

DAYLIGHT+SOLAR DESIGN



5847 - Station Hill Daylight and Sunlight Potential Assessment

Site Overview - Proposed Scenario

Sources of information:

- Rel34_5847

Issue No:

IS8-5847

Page No:

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Date:

July 22, 2015

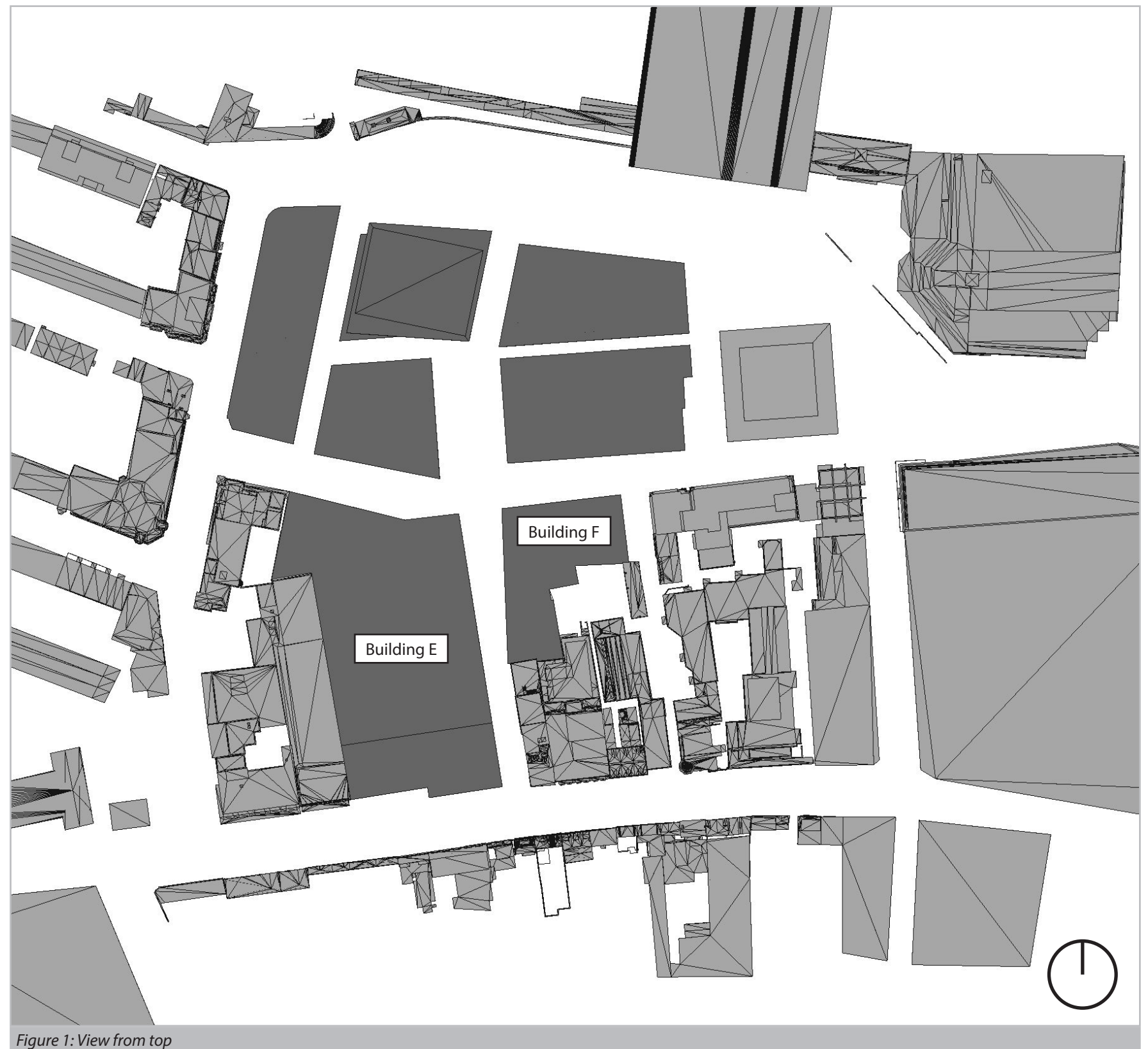


Figure 1: View from top



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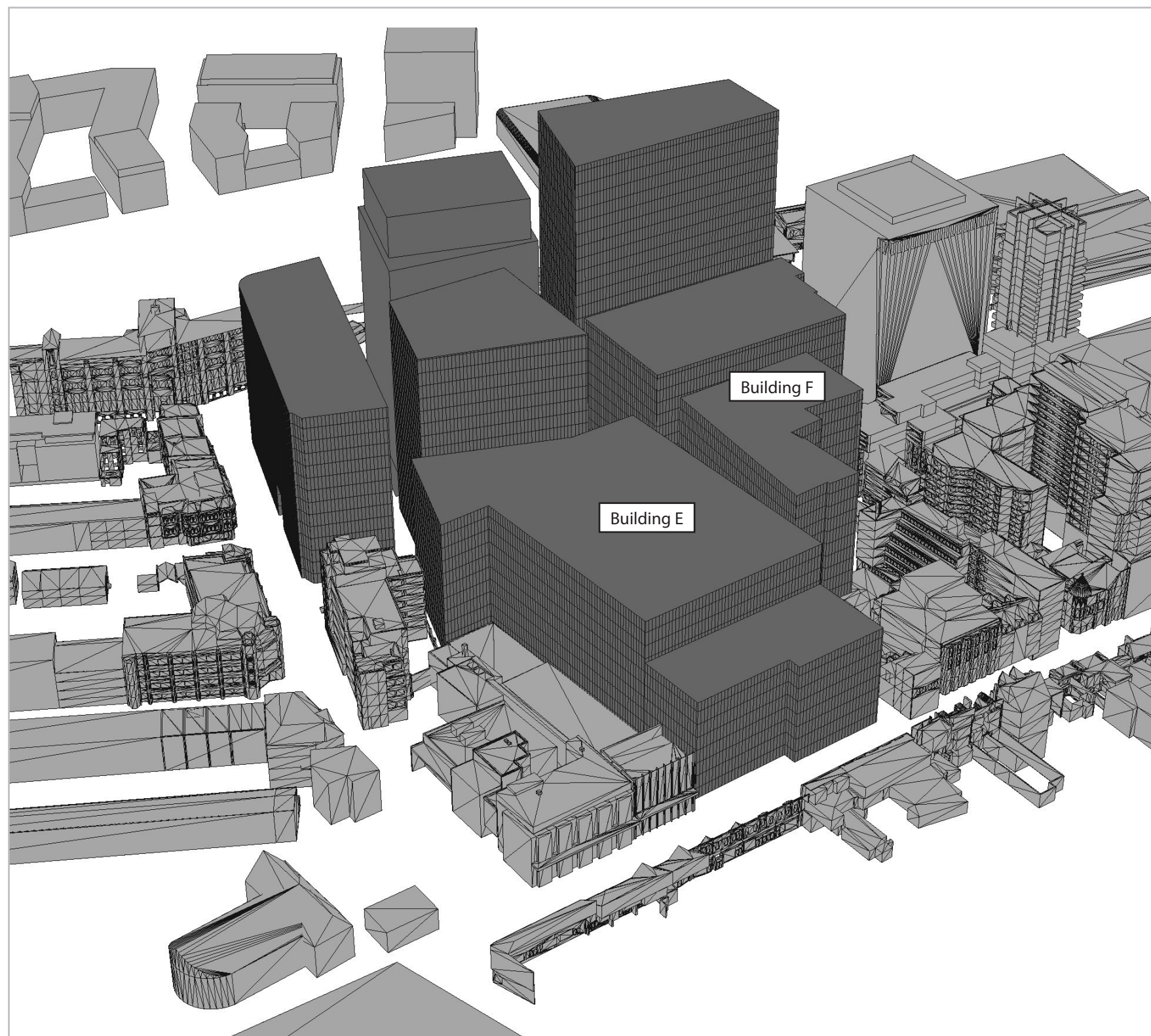
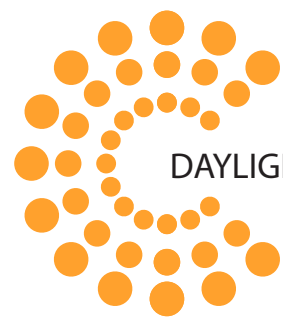


Figure 2: Perspective view



5847 - Station Hill Daylight and Sunlight Potential Assessment

Vertical Sky Component (VSC) - Building E - Cumulative Scenario

Sources of information:

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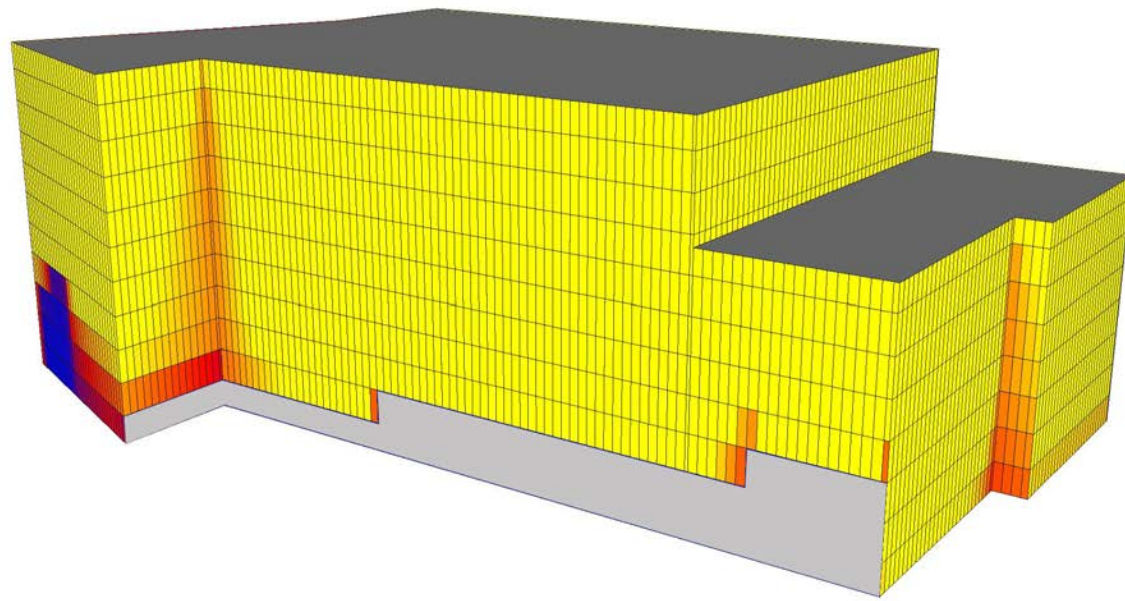


Figure 3: View 1

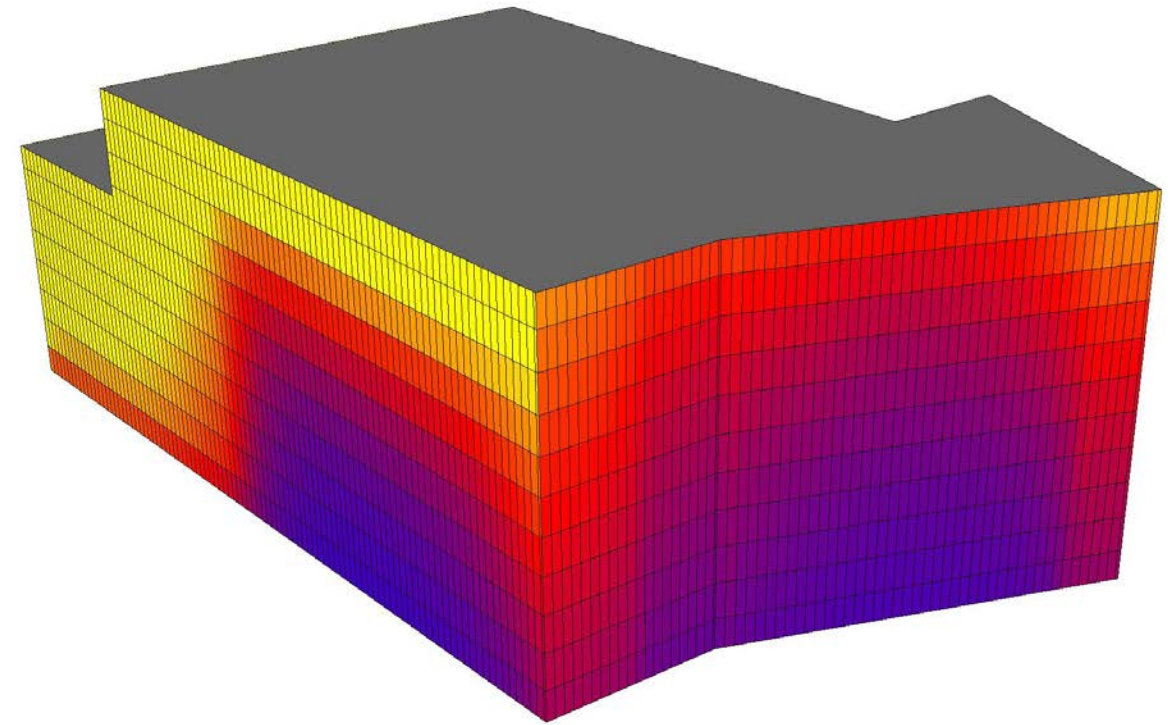
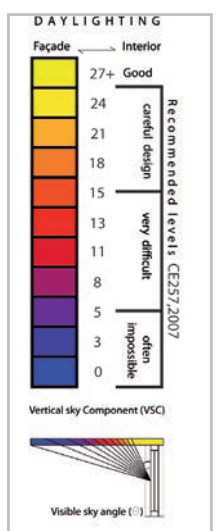
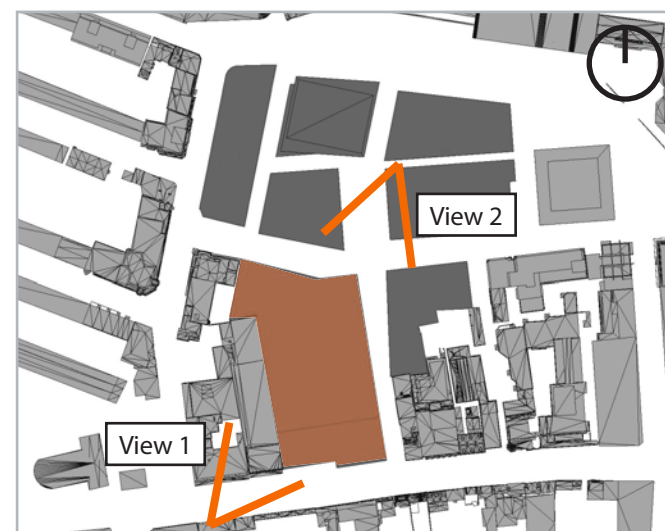
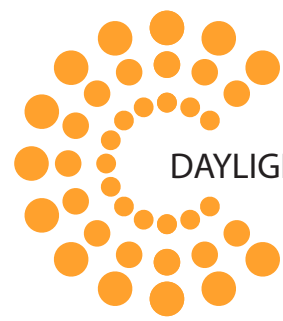


Figure 4: View 2

VSC	Area (m2)	Area (%)
27+	6713	50
15-26	2228	17
5-14	3439	26
0-4	1106	8
Total	13486	100

Table 2: VSC Results





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Vertical Sky Component (VSC) - Building F - Cumulative Scenario

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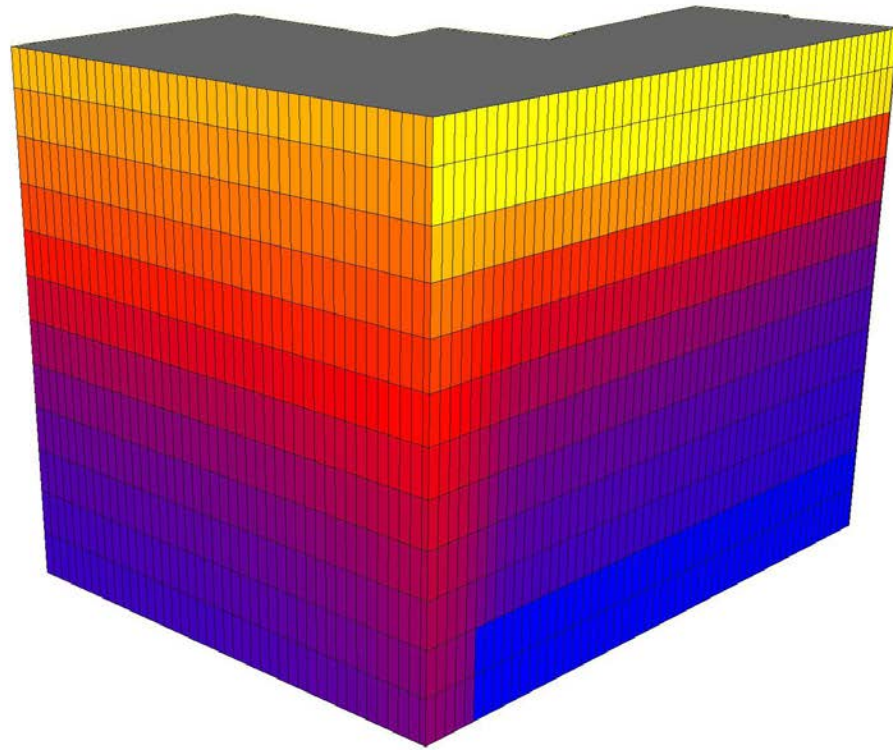


Figure 5: View 3

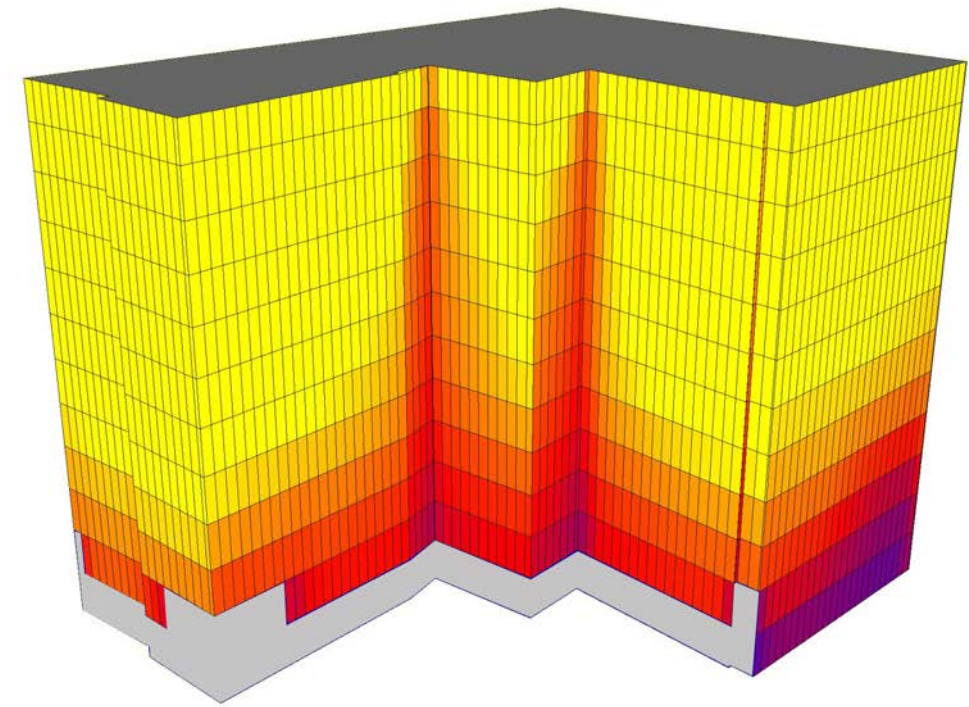
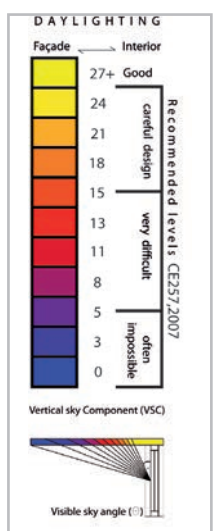
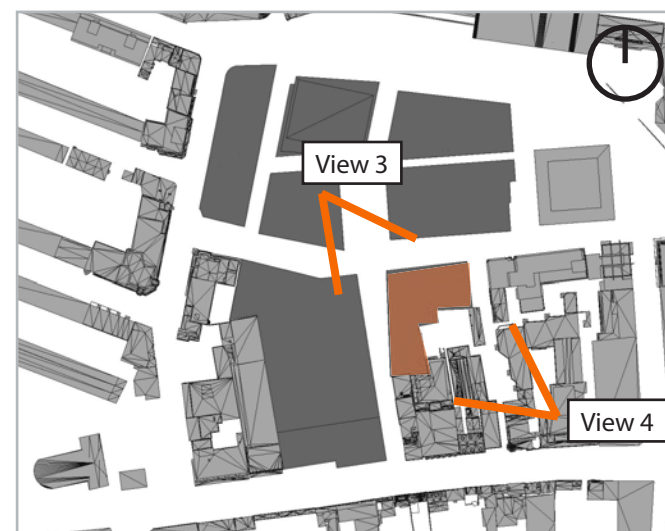


Figure 6: View 4

VSC	Area (m2)	Area (%)
27+	2273	25
15-26	2815	30
5-14	2564	28
0-4	1544	17
Total	9197	100

Table 3: VSC Results



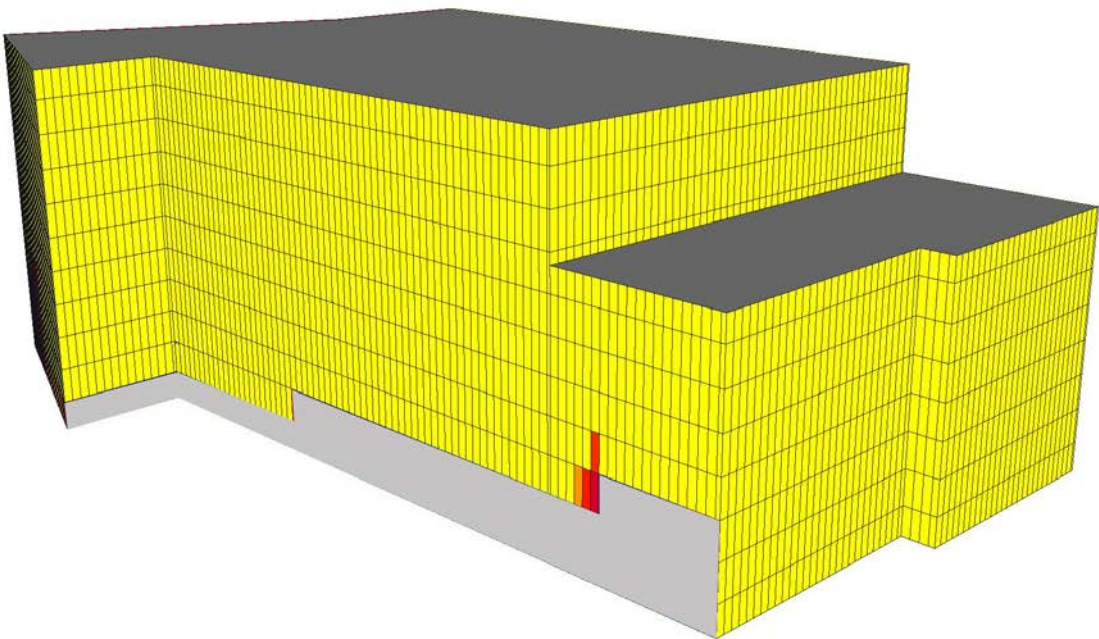


Figure 7: Total APSH

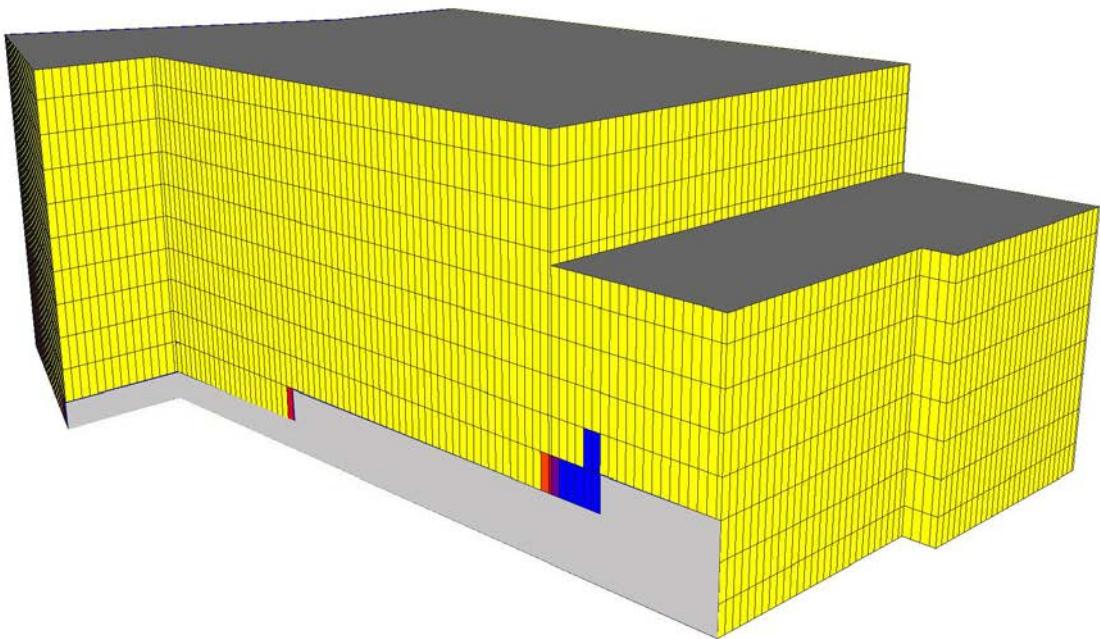
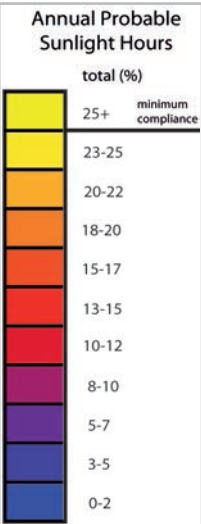
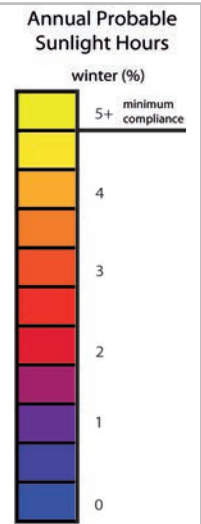


Figure 8: Winter APSH



Total area assessed [m2]	5976	
BRE compliant	5350	89.5%
Total APSH	Area [m2]	Area [%]
0-4	545	9.1%
5-9	32	0.5%
10-14	17	0.3%
15-19	8	0.1%
20-24	0	0.0%
25+	5374	89.9%
Winter APSH	Area [m2]	Area [%]
0	575	9.6%
1	4	0.1%
2	15	0.2%
3	27	0.4%
4	0	0.0%
5+	5355	89.6%

Table 4: APSH Results



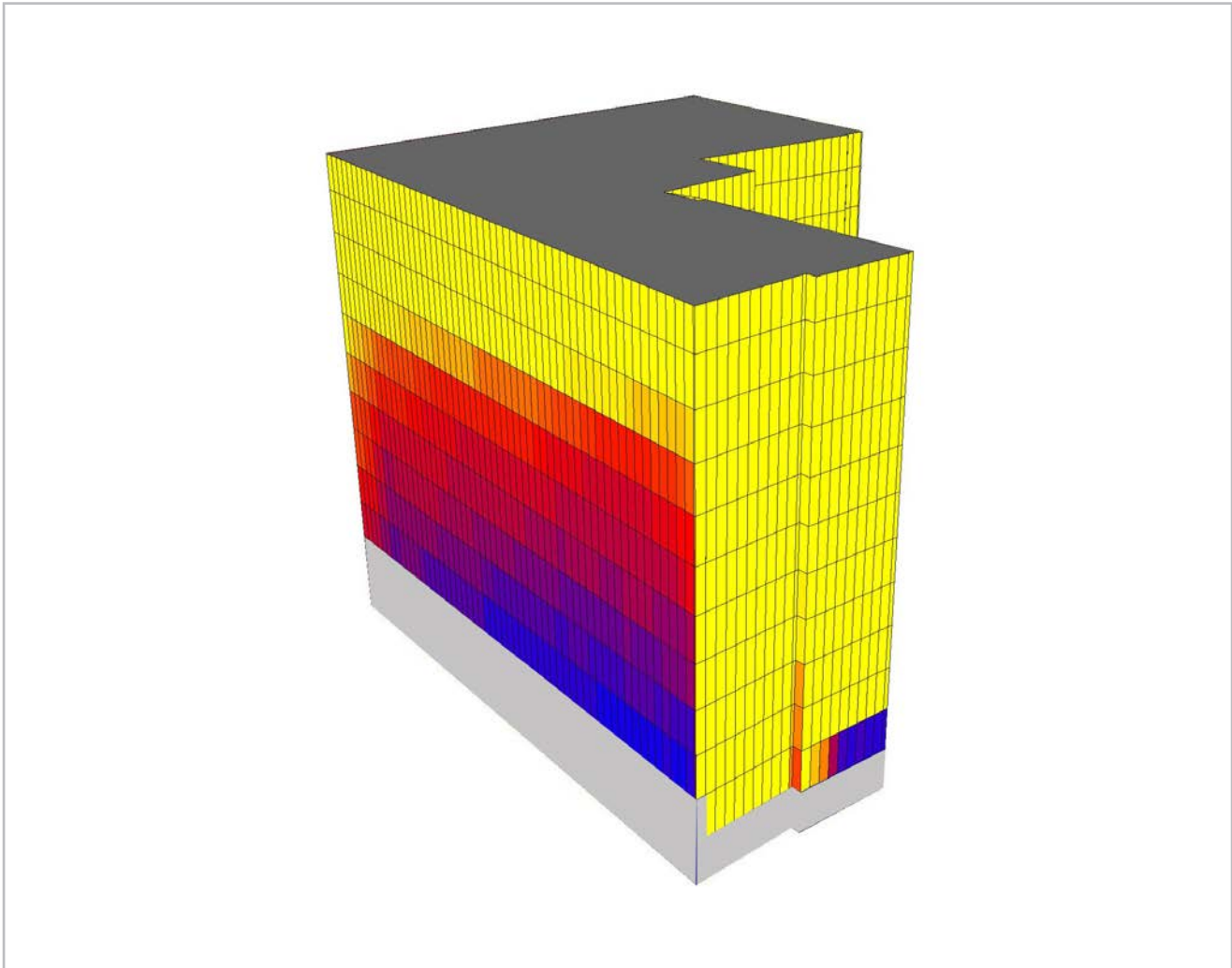


Figure 9: Total APSH

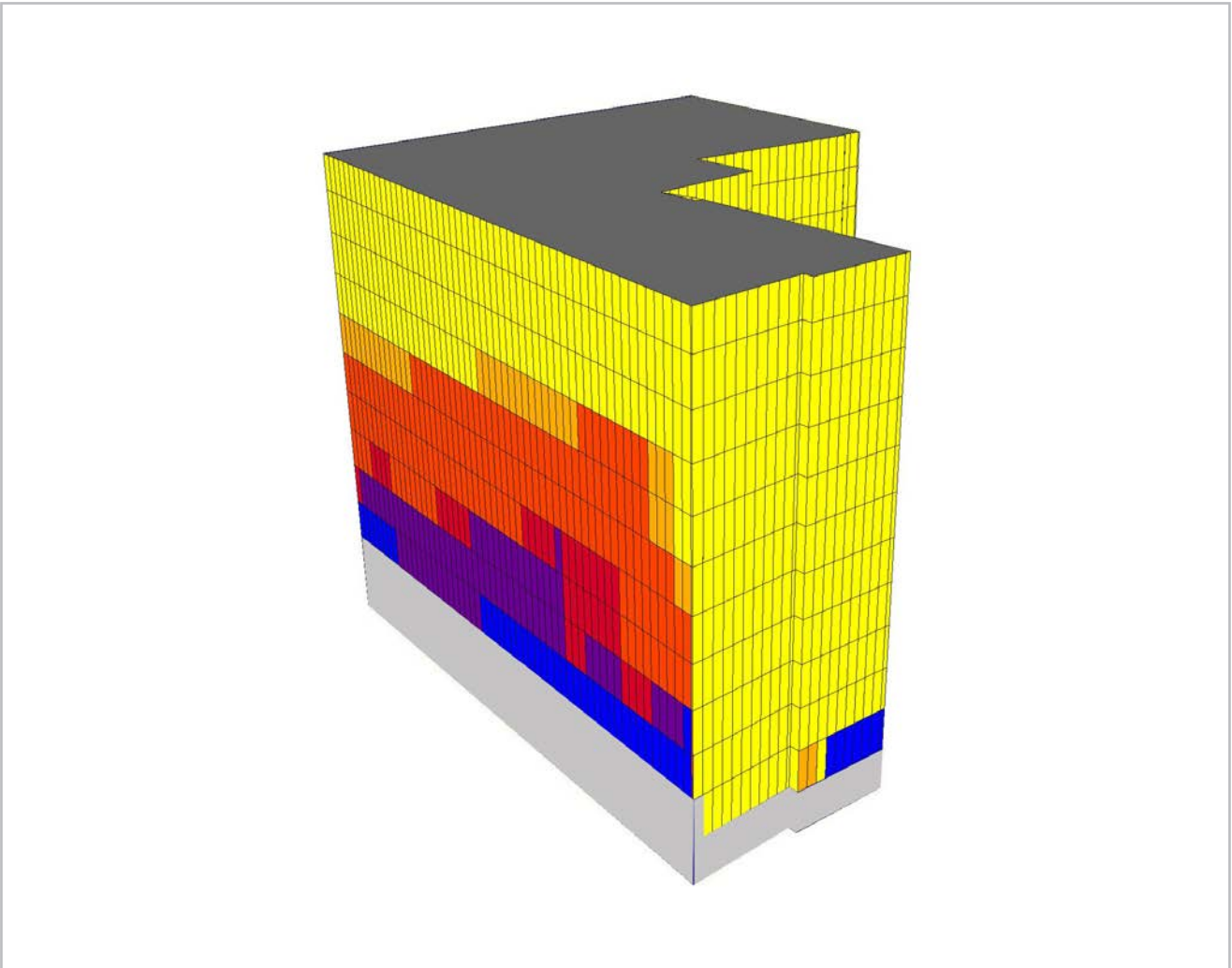
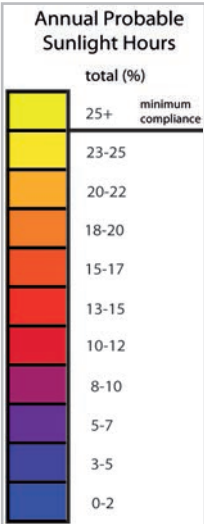
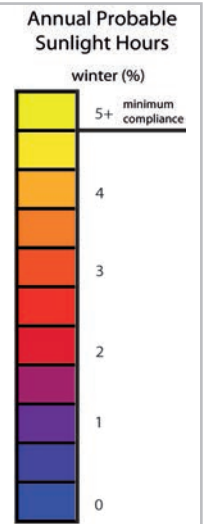


Figure 10: Winter APSH



Total area assessed [m2]	4778	
BRE compliant	2504	52.4%
Total APSH	Area [m2]	Area [%]
0-4	883	18.5%
5-9	548	11.5%
10-14	431	9.0%
15-19	158	3.3%
20-24	193	4.0%
25+	2565	53.7%
Winter APSH	Area [m2]	Area [%]
0	803	16.8%
1	296	6.2%
2	160	3.4%
3	636	13.3%
4	186	3.9%
5+	2696	56.4%

Table 5: APSH Results



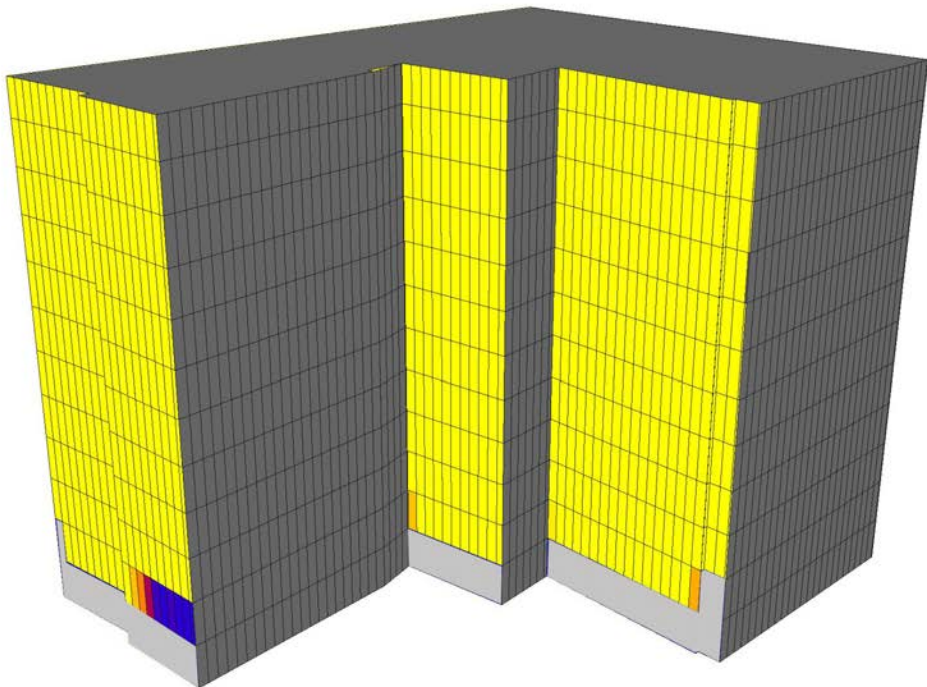


Figure 11: Total APSH

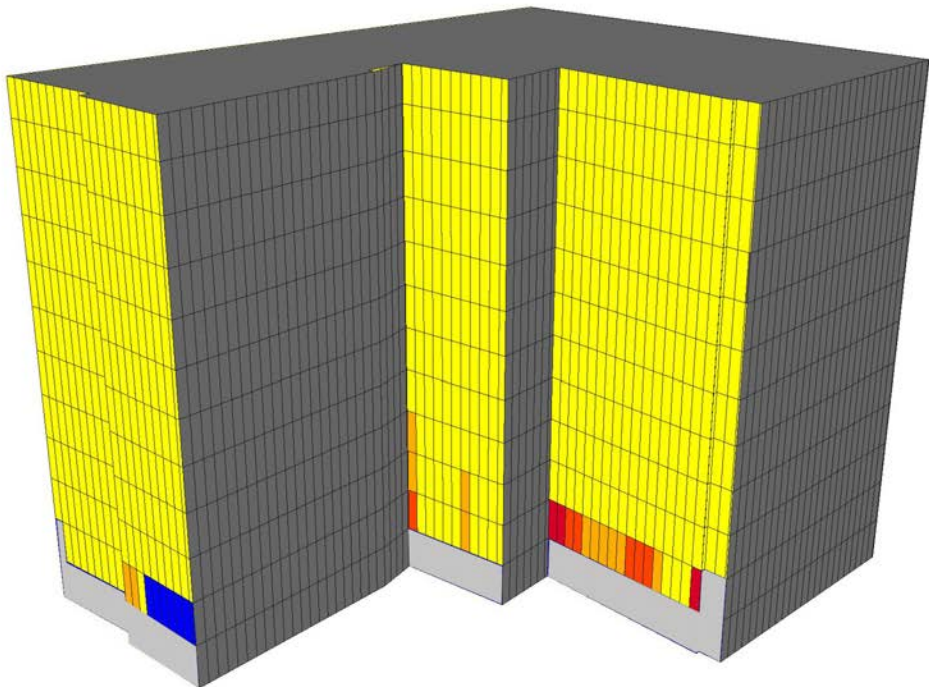
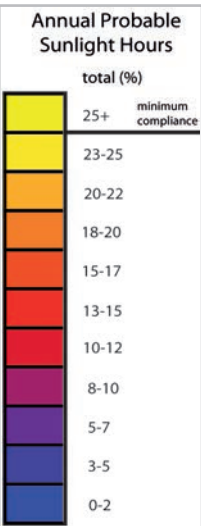
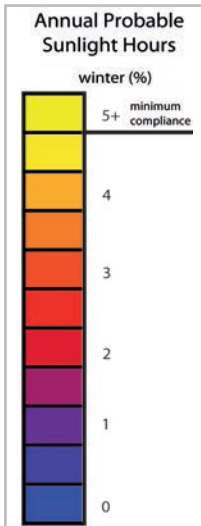


Figure 12: Winter APSH



Total area assessed [m2]	4778	
BRE compliant	2504	52.4%
Total APSH	Area [m2]	Area [%]
0-4	883	18.5%
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10-14	431	9.0%
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0	803	16.8%
1	296	6.2%
2	160	3.4%
3	636	13.3%
4	186	3.9%
5+	2696	56.4%

Table 6: APSH Results





Appendix 16.4

Internal Scheme Analysis

APPENDIX 16.4

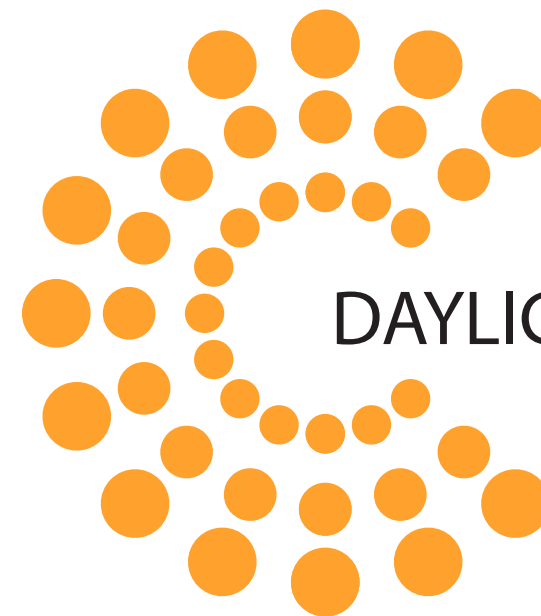
OVERSHADOWING ASSESSMENT

*SUN-ON-GROUND
TRANSIENT OVERSHADOWING*

Overshadowing Assessment

Station Hill
Project No: 5847

July 22, 2015



DAYLIGHT+SOLAR DESIGN

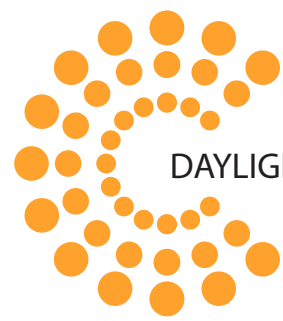


- Rel34_5847

Client	Stanhope
Architect	Allies and Morrison
Project Title	Station Hill
Project Number	5847
Report Title	Overshadowing Assessment
Dated	July 22, 2015

Prepared by	GL
Checked by	SP
Type	Planning

Revisions		Date:	Notes:	Signed:
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5847 - Station Hill Overshadowing Assessment

Sun Hours on Ground - 21st March - Proposed Scenario

Sources of information:

- Rel34_5847

Issue No:

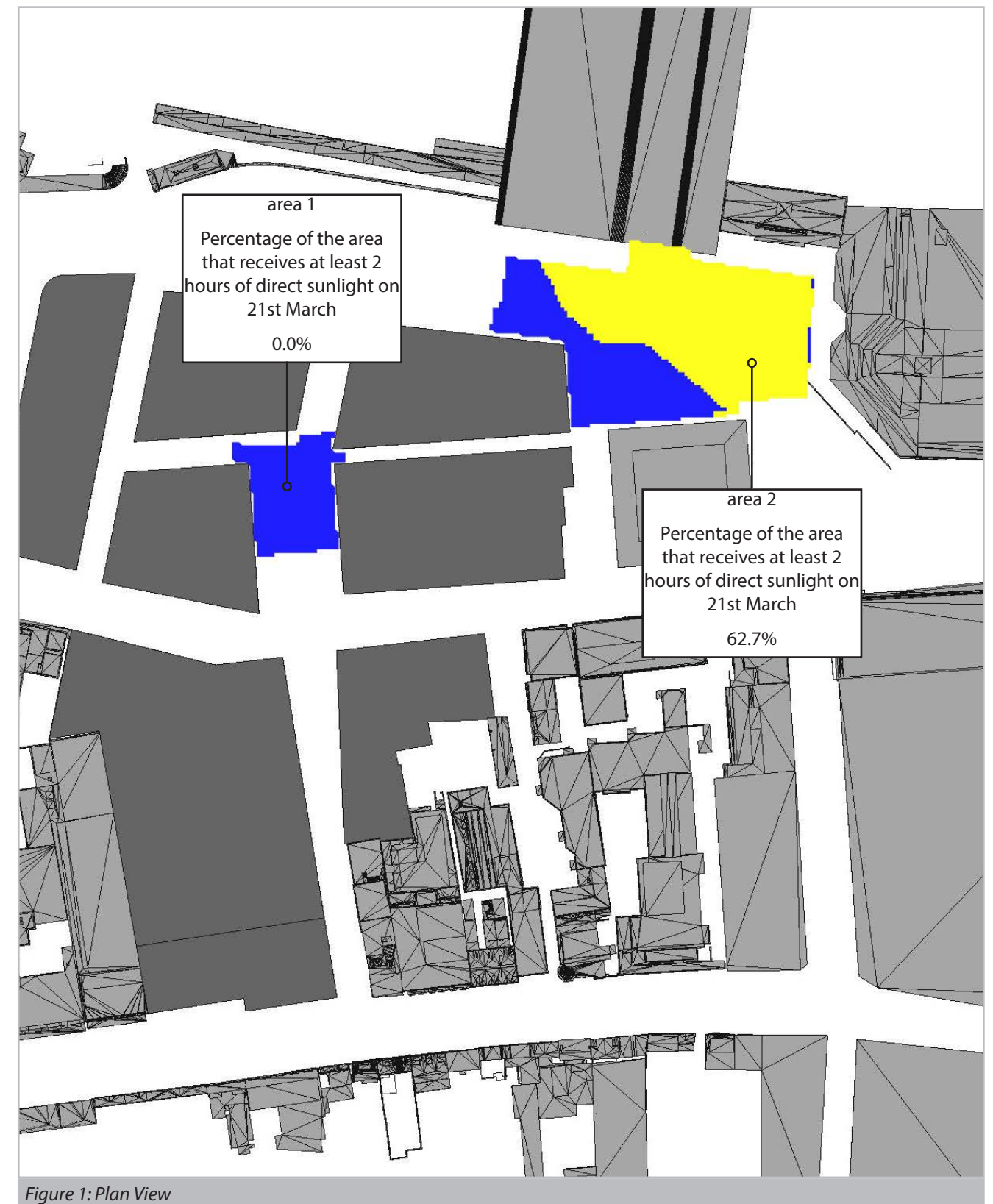
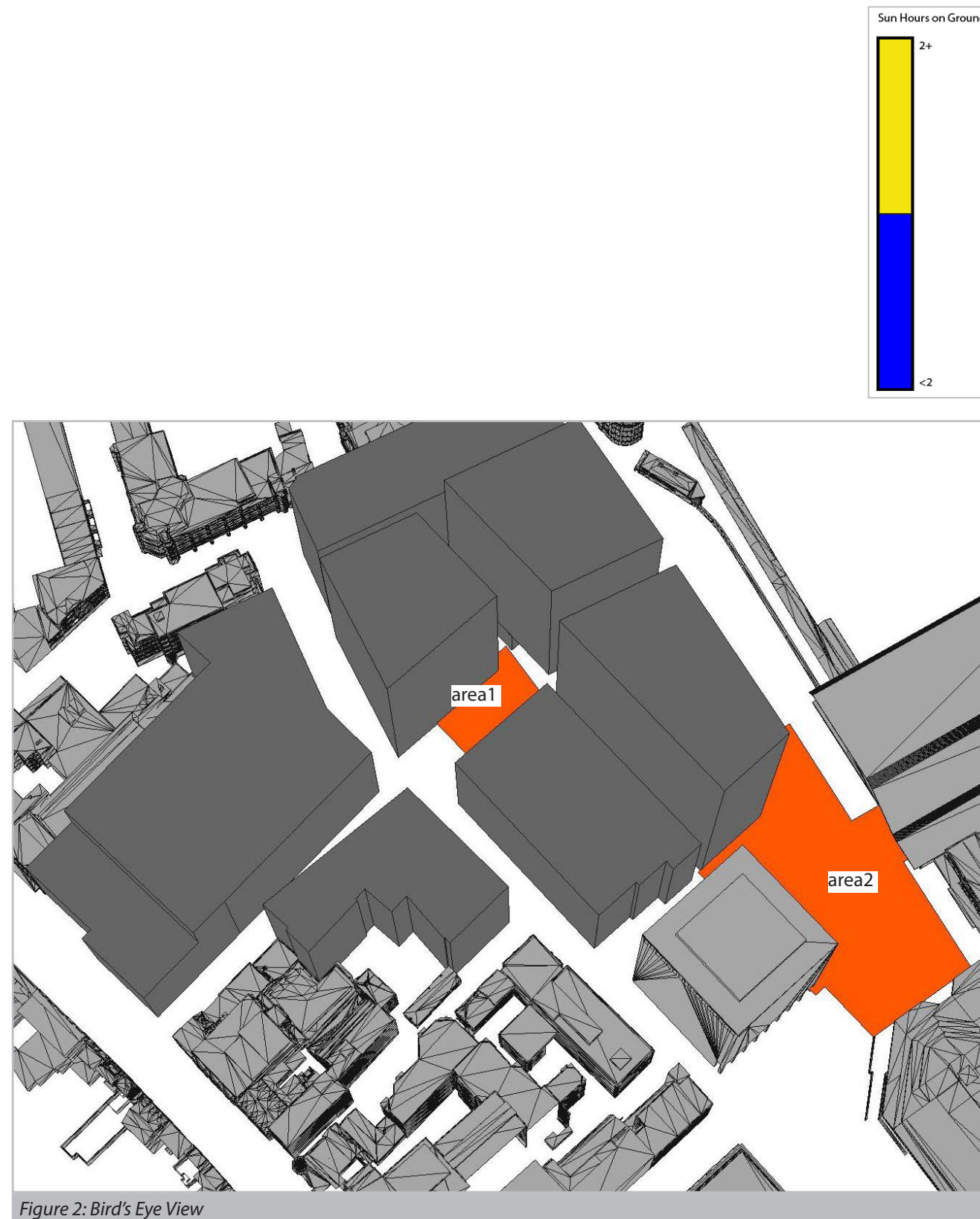
IS7-5847

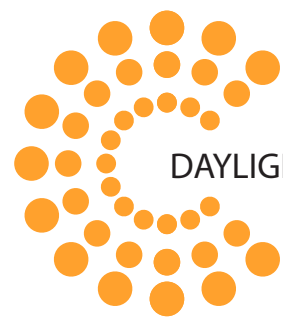
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July 22, 2015





5847 - Station Hill Overshadowing Assessment

Sun Hours on Ground - 21st March - Consented Scenario

Sources of information:

- Rel34_5847

Issue No:

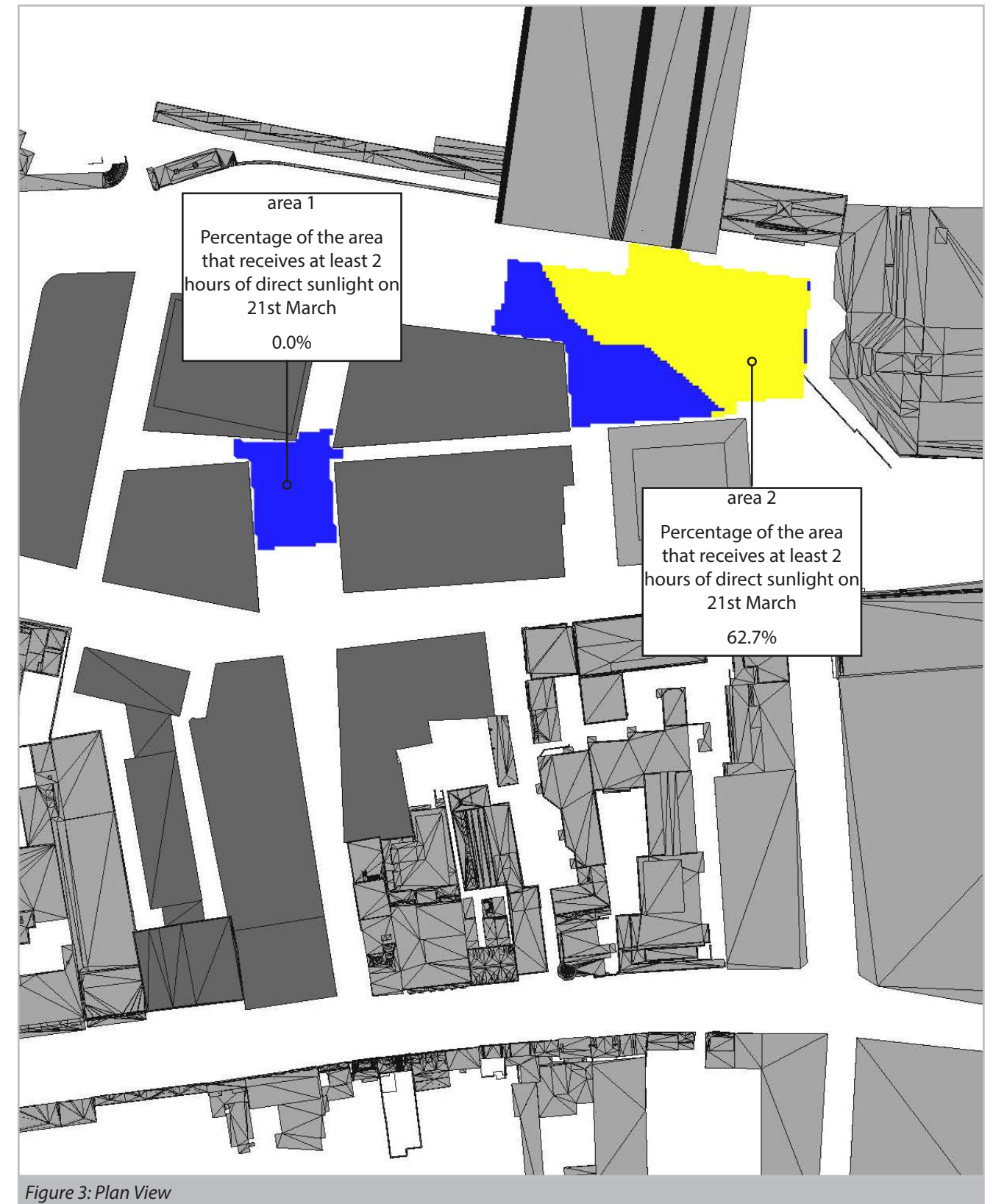
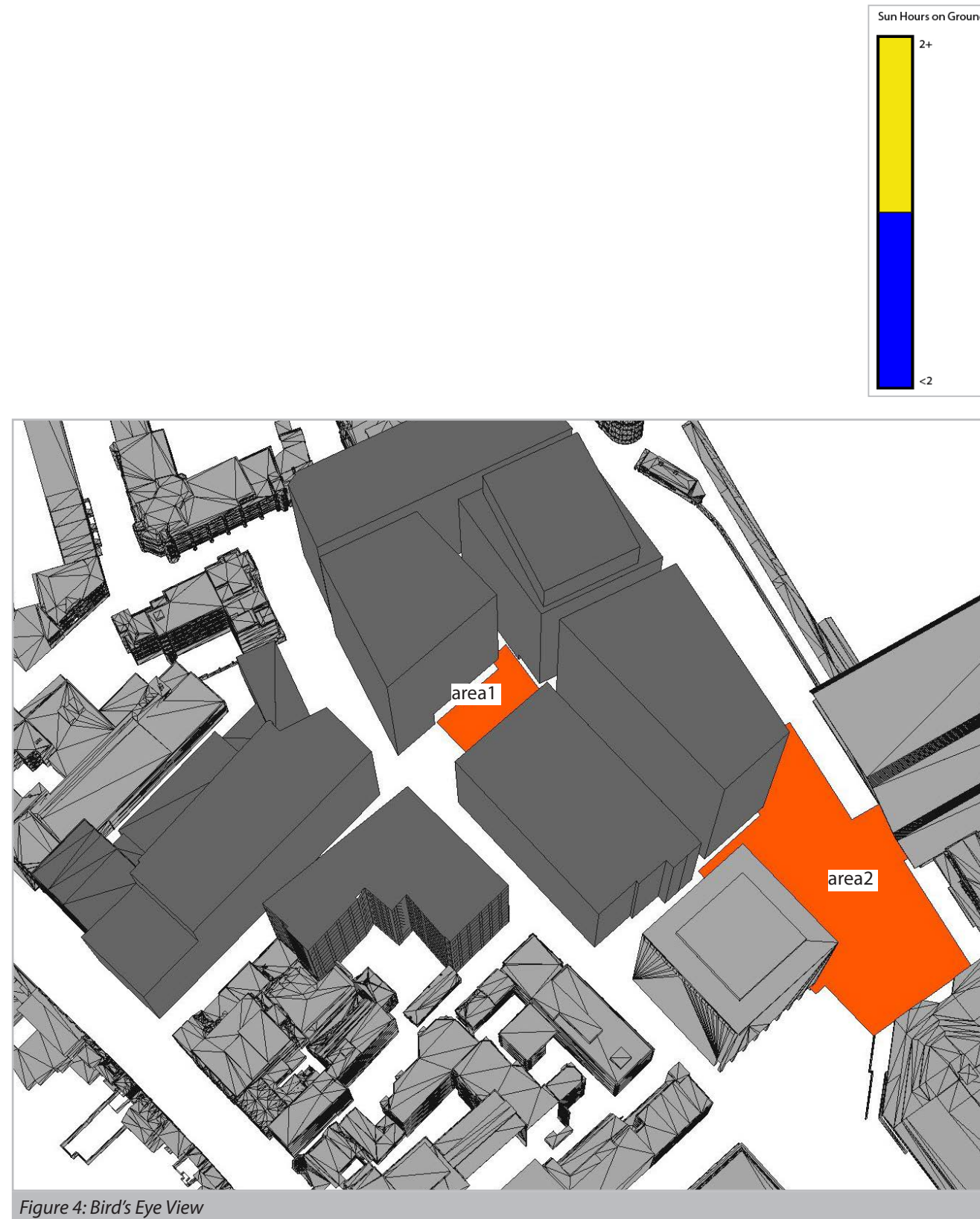
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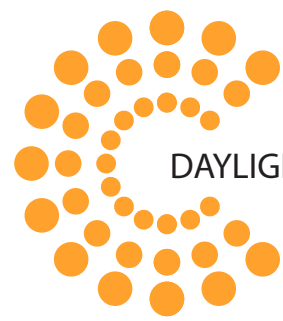
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July 22, 2015





5847 - Station Hill Overshadowing Assessment

Sun Hours on Ground - 21st March - Cumulative Scenario

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Date:

July 22, 2015

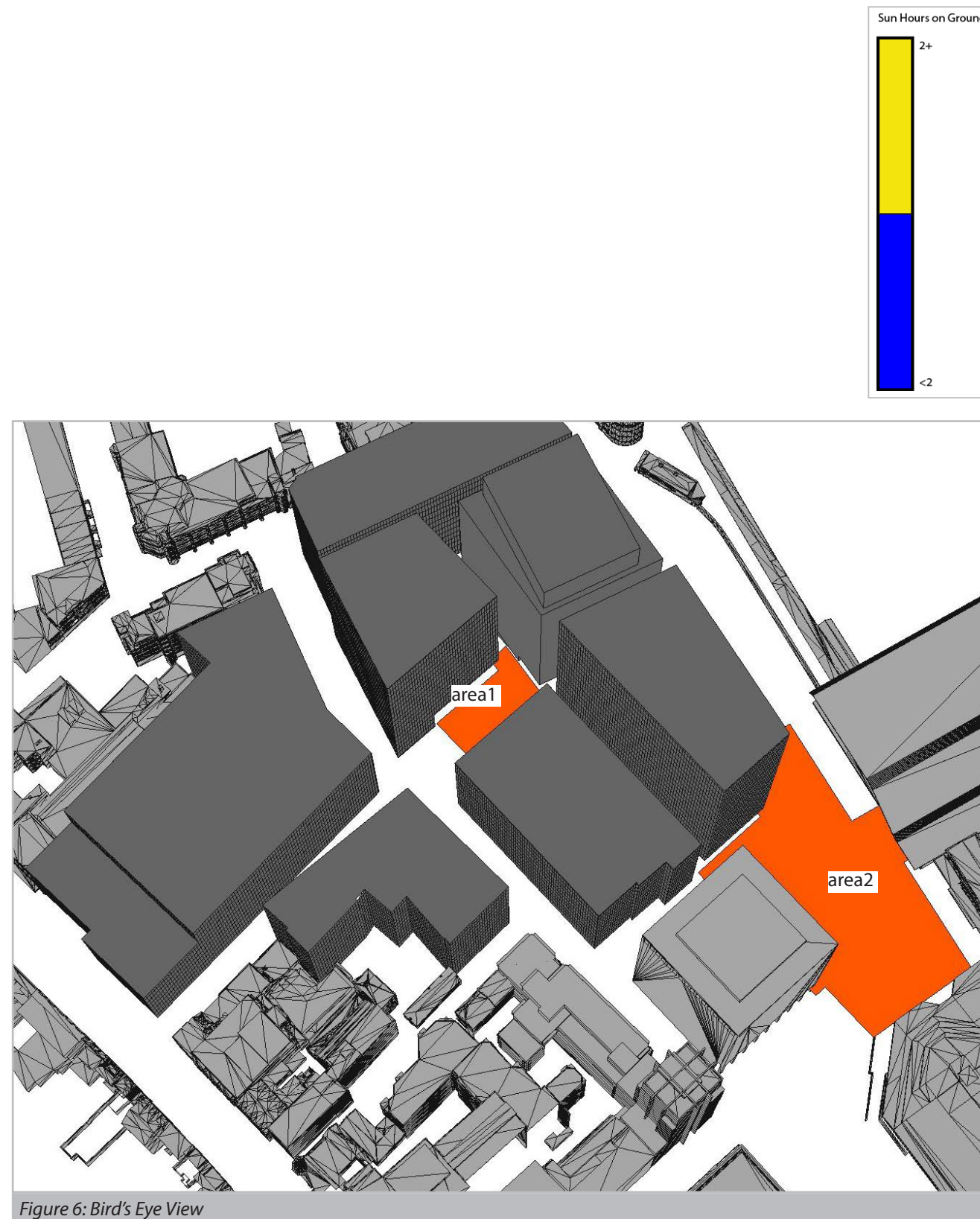


Figure 6: Bird's Eye View

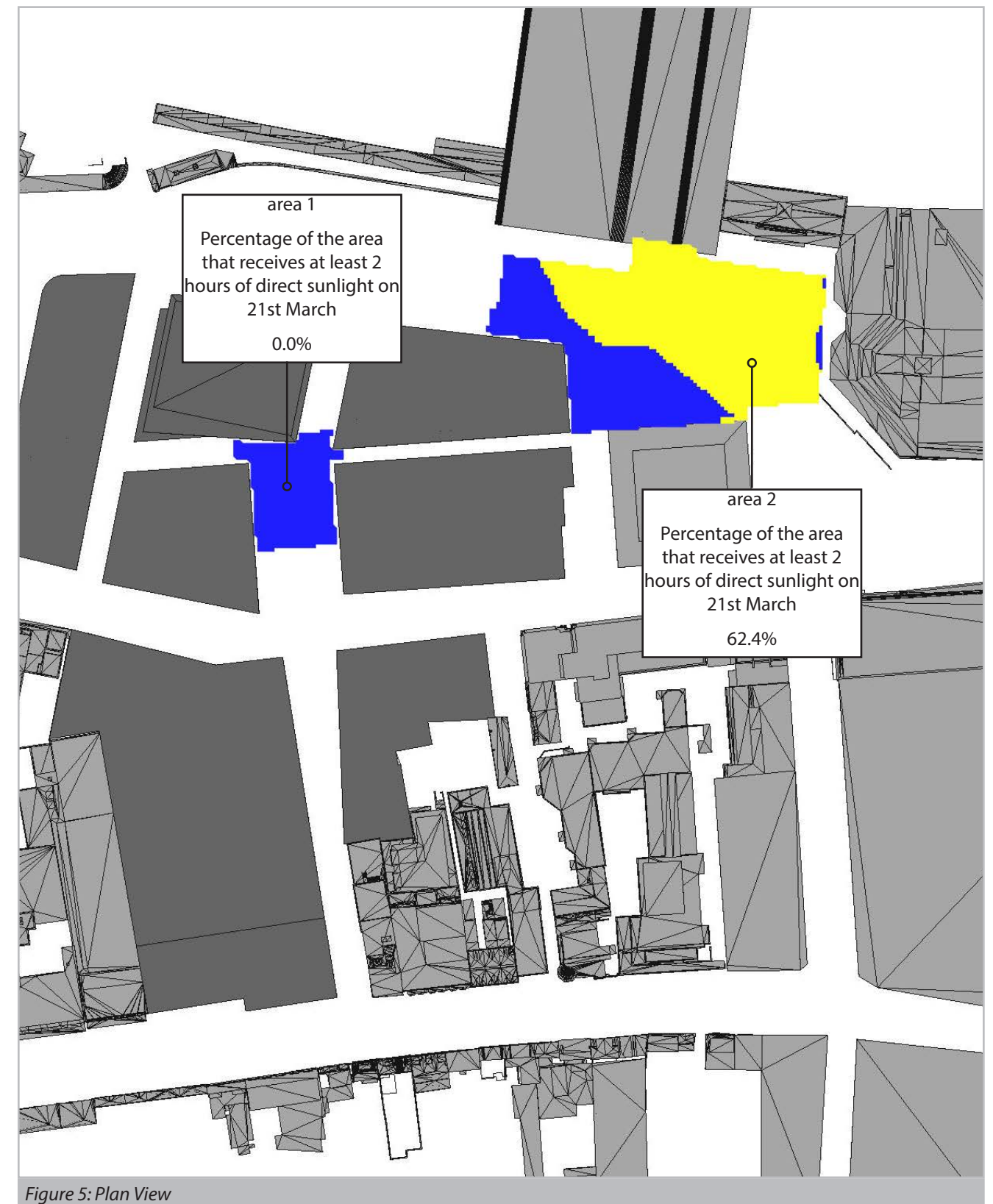
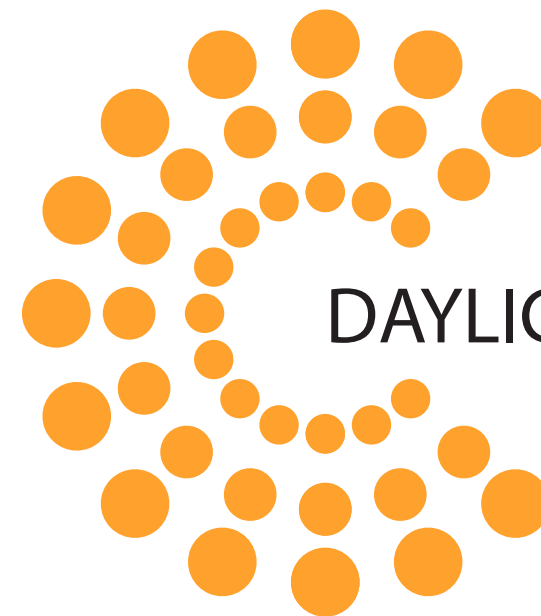


Figure 5: Plan View

Transient Overshadowing Assessment

Station Hill
Project No: 5847

July 21, 2015



DAYLIGHT AND SOLAR DESIGN



- Rel34_5847

Client	Stanhope PLC
Architect	Allies and Morrison
Project Title	Station Hill
Project Number	5847
Report Title	Transient Overshadowing Assessment
Dated	July 21, 2015

Written by	GL
Checked by	SP
Type	Planning

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