

DATE: 10 July 2018
DESIGNER: SSE
PROJECT No: DRAFT
PROJECT NAME: SSEDRAFT-AC-001-A



Main distributor road lit to lighting class P4.

Rest lit to P6.

EIA concludes that there are bats present around the site and therefore warm white LED's have been utilised.

Sinah Lane, Hayling Island, Hampshire

PREPARED BY: SSE Enterprise Lighting
Unit 5
York Road
Burgess Hill
West Sussex
RH17 9TT
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Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

No.	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	470845.82	99747.31	37.46	92.54	1.50	1.49
2	Grid 2	470871.49	99821.37	37.46	92.54	1.50	1.49
3	Grid 3	470813.16	99904.75	37.46	92.54	1.50	1.49
4	Grid 4	470844.95	100036.52	37.46	92.54	1.50	1.49
5	Grid 5	470878.15	99794.53	52.84	44.18	1.47	1.47
6	Grid 6	470812.34	99846.94	30.09	32.13	1.43	1.46
7	Grid 7	470692.46	99849.99	24.04	132.74	1.41	1.49
8	Grid 8	470668.74	99880.45	75.26	29.56	1.48	1.48
9	Grid 9	470725.76	99929.18	80.51	22.77	1.49	1.42
10	Grid 10	470741.62	99935.09	33.43	51.09	1.45	1.46
11	Grid 11	470796.67	99927.52	26.72	40.23	1.48	1.49
12	Grid 12	470692.63	99913.58	27.18	37.94	1.43	1.46
13	Grid 13	470777.63	99935.60	24.74	43.31	1.46	1.49
14	Grid 14	470805.33	99997.43	26.32	55.28	1.46	1.49
15	Grid 15	470855.77	99857.26	31.94	56.44	1.45	1.49
16	Grid 16	470875.71	99942.22	28.30	80.50	1.49	1.49
17	Grid 17	470853.82	100024.81	48.39	133.43	1.47	1.50

Luminaires

Luminaire A Data

Supplier	
Type	BGP615 DM50
Lamp(s)	LED-HB 5S/4000k
Lamp Flux (klm)	3.00
File Name	Luma Micro_BGP615_DM50_3000_20LED_268mA_5S_CLO L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	950.4, 42.6, 0.0
Lamp S/P Ratio	1.61
No. in Project	2

Luminaire B Data

Supplier	
Type	BGP615 DW50 BL1
Lamp(s)	LED-HB 5S/657
Lamp Flux (klm)	3.00
File Name	Luma Micro_BGP615_6600 Im-5S 657 DW 50 BL1.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	602.5, 31.2, 0.0
Lamp S/P Ratio	1.96
No. in Project	1

Luminaire C Data

Supplier	
Type	BGP615 DW50
Lamp(s)	LED-HB 5S/740
Lamp Flux (klm)	3.00
File Name	Luma Micro_BGP615_DW50_3000_20LED_268mA_5S_CLO L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	616.7, 39.5, 0.0
Lamp S/P Ratio	1.61
No. in Project	5

Luminaire D Data

Supplier	
Type	BGP615 DM50 BL1
Lamp(s)	LED-HB 5S/657
Lamp Flux (klm)	3.00
File Name	Luma Micro_BGP615_6600 Im-5S 657 DM 50 BL1.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	926.1, 34.2, 0.0
Lamp S/P Ratio	1.96
No. in Project	2

Luminaires

Luminaire E Data

Supplier	
Type	BGP615 DM50
Lamp(s)	LED-HB 5S/4000k
Lamp Flux (klm)	1.40
File Name	Luma Micro_BGP615_DM50_1400_12LED_205mA_5S_CLO L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	950.4, 42.6, 0.0
Lamp S/P Ratio	1.61
No. in Project	20

Luminaire F Data

Supplier	
Type	BGP615 DW50
Lamp(s)	LED-HB 5S/740
Lamp Flux (klm)	1.40
File Name	Luma Micro_BGP615_DW50_1400_12LED_205mA_5S_CLO L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	616.7, 39.5, 0.0
Lamp S/P Ratio	1.61
No. in Project	4

Luminaire G Data

Supplier	
Type	BGP615 DM50 BL1
Lamp(s)	LED-HB 5S/657
Lamp Flux (klm)	1.40
File Name	Luma Micro_BGP615_6600 lm-5S 657 DM 50 BL1.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	926.1, 34.2, 0.0
Lamp S/P Ratio	1.96
No. in Project	3

Luminaire H Data

Supplier	
Type	BGP615 DW50 BL1
Lamp(s)	LED-HB 5S/657
Lamp Flux (klm)	1.40
File Name	Luma Micro_BGP615_6600 lm-5S 657 DW 50 BL1.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	602.5, 31.2, 0.0
Lamp S/P Ratio	1.96
No. in Project	1

Layout

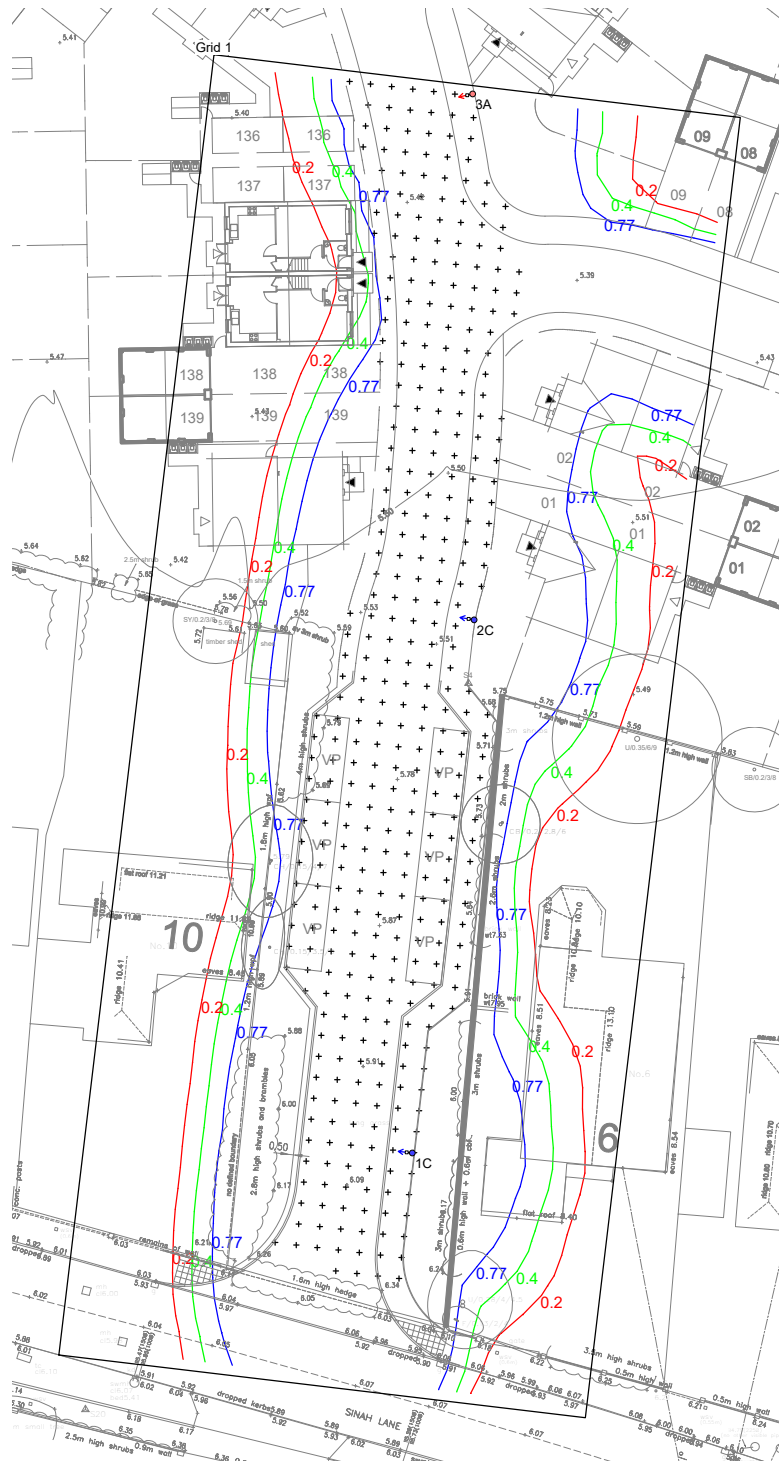
No.	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	C	470870.80	99761.58	6.00	173.00	0.00	0.00	0.40			
2	C	470875.17	99799.26	6.00	170.00	0.00	0.00	0.40			
3	A	470875.06	99836.42	6.00	192.00	0.00	0.00	0.40			
4	B	470859.70	99869.76	6.00	228.00	0.00	0.00	0.40			
5	C	470827.71	99883.55	6.00	26.00	0.00	0.00	0.40			
6	D	470838.61	99900.66	6.00	139.00	0.00	0.00	0.40			
7	D	470859.01	99926.53	6.00	139.00	0.00	0.00	0.40			
8	C	470876.90	99963.13	6.00	318.00	0.00	0.00	0.40			
9	C	470885.87	99992.48	6.00	223.00	0.00	0.00	0.40			
10	A	470854.12	100016.38	6.00	232.00	0.00	0.00	0.40			
11	E	470899.40	99814.77	6.00	72.00	0.00	0.00	0.40			
12	E	470841.97	99848.97	6.00	138.00	0.00	0.00	0.40			
13	E	470805.36	99837.62	6.00	91.00	0.00	0.00	0.40			
14	E	470765.42	99836.99	6.00	90.00	0.00	0.00	0.40			
15	E	470726.51	99836.44	6.00	91.00	0.00	0.00	0.40			
16	E	470693.66	99843.76	6.00	272.00	0.00	0.00	0.40			
17	E	470687.99	99822.30	6.00	180.00	0.00	0.00	0.40			
18	E	470686.59	99854.02	6.00	181.00	0.00	0.00	0.40			
19	E	470739.69	99862.85	6.00	181.00	0.00	0.00	0.40			
20	E	470739.06	99903.85	6.00	179.00	0.00	0.00	0.40			
21	E	470765.91	99913.42	6.00	90.00	0.00	0.00	0.40			
22	E	470792.16	99919.39	6.00	232.00	0.00	0.00	0.40			
23	E	470815.47	99900.11	6.00	234.00	0.00	0.00	0.40			
24	E	470715.08	99904.47	6.00	272.00	0.00	0.00	0.40			
25	E	470792.47	99943.30	6.00	318.00	0.00	0.00	0.40			
26	E	470815.93	99960.45	6.00	140.00	0.00	0.00	0.40			
27	E	470830.15	99956.52	6.00	51.00	0.00	0.00	0.40			
28	E	470805.88	99976.73	6.00	48.00	0.00	0.00	0.40			
29	G	470876.96	99862.45	6.00	318.00	0.00	0.00	0.40			
30	G	470900.36	99892.18	6.00	317.00	0.00	0.00	0.40			
31	E	470919.92	99885.54	6.00	54.00	0.00	0.00	0.40			
32	H	470871.66	99920.30	6.00	52.00	0.00	0.00	0.40			
33	G	470895.32	99904.87	6.00	56.00	0.00	0.00	0.40			
34	F	470877.35	100022.06	6.00	138.00	0.00	0.00	0.40			
35	F	470894.04	100057.27	6.00	321.00	0.00	0.00	0.40			
36	F	470923.68	100078.50	6.00	135.00	0.00	0.00	0.40			

Layout Continued

No.	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
37	F	470945.39	100099.76	6.00	139.00	0.00	0.00	0.40			
38	E	470939.60	100084.40	6.00	233.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

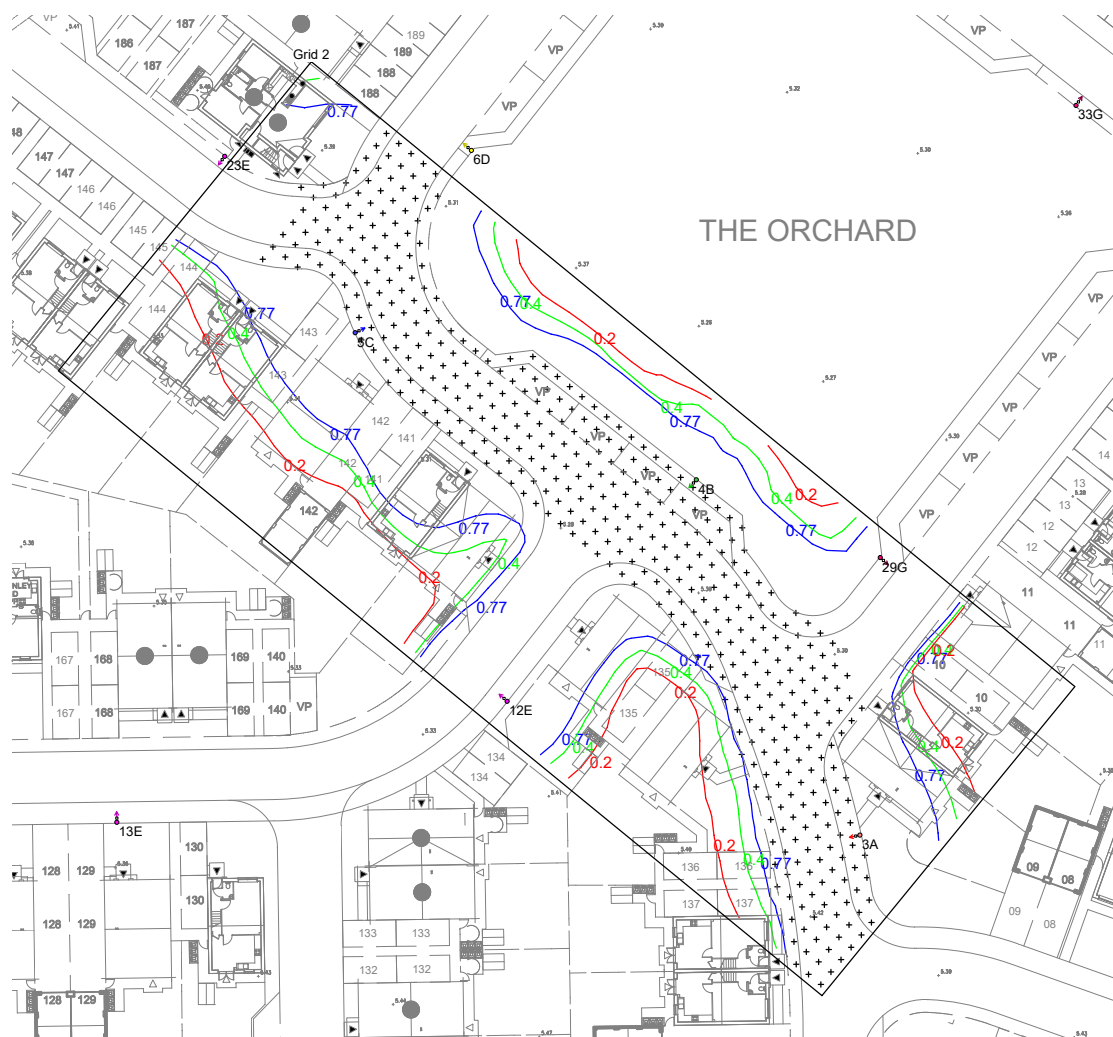


Results

Eav	3.98
Emin	0.83
Emax	9.96
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 2

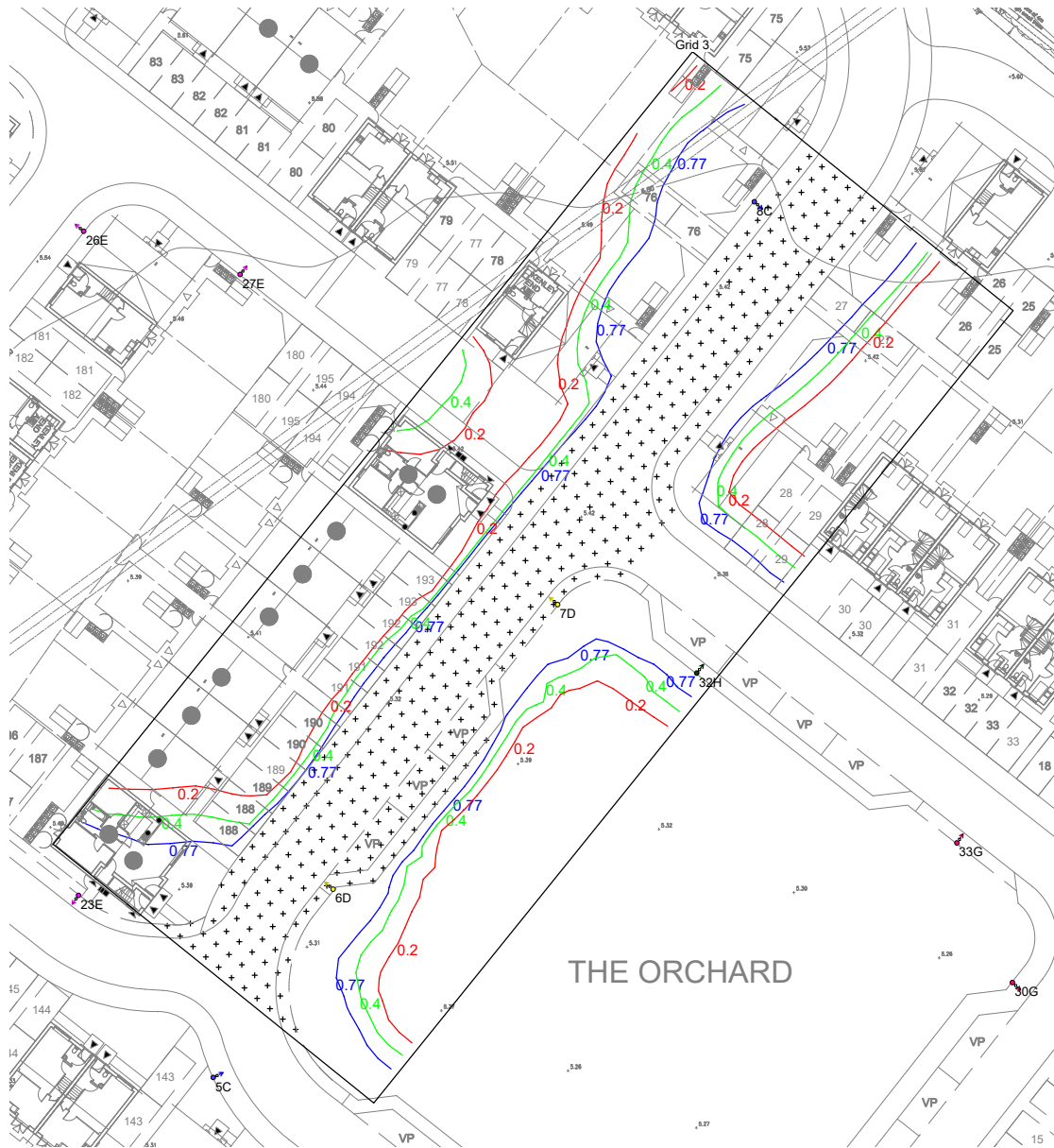


Results

Eav	4.63
Emin	0.74
E _{max}	9.91
Emin/E _{max}	0.07
Emin/Eav	0.16

Horizontal Illuminance (lux)

Grid 3



Results

Eav	4.36
Emin	1.11
Emax	8.27
Emin/Emax	0.13
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 4

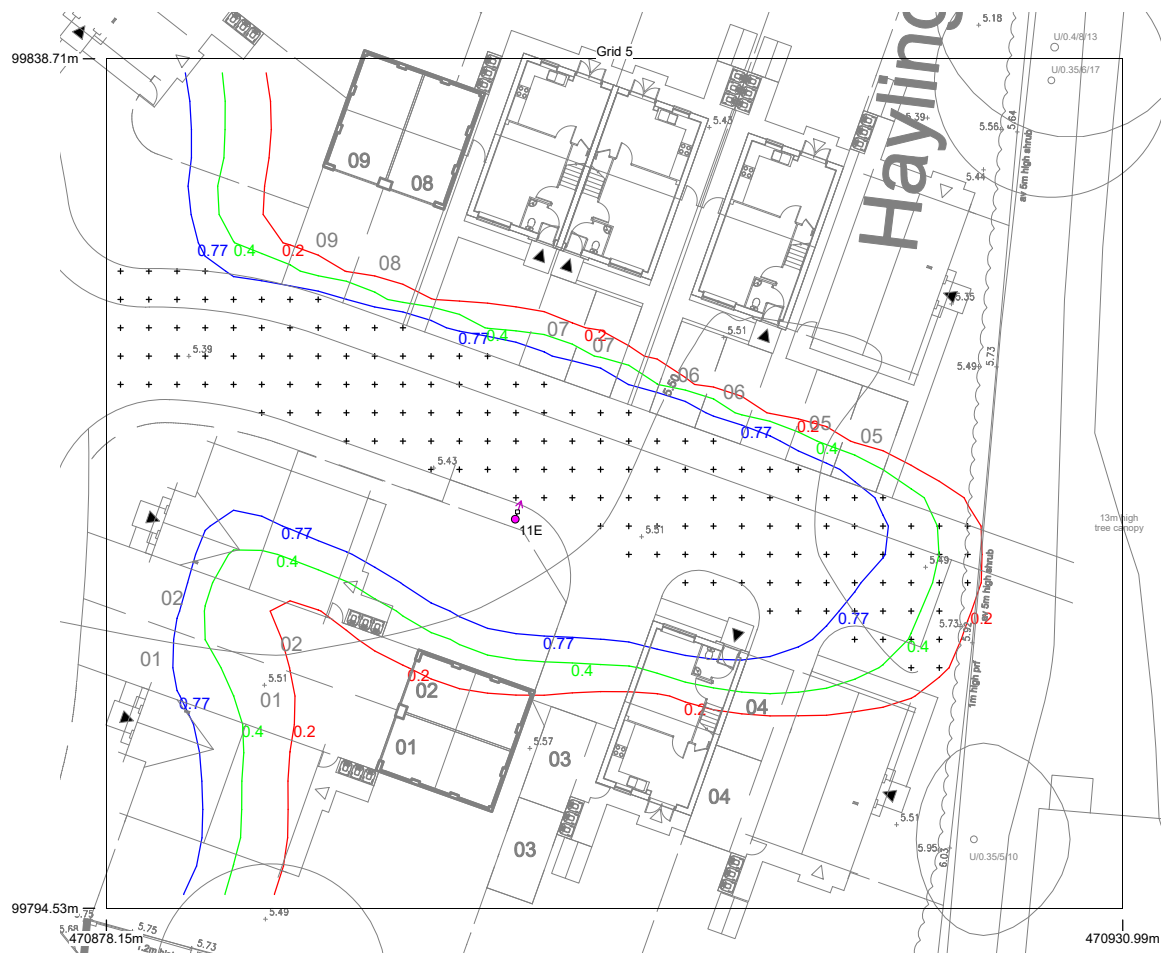


Results

Eav	4.08
Emin	1.28
Emax	9.98
Emin/Emax	0.13
Emin/Eav	0.31

Horizontal Illuminance (lux)

Grid 5

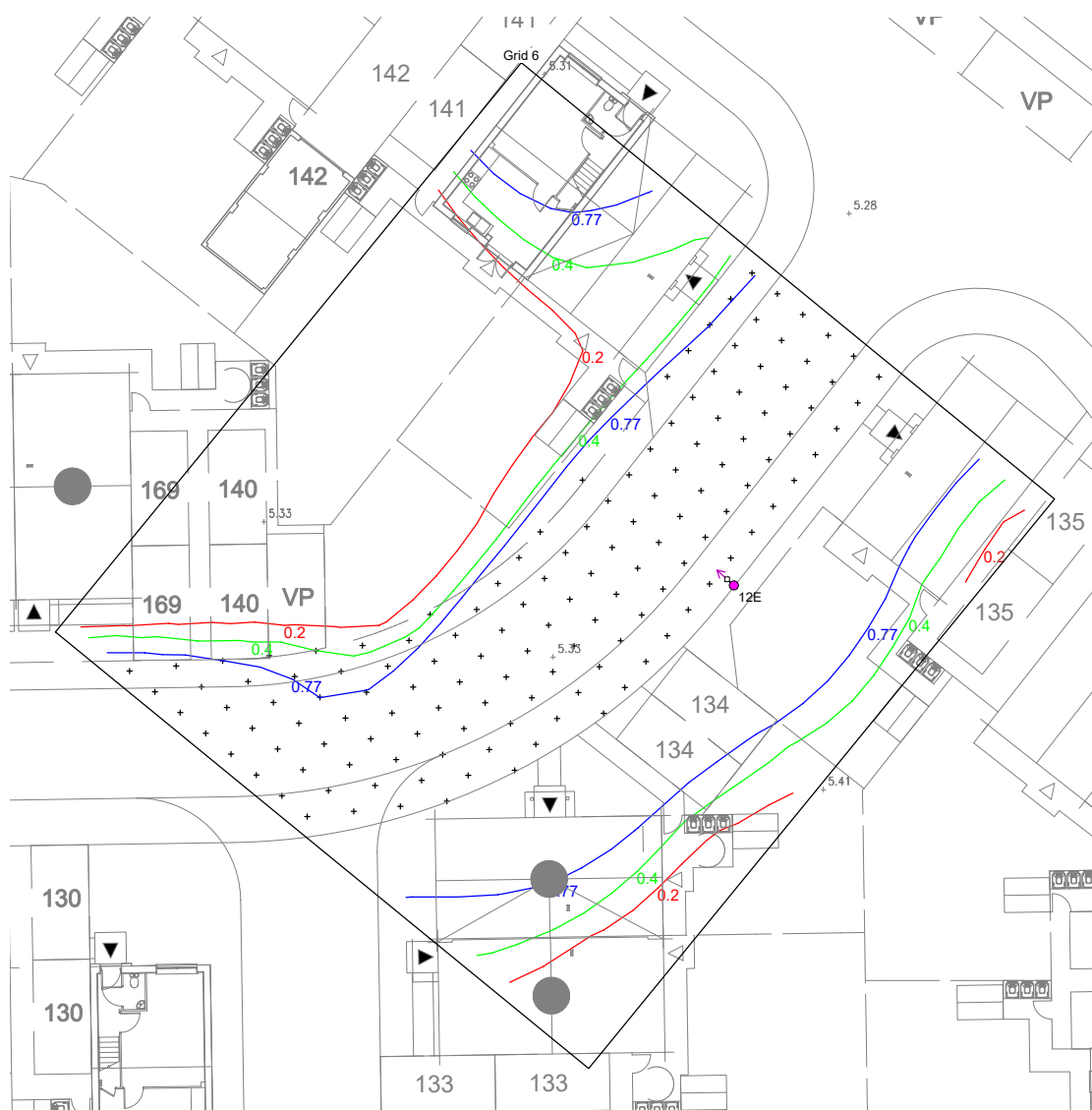


Results

Eav	1.94
Emin	0.23
Emax	4.64
Emin/Emax	0.05
Emin/Eav	0.12

Horizontal Illuminance (lux)

Grid 6

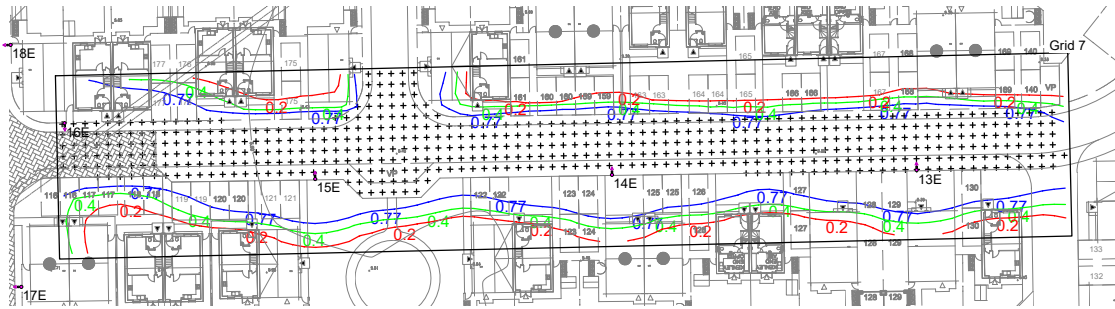


Results

Eav	2.11
Emin	0.31
E _{max}	4.60
E _{min} /E _{max}	0.07
E _{min} /E _{av}	0.15

Horizontal Illuminance (lux)

Grid 7

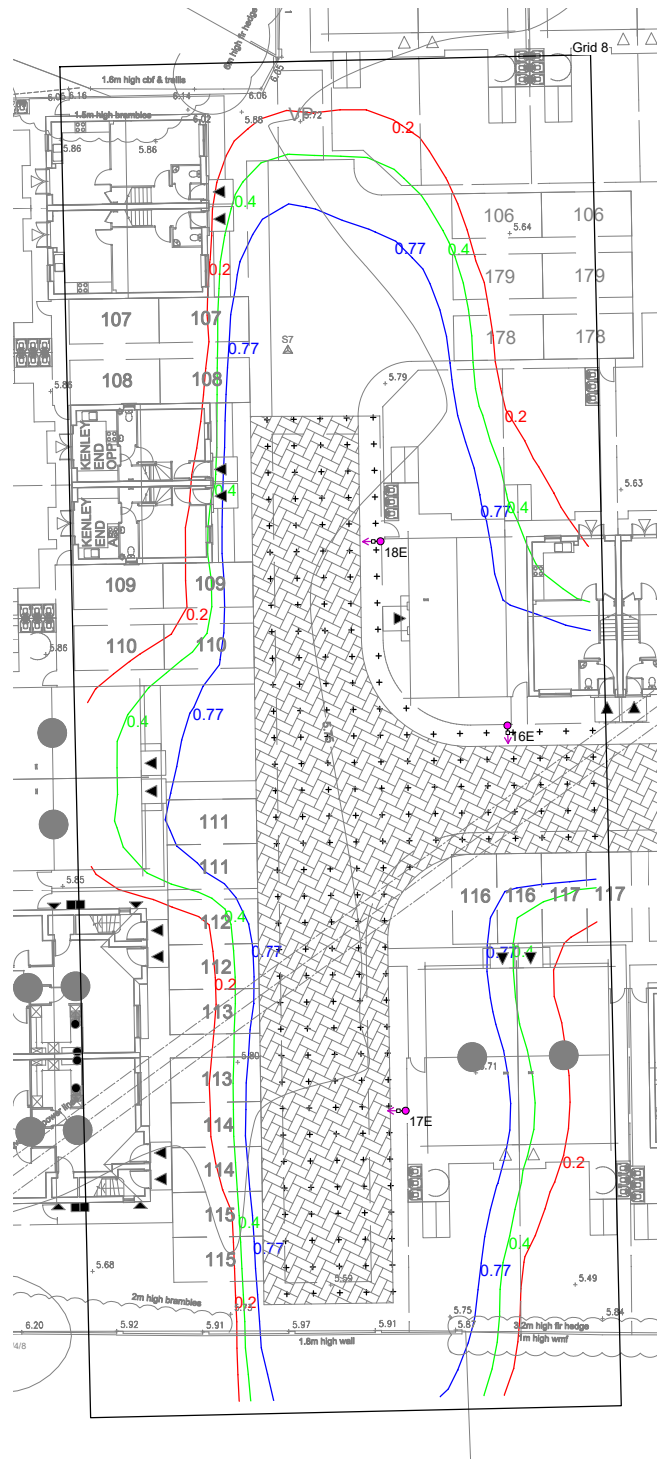


Results

Eav	2.23
Emin	0.67
E _{max}	4.85
Emin/E _{max}	0.14
Emin/Eav	0.30

Horizontal Illuminance (lux)

Grid 8

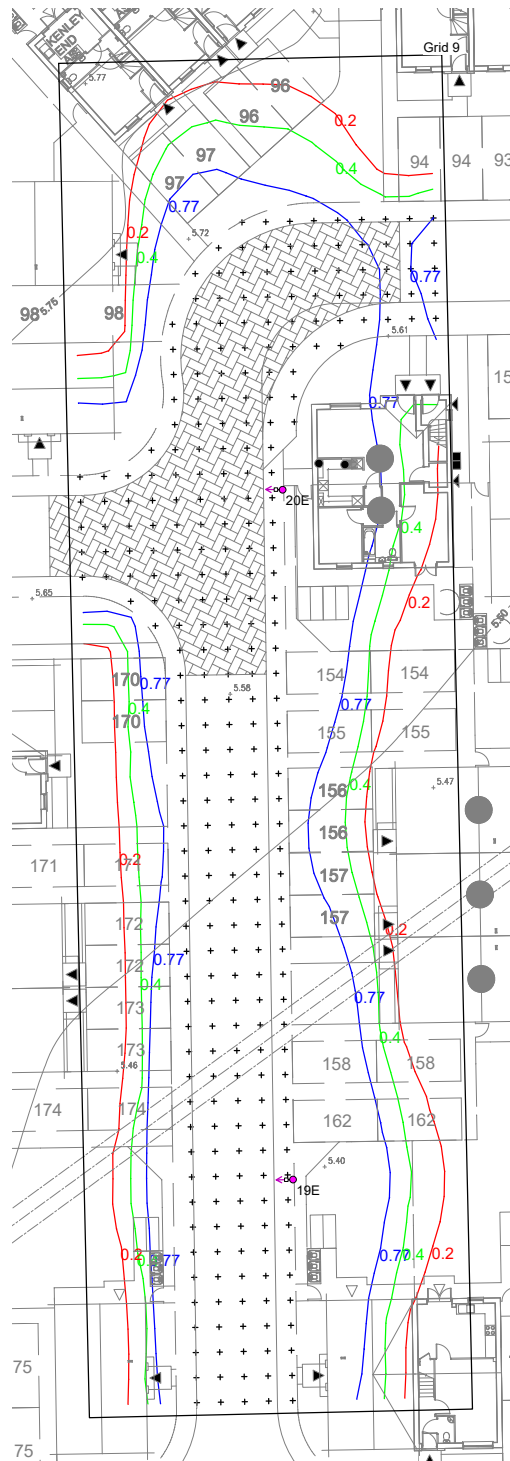


Results

Eav	3.42
Emin	1.74
Emax	5.10
Emin/Emax	0.34
Emin/Eav	0.51

Horizontal Illuminance (lux)

Grid 9

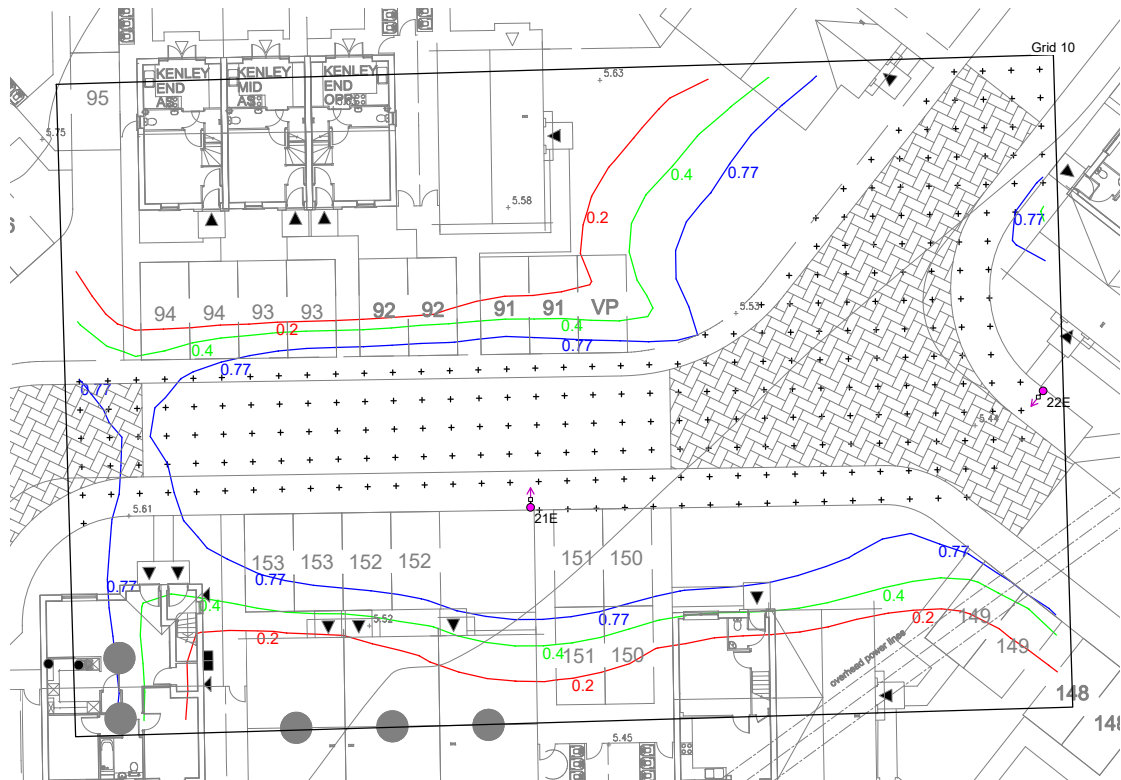


Results

Eav	2.19
Emin	0.55
Emax	4.92
Emin/Emax	0.11
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 10

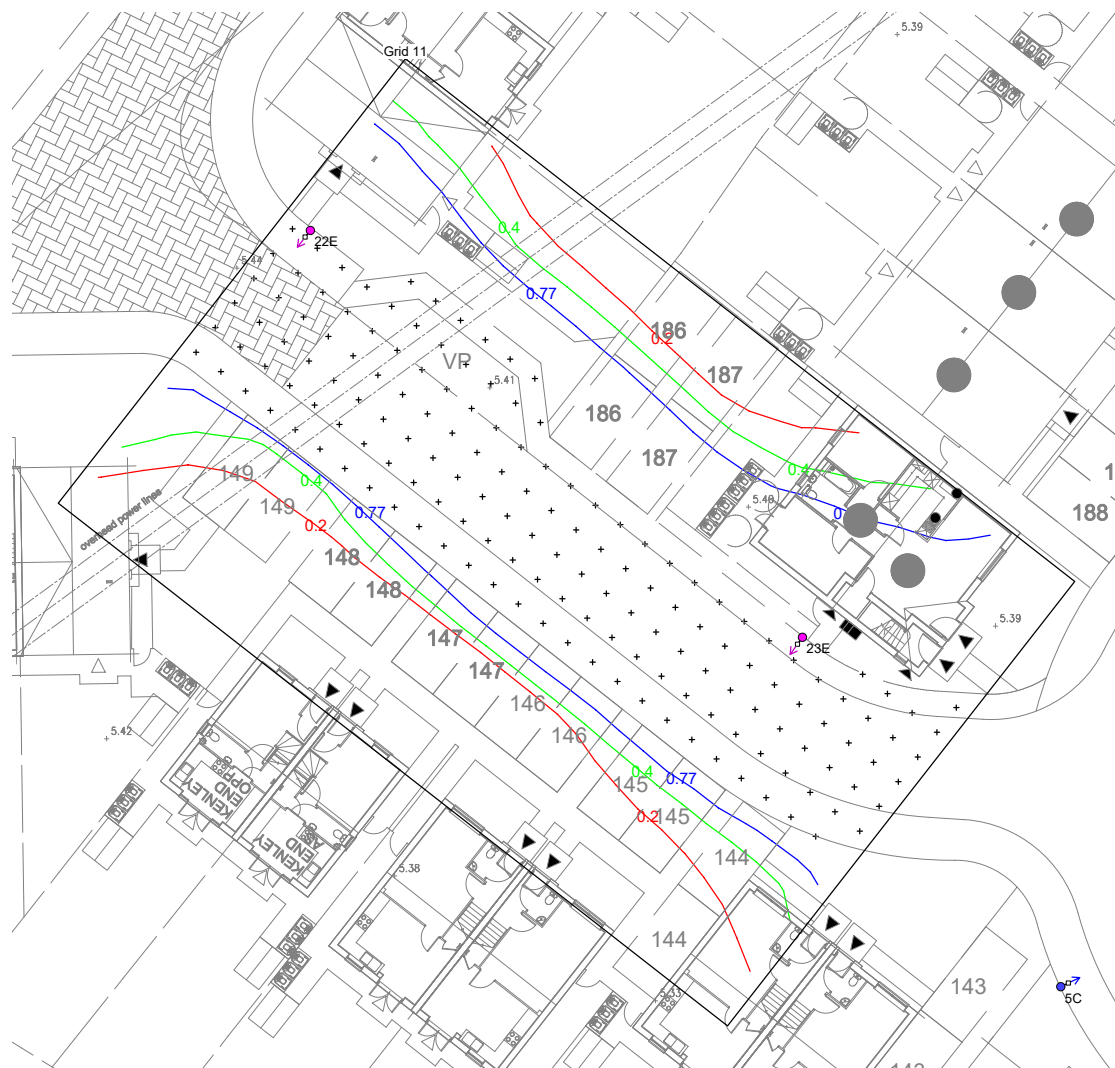


Results

Eav	2.28
Emin	0.55
Emax	4.78
Emin/Emax	0.12
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 11

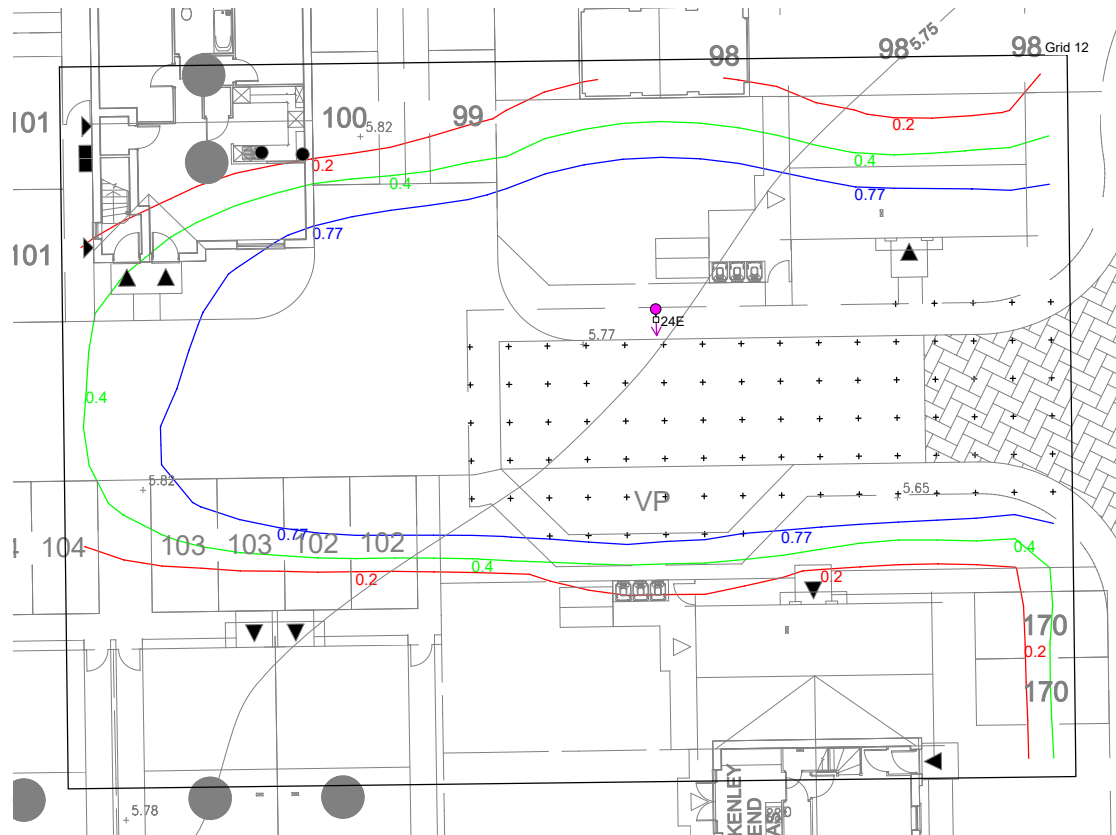


Results

Eav	2.97
Emin	1.43
Emax	5.28
Emin/Emax	0.27
Emin/Eav	0.48

Horizontal Illuminance (lux)

Grid 12



Results

Eav	2.46
Emin	0.77
Emax	4.64
Emin/Emax	0.17
Emin/Eav	0.31

Horizontal Illuminance (lux)

Grid 13



Results

Eav	2.86
Emin	1.26
E _{max}	4.84
Emin/E _{max}	0.26
Emin/Eav	0.44

Horizontal Illuminance (lux)

Grid 14

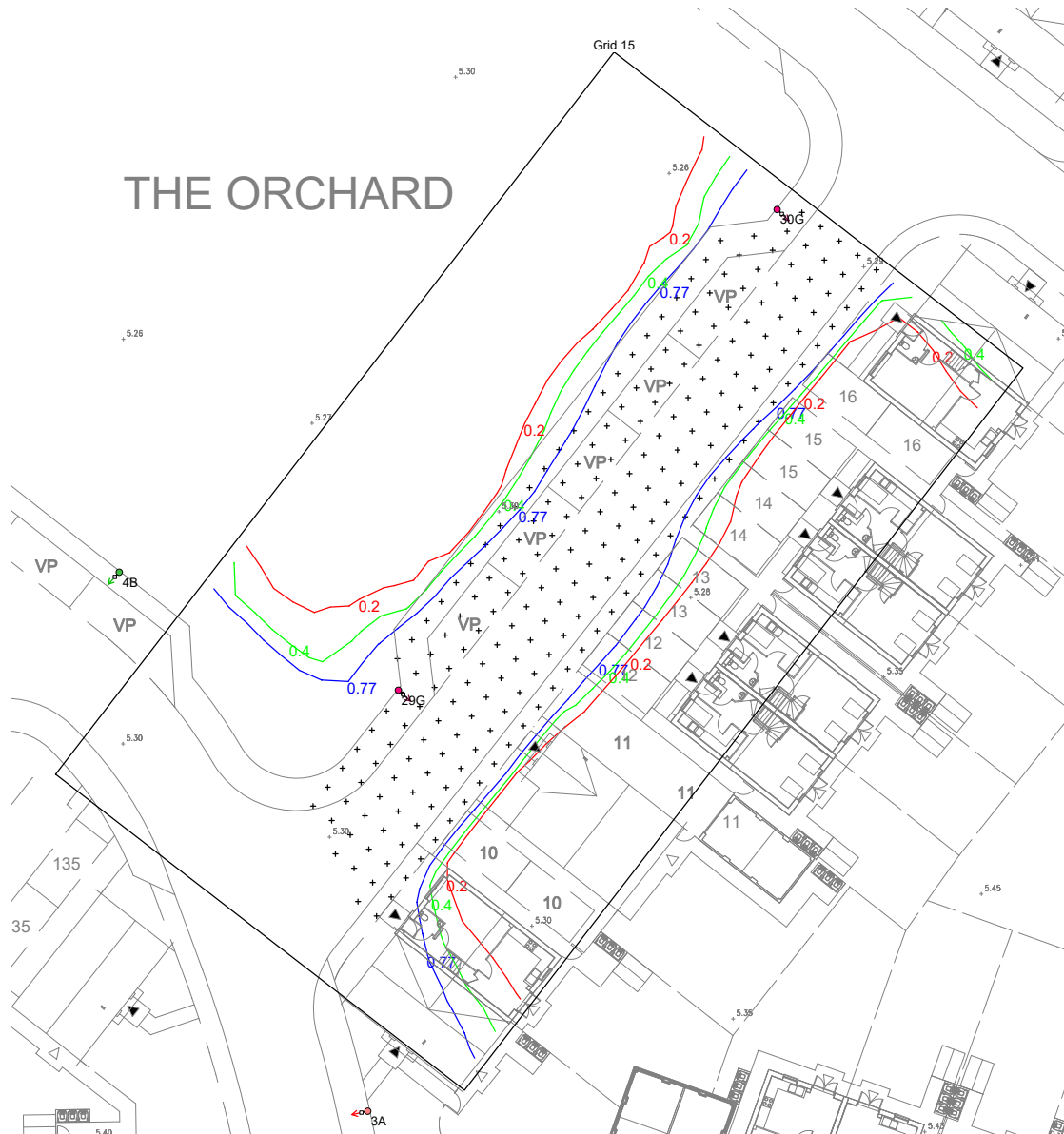


Results

Eav	3.51
Emin	1.80
Emax	5.40
Emin/Emax	0.33
Emin/Eav	0.51

Horizontal Illuminance (lux)

Grid 15

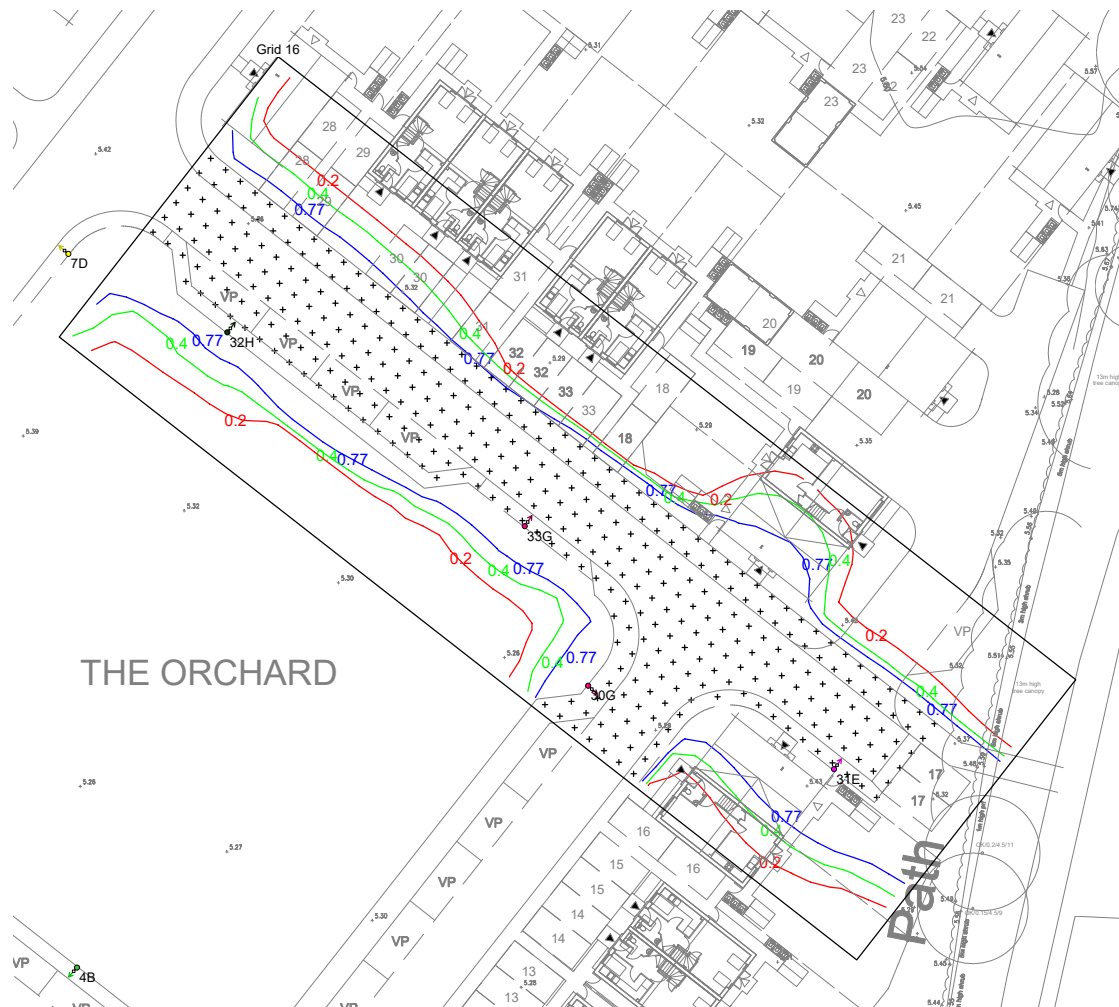


Results

Eav	2.04
Emin	0.62
Emax	4.19
Emin/Emax	0.15
Emin/Eav	0.31

Horizontal Illuminance (lux)

Grid 16

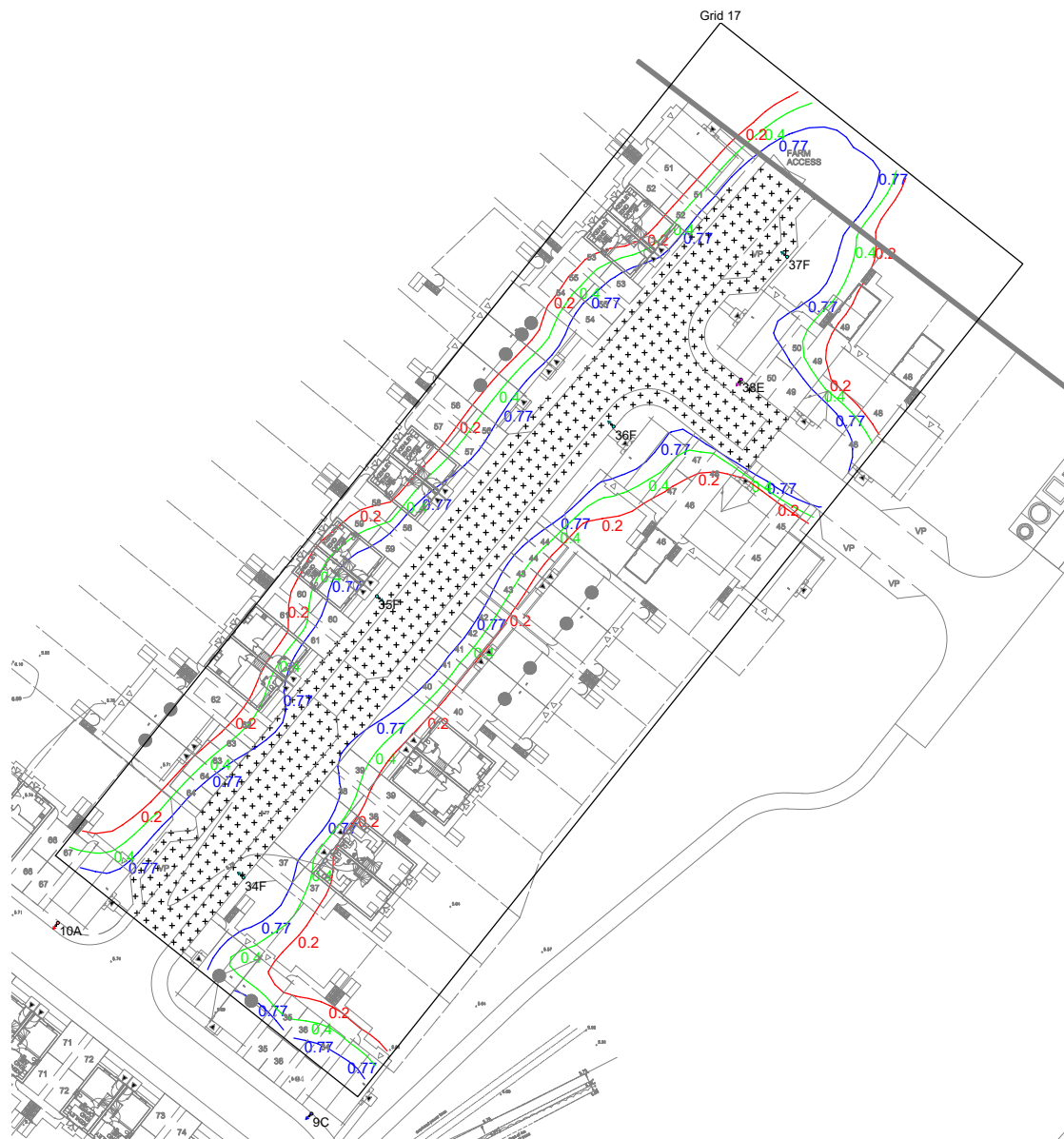


Results

Eav	2.49
Emin	0.81
Emax	4.63
Emin/Emax	0.17
Emin/Eav	0.32

Horizontal Illuminance (lux)

Grid 17



Results

Eav	2.22
Emin	0.69
E _{max}	4.91
Emin/E _{max}	0.14
Emin/Eav	0.31