DATE: **20 October 2026**

DESIGNER: **MMA Lighting Consultancy Ltd**

PROJECT No: **MMA20740**

PROJECT NAME: **Church Lane, Ashington**

Proposed S38 Lighting Strategy – R0

6m West Sussex Spec Columns with Urbis Axia 3.1 2700K LED Luminaires

BS5489-1:2020
Lighting Class: P5
Eav 3.00 - 4.50 Lux
Emin 0.60 Lux

Base drawing number used in this calculation 'Constraints Plan External'

Outdoor Lighting Report

PREPARED BY:

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Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	512748.92	115898.40	169.32	36.00	1.50	1.50
2	Grid 2	512599.75	115898.04	160.14	39.00	1.50	1.50
3	Grid 3	512603.14	116064.62	135.00	33.00	1.50	1.50
4	Grid 4	512495.51	116052.61	112.25	45.00	1.50	1.50
5	Grid 5	512408.36	116068.85	96.00	33.00	1.50	1.50
6	Grid 6	512439.02	116189.91	96.00	36.00	1.50	1.50
7	Grid 7	512414.52	116249.65	48.00	95.82	1.50	1.50
8	Grid 8	512303.87	116295.64	47.90	126.00	1.50	1.50
9	Grid 9	512559.23	115903.47	57.00	90.00	1.50	1.50
10	Grid 10	512562.54	115978.81	81.00	45.00	1.50	1.50
11	Grid 11	512518.76	116149.99	60.00	114.00	1.50	1.50
12	Grid 12	512603.52	116178.21	45.00	79.56	1.50	1.50
13	Grid 13	512516.09	116128.85	27.00	51.00	1.50	1.50
14	Grid 14	512437.35	116148.09	60.00	54.00	1.50	1.50
15	Contour Grid	512285.54	115839.06	634.60	456.57	2.54	1.83

Luminaires



Luminaire A Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5266 Integrated lenses 16 OSLO N SQUARE GIANT LED@20
Lamp(s)	16 OSLON SQUARE GIANT@200mA WW 727 230V 01-11-802
LampFlux(klm)/Colour	1.42 WW 2700K/70
File Name	AXIA 3.1 5266 16 OSLON SQUARE GIANT Drv 200mA WW 727 10.8W 614422 Integr...
Maintenance Factor	0.85
Lum. Int. Class	G3
No. in Project	39



Luminaire B Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5385 Integrated lenses 8 OSLON SQUARE GIANT LED@700
Lamp(s)	8 OSLON SQUARE GIANT@700mA WW 727 230V 01-11-802
LampFlux(klm)/Colour	2.19 WW 2700K/70
File Name	AXIA 3.1 5385 8 OSLON SQUARE GIANT Drv 700mA WW 727 18.3W 487512 Integr...
Maintenance Factor	0.85
Lum. Int. Class	G1
No. in Project	7



Luminaire C Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses 16 OSLO N SQUARE GIANT LED@35
Lamp(s)	16 OSLON SQUARE GIANT@350mA WW 727 230V 01-11-802
LampFlux(klm)/Colour	2.33 WW 2700K/70
File Name	AXIA 3.1 5267 16 OSLON SQUARE GIANT Drv 350mA WW 727 17.9W 614432 Integr...
Maintenance Factor	0.85
Lum. Int. Class	G3
No. in Project	2

Layout

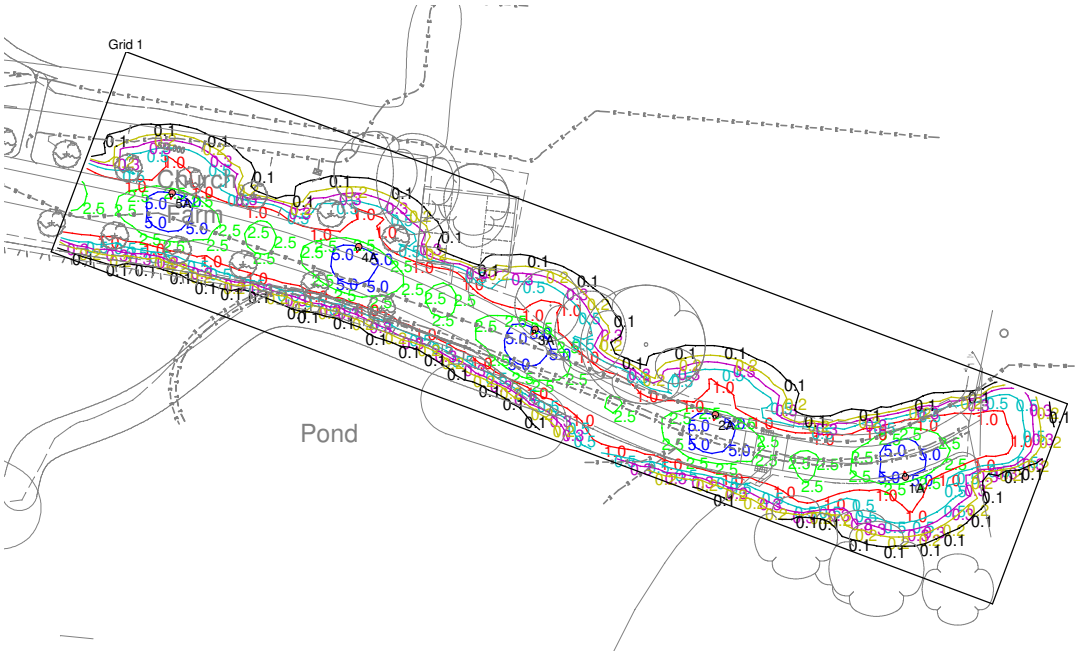
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	512892.87	115860.45	6.00	102.00	0.00	0.00	0.40			
2	A	512860.78	115870.97	6.00	257.00	0.00	0.00	0.40			
3	A	512830.47	115885.36	6.00	241.00	0.00	0.00	0.40			
4	A	512800.71	115899.29	6.00	253.00	0.00	0.00	0.40			
5	A	512769.29	115908.31	6.00	258.00	0.00	0.00	0.40			
6	A	512705.70	115920.01	6.00	262.00	0.00	0.00	0.40			
7	C	512672.59	115909.82	6.00	90.00	0.00	0.00	0.40			
8	C	512634.75	115909.82	6.00	90.00	0.00	0.00	0.40			
9	B	512626.78	115886.29	6.00	180.00	0.00	0.00	0.40			
10	A	512600.72	115920.36	6.00	284.00	0.00	0.00	0.40			
11	B	512615.90	115947.29	6.00	0.00	0.00	0.00	0.40			
12	B	512615.90	115982.68	6.00	0.00	0.00	0.00	0.40			
13	B	512615.89	116023.92	6.00	0.00	0.00	0.00	0.40			
14	A	512592.60	116046.43	6.00	85.00	0.00	0.00	0.40			
15	A	512617.80	116054.39	6.00	313.00	0.00	0.00	0.40			
16	A	512556.32	116066.48	6.00	255.00	0.00	0.00	0.40			
17	A	512571.42	116069.10	6.00	339.00	0.00	0.00	0.40			
18	A	512518.59	116074.29	6.00	260.00	0.00	0.00	0.40			
19	A	512474.30	116082.37	6.00	260.00	0.00	0.00	0.40			
20	B	512433.23	116107.87	6.00	350.00	0.00	0.00	0.40			
21	A	512497.25	116088.15	6.00	171.00	0.00	0.00	0.40			
22	B	512450.38	116141.19	6.00	169.00	0.00	0.00	0.40			
23	B	512448.46	116179.69	6.00	337.00	0.00	0.00	0.40			
24	A	512424.23	116143.28	6.00	260.00	0.00	0.00	0.40			
25	A	512476.94	116186.02	6.00	64.00	0.00	0.00	0.40			
26	A	512446.19	116201.40	6.00	62.00	0.00	0.00	0.40			
27	A	512388.37	116235.02	6.00	251.00	0.00	0.00	0.40			
28	A	512357.53	116247.48	6.00	231.00	0.00	0.00	0.40			
29	A	512330.68	116267.26	6.00	259.00	0.00	0.00	0.40			
30	A	512624.83	115857.89	6.00	93.00	0.00	0.00	0.40			
31	A	512594.08	115855.27	6.00	95.00	0.00	0.00	0.40			
32	A	512565.13	115861.15	6.00	358.00	0.00	0.00	0.40			
33	A	512573.15	115911.01	6.00	31.00	0.00	0.00	0.40			
34	A	512566.93	115957.00	6.00	358.00	0.00	0.00	0.40			
35	A	512572.99	116108.94	6.00	230.00	0.00	0.00	0.40			
36	A	512546.66	116124.79	6.00	250.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	A	512517.52	116130.11	6.00	349.00	0.00	0.00	0.40			
38	A	512594.63	116091.40	6.00	135.00	0.00	0.00	0.40			
39	A	512627.85	116131.27	6.00	225.00	0.00	0.00	0.40			
40	A	512610.34	116118.69	6.00	315.00	0.00	0.00	0.40			
41	A	512602.86	116155.15	6.00	232.00	0.00	0.00	0.40			
42	A	512500.45	116117.60	6.00	176.00	0.00	0.00	0.40			
43	A	512370.68	116135.25	6.00	337.00	0.00	0.00	0.40			
44	A	512391.98	116163.47	6.00	159.00	0.00	0.00	0.40			
45	A	512397.36	116149.94	6.00	249.00	0.00	0.00	0.40			
46	A	512737.18	115915.03	6.00	258.00	0.00	0.00	0.40			
47	A	512440.56	116080.52	6.00	79.00	0.00	0.00	0.40			
48	A	512420.40	116222.32	6.00	244.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

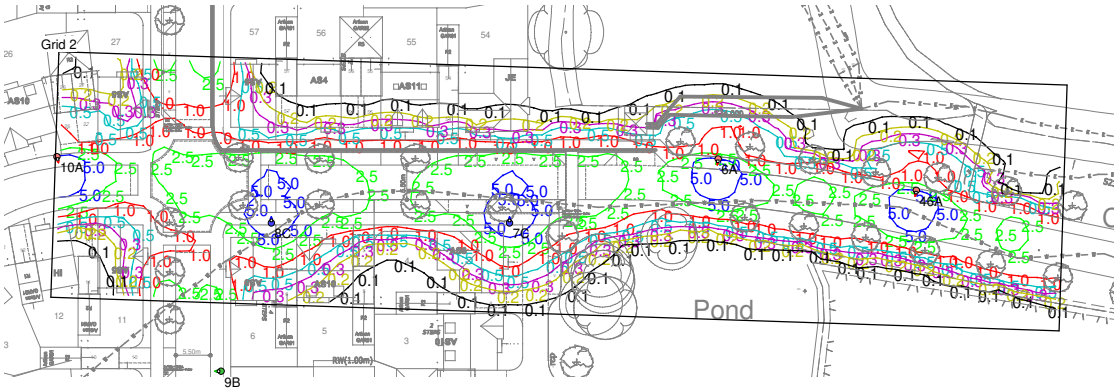


Results

Eav	3.28
Emin	0.67
Emax	11.13
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	3.01
Emin	0.60
Emax	10.42
Emin/Emax	0.06
Emin/Eav	0.20

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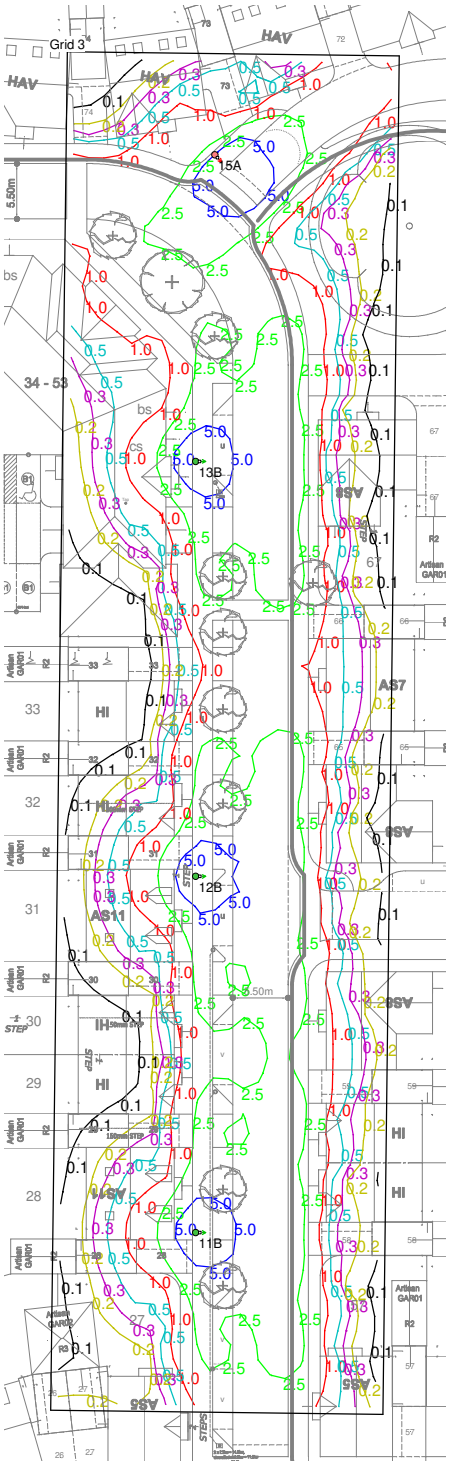
Horizontal Illuminance (lux)

Grid 3



Results

Eav	3.01
Emin	0.76
Emax	11.42
Emin/Emax	0.07
Emin/Eav	0.25

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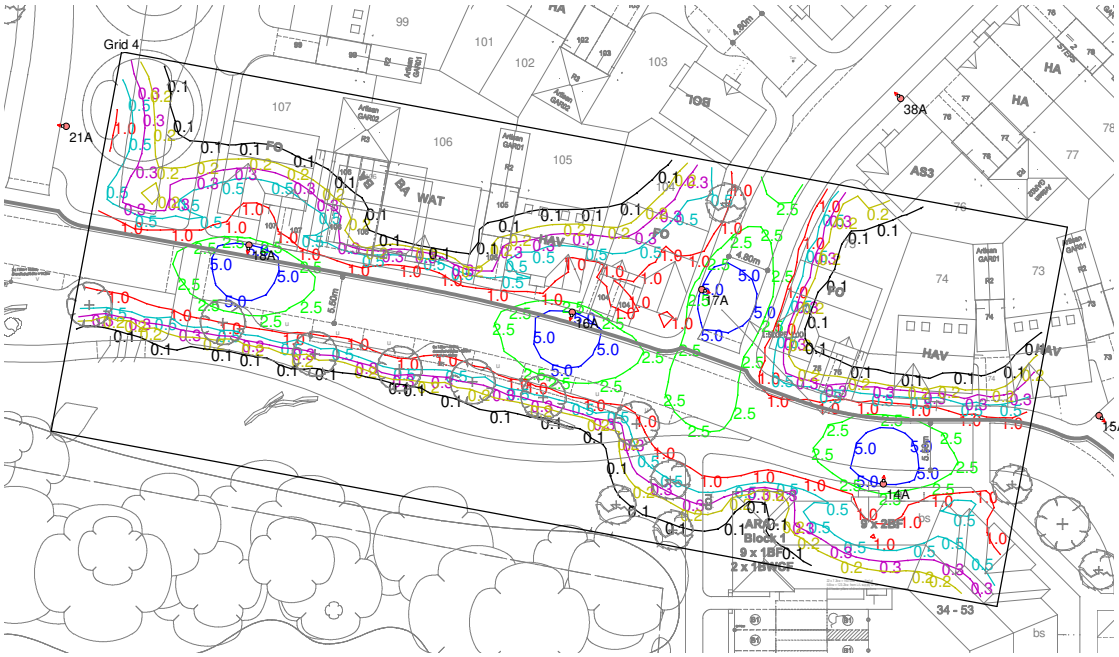
Horizontal Illuminance (lux)

Grid 4



Results

Eav	3.02
Emin	0.68
Emax	11.89
Emin/Emax	0.06
Emin/Eav	0.22

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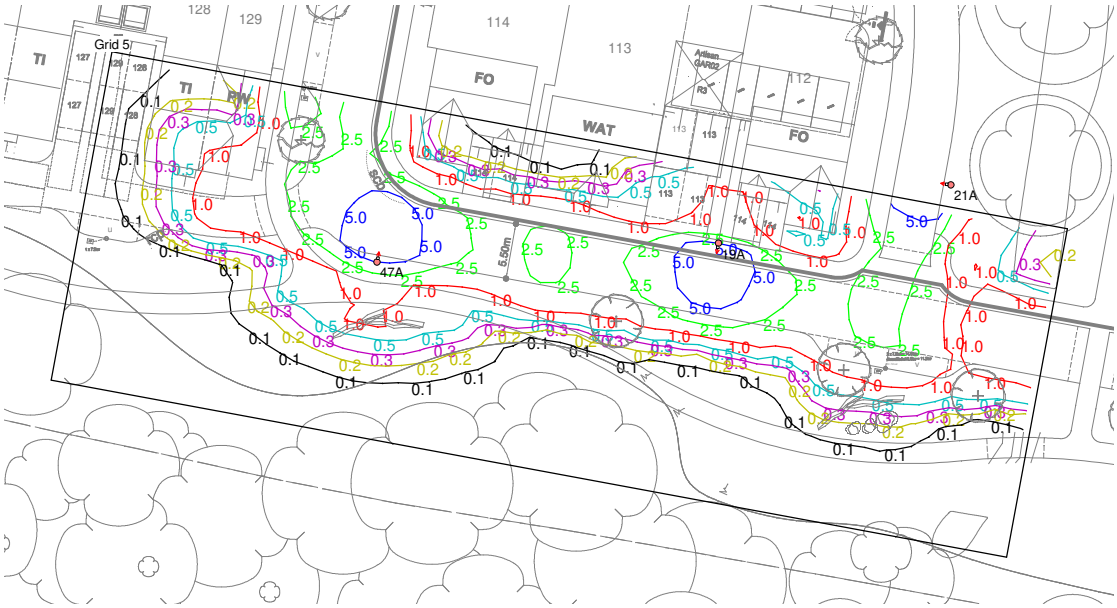
Horizontal Illuminance (lux)

Grid 5



Results

Eav	3.04
Emin	0.81
Emax	11.25
Emin/Emax	0.07
Emin/Eav	0.27

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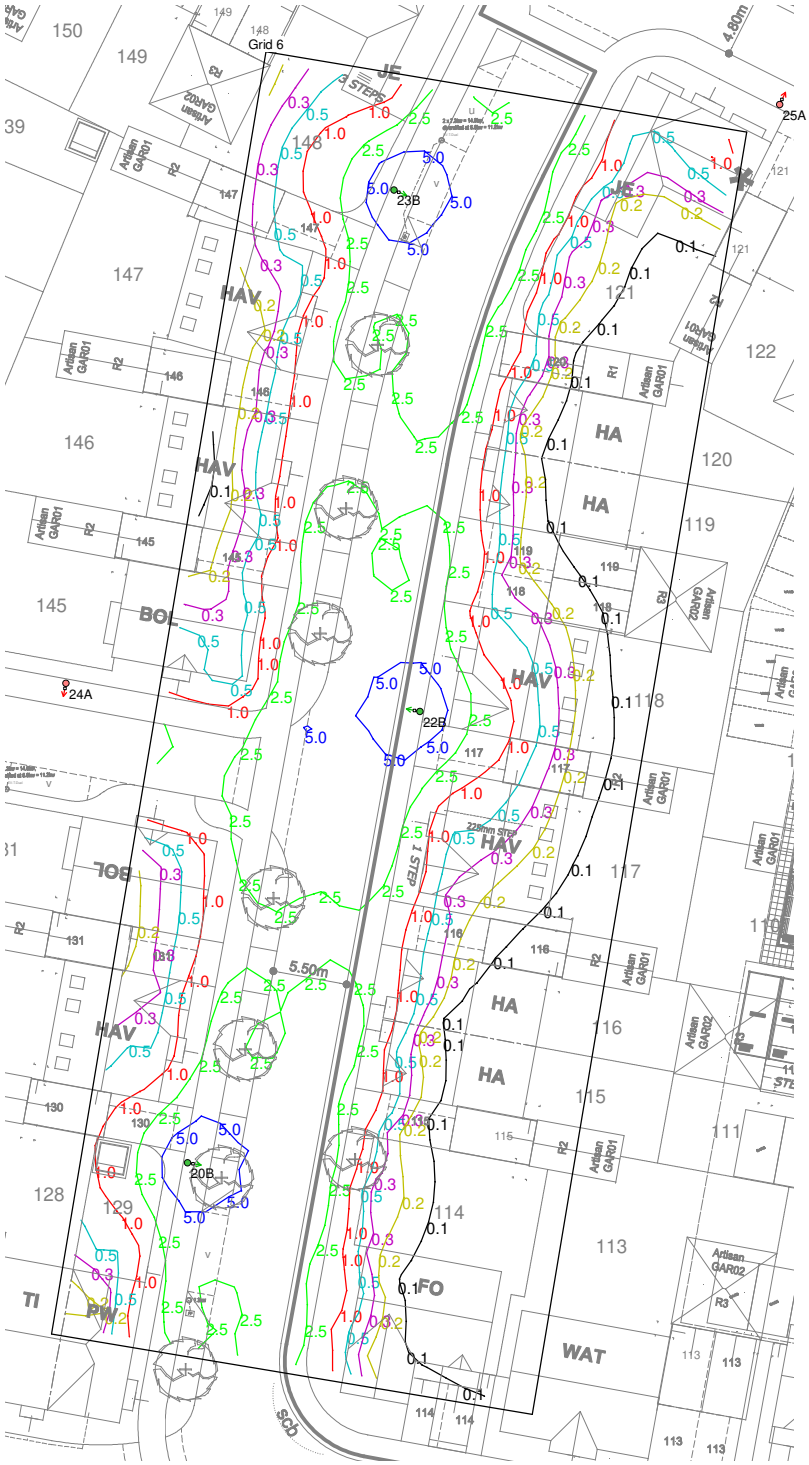
Horizontal Illuminance (lux)

Grid 6



Results

Eav	3.24
Emin	1.24
Emax	7.90
Emin/Emax	0.16
Emin/Eav	0.38

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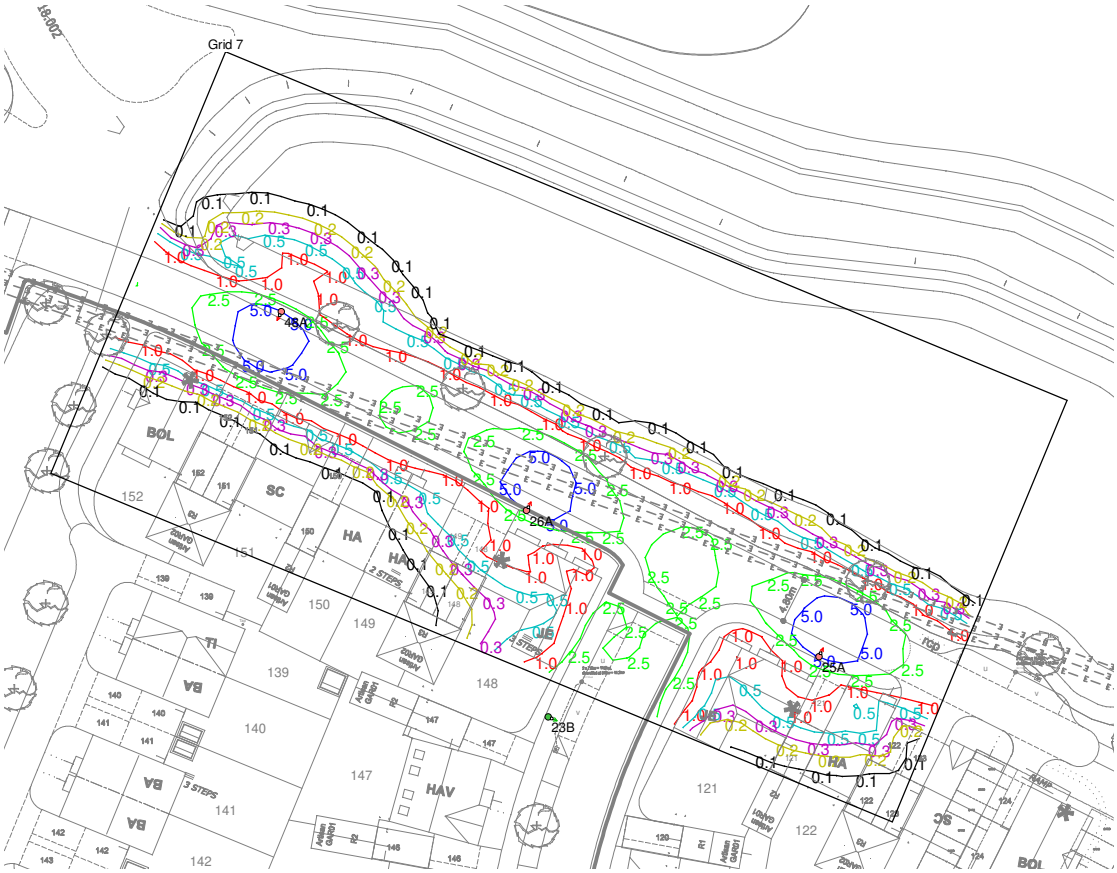
Horizontal Illuminance (lux)

Grid 7



Results

Eav	3.43
Emin	1.27
Emax	10.77
Emin/Emax	0.12
Emin/Eav	0.37

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Horizontal Illuminance (lux)

Grid 8



Results

Eav	3.44
Emin	0.75
Emax	11.70
Emin/Emax	0.06
Emin/Eav	0.22

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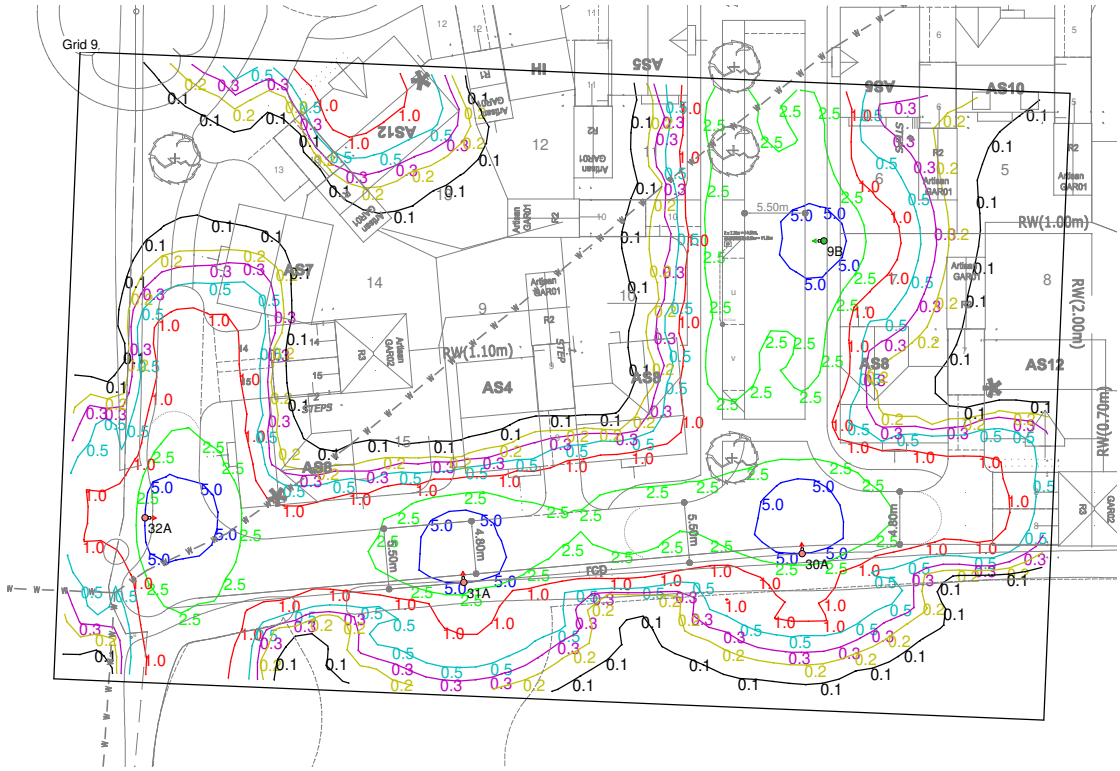
Horizontal Illuminance (lux)

Grid 9



Results

Eav	3.53
Emin	1.18
Emax	11.15
Emin/Emax	0.11
Emin/Eav	0.33

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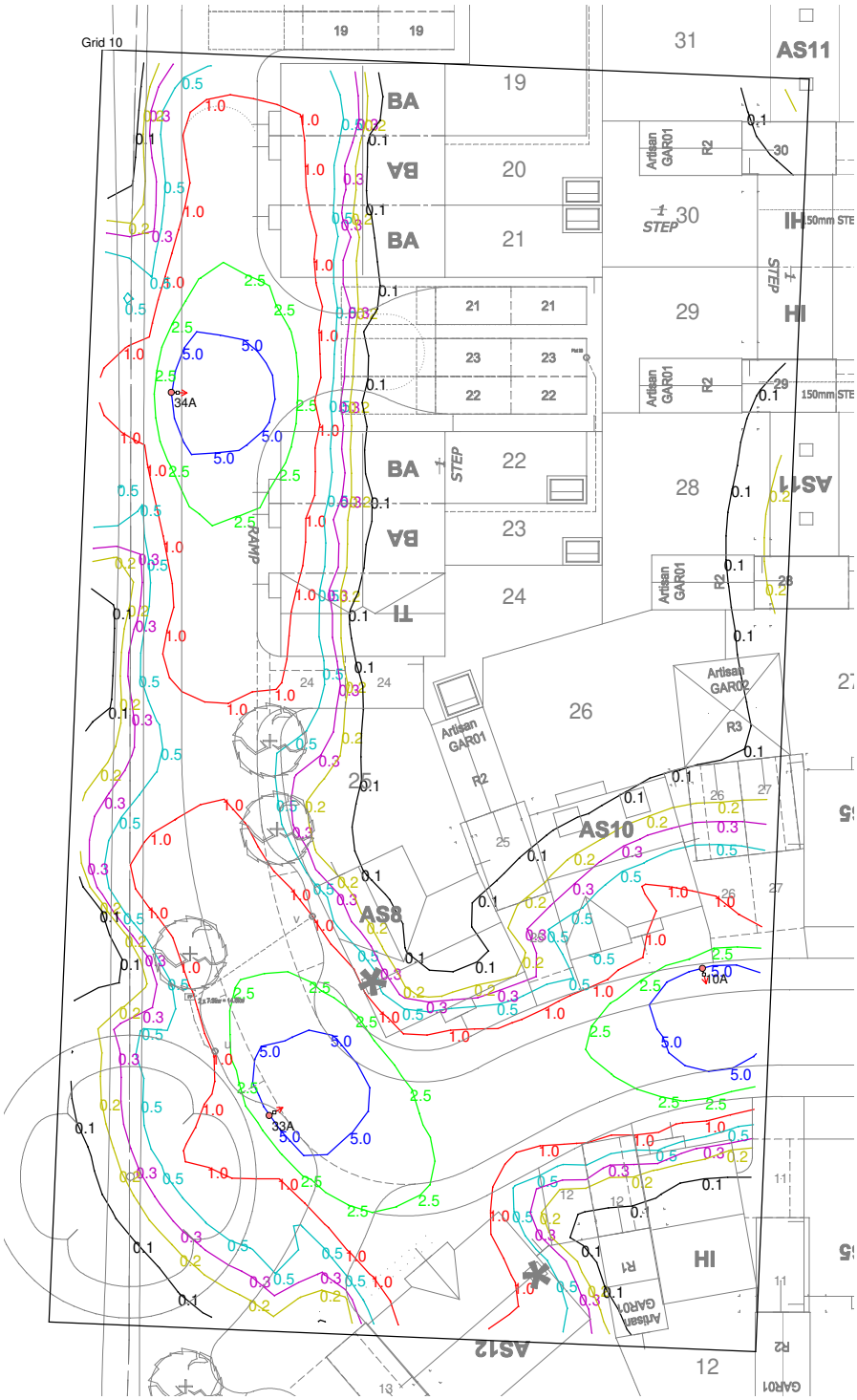
Horizontal Illuminance (lux)

Grid 10

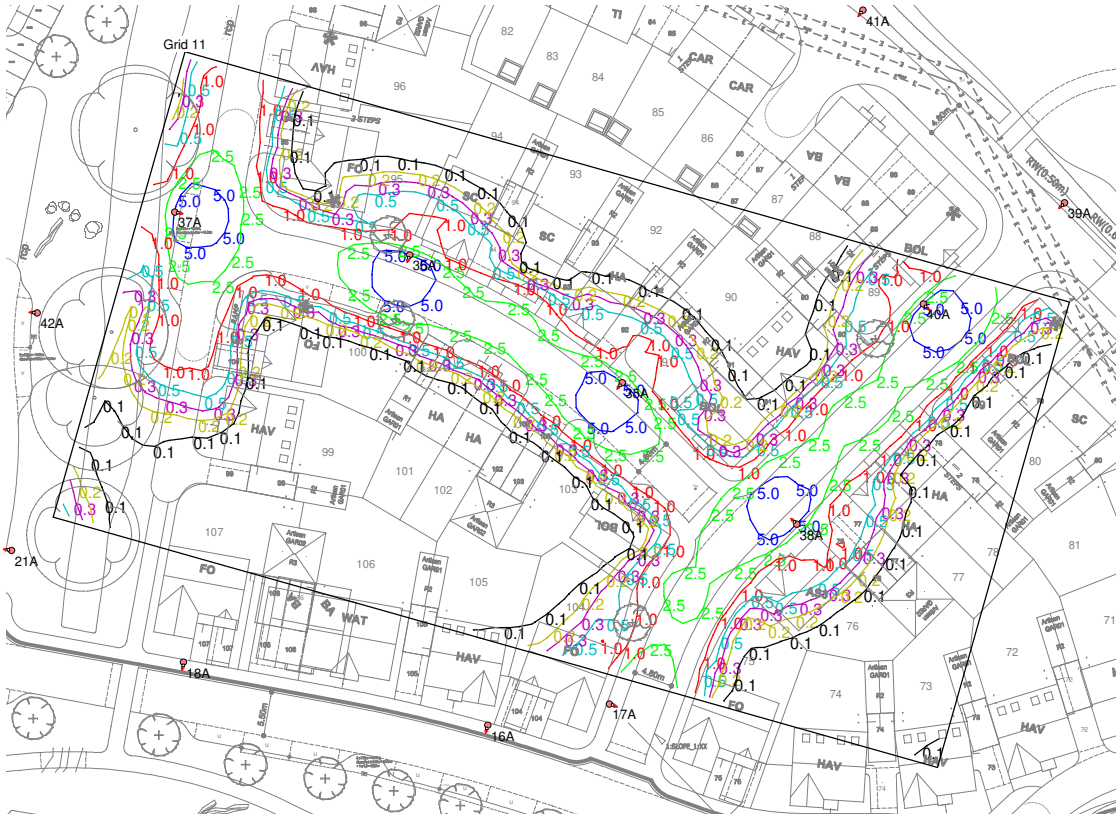


Results

Eav	3.15
Emin	0.67
Emax	11.11
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 11

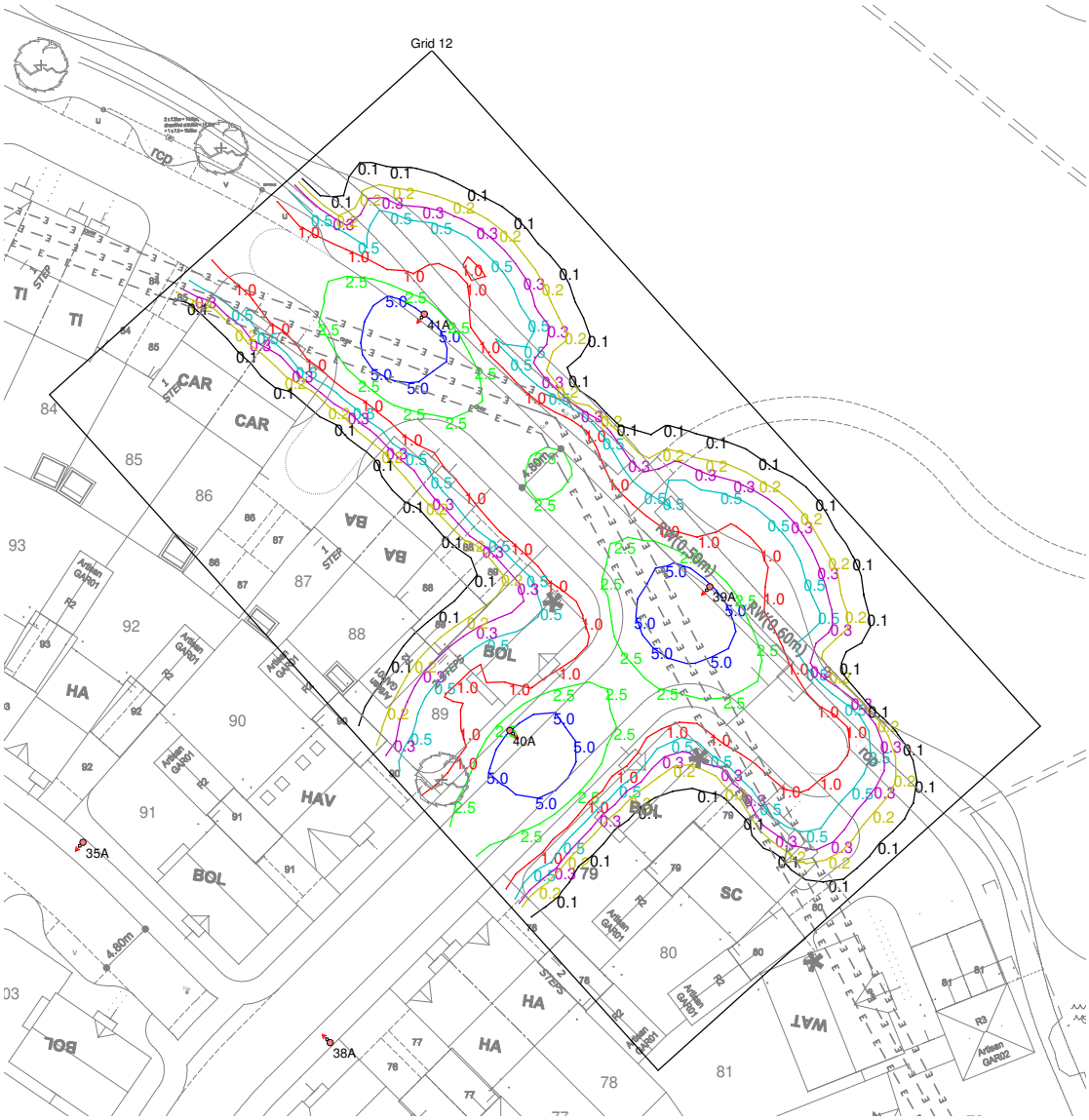


Results

Eav	3.33
Emin	0.79
Emax	11.40
Emin/Emax	0.07
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 12

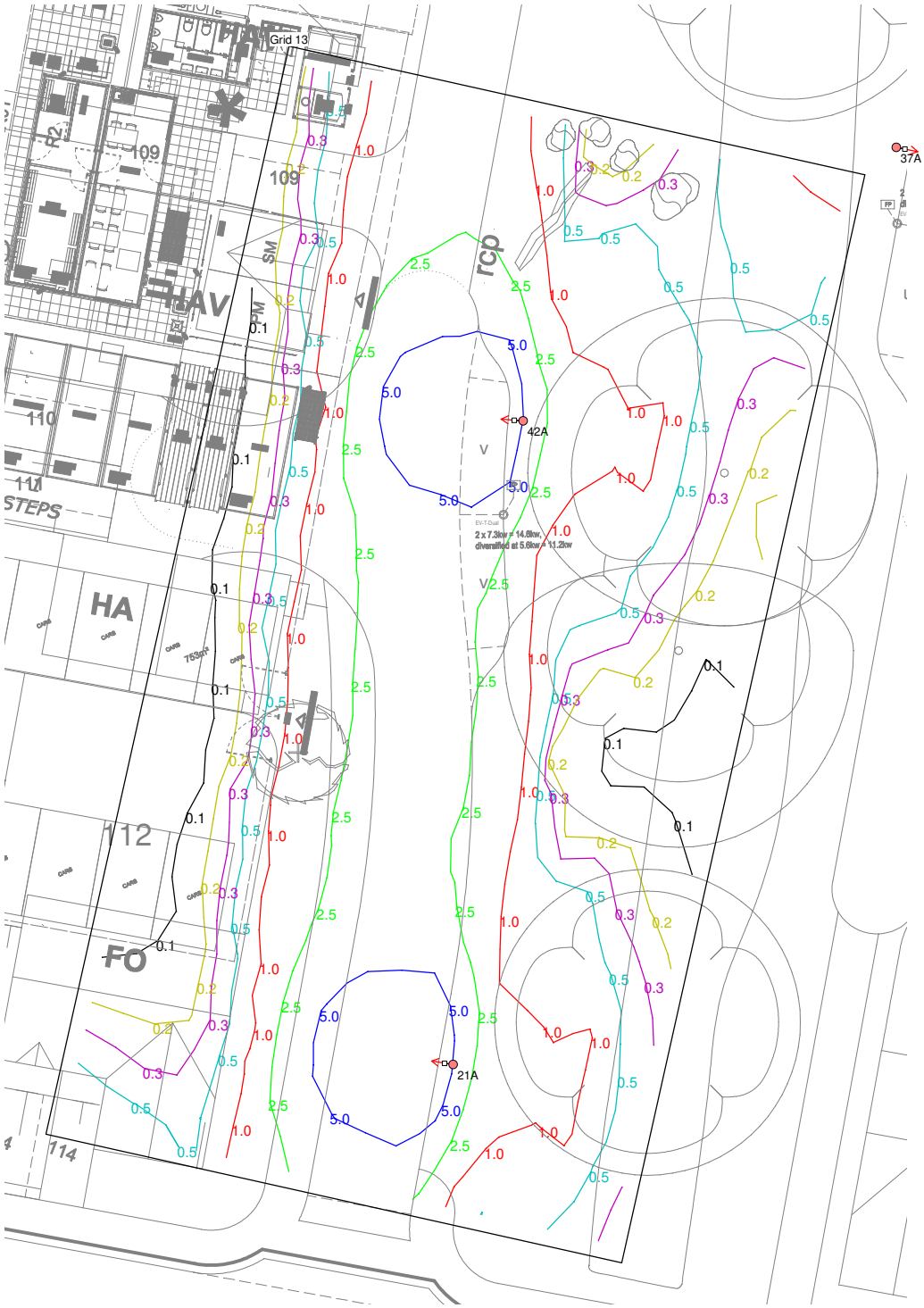


Results

Eav	3.55
Emin	0.72
Emax	12.53
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 13

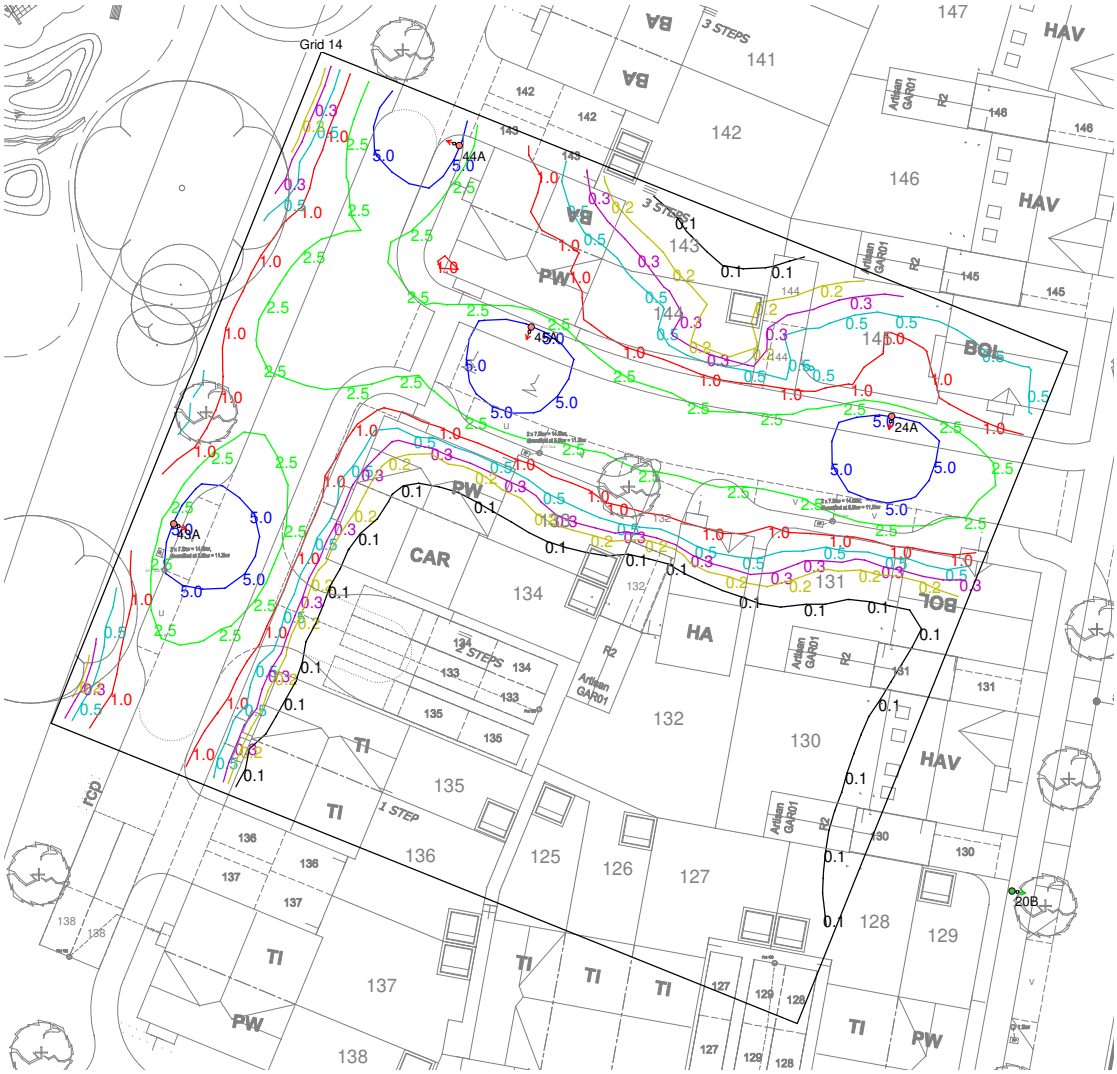


Results

Eav	4.19
Emin	0.83
Emax	10.31
Emin/Emax	0.08
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 14



Results

Eav	3.81
Emin	0.88
Emax	11.62
Emin/Emax	0.08
Emin/Eav	0.23

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