sunlight Hours			
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 402	Non Domestic	66%	66%	0%	1.0	24%	24%	0%	1.0
Window 403	Non Domestic	65%	65%	0%	1.0	23%	23%	0%	1.0
Window 404	Non Domestic	65%	65%	0%	1.0	23%	23%	0%	1.0
Window 405	Non Domestic	66%	66%	0%	1.0	19%	19%	0%	1.0
Window 406	Non Domestic	66%	66%	0%	1.0	19%	19%	0%	1.0
Window 407	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 408	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 409	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 410	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 411	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 412	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 413	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0
Window 414	Non Domestic	65%	65%	0%	1.0	19%	19%	0%	1.0

Appendix 2 - Overshadowing to Gardens and Open Spaces 40 to 42 Parker Street, London WC2B 5PQ

Reference	Total Area	Area r	Area receiving at least two hours of sunlight on 21st March								
		Before		After		Loss		Ratio			
34 to 38 Parker Street											
Garden 1	23.88 m2	0.0 m2	0%	0.0 m2	0%	0.0 m2	0%	1.0			

APPENDIX 3	
ALTERNATIVE VERTICAL SKY COMPONENT RESULTS	

Appendix 3 - Alternative Vertical Sky Component 40 to 42 Parker Street, London WC2B 5PQ

Reference	Use Class		Vertical Sky	Component	
		Before	After	Loss	Ratio
34 to 38 Parker Street					
Window 124	Habitable	37.5%	33.2%	4.3%	0.89