

Daylight & Sunlight Report

Building P1

**King's Cross Central
General Partner Ltd**

September 2012

King's Cross

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Introduction

Introduction

This Daylight and Sunlight Report provides information to discharge the requirements of Condition 43 of the Kings Cross Central Outline Planning Permission (2007/2307/P) in relation to P1. The condition states:

"Applications for the approval of Reserved Matters in relation to residential accommodation shall be accompanied by details of how the proposed design applies the standards recommended in the Building Research Establishments "Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice 1991"

The report provides the details required by the condition, demonstrating the levels of daylight and sunlight achieved across dwellings in Building P1, against the Building Research Establishment (BRE) recommended standards in the 'Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice 2011' document (the current BRE Guidelines, which replaced the 1991 document referred to in the condition).

The BRE Guidelines specify that daylight to new-build accommodation should be assessed using the Average Daylight Factor (ADF) method. This is a detailed method which considers the amount of sky visibility on the vertical face of the window, the window size, room size and room use.

In relation to sunlight, the criteria given in the BRE Guidelines calculates the annual probable sunlight hours (APSH) having regard to the amount of sun available in both the summer and winter for each given window facing within 90° of due south. Summer is considered to be the six months between March 21st and September 21st and winter the remaining months.

The analysis has been carried out for levels two to thirteen, where the apartments are located.

The analysis has been calculated from a 3D computer model and specialist computer software as outlined in the BRE Guidelines. The sources of information used are as follows:

- Kings Cross Central masterplan representing the Outline Planning Permission
- David Morley Architects plans, sections and elevations

This document is to be read in the context of other plans and documents forming the P1 building submission.

The Site

The Site

Building P1 is located in the northern part of the Kings Cross Central (KXC) development site, as indicated in Figure 1 below.



Figure 1 – Site plan showing the location of P1 in the context of the northern part of King's Cross Central

The Building

The Building

Building P1 is 14 storeys high (ground plus 13), with a maximum height of +72.47m AOD. The buildings use is primarily residential with school uses on the ground floor and first floor, along with community facilities. Building services plant, ancillary space and car parking, are provided in a single storey basement. The surrounding buildings are of similar height and will therefore significantly overshadow this building especially the lower floors.

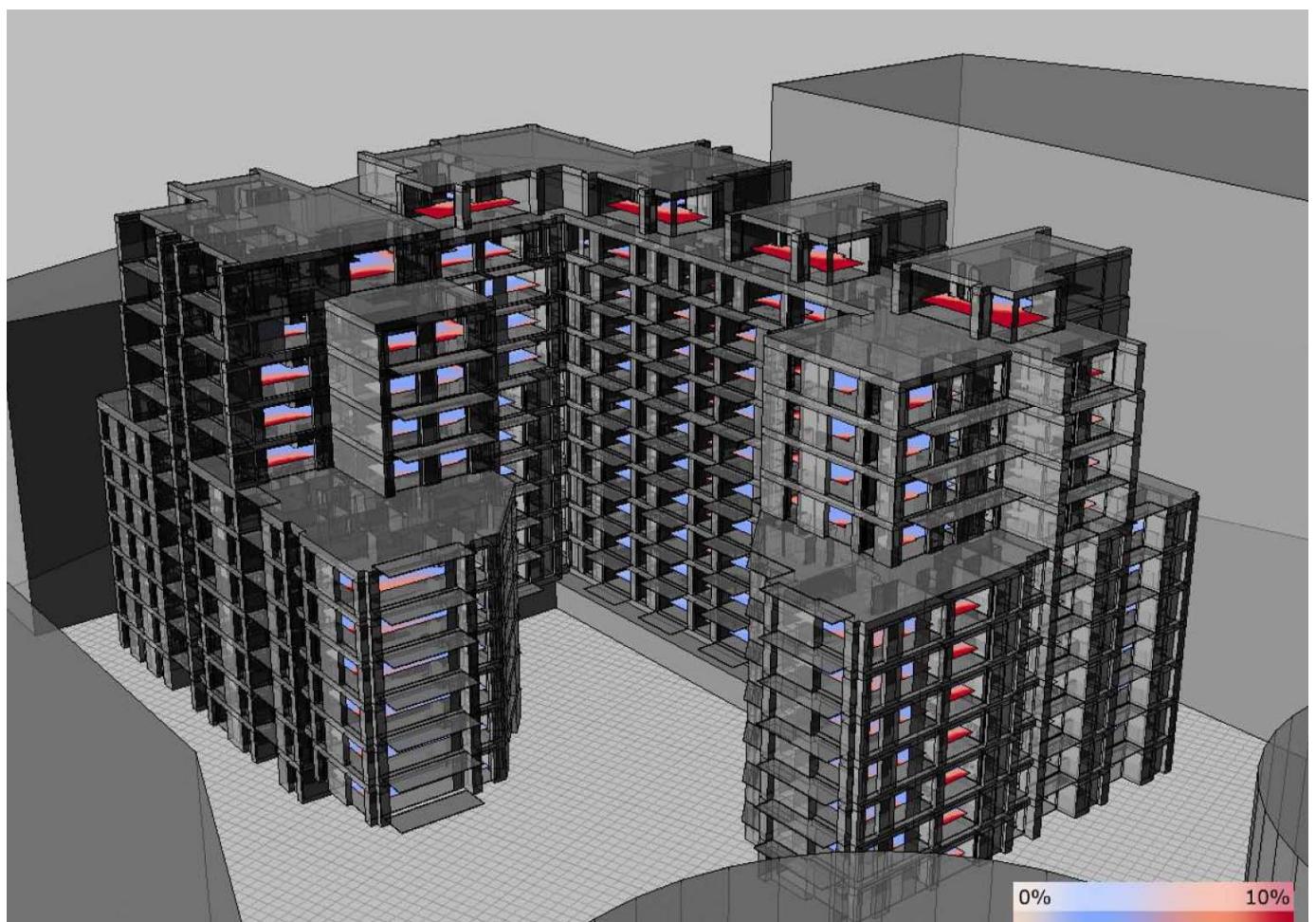


Figure 2 – 3D view of Building P1 looking East

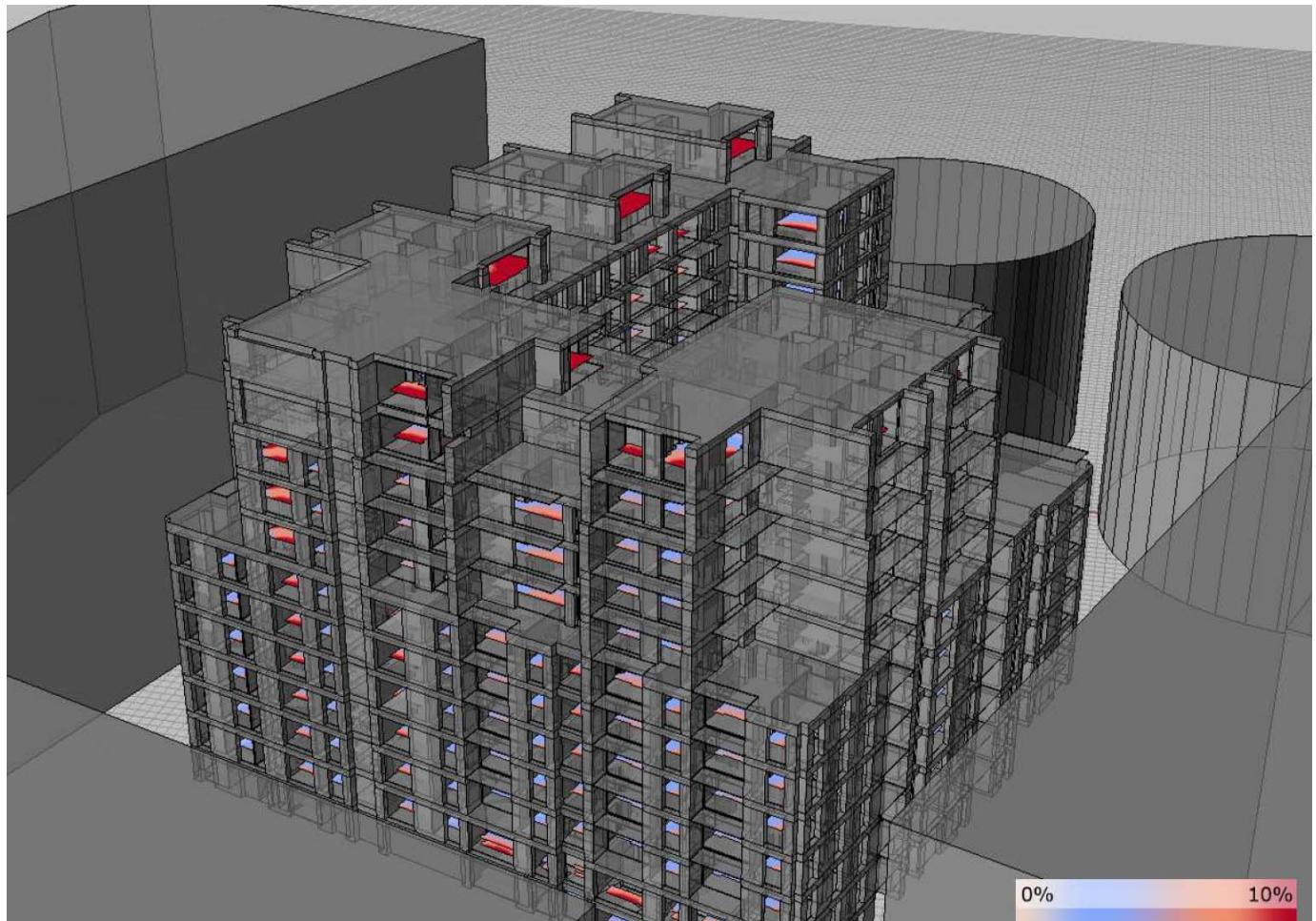


Figure 3 – 3D view of Building P1 looking South



Figure 4 – 3D view of Building P1 looking North West

The linear form of the building is orientated on a north-south axis with the majority of the apartments facing east and/or west. A small number of apartments also include south or north frontages. As a result of the building's profile and form, 84 of the units (33%) are either dual or triple aspect. 208 of the 255 units (82%), also have their own private balcony or terrace, with the remainder (generally studio or 1 bedroom units), benefitting from Juliet balconies to full height glazing.

Analysis

Analysis

Daylight

The building above level two is comprised of residential accommodation.

All residential levels and all apartments within the building have been assessed in terms of the daylight amenity. Average Daylight Factor (ADF) simulations have been carried using the Radiance daylight calculation engine. Appendix A shows the ADF for the applicable rooms in all dwellings.

It should be noted that it is only the residential habitable rooms (ie. living rooms, bedrooms and dining rooms) which have been assessed in terms of daylighting. Deep internal kitchens (including kitchens in open plan living spaces) have been excluded from this analysis and it is assumed they will be artificially lit.

The BRE Guidelines set out in 'Site Planning for Daylight and Sunlight – A Guide to Good Practice 2011' specifies that daylight to new-build accommodation should be assessed using the ADF. The table below indicates the recommended ADF's contained within the document, which is referred to in Condition 43.

Area	Recommended Average Daylight Factor (ADF)
Living Room	1.5%
Bedroom	1%

Table 1 - Summary of dwelling recommended Average Daylight Factor from 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice 2011'

In order to test the potential daylight and sunlight amenity to the residential parts of Building P1, a surrounding context model was created based upon the current illustrative scheme for the KXC site, using known heights for existing and approved buildings, and the maximum permitted heights set out in Parameter Plan KXC 014 for surrounding buildings where Reserved Matters have not yet been submitted. This report therefore provides a worst case scenario of the daylight and sunlight potential to the habitable spaces within the P1 Building.

The building design has been developed to balance the competing demands of thermal performance, views-out, beneficial solar gains, and daylight and sunlight. As a result, the total area of glazing has been maximised in apartments with extensive glazing on all elevations. However, the design also takes account of the building's orientation and exposure to the sun, incorporating external shading devices such as metal venetian blinds on certain west and south facing apartments, which allow the building occupants to control local conditions during periods of peak intensity. This analysis is undertaken on the basis that adjustable shading devices are set in the optimal daylight position, in each case.

Ultimately the design and layout maintains the architectural integrity of the building, provides quality internal living spaces and private external amenity spaces and uses the BRE Guidelines to maximise daylight penetration into the building.

The results of the daylight analysis are summarised in Table 2 and the following paragraphs, with the full results provided for all apartments in Appendix A.

Floor	Bedrooms			Living Rooms		
	No.	Total	Percentage	No.	Total	Percentage
2	5	18	28%	5	24	21%
3	8	40	20%	4	26	15%
4	15	39	38%	5	29	17%
5	17	39	44%	11	29	38%
6	22	39	56%	13	29	45%
7	27	39	69%	15	29	52%
8	29	43	67%	21	27	78%
9	27	31	87%	13	16	81%
10	27	31	87%	13	16	81%
11	30	31	97%	15	16	94%
12	23	24	96%	8	8	100%
13	9	9	100%	6	6	100%
	239	383	62%	129	255	51%

Table 2 - Summary of rooms achieving Average Daylight Factor criteria

Predictably, the lower levels are affected more by potential shading from P1 and the adjacent buildings. The pass rate improves the higher you are in the building, with a high proportion of habitable rooms from level 8 and above meeting or exceeding the BRE Guidelines. Nonetheless, the levels achieved overall are considered to be not uncommon for this type of high density urban location.

In total, 368 of the 638 (58%) habitable rooms comply with the BRE Guidelines, comprising of 62% of all bedrooms and 51% of all living rooms. Of the rooms that did not quite meet the guidelines, a further 27 bedrooms and 28 living rooms were within 20% of the recommendation, bringing the total number of rooms to 423 (66%), and therefore the perceived impact by occupants is considered to be negligible.

The proposed castellated form of the building provides a degree of self shading, which has a consequent impact on the daylight levels, but is potentially beneficial in terms of limiting solar gains. Furthermore, all but 47 of the proposed 255 units incorporate either a recessed or projected balcony or terrace. Studio apartments and a small number of 1 bed units generally incorporate a Juliet balcony with full height glazing instead. Although balconies can lower internal daylight levels by shading the façade, this potential impact has been balanced with the desire to provide private amenity space for as many apartments as possible.

Sunlight

The level of sunlight availability that a window can receive is dependent on its orientation and the extent of any external obstructions. The orientation is therefore an important factor in calculating sunlight availability as the sun's path throughout the day moves from east to west within the southern hemisphere. Windows facing north are unlikely to receive any direct sunlight except during the height of summer, when this may occur early in the morning or late in the evening.

The BRE Guidelines referred to in Condition 43 provides criteria and methods for calculating sunlight levels. The guidelines are based on research by the BRE into the relationships between properties (principally residential).

It should be noted that the sunlight criteria provided by the BRE is based on two-storey buildings located 20m apart which is clearly not appropriate in this instance. As this is a dense urban location, full compliance with the guidelines is unrealistic. Nonetheless, the criteria have been used to assess the proposed dwellings on the P1 site to identify the likely levels of sunlight falling on habitable rooms within the development, for the purposes of addressing this part of Condition 43.

Access to sunlight is measured on the windows using the following criteria;

- In general, buildings which have a particular requirement for sunlight will appear reasonably sunlit provided that at least one main window wall (ie. living room) faces within 90° of due south; and
- If the window reference point can receive more than 25% of Annual Probable Sunlight Hours (APSH), including at least 5% of APSH during winter months between 21st September and 21st March, then the room should still receive enough sunlight.

The results of the sunlight analysis from the Rediance daylight calculation engine are summarised in Table 3 and the following paragraphs, with the full results provided for all apartments in Appendix B.

Room Prefix/Block	Percentage
A	61%
B	41%
C	50%

Table 3 - Summary of rooms achieving Annual Probable Sunlight Hour criteria

Whilst all windows have been assessed, on a typical floor (Seventh), of the 40 windows which meet the first criterion, only 6 do not meet the second criterion in the BRE Guidelines for Sunlight. The rooms which do not meet the second criterion are living rooms which are overshadowed by the building itself on the west elevation.

Sunlight levels generally improve on the upper levels and in the south facing units, with many living rooms (which have a greater sunlight amenity than for bedrooms), having a good potential for sunlight. Overall, it is considered that sunlight levels within Building P1 will be acceptable.

Conclusion

Conclusion

This report analyses the daylight and sunlight potential to the residential apartments within the proposed Building P1, in accordance with Condition 43 of the Outline Planning Permission.

Building P1 has been assessed following guidelines set out by the BRE for the ADF experienced by each habitable room. All the apartments have been analysed in terms of daylight/sunlight amenity and to inform the building design process.

Both daylight and sunlight levels predictably improve on the upper levels and in the south, east and west facing units, with a majority of living rooms and bedrooms having a good potential for natural lighting.

The daylight and sunlight amenity to the residential elements of the proposed Building P1 is not uncharacteristic of other consented schemes in similar dense urban locations. As such, the daylight and sunlight, is considered acceptable by reference to the Building Research Establishments 'Site Layout Planning for Daylight: A Guide to Good Practice 2011', which has been applied, as required by the planning condition.

Appendix A

Daylight

Floor	Room	Room Type	Target	ADF	Comment
2	A02.01	Living Room	1.5	0.5	
2	A02.01-Bedroom-1	Bedroom	1	0.2	
2	A02.01-Bedroom-2	Bedroom	1	0.0	
2	A02.02	Living Room	1.5	1.8	
2	A02.02-Bedroom-1	Bedroom	1	4.8	
2	A02.02-Bedroom-2	Bedroom	1	1.4	
2	A02.03	Living Room	1.5	0.9	
2	A02.03-Bedroom-1	Bedroom	1	2.3	
2	A02.03-Bedroom-2	Bedroom	1	1.7	
2	A02.04	Living Room	1.5	1.3	
2	A02.04-Bedroom-1	Bedroom	1	1.7	
2	A02.04-Bedroom-2	Bedroom	1	0.9	
2	A02.05	Living Room	1.5	0.6	
2	A02.06	Living Room	1.5	0.4	
2	A02.06-Bedroom-1	Bedroom	1	0.2	
2	A02.07	Living Room	1.5	0.4	
2	A02.07-Bedroom-1	Bedroom	1	0.2	
3	A03.01	Living Room	1.5	0.9	
3	A03.01-Bedroom-1	Bedroom	1	0.2	
3	A03.01-Bedroom-2	Bedroom	1	0.2	
3	A03.02	Living Room	1.5	2.2	
3	A03.02-Bedroom-1	Bedroom	1	5.1	
3	A03.02-Bedroom-2	Bedroom	1	1.8	
3	A03.03	Living Room	1.5	1.1	
3	A03.03-Bedroom-1	Bedroom	1	2.8	
3	A03.03-Bedroom-2	Bedroom	1	2.0	
3	A03.04	Living Room	1.5	1.5	
3	A03.04-Bedroom-1	Bedroom	1	1.8	
3	A03.04-Bedroom-2	Bedroom	1	1.0	
3	A03.05	Living Room	1.5	0.7	
3	A03.05-Bedroom-1	Bedroom	1	0.5	
3	A03.06	Living Room	1.5	0.5	
3	A03.06-Bedroom-1	Bedroom	1	0.4	
3	A03.06-Bedroom-2	Bedroom	1	0.5	
3	A03.07	Living Room	1.5	0.7	
3	A03.07-Bedroom-1	Bedroom	1	0.8	
3	A03.07-Bedroom-2	Bedroom	1	0.3	
3	A03.08	Living Room	1.5	1.0	
3	A03.08-Bedroom-1	Bedroom	1	1.3	
3	A03.08-Bedroom-2	Bedroom	1	0.7	
4	A04.01	Living Room	1.5	1.0	
4	A04.01-Bedroom-1	Bedroom	1	0.3	
4	A04.01-Bedroom-2	Bedroom	1	0.5	
4	A04.02	Living Room	1.5	3.8	
4	A04.02-Bedroom-1	Bedroom	1	6.6	
4	A04.02-Bedroom-2	Bedroom	1	2.1	
4	A04.02-Bedroom-3	Bedroom	1	3.3	
4	A04.03	Living Room	1.5	1.4	

4	A04.03-Bedroom-1	Bedroom	1	2.2
4	A04.04	Living Room	1.5	1.9
4	A04.04-Bedroom-1	Bedroom	1	1.9
4	A04.04-Bedroom-2	Bedroom	1	1.1
4	A04.05	Living Room	1.5	0.9
4	A04.05-Bedroom-1	Bedroom	1	0.7
4	A04.06	Living Room	1.5	0.6
4	A04.06-Bedroom-1	Bedroom	1	0.5
4	A04.06-Bedroom-2	Bedroom	1	0.5
4	A04.07	Living Room	1.5	0.6
4	A04.07-Bedroom-1	Bedroom	1	0.8
4	A04.07-Bedroom-2	Bedroom	1	0.6
4	A04.08	Living Room	1.5	1.4
4	A04.08-Bedroom-1	Bedroom	1	1.5
4	A04.08-Bedroom-2	Bedroom	1	0.8
5	A05.01	Living Room	1.5	1.5
5	A05.01-Bedroom-1	Bedroom	1	0.4
5	A05.01-Bedroom-2	Bedroom	1	0.5
5	A05.02	Living Room	1.5	3.5
5	A05.02-Bedroom-1	Bedroom	1	6.2
5	A05.02-Bedroom-2	Bedroom	1	2.1
5	A05.02-Bedroom-3	Bedroom	1	3.7
5	A05.03	Living Room	1.5	2.3
5	A05.03-Bedroom-1	Bedroom	1	2.7
5	A05.04	Living Room	1.5	2.2
5	A05.04-Bedroom-1	Bedroom	1	2.1
5	A05.04-Bedroom-2	Bedroom	1	1.2
5	A05.05	Living Room	1.5	1.0
5	A05.05-Bedroom-1	Bedroom	1	0.8
5	A05.06	Living Room	1.5	0.7
5	A05.06-Bedroom-1	Bedroom	1	0.5
5	A05.06-Bedroom-2	Bedroom	1	0.6
5	A05.07	Living Room	1.5	0.7
5	A05.07-Bedroom-1	Bedroom	1	1.0
5	A05.07-Bedroom-2	Bedroom	1	0.5
5	A05.08	Living Room	1.5	1.7
5	A05.08-Bedroom-1	Bedroom	1	1.9
5	A05.08-Bedroom-2	Bedroom	1	0.9
6	A06.01	Living Room	1.5	2.2
6	A06.01-Bedroom-1	Bedroom	1	0.5
6	A06.01-Bedroom-2	Bedroom	1	0.7
6	A06.02	Living Room	1.5	3.9
6	A06.02-Bedroom-1	Bedroom	1	6.6
6	A06.02-Bedroom-2	Bedroom	1	2.3
6	A06.02-Bedroom-3	Bedroom	1	4.0
6	A06.03	Living Room	1.5	2.6
6	A06.03-Bedroom-1	Bedroom	1	2.7
6	A06.04	Living Room	1.5	2.5
6	A06.04-Bedroom-1	Bedroom	1	2.4
6	A06.04-Bedroom-2	Bedroom	1	1.4

6	A06.05	Living Room	1.5	1.1
6	A06.05-Bedroom-1	Bedroom	1	0.9
6	A06.06	Living Room	1.5	0.9
6	A06.06-Bedroom-1	Bedroom	1	0.7
6	A06.06-Bedroom-2	Bedroom	1	0.7
6	A06.07	Living Room	1.5	0.9
6	A06.07-Bedroom-1	Bedroom	1	1.5
6	A06.07-Bedroom-2	Bedroom	1	0.9
6	A06.08	Living Room	1.5	1.7
6	A06.08-Bedroom-1	Bedroom	1	1.9
6	A06.08-Bedroom-2	Bedroom	1	0.9
7	A07.01	Living Room	1.5	2.1
7	A07.01-Bedroom-1	Bedroom	1	0.6
7	A07.01-Bedroom-2	Bedroom	1	1.0
7	A07.02	Living Room	1.5	4.2
7	A07.02-Bedroom-1	Bedroom	1	6.9
7	A07.02-Bedroom-2	Bedroom	1	2.4
7	A07.02-Bedroom-3	Bedroom	1	3.8
7	A07.03	Living Room	1.5	2.0
7	A07.03-Bedroom-1	Bedroom	1	2.7
7	A07.04	Living Room	1.5	3.2
7	A07.04-Bedroom-1	Bedroom	1	3.3
7	A07.04-Bedroom-2	Bedroom	1	1.8
7	A07.05	Living Room	1.5	1.2
7	A07.05-Bedroom-1	Bedroom	1	1.2
7	A07.06	Living Room	1.5	1.0
7	A07.06-Bedroom-1	Bedroom	1	0.8
7	A07.06-Bedroom-2	Bedroom	1	0.9
7	A07.07	Living Room	1.5	1.3
7	A07.07-Bedroom-1	Bedroom	1	1.6
7	A07.07-Bedroom-2	Bedroom	1	0.9
7	A07.08	Living Room	1.5	1.7
7	A07.08-Bedroom-1	Bedroom	1	2.0
7	A07.08-Bedroom-2	Bedroom	1	1.3
8	A08.01	Living Room	1.5	3.1
8	A08.01-Bedroom-1	Bedroom	1	0.8
8	A08.01-Bedroom-2	Bedroom	1	1.8
8	A08.02	Living Room	1.5	4.5
8	A08.02-Bedroom-1	Bedroom	1	6.9
8	A08.02-Bedroom-2	Bedroom	1	2.5
8	A08.02-Bedroom-3	Bedroom	1	4.2
8	A08.03	Living Room	1.5	2.3
8	A08.03-Bedroom-1	Bedroom	1	3.0
8	A08.04	Living Room	1.5	3.5
8	A08.04-Bedroom-1	Bedroom	1	3.1
8	A08.04-Bedroom-2	Bedroom	1	1.8
8	A08.05	Living Room	1.5	1.6
8	A08.05-Bedroom-1	Bedroom	1	1.4
8	A08.06	Living Room	1.5	1.5
8	A8.06.Bedroom-1	Bedroom	1	0.3

8	A8.06.Bedroom-2	Bedroom	1	0.5
8	A08.07	Living Room	1.5	1.8
8	A8.07.Bedroom-1	Bedroom	1	1.9
8	A08.07-Bedroom-2	Bedroom	1	1.3
8	A08.08	Living Room	1.5	2.3
8	A08.08-Bedroom-1	Bedroom	1	2.1
8	A8.08.Bedroom-2	Bedroom	1	1.4
9	A09.01	Living Room	1.5	3.1
9	A09.01-Bedroom-1	Bedroom	1	1.1
9	A09.01-Bedroom-2	Bedroom	1	2.8
9	A09.01-Bedroom-3	Bedroom	1	1.9
9	A09.02	Living Room	1.5	3.0
9	A09.02-Bedroom-1	Bedroom	1	1.2
9	A09.02-Bedroom-2	Bedroom	1	1.3
9	A09.03	Living Room	1.5	1.8
9	A09.03-Bedroom-1	Bedroom	1	1.3
9	A09.03-Bedroom-2	Bedroom	1	1.2
9	A09.03-Bedroom-3	Bedroom	1	2.6
9	A09.04	Living Room	1.5	2.5
9	A09.04-Bedroom-1	Bedroom	1	2.3
9	A09.04-Bedroom-2	Bedroom	1	1.6
10	A10.01	Living Room	1.5	3.5
10	A10.01-Bedroom-1	Bedroom	1	1.1
10	A10.01-Bedroom-2	Bedroom	1	2.6
10	A10.01-Bedroom-3	Bedroom	1	1.9
10	A10.02	Living Room	1.5	3.1
10	A10.02-Bedroom-1	Bedroom	1	1.4
10	A10.02-Bedroom-2	Bedroom	1	1.5
10	A10.03	Living Room	1.5	1.8
10	A10.03-Bedroom-1	Bedroom	1	1.8
10	A10.03-Bedroom-2	Bedroom	1	1.8
10	A10.03-Bedroom-3	Bedroom	1	2.4
10	A10.04	Living Room	1.5	2.8
10	A10.04-Bedroom-1	Bedroom	1	2.3
10	A10.04-Bedroom-2	Bedroom	1	1.7
11	A11.01	Living Room	1.5	3.7
11	A11.01-Bedroom-1	Bedroom	1	1.2
11	A11.01-Bedroom-2	Bedroom	1	2.9
11	A11.01-Bedroom-3	Bedroom	1	2.1
11	A11.02	Living Room	1.5	4.0
11	A11.02-Bedroom-1	Bedroom	1	2.1
11	A11.02-Bedroom-2	Bedroom	1	2.2
11	A11.03	Living Room	1.5	2.4
11	A11.03-Bedroom-1	Bedroom	1	2.6
11	A11.03-Bedroom-2	Bedroom	1	2.1
11	A11.03-Bedroom-3	Bedroom	1	2.8
11	A11.04	Living Room	1.5	3.3
11	A11.04-Bedroom-1	Bedroom	1	2.4
11	A11.04-Bedroom-2	Bedroom	1	2.0
12	A12.01	Living Room	1.5	4.5

12	A12.01-Bedroom-1	Bedroom	1	2.8
12	A12.01-Bedroom-2	Bedroom	1	5.9
12	A12.01-Bedroom-3	Bedroom	1	3.7
12	A12.02-Bedroom-1	Bedroom	1	8.5
12	A12.03-Bedroom-1	Bedroom	1	6.5
12	A12.04-Bedroom-1	Bedroom	1	6.6
12	A12.05	Living Room	1.5	5.8
12	A12.05-Bedroom-1	Bedroom	1	2.6
12	A12.05-Bedroom-2	Bedroom	1	2.4
12	A12.06	Living Room	1.5	3.0
12	A12.06-Bedroom-1	Bedroom	1	2.2
12	A12.06-Bedroom-2	Bedroom	1	4.6
12	A12.06-Bedroom-3	Bedroom	1	2.9
12	A12.07	Living Room	1.5	5.0
12	A12.07-Bedroom-1	Bedroom	1	3.0
12	A12.07-Bedroom-2	Bedroom	1	4.2
12	A12.07-Bedroom-3	Bedroom	1	2.3
13	A13.02	Living Room	1.5	10.6
13	A13.02-Bedroom-2	Bedroom	1	9.6
13	A13.03	Living Room	1.5	14.4
13	A13.03-Bedroom-2	Bedroom	1	8.6
13	A13.04	Living Room	1.5	12.0
13	A13.04-Bedroom-2	Bedroom	1	4.6
2	B02.01	Living Room	1.5	0.5
2	B02.01-Bedroom-1	Bedroom	1	0.8
2	B02.02	Living Room	1.5	0.7
2	B02.02-Bedroom-1	Bedroom	1	0.4
2	B02.03	Living Room	1.5	0.5
2	B02.03-Bedroom-1	Bedroom	1	0.6
2	B02.04	Living Room	1.5	0.0
2	B02.04-Bedroom-1	Bedroom	1	0.0
2	B02.05	Living Room	1.5	0.0
2	B02.05-Bedroom-1	Bedroom	1	0.0
2	B02.06	Living Room	1.5	1.9
2	B02.07	Living Room	1.5	0.7
2	B02.08	Living Room	1.5	1.7
2	B02.09	Living Room	1.5	1.4
2	B02.10	Living Room	1.5	2.2
3	B03.01	Living Room	1.5	0.6
3	B03.01-Bedroom-1	Bedroom	1	0.4
3	B03.01-Bedroom-2	Bedroom	1	0.9
3	B03.02	Living Room	1.5	0.7
3	B03.03	Living Room	1.5	0.6
3	B03.03-Bedroom-1	Bedroom	1	0.7
3	B03.03-Bedroom-2	Bedroom	1	1.0
3	B03.04	Living Room	1.5	1.8
3	B03.04-Bedroom-1	Bedroom	1	0.7
3	B03.04-Bedroom-2	Bedroom	1	0.2
3	B03.04-Bedroom-3	Bedroom	1	1.9
3	B03.05	Living Room	1.5	0.0

3	B03.05-Bedroom-1	Bedroom	1	0.0
3	B03.06	Living Room	1.5	0.0
3	B03.06-Bedroom-1	Bedroom	1	0.0
3	B03.06-Bedroom-1	Bedroom	1	0.0
3	B03.07	Living Room	1.5	0.4
3	B03.07-Bedroom-1	Bedroom	1	0.4
3	B03.07-Bedroom-1	Bedroom	1	0.0
3	B03.08	Living Room	1.5	0.5
3	B03.08-Bedroom-1	Bedroom	1	0.3
3	B03.08-Bedroom-1	Bedroom	1	0.0
3	B03.08-Bedroom-2	Bedroom	1	0.3
3	B03.09	Living Room	1.5	1.2
3	B03.09-Bedroom-1	Bedroom	1	1.0
3	B03.09-Bedroom-1	Bedroom	1	0.0
3	B03.10-Bedroom-1	Bedroom	1	0.3
4	B04.01	Living Room	1.5	1.0
4	B04.01-Bedroom-1	Bedroom	1	1.3
4	B04.02	Living Room	1.5	1.0
4	B04.03	Living Room	1.5	0.9
4	B04.03-Bedroom-1	Bedroom	1	0.6
4	B04.03-Bedroom-2	Bedroom	1	1.1
4	B04.04	Living Room	1.5	1.9
4	B04.04-Bedroom-1	Bedroom	1	1.2
4	B04.04-Bedroom-2	Bedroom	1	0.6
4	B04.04-Bedroom-3	Bedroom	1	2.3
4	B04.05	Living Room	1.5	0.1
4	B04.05-Bedroom-1	Bedroom	1	0.0
4	B04.06	Living Room	1.5	0.0
4	B04.06-Bedroom-1	Bedroom	1	0.0
4	B04.07	Living Room	1.5	0.7
4	B04.07-Bedroom-1	Bedroom	1	0.5
4	B04.08	Living Room	1.5	0.8
4	B04.08-Bedroom-1	Bedroom	1	0.3
4	B04.08-Bedroom-2	Bedroom	1	0.3
4	B04.09	Living Room	1.5	1.5
4	B04.10	Living Room	1.5	0.9
4	B04.10-Bedroom-1	Bedroom	1	0.9
4	B04.10-Bedroom-2	Bedroom	1	1.3
4	B04.11	Living Room	1.5	1.4
4	B04.11-Bedroom-1	Bedroom	1	1.9
4	B04.11-Bedroom-2	Bedroom	1	1.2
4	B04.12	Living Room	1.5	1.3
4	B04.12-Bedroom-1	Bedroom	1	0.7
4	B04.12-Bedroom-2	Bedroom	1	0.7
5	B05.01	Living Room	1.5	1.0
5	B05.01-Bedroom-1	Bedroom	1	1.4
5	B05.02	Living Room	1.5	1.1
5	B05.03	Living Room	1.5	1.3
5	B05.03-Bedroom-1	Bedroom	1	0.8
5	B05.03-Bedroom-2	Bedroom	1	1.4

5	B05.04	Living Room	1.5	2.2
5	B05.04-Bedroom-1	Bedroom	1	1.0
5	B05.04-Bedroom-2	Bedroom	1	0.5
5	B05.04-Bedroom-3	Bedroom	1	3.5
5	B05.05	Living Room	1.5	0.3
5	B05.05-Bedroom-1	Bedroom	1	0.1
5	B05.06	Living Room	1.5	0.1
5	B05.06-Bedroom-1	Bedroom	1	0.1
5	B05.07	Living Room	1.5	1.1
5	B05.07-Bedroom-1	Bedroom	1	0.5
5	B05.08	Living Room	1.5	0.9
5	B05.08-Bedroom-1	Bedroom	1	0.4
5	B05.08-Bedroom-2	Bedroom	1	0.3
5	B05.09	Living Room	1.5	2.2
5	B05.10	Living Room	1.5	1.7
5	B05.10-Bedroom-1	Bedroom	1	1.4
5	B05.10-Bedroom-2	Bedroom	1	1.4
5	B05.11	Living Room	1.5	1.5
5	B05.11-Bedroom-1	Bedroom	1	2.1
5	B05.11-Bedroom-2	Bedroom	1	1.4
5	B05.12	Living Room	1.5	1.9
5	B05.12-Bedroom-1	Bedroom	1	0.8
5	B05.12-Bedroom-2	Bedroom	1	0.8
6	B06.01	Living Room	1.5	1.2
6	B06.01-Bedroom-1	Bedroom	1	1.6
6	B06.02	Living Room	1.5	1.5
6	B06.03	Living Room	1.5	1.6
6	B06.03-Bedroom-1	Bedroom	1	1.1
6	B06.03-Bedroom-2	Bedroom	1	1.9
6	B06.04	Living Room	1.5	2.8
6	B06.04-Bedroom-1	Bedroom	1	1.3
6	B06.04-Bedroom-2	Bedroom	1	1.3
6	B06.04-Bedroom-3	Bedroom	1	4.1
6	B06.05	Living Room	1.5	0.2
6	B06.05-Bedroom-1	Bedroom	1	0.2
6	B06.06	Living Room	1.5	0.1
6	B06.06-Bedroom-1	Bedroom	1	0.1
6	B06.07	Living Room	1.5	1.1
6	B06.07-Bedroom-1	Bedroom	1	0.7
6	B06.08	Living Room	1.5	1.1
6	B06.08-Bedroom-1	Bedroom	1	0.5
6	B06.08-Bedroom-2	Bedroom	1	0.4
6	B06.09	Living Room	1.5	2.7
6	B06.10	Living Room	1.5	2.1
6	B06.10-Bedroom-1	Bedroom	1	1.7
6	B06.10-Bedroom-2	Bedroom	1	2.1
6	B06.11	Living Room	1.5	2.3
6	B06.11-Bedroom-1	Bedroom	1	2.8
6	B06.11-Bedroom-2	Bedroom	1	1.7
6	B06.12	Living Room	1.5	1.8

6	B06.12-Bedroom-1	Bedroom	1	1.2
6	B06.12-Bedroom-2	Bedroom	1	1.0
7	B07.01	Living Room	1.5	1.3
7	B07.01-Bedroom-1	Bedroom	1	1.8
7	B07.02	Living Room	1.5	1.8
7	B07.03	Living Room	1.5	1.8
7	B07.03-Bedroom-1	Bedroom	1	1.4
7	B07.03-Bedroom-2	Bedroom	1	2.4
7	B07.04	Living Room	1.5	3.1
7	B07.04-Bedroom-1	Bedroom	1	1.7
7	B07.04-Bedroom-2	Bedroom	1	1.2
7	B07.04-Bedroom-3	Bedroom	1	3.9
7	B07.05	Living Room	1.5	0.5
7	B07.05-Bedroom-1	Bedroom	1	0.4
7	B07.06	Living Room	1.5	0.3
7	B07.06-Bedroom-1	Bedroom	1	0.2
7	B07.07	Living Room	1.5	1.3
7	B07.07-Bedroom-1	Bedroom	1	0.8
7	B07.08	Living Room	1.5	1.2
7	B07.08-Bedroom-1	Bedroom	1	0.6
7	B07.08-Bedroom-2	Bedroom	1	0.4
7	B07.09	Living Room	1.5	2.9
7	B07.10	Living Room	1.5	2.4
7	B07.10-Bedroom-1	Bedroom	1	2.2
7	B07.10-Bedroom-2	Bedroom	1	2.3
7	B07.11	Living Room	1.5	2.3
7	B07.11-Bedroom-1	Bedroom	1	3.3
7	B07.11-Bedroom-2	Bedroom	1	1.9
7	B07.12	Living Room	1.5	2.2
7	B07.12-Bedroom-1	Bedroom	1	1.1
7	B07.12-Bedroom-2	Bedroom	1	1.1
8	B08.01	Living Room	1.5	1.4
8	B08.01-Bedroom-1	Bedroom	1	2.0
8	B08.02	Living Room	1.5	2.5
8	B08.03	Living Room	1.5	2.9
8	B8.03.Bedroom-1	Bedroom	1	1.4
8	B8.03.Bedroom-2	Bedroom	1	1.3
8	B08.04	Living Room	1.5	3.7
8	B08.04-Bedroom-1	Bedroom	1	1.9
8	B08.04-Bedroom-2	Bedroom	1	1.9
8	B08.04-Bedroom-3	Bedroom	1	5.0
8	B08.05	Living Room	1.5	1.7
8	B8.05.Bedroom-1	Bedroom	1	0.2
8	B08.06	Living Room	1.5	1.2
8	B8.06.Bedroom-1	Bedroom	1	0.0
8	B08.07	Living Room	1.5	1.7
8	B08.07-Bedroom-1	Bedroom	1	0.9
8	B08.08	Living Room	1.5	1.7
8	B08.08-Bedroom-1	Bedroom	1	0.7
8	B08.08-Bedroom-2	Bedroom	1	0.4

8	B08.09	Living Room	1.5	3.2
8	B08.10	Living Room	1.5	3.3
8	B08.10-Bedroom-1	Bedroom	1	2.5
8	B08.10-Bedroom-2	Bedroom	1	2.6
8	B08.11	Living Room	1.5	3.6
8	B08.11-Bedroom-1	Bedroom	1	3.5
8	B08.11-Bedroom-2	Bedroom	1	2.1
8	B08.12	Living Room	1.5	2.6
8	B08.12-Bedroom-1	Bedroom	1	1.2
8	B08.12-Bedroom-2	Bedroom	1	1.3
9	B09.01	Living Room	1.5	5.3
9	B09.01-Bedroom-1	Bedroom	1	1.5
9	B09.01-Bedroom-2	Bedroom	1	1.3
9	B09.01-Bedroom-3	Bedroom	1	2.3
9	B09.02	Living Room	1.5	3.1
9	B09.02-Bedroom-1	Bedroom	1	2.2
9	B09.02-Bedroom-2	Bedroom	1	0.7
9	B09.03	Living Room	1.5	1.7
9	B09.03-Bedroom-1	Bedroom	1	1.0
9	B09.04	Living Room	1.5	1.2
9	B09.04-Bedroom-1	Bedroom	1	1.6
9	B09.04-Bedroom-2	Bedroom	1	2.4
9	B09.04-Bedroom-3	Bedroom	1	0.4
9	B09.05	Living Room	1.5	4.1
9	B09.05-Bedroom-1	Bedroom	1	3.1
9	B09.06	Living Room	1.5	3.2
9	B09.06-Bedroom-1	Bedroom	1	2.9
10	B10.01	Living Room	1.5	4.4
10	B10.01-Bedroom-1	Bedroom	1	1.4
10	B10.01-Bedroom-2	Bedroom	1	1.4
10	B10.01-Bedroom-3	Bedroom	1	2.5
10	B10.02	Living Room	1.5	3.3
10	B10.02-Bedroom-1	Bedroom	1	2.8
10	B10.02-Bedroom-2	Bedroom	1	1.0
10	B10.03	Living Room	1.5	1.7
10	B10.03-Bedroom-1	Bedroom	1	1.0
10	B10.04	Living Room	1.5	1.2
10	B10.04-Bedroom-1	Bedroom	1	1.7
10	B10.04-Bedroom-2	Bedroom	1	3.5
10	B10.04-Bedroom-3	Bedroom	1	0.7
10	B10.05	Living Room	1.5	4.0
10	B10.05-Bedroom-1	Bedroom	1	3.0
10	B10.06	Living Room	1.5	2.6
10	B10.06-Bedroom-1	Bedroom	1	2.6
11	B11.01	Living Room	1.5	4.7
11	B11.01-Bedroom-1	Bedroom	1	1.8
11	B11.01-Bedroom-2	Bedroom	1	1.9
11	B11.01-Bedroom-3	Bedroom	1	2.7
11	B11.02	Living Room	1.5	3.5
11	B11.02-Bedroom-1	Bedroom	1	4.2

11	B11.02-Bedroom-2	Bedroom	1	1.8
11	B11.03	Living Room	1.5	2.4
11	B11.03-Bedroom-1	Bedroom	1	1.3
11	B11.04	Living Room	1.5	1.9
11	B11.04-Bedroom-1	Bedroom	1	1.9
11	B11.04-Bedroom-2	Bedroom	1	3.1
11	B11.04-Bedroom-3	Bedroom	1	1.0
11	B11.05	Living Room	1.5	3.4
11	B11.05-Bedroom-1	Bedroom	1	2.8
11	B11.06	Living Room	1.5	3.1
11	B11.06-Bedroom-1	Bedroom	1	2.5
12	B12.01	Living Room	1.5	2.4
12	B12.01-Bedroom-1	Bedroom	1	3.3
12	B12.02	Living Room	1.5	4.3
12	B12.02-Bedroom-1	Bedroom	1	2.1
12	B12.02-Bedroom-2	Bedroom	1	2.3
12	B12.02-Bedroom-3	Bedroom	1	3.6
12	B12.03	Living Room	1.5	5.9
12	B12.03-Bedroom-1	Bedroom	1	4.4
12	B12.03-Bedroom-2	Bedroom	1	1.8
12	B12.04	Living Room	1.5	3.2
12	B12.04-Bedroom-1	Bedroom	1	2.2
12	B12.04-Bedroom-2	Bedroom	1	3.1
12	B12.04-Bedroom-3	Bedroom	1	0.0
12	B12.05-Bedroom-1	Bedroom	1	6.8
13	B13.01	Living Room	1.5	6.6
13	B13.01-Bedroom-1	Bedroom	1	7.0
13	B13.01-Bedroom-2	Bedroom	1	6.4
13	B13.02	Living Room	1.5	7.1
13	B13.02-Bedroom-1	Bedroom	1	3.8
13	B13.02-Bedroom-2	Bedroom	1	6.9
13	B13.02-Bedroom-3	Bedroom	1	5.7
13	B13.05	Living Room	1.5	12.1
13	B13.05-Bedroom-2	Bedroom	1	8.1
2	C02.01	Living Room	1.5	0.3
2	C02.01-Bedroom-1	Bedroom	1	0.4
2	C02.01-Bedroom-2	Bedroom	1	0.2
2	C02.02	Living Room	1.5	0.5
2	C02.03	Living Room	1.5	0.3
2	C02.04	Living Room	1.5	0.5
2	C02.05	Living Room	1.5	0.8
2	C02.06	Living Room	1.5	1.9
2	C02.06-Bedroom-2	Bedroom	1	0.6
2	C02.07	Living Room	1.5	1.1
3	C03.01	Living Room	1.5	0.4
3	C03.01-Bedroom-1	Bedroom	1	0.0
3	C03.02	Living Room	1.5	0.0
3	C03.02-Bedroom-1	Bedroom	1	0.1
3	C03.03	Living Room	1.5	0.4
3	C03.03-Bedroom-1	Bedroom	1	0.4

3	C03.03-Bedroom-2	Bedroom	1	0.3
3	C03.04	Living Room	1.5	0.6
3	C03.05	Living Room	1.5	0.5
3	C03.06	Living Room	1.5	0.7
3	C03.07	Living Room	1.5	1.1
3	C03.08	Living Room	1.5	1.9
3	C03.08-Bedroom-1	Bedroom	1	0.7
3	C03.08-Bedroom-2	Bedroom	1	0.6
3	C03.09	Living Room	1.5	1.4
3	C03.09-Bedroom-1	Bedroom	1	0.8
4	C04.01	Living Room	1.5	0.6
4	C04.01-Bedroom-1	Bedroom	1	0.1
4	C04.02	Living Room	1.5	0.0
4	C04.02-Bedroom-1	Bedroom	1	0.2
4	C04.03	Living Room	1.5	0.4
4	C04.03-Bedroom-1	Bedroom	1	0.6
4	C04.03-Bedroom-2	Bedroom	1	0.3
4	C04.04	Living Room	1.5	0.7
4	C04.05	Living Room	1.5	0.6
4	C04.06	Living Room	1.5	0.8
4	C04.07	Living Room	1.5	1.2
4	C04.08	Living Room	1.5	2.1
4	C04.08-Bedroom-1	Bedroom	1	0.9
4	C04.08-Bedroom-2	Bedroom	1	0.9
4	C04.09	Living Room	1.5	2.3
4	C04.09-Bedroom-1	Bedroom	1	1.4
5	C05.01	Living Room	1.5	0.6
5	C05.01-Bedroom-1	Bedroom	1	0.1
5	C05.02	Living Room	1.5	0.0
5	C05.02-Bedroom-1	Bedroom	1	0.2
5	C05.03	Living Room	1.5	0.5
5	C05.03-Bedroom-1	Bedroom	1	0.7
5	C05.03-Bedroom-2	Bedroom	1	0.4
5	C05.04	Living Room	1.5	0.9
5	C05.05	Living Room	1.5	0.7
5	C05.06	Living Room	1.5	0.9
5	C05.07	Living Room	1.5	1.3
5	C05.08	Living Room	1.5	2.3
5	C05.08-Bedroom-1	Bedroom	1	1.6
5	C05.08-Bedroom-2	Bedroom	1	1.7
5	C05.09	Living Room	1.5	2.8
5	C05.09-Bedroom-1	Bedroom	1	1.5
6	C06.01	Living Room	1.5	0.7
6	C06.01-Bedroom-1	Bedroom	1	0.1
6	C06.02	Living Room	1.5	0.0
6	C06.02-Bedroom-1	Bedroom	1	0.3
6	C06.03	Living Room	1.5	0.6
6	C06.03-Bedroom-1	Bedroom	1	0.9
6	C06.03-Bedroom-2	Bedroom	1	0.5
6	C06.04	Living Room	1.5	1.1

6	C06.05	Living Room	1.5	0.8
6	C06.06	Living Room	1.5	1.1
6	C06.07	Living Room	1.5	1.4
6	C06.08	Living Room	1.5	2.4
6	C06.08-Bedroom-1	Bedroom	1	1.7
6	C06.08-Bedroom-2	Bedroom	1	1.9
6	C06.09	Living Room	1.5	3.4
6	C06.09-Bedroom-1	Bedroom	1	2.2
7	C07.01	Living Room	1.5	1.2
7	C07.01-Bedroom-1	Bedroom	1	0.2
7	C07.02	Living Room	1.5	0.0
7	C07.02-Bedroom-1	Bedroom	1	0.5
7	C07.03	Living Room	1.5	0.7
7	C07.03-Bedroom-1	Bedroom	1	1.2
7	C07.03-Bedroom-2	Bedroom	1	0.6
7	C07.04	Living Room	1.5	1.3
7	C07.05	Living Room	1.5	0.9
7	C07.06	Living Room	1.5	1.1
7	C07.07	Living Room	1.5	1.5
7	C07.08	Living Room	1.5	3.4
7	C07.08-Bedroom-1	Bedroom	1	2.0
7	C07.08-Bedroom-2	Bedroom	1	1.9
7	C07.09	Living Room	1.5	3.5
7	C07.09-Bedroom-1	Bedroom	1	2.3
8	C08.01	Living Room	1.5	1.2
8	C08.01-Bedroom-1	Bedroom	1	0.3
8	C08.02	Living Room	1.5	0.0
8	C08.02-Bedroom-1	Bedroom	1	0.7
8	C08.03	Living Room	1.5	1.2
8	C08.03-Bedroom-1	Bedroom	1	1.4
8	C8.03.Bedroom-2	Bedroom	1	0.3
8	C08.04	Living Room	1.5	2.1
8	C08.04-Bedroom-1	Bedroom	1	1.7
8	C08.04-Bedroom-2	Bedroom	1	0.1
8	C08.05	Living Room	1.5	2.4
8	C08.05-Bedroom-1	Bedroom	1	0.0
8	C08.05-Bedroom-2	Bedroom	1	0.1
8	C08.06	Living Room	1.5	3.1
8	C08.06-Bedroom-1	Bedroom	1	2.5
8	C08.06-Bedroom-2	Bedroom	1	2.4
8	C08.07	Living Room	1.5	4.4
8	C08.07-Bedroom-1	Bedroom	1	2.8
9	C09.01	Living Room	1.5	1.6
9	C09.01-Bedroom-1	Bedroom	1	0.5
9	C09.02	Living Room	1.5	1.9
9	C09.02-Bedroom-1	Bedroom	1	1.0
9	C09.03	Living Room	1.5	1.2
9	C09.03-Bedroom-1	Bedroom	1	2.6
9	C09.03-Bedroom-2	Bedroom	1	1.5
9	C09.04	Living Room	1.5	0.7

9	C09.04-Bedroom-1	Bedroom	1	1.5
9	C09.04-Bedroom-2	Bedroom	1	0.9
9	C09.05	Living Room	1.5	5.5
9	C09.05-Bedroom-1	Bedroom	1	1.1
9	C09.05-Bedroom-2	Bedroom	1	2.9
9	C09.06	Living Room	1.5	5.6
9	C09.06-Bedroom-1	Bedroom	1	2.1
9	C09.06-Bedroom-2	Bedroom	1	4.5
10	C10.01	Living Room	1.5	2.0
10	C10.01-Bedroom-1	Bedroom	1	0.8
10	C10.02	Living Room	1.5	2.3
10	C10.02-Bedroom-1	Bedroom	1	1.3
10	C10.03	Living Room	1.5	1.5
10	C10.03-Bedroom-1	Bedroom	1	3.0
10	C10.03-Bedroom-2	Bedroom	1	1.8
10	C10.04	Living Room	1.5	1.0
10	C10.04-Bedroom-1	Bedroom	1	2.0
10	C10.04-Bedroom-2	Bedroom	1	1.0
10	C10.05	Living Room	1.5	5.8
10	C10.05-Bedroom-1	Bedroom	1	1.3
10	C10.05-Bedroom-2	Bedroom	1	3.1
10	C10.06	Living Room	1.5	5.8
10	C10.06-Bedroom-1	Bedroom	1	2.7
10	C10.06-Bedroom-2	Bedroom	1	4.5
11	C11.01	Living Room	1.5	2.7
11	C11.01-Bedroom-1	Bedroom	1	1.6
11	C11.02	Living Room	1.5	3.3
11	C11.02-Bedroom-1	Bedroom	1	1.8
11	C11.03	Living Room	1.5	2.0
11	C11.03-Bedroom-1	Bedroom	1	3.3
11	C11.03-Bedroom-2	Bedroom	1	2.4
11	C11.04	Living Room	1.5	1.5
11	C11.04-Bedroom-1	Bedroom	1	2.7
11	C11.04-Bedroom-2	Bedroom	1	1.3
11	C11.05	Living Room	1.5	6.2
11	C11.05-Bedroom-1	Bedroom	1	1.6
11	C11.05-Bedroom-2	Bedroom	1	3.9
11	C11.06	Living Room	1.5	5.9
11	C11.06-Bedroom-1	Bedroom	1	2.2
11	C11.06-Bedroom-2	Bedroom	1	4.3

Appendix B

Sunlight

Floor	Room	Annual	Winter	Comment
2	A2.01	11%	0%	
2	A2.01Bedroom-1	0%	0%	
2	A2.01Bedroom-2	0%	0%	
2	A2.02	65%	21%	
2	A2.02Bedroom-1	68%	23%	
2	A2.02Bedroom-2	60%	20%	
2	A2.03	52%	19%	
2	A2.03Bedroom-1	56%	17%	
2	A2.03Bedroom-2	59%	18%	
2	A2.04	68%	23%	
2	A2.04Bedroom-1	40%	19%	
2	A2.04Bedroom-2	31%	15%	
2	A2.05	19%	13%	
2	A2.06	13%	8%	
2	A2.06Bedroom-1	24%	11%	
2	A2.07	8%	6%	
2	A2.07Bedroom-1	21%	9%	
3	A3.01	13%	0%	
3	A3.01Bedroom-1	0%	0%	
3	A3.01Bedroom-2	0%	0%	
3	A3.02	70%	24%	
3	A3.02Bedroom-1	71%	25%	
3	A3.02Bedroom-2	63%	21%	
3	A3.03	55%	21%	
3	A3.03Bedroom-1	59%	20%	
3	A3.03Bedroom-2	65%	22%	
3	A3.04	70%	24%	
3	A3.04Bedroom-1	40%	19%	
3	A3.04Bedroom-2	31%	15%	
3	A3.05	19%	13%	
3	A3.05Bedroom-1	21%	11%	
3	A3.06	13%	8%	
3	A3.06Bedroom-1	24%	11%	
3	A3.06Bedroom-2	22%	9%	
3	A3.07	21%	2%	
3	A3.07Bedroom-1	20%	2%	
3	A3.07Bedroom-2	9%	6%	
3	A3.08	14%	0%	
3	A3.08Bedroom-1	18%	1%	
3	A3.08Bedroom-2	2%	0%	
4	A4.01	15%	1%	
4	A4.01Bedroom-1	0%	0%	
4	A4.01Bedroom-2	0%	0%	
4	A4.02	73%	25%	
4	A4.02Bedroom-1	76%	27%	
4	A4.02Bedroom-2	68%	24%	
4	A4.02Bedroom-3	64%	23%	

4	A4.03	58%	24%
4	A4.03Bedroom-1	66%	23%
4	A4.04	72%	26%
4	A4.04Bedroom-1	40%	19%
4	A4.04Bedroom-2	32%	15%
4	A4.05	21%	13%
4	A4.05Bedroom-1	22%	11%
4	A4.06	15%	8%
4	A4.06Bedroom-1	25%	11%
4	A4.06Bedroom-2	23%	9%
4	A4.07	23%	3%
4	A4.07Bedroom-1	24%	4%
4	A4.07Bedroom-2	13%	7%
4	A4.08	16%	0%
4	A4.08Bedroom-1	20%	1%
4	A4.08Bedroom-2	5%	0%
5	A5.01	18%	1%
5	A5.01Bedroom-1	0%	0%
5	A5.01Bedroom-2	0%	0%
5	A5.02	81%	30%
5	A5.02Bedroom-1	80%	31%
5	A5.02Bedroom-2	73%	29%
5	A5.02Bedroom-3	69%	28%
5	A5.03	62%	27%
5	A5.03Bedroom-1	72%	28%
5	A5.04	76%	29%
5	A5.04Bedroom-1	40%	19%
5	A5.04Bedroom-2	33%	15%
5	A5.05	24%	13%
5	A5.05Bedroom-1	24%	11%
5	A5.06	18%	8%
5	A5.06Bedroom-1	27%	11%
5	A5.06Bedroom-2	24%	9%
5	A5.07	24%	4%
5	A5.07Bedroom-1	26%	4%
5	A5.07Bedroom-2	17%	7%
5	A5.08	17%	0%
5	A5.08Bedroom-1	21%	1%
5	A5.08Bedroom-2	7%	0%
6	A6.01	19%	1%
6	A6.01Bedroom-1	0%	0%
6	A6.01Bedroom-2	0%	0%
6	A6.02	84%	31%
6	A6.02Bedroom-1	81%	31%
6	A6.02Bedroom-2	74%	30%
6	A6.02Bedroom-3	70%	29%
6	A6.03	63%	28%
6	A6.03Bedroom-1	74%	30%
6	A6.04	77%	31%
6	A6.04Bedroom-1	40%	19%

6	A6.04Bedroom-2	32%	15%
6	A6.05	25%	13%
6	A6.05Bedroom-1	25%	11%
6	A6.06	19%	8%
6	A6.06Bedroom-1	27%	11%
6	A6.06Bedroom-2	25%	9%
6	A6.07	27%	4%
6	A6.07Bedroom-1	28%	5%
6	A6.07Bedroom-2	17%	7%
6	A6.08	19%	1%
6	A6.08Bedroom-1	23%	1%
6	A6.08Bedroom-2	8%	0%
7	A7.01	20%	1%
7	A7.01Bedroom-1	0%	0%
7	A7.01Bedroom-2	1%	0%
7	A7.02	84%	31%
7	A7.02Bedroom-1	81%	31%
7	A7.02Bedroom-2	74%	30%
7	A7.02Bedroom-3	70%	29%
7	A7.03	63%	28%
7	A7.03Bedroom-1	74%	30%
7	A7.04	79%	31%
7	A7.04Bedroom-1	41%	19%
7	A7.04Bedroom-2	32%	15%
7	A7.05	28%	13%
7	A7.05Bedroom-1	28%	11%
7	A7.06	22%	8%
7	A7.06Bedroom-1	30%	11%
7	A7.06Bedroom-2	28%	9%
7	A7.07	30%	4%
7	A7.07Bedroom-1	34%	5%
7	A7.07Bedroom-2	21%	7%
7	A7.08	19%	1%
7	A7.08Bedroom-1	23%	1%
7	A7.08Bedroom-2	9%	0%
8	A8.01	22%	1%
8	A8.01Bedroom-1	0%	0%
8	A8.01Bedroom-2	1%	0%
8	A8.02	84%	31%
8	A8.02Bedroom-1	81%	31%
8	A8.02Bedroom-2	74%	30%
8	A8.02Bedroom-3	70%	29%
8	A8.03	64%	28%
8	A8.03Bedroom-1	74%	30%
8	A8.04	80%	31%
8	A8.04Bedroom-1	43%	19%
8	A8.04Bedroom-2	35%	15%
8	A8.05	29%	13%
8	A8.05Bedroom-1	29%	12%
8	A8.06	25%	9%

8	A8.06Bedroom-1	32%	12%
8	A8.06Bedroom-2	30%	10%
8	A8.07	31%	4%
8	A8.07Bedroom-1	35%	5%
8	A8.07Bedroom-2	24%	8%
8	A8.08	19%	1%
8	A8.08Bedroom-1	25%	2%
8	A8.08Bedroom-2	9%	0%
9	A9.01	68%	28%
9	A9.01Bedroom-1	33%	17%
9	A9.01Bedroom-2	59%	30%
9	A9.01Bedroom-3	61%	27%
9	A9.02	63%	28%
9	A9.02Bedroom-1	33%	10%
9	A9.02Bedroom-2	32%	12%
9	A9.03	33%	4%
9	A9.03Bedroom-1	25%	6%
9	A9.03Bedroom-2	30%	11%
9	A9.03Bedroom-3	35%	6%
9	A9.04	19%	1%
9	A9.04Bedroom-1	26%	2%
9	A9.04Bedroom-2	9%	0%
10	A10.01	68%	28%
10	A10.01Bedroom-1	33%	17%
10	A10.01Bedroom-2	59%	30%
10	A10.01Bedroom-3	61%	27%
10	A10.02	67%	28%
10	A10.02Bedroom-1	37%	10%
10	A10.02Bedroom-2	37%	13%
10	A10.03	36%	5%
10	A10.03Bedroom-1	29%	7%
10	A10.03Bedroom-2	34%	12%
10	A10.03Bedroom-3	37%	7%
10	A10.04	20%	1%
10	A10.04Bedroom-1	28%	2%
10	A10.04Bedroom-2	9%	0%
11	A11.01	74%	28%
11	A11.01Bedroom-1	36%	17%
11	A11.01Bedroom-2	60%	30%
11	A11.01Bedroom-3	63%	27%
11	A11.02	75%	29%
11	A11.02Bedroom-1	43%	12%
11	A11.02Bedroom-2	42%	15%
11	A11.03	38%	8%
11	A11.03Bedroom-1	38%	10%
11	A11.03Bedroom-2	42%	15%
11	A11.03Bedroom-3	37%	7%
11	A11.04	28%	1%
11	A11.04Bedroom-1	31%	3%
11	A11.04Bedroom-2	11%	0%

12	A12.01	96%	31%
12	A12.01Bedroom-1	70%	23%
12	A12.01Bedroom-2	81%	31%
12	A12.01Bedroom-3	81%	29%
12	A12.02	100%	32%
12	A12.02Bedroom-1	57%	19%
12	A12.02Bedroom-2	60%	22%
12	A12.03	87%	32%
12	A12.03Bedroom-1	57%	19%
12	A12.03Bedroom-2	60%	22%
12	A12.03hall	55%	17%
12	A12.03vs	57%	18%
12	A12.03vs	58%	20%
12	A12.04	100%	32%
12	A12.04Bedroom-1	57%	19%
12	A12.04Bedroom-2	60%	22%
12	A12.04hall	55%	17%
12	A12.04vs	57%	18%
12	A12.04vs	58%	19%
12	A12.05	57%	19%
12	A12.05Bedroom-1	44%	13%
12	A12.05Bedroom-2	35%	7%
12	A12.06	41%	11%
12	A12.06Bedroom-1	41%	11%
12	A12.06Bedroom-2	38%	9%
12	A12.06Bedroom-3	38%	9%
12	A12.07	41%	11%
12	A12.07Bedroom-1	40%	10%
12	A12.07Bedroom-2	38%	9%
12	A12.07Bedroom-3	35%	5%
2	B2.01	9%	0%
2	B2.01Bedroom-1	12%	0%
2	B2.02	22%	7%
2	B2.02Bedroom-1	18%	3%
2	B2.03	11%	1%
2	B2.03Bedroom-1	19%	4%
2	B2.04	11%	0%
2	B2.04Bedroom-1	7%	0%
2	B2.05	8%	0%
2	B2.05Bedroom-1	5%	0%
2	B2.06	12%	0%
3	B2.06Bedroom-1	0%	0%
2	B2.07	5%	0%
3	B2.07Bedroom-1	0%	0%
2	B2.08	13%	1%
3	B2.08Bedroom-1	0%	0%
2	B2.09	11%	0%
3	B2.09Bedroom-1	0%	0%
2	B2.10	23%	3%
3	B2.10Bedroom-1	18%	3%

3	B3.01	13%	2%
3	B3.01Bedroom-1	18%	3%
3	B3.01Bedroom-2	15%	2%
3	B3.02	23%	7%
3	B3.03	13%	2%
3	B3.03Bedroom-1	20%	4%
3	B3.03Bedroom-2	19%	4%
3	B3.04	52%	19%
3	B3.04Bedroom-1	16%	2%
3	B3.04Bedroom-2	13%	1%
3	B3.04Bedroom-3	39%	13%
3	B3.05	12%	0%
3	B3.05Bedroom-1	9%	0%
3	B3.06	10%	0%
3	B3.06Bedroom-1	7%	0%
3	B3.07	28%	10%
3	B3.07Bedroom-1	25%	7%
3	B3.08	24%	8%
3	B3.08Bedroom-1	24%	6%
3	B3.08Bedroom-2	24%	6%
3	B3.09	11%	0%
3	B3.09Bedroom-1	5%	0%
4	B4.01	15%	2%
4	B4.01Bedroom-1	17%	2%
4	B4.02	26%	7%
4	B4.03	15%	2%
4	B4.03Bedroom-1	22%	4%
4	B4.03Bedroom-2	23%	5%
4	B4.04	59%	21%
4	B4.04Bedroom-1	18%	2%
4	B4.04Bedroom-2	15%	1%
4	B4.04Bedroom-3	41%	15%
4	B4.05	15%	1%
4	B4.05Bedroom-1	10%	0%
4	B4.06	11%	0%
4	B4.06Bedroom-1	10%	0%
4	B4.07	28%	10%
4	B4.07Bedroom-1	26%	8%
4	B4.08	27%	10%
4	B4.08Bedroom-1	26%	8%
4	B4.08Bedroom-2	26%	8%
4	B4.09	13%	0%
4	B4.10	3%	0%
4	B4.10Bedroom-1	7%	0%
4	B4.10Bedroom-2	5%	0%
4	B4.11	0%	0%
4	B4.11Bedroom-1	0%	0%
4	B4.11Bedroom-2	5%	0%
4	B4.12	23%	2%
4	B4.12Bedroom-1	19%	3%

4	B4.12Bedroom-2	21%	3%
5	B5.01	17%	2%
5	B5.01Bedroom-1	19%	2%
5	B5.02	28%	7%
5	B5.03	17%	2%
5	B5.03Bedroom-1	24%	4%
5	B5.03Bedroom-2	26%	7%
5	B5.04	62%	23%
5	B5.04Bedroom-1	21%	4%
5	B5.04Bedroom-2	19%	3%
5	B5.04Bedroom-3	45%	16%
5	B5.05	20%	3%
5	B5.05Bedroom-1	13%	1%
5	B5.06	16%	2%
5	B5.06Bedroom-1	13%	1%
5	B5.07	29%	11%
5	B5.07Bedroom-1	29%	9%
5	B5.08	30%	11%
5	B5.08Bedroom-1	27%	9%
5	B5.08Bedroom-2	26%	8%
5	B5.09	14%	0%
5	B5.10	5%	0%
5	B5.10Bedroom-1	8%	0%
5	B5.10Bedroom-2	8%	0%
5	B5.11	5%	0%
5	B5.11Bedroom-1	5%	0%
5	B5.11Bedroom-2	8%	0%
5	B5.12	27%	3%
5	B5.12Bedroom-1	21%	4%
5	B5.12Bedroom-2	24%	4%
6	B6.01	21%	3%
6	B6.01Bedroom-1	23%	3%
6	B6.02	31%	8%
6	B6.03	21%	3%
6	B6.03Bedroom-1	29%	6%
6	B6.03Bedroom-2	29%	7%
6	B6.04	67%	23%
6	B6.04Bedroom-1	24%	4%
6	B6.04Bedroom-2	23%	4%
6	B6.04Bedroom-3	50%	17%
6	B6.05	23%	6%
6	B6.05Bedroom-1	13%	1%
6	B6.06	21%	4%
6	B6.06Bedroom-1	14%	1%
6	B6.07	32%	12%
6	B6.07Bedroom-1	30%	10%
6	B6.08	33%	12%
6	B6.08Bedroom-1	31%	10%
6	B6.08Bedroom-2	27%	9%
6	B6.09	14%	0%

6	B6.10	7%	0%
6	B6.10Bedroom-1	9%	0%
6	B6.10Bedroom-2	9%	0%
6	B6.11	7%	0%
6	B6.11Bedroom-1	7%	0%
6	B6.11Bedroom-2	9%	0%
6	B6.12	30%	5%
6	B6.12Bedroom-1	23%	6%
6	B6.12Bedroom-2	26%	6%
7	B7.01	25%	4%
7	B7.01Bedroom-1	27%	4%
7	B7.02	35%	9%
7	B7.03	26%	5%
7	B7.03Bedroom-1	33%	7%
7	B7.03Bedroom-2	33%	7%
7	B7.04	72%	26%
7	B7.04Bedroom-1	28%	5%
7	B7.04Bedroom-2	29%	7%
7	B7.04Bedroom-3	55%	21%
7	B7.05	27%	7%
7	B7.05Bedroom-1	25%	3%
7	B7.06	24%	5%
7	B7.06Bedroom-1	17%	2%
7	B7.07	34%	12%
7	B7.07Bedroom-1	33%	12%
7	B7.08	35%	13%
7	B7.08Bedroom-1	33%	11%
7	B7.08Bedroom-2	28%	10%
7	B7.09	14%	0%
7	B7.10	7%	0%
7	B7.10Bedroom-1	10%	0%
7	B7.10Bedroom-2	10%	0%
7	B7.11	7%	0%
7	B7.11Bedroom-1	8%	0%
7	B7.11Bedroom-2	10%	0%
7	B7.12	33%	6%
7	B7.12Bedroom-1	25%	6%
7	B7.12Bedroom-2	28%	6%
8	B8.01	27%	5%
8	B8.01Bedroom-1	29%	5%
8	B8.02	39%	9%
8	B8.03	30%	5%
8	B8.03Bedroom-1	37%	8%
8	B8.03Bedroom-2	37%	8%
8	B8.04	77%	27%
8	B8.04Bedroom-1	33%	5%
8	B8.04Bedroom-2	31%	7%
8	B8.04Bedroom-3	58%	22%
8	B8.05	33%	9%
8	B8.05Bedroom-1	29%	5%

8	B8.06	30%	6%
8	B8.06Bedroom-1	28%	6%
8	B8.07	39%	14%
8	B8.07Bedroom-1	35%	13%
8	B8.08	40%	14%
8	B8.08Bedroom-1	34%	12%
8	B8.08Bedroom-2	29%	10%
8	B8.09	14%	0%
8	B8.10	7%	0%
8	B8.10Bedroom-1	11%	0%
8	B8.10Bedroom-2	11%	0%
8	B8.11	7%	0%
8	B8.11Bedroom-1	8%	0%
8	B8.11Bedroom-2	11%	0%
8	B8.12	35%	8%
8	B8.12Bedroom-1	26%	8%
8	B8.12Bedroom-2	29%	8%
9	B9.01	61%	20%
9	B9.01Bedroom-1	26%	7%
9	B9.01Bedroom-2	23%	3%
9	B9.01Bedroom-3	21%	2%
9	B9.02	81%	24%
9	B9.02Bedroom-1	36%	9%
9	B9.02Bedroom-2	35%	8%
9	B9.03	42%	16%
9	B9.03Bedroom-1	38%	16%
9	B9.04	47%	17%
9	B9.04Bedroom-1	3%	0%
9	B9.04Bedroom-2	11%	0%
9	B9.04Bedroom-3	29%	10%
9	B9.05	7%	0%
9	B9.05Bedroom-1	11%	0%
9	B9.06	11%	0%
9	B9.06Bedroom-1	3%	0%
10	B10.01	65%	20%
10	B10.01Bedroom-1	26%	7%
10	B10.01Bedroom-2	24%	3%
10	B10.01Bedroom-3	21%	2%
10	B10.02	86%	27%
10	B10.02Bedroom-1	44%	14%
10	B10.02Bedroom-2	42%	13%
10	B10.03	51%	19%
10	B10.03Bedroom-1	42%	18%
10	B10.04	56%	19%
10	B10.04Bedroom-1	3%	0%
10	B10.04Bedroom-2	11%	0%
10	B10.04Bedroom-3	31%	12%
10	B10.05	7%	0%
10	B10.05Bedroom-1	11%	0%
10	B10.06	11%	0%

10	B10.06Bedroom-1	3%	0%
11	B11.01	71%	22%
11	B11.01Bedroom-1	26%	7%
11	B11.01Bedroom-2	24%	3%
11	B11.01Bedroom-3	23%	3%
11	B11.02	94%	30%
11	B11.02Bedroom-1	50%	18%
11	B11.02Bedroom-2	49%	16%
11	B11.03	59%	22%
11	B11.03Bedroom-1	52%	21%
11	B11.04	61%	21%
11	B11.04Bedroom-1	3%	0%
11	B11.04Bedroom-2	11%	0%
11	B11.04Bedroom-3	39%	14%
11	B11.05	8%	0%
11	B11.05Bedroom-1	11%	0%
11	B11.06	17%	0%
11	B11.06Bedroom-1	3%	0%
12	B12.01	25%	0%
12	B12.01Bedroom-1	3%	0%
12	B12.02	83%	30%
12	B12.02Bedroom-1	34%	8%
12	B12.02Bedroom-2	22%	3%
12	B12.02Bedroom-3	22%	3%
12	B12.03	100%	32%
12	B12.03Bedroom-1	58%	21%
12	B12.03Bedroom-2	54%	19%
12	B12.04	77%	29%
12	B12.04Bedroom-1	57%	26%
12	B12.04Bedroom-2	62%	20%
12	B12.04Bedroom-3	0%	0%
12	B12.05	88%	32%
12	B12.05Bedroom-1	7%	0%
12	B12.05Bedroom-2	16%	0%
12	B12.05hall	15%	0%
12	B12.05vs	15%	0%
12	B12.05vs	16%	0%
13	B13.01	53%	7%
13	B13.01Bedroom-1	41%	11%
13	B13.01Bedroom-2	37%	7%
13	B13.02	100%	32%
13	B13.02Bedroom-1	34%	5%
13	B13.02Bedroom-2	40%	11%
13	B13.02Bedroom-3	35%	6%
2	C2.01	3%	1%
2	C2.01Bedroom-1	11%	5%
2	C2.01Bedroom-2	14%	3%
2	C2.02	21%	8%
2	C2.03	23%	8%
2	C2.04	25%	7%

2	C2.05	29%	6%
2	C2.06	37%	7%
2	C2.06Bedroom-2	11%	0%
2	C2.07	11%	0%
2	C2.07Bedroom-1	28%	11%
3	C3.01	24%	5%
3	C3.01Bedroom-1	21%	5%
3	C3.02	23%	4%
3	C3.02Bedroom-1	24%	4%
3	C3.03	5%	1%
3	C3.03Bedroom-1	13%	5%
3	C3.03Bedroom-2	14%	3%
3	C3.04	22%	8%
3	C3.05	24%	8%
3	C3.06	26%	7%
3	C3.07	30%	6%
3	C3.08	38%	7%
3	C3.08Bedroom-1	5%	0%
3	C3.08Bedroom-2	11%	0%
3	C3.09	11%	0%
3	C3.09Bedroom-1	6%	0%
4	C4.01	27%	6%
4	C4.01Bedroom-1	21%	6%
4	C4.02	25%	5%
4	C4.02Bedroom-1	25%	5%
4	C4.03	9%	2%
4	C4.03Bedroom-1	16%	6%
4	C4.03Bedroom-2	18%	4%
4	C4.04	24%	8%
4	C4.05	26%	8%
4	C4.06	28%	8%
4	C4.07	32%	6%
4	C4.08	40%	7%
4	C4.08Bedroom-1	5%	0%
4	C4.08Bedroom-2	11%	0%
4	C4.09	11%	0%
4	C4.09Bedroom-1	6%	0%
5	C5.01	28%	7%
5	C5.01Bedroom-1	22%	6%
5	C5.02	27%	5%
5	C5.02Bedroom-1	25%	5%
5	C5.03	12%	2%
5	C5.03Bedroom-1	18%	6%
5	C5.03Bedroom-2	19%	4%
5	C5.04	26%	8%
5	C5.05	28%	8%
5	C5.06	31%	8%
5	C5.07	34%	7%
5	C5.08	42%	8%
5	C5.08Bedroom-1	8%	0%

5	C5.08Bedroom-2	14%	0%
5	C5.09	14%	0%
5	C5.09Bedroom-1	8%	0%
6	C6.01	29%	7%
6	C6.01Bedroom-1	24%	7%
6	C6.02	30%	5%
6	C6.02Bedroom-1	27%	6%
6	C6.03	13%	2%
6	C6.03Bedroom-1	19%	6%
6	C6.03Bedroom-2	20%	4%
6	C6.04	27%	8%
6	C6.05	29%	8%
6	C6.06	32%	8%
6	C6.07	35%	7%
6	C6.08	43%	8%
6	C6.08Bedroom-1	10%	0%
6	C6.08Bedroom-2	14%	0%
6	C6.09	14%	0%
6	C6.09Bedroom-1	10%	0%
7	C7.01	31%	9%
7	C7.01Bedroom-1	25%	8%
7	C7.02	35%	6%
7	C7.02Bedroom-1	30%	7%
7	C7.03	19%	5%
7	C7.03Bedroom-1	23%	6%
7	C7.03Bedroom-2	24%	6%
7	C7.04	30%	9%
7	C7.05	32%	9%
7	C7.06	35%	9%
7	C7.07	38%	8%
7	C7.08	45%	9%
7	C7.08Bedroom-1	10%	0%
7	C7.08Bedroom-2	14%	0%
7	C7.09	14%	0%
7	C7.09Bedroom-1	11%	0%
8	C8.01	32%	9%
8	C8.01Bedroom-1	29%	9%
8	C8.02	37%	7%
8	C8.02Bedroom-1	31%	8%
8	C8.03	21%	5%
8	C8.03Bedroom-1	25%	7%
8	C8.03Bedroom-2	27%	6%
8	C8.04	33%	10%
8	C8.05	35%	10%
8	C8.06	38%	10%
8	C8.07	42%	10%
8	C8.08	48%	11%
8	C8.08Bedroom-1	10%	0%
8	C8.08Bedroom-2	14%	0%
8	C8.09	14%	0%

8	C8.09Bedroom-1	11%	0%
9	C9.01	32%	9%
9	C9.01Bedroom-1	28%	8%
9	C9.02	37%	8%
9	C9.02Bedroom-1	30%	8%
9	C9.03	28%	9%
9	C9.03Bedroom-1	19%	2%
9	C9.03Bedroom-2	29%	9%
9	C9.04	24%	5%
9	C9.04Bedroom-1	30%	9%
9	C9.04Bedroom-2	18%	0%
9	C9.05	47%	12%
9	C9.05Bedroom-1	24%	3%
9	C9.05Bedroom-2	44%	12%
9	C9.06	35%	3%
9	C9.06Bedroom-1	21%	0%
9	C9.06Bedroom-2	11%	0%
10	C10.01	36%	9%
10	C10.01Bedroom-1	30%	8%
10	C10.02	39%	9%
10	C10.02Bedroom-1	34%	8%
10	C10.03	35%	11%
10	C10.03Bedroom-1	25%	2%
10	C10.03Bedroom-2	35%	10%
10	C10.04	29%	7%
10	C10.04Bedroom-1	36%	11%
10	C10.04Bedroom-2	24%	1%
10	C10.05	49%	13%
10	C10.05Bedroom-1	30%	4%
10	C10.05Bedroom-2	47%	13%
10	C10.06	42%	6%
10	C10.06Bedroom-1	25%	1%
10	C10.06Bedroom-2	11%	0%
11	C11.01	41%	11%
11	C11.01Bedroom-1	34%	8%
11	C11.02	41%	11%
11	C11.02Bedroom-1	38%	8%
11	C11.03	41%	14%
11	C11.03Bedroom-1	31%	5%
11	C11.03Bedroom-2	41%	13%
11	C11.04	37%	10%
11	C11.04Bedroom-1	41%	14%
11	C11.04Bedroom-2	28%	3%
11	C11.05	55%	17%
11	C11.05Bedroom-1	38%	9%
11	C11.05Bedroom-2	52%	17%
11	C11.06	47%	8%
11	C11.06Bedroom-1	30%	1%
11	C11.06Bedroom-2	11%	0%

Report end

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