

DATE: 30 March 2026
DESIGNER: SHD Lighting Consultancy Limited
PROJECT No: SHD2702
PROJECT NAME: Ashington



1m surround each EV charger: 150.00 lux @ 0.67 (67%) Uo

EV charging bays: 100.00 lux @ 0.50 (50%) Uo

Abacus S-LUM luminaire post top mounted at 0° tilt on 4m Abacus lighting column.

Outdoor Lighting Report

PREPARED BY: SHD Lighting Consultancy Ltd
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Layout Report

General Data

Dimensions in Metres Angles in Degrees
Local Origin at 513423016.16m x 116614458.29m

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1: Whole Area	649.91	151.11	72.00	72.00	1.50	1.50
2	Grid 2: EV Charger 1	680.09	186.84	2.57	2.62	0.64	0.65
3	Grid 3: EV Charger 2	686.81	184.25	2.57	2.62	0.64	0.65
4	Grid 4: EV Charger 3	693.35	181.74	2.57	2.62	0.64	0.65
5	Grid 5: EV Bay 1	677.96	187.55	2.65	4.99	0.66	1.25
6	Grid 6: EV Bay 2	682.05	185.97	2.65	4.99	0.66	1.25
7	Grid 7: EV Bay 3	684.67	184.98	2.65	4.99	0.66	1.25
8	Grid 8: EV Bay 4	688.79	183.39	2.65	4.99	0.66	1.25
9	Grid 9: EV Bay 5	691.41	182.37	2.65	4.99	0.66	1.25
10	Grid 10: EV Bay 6	694.94	181.16	5.00	7.50	1.67	1.50

Luminaires

Luminaire A Data

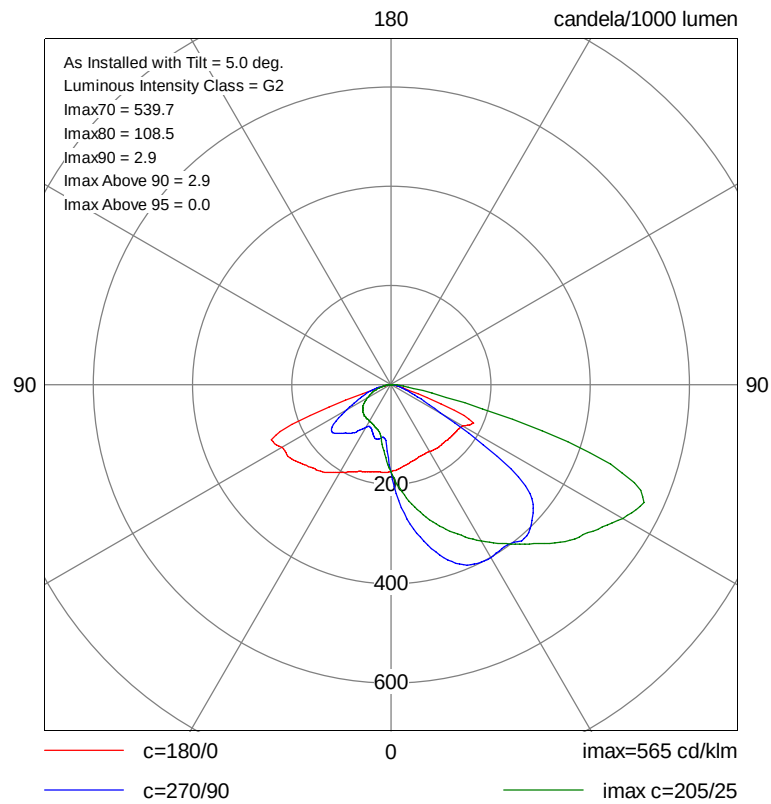
Supplier	Abacus
Type	AL61302_070_M_740v2
Lamp(s)	S3.M.54.70.11200.B.002.4070
Lamp Flux (klm)	11.20
File Name	AL61302_070_M_740v2 - S-Lum gen3.ies
Maintenance Factor	0.84
Lum. Int. Class	G2
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	694.24	180.50	4.00	67.00	5.00	0.00	0.60			
2	A	687.72	182.98	4.00	67.00	5.00	0.00	0.60			
3	A	680.98	185.59	4.00	69.00	5.00	0.00	0.60			
4	A	702.11	182.61	4.00	159.00	5.00	0.00	0.60			

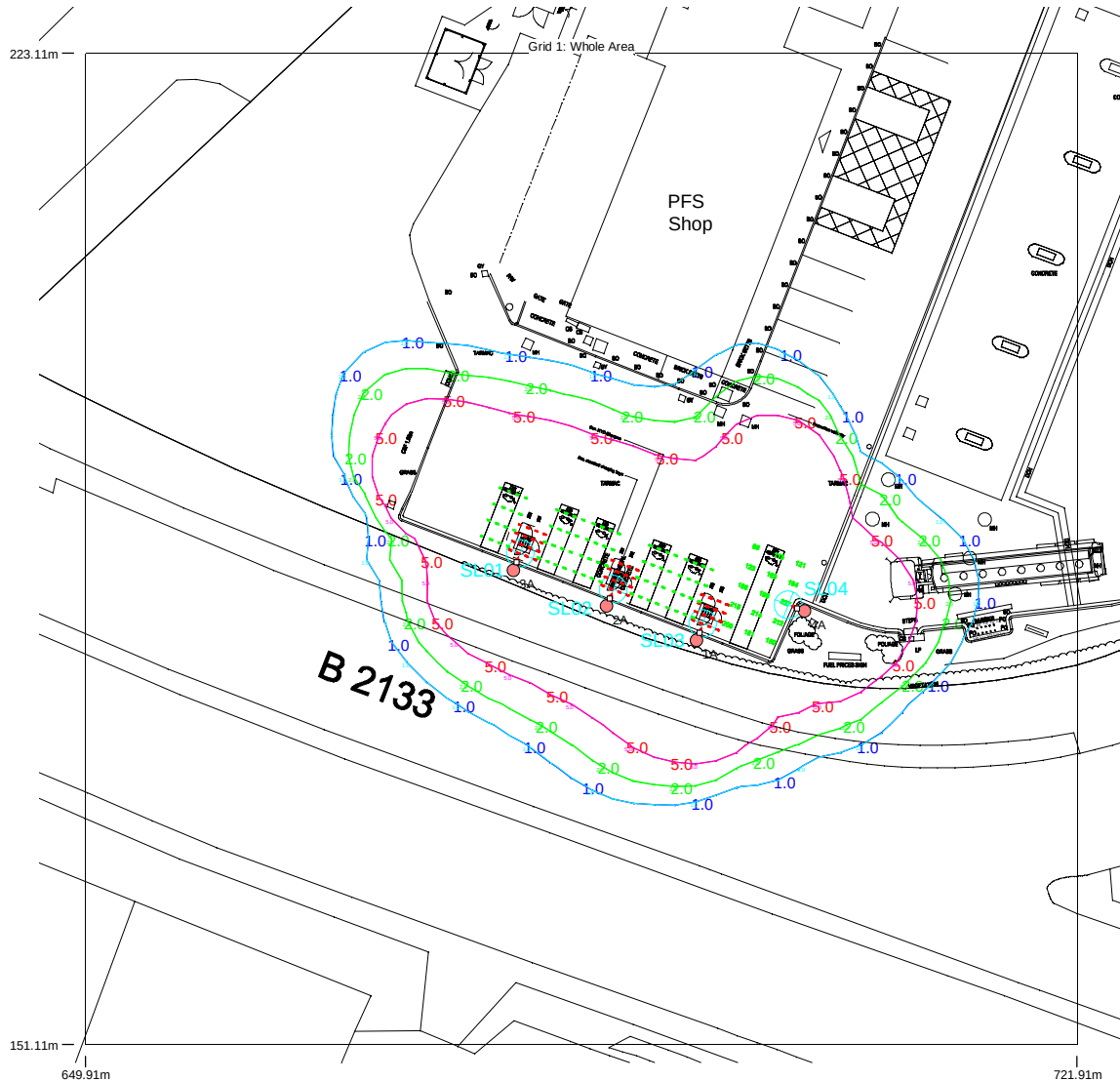
Polar Diagram

Luminaire A AL61302 070 M 740v2



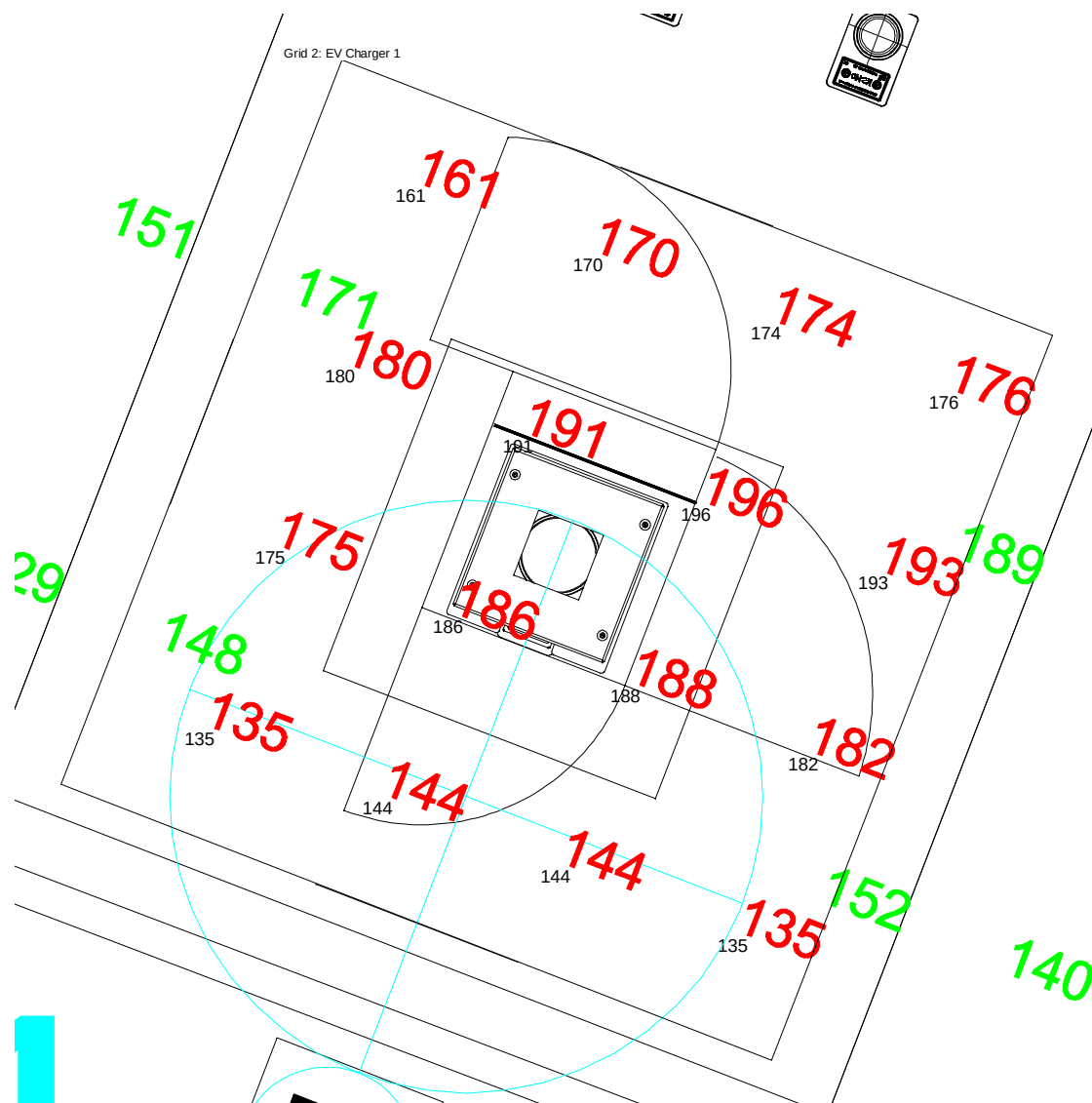
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: EV Charger 1

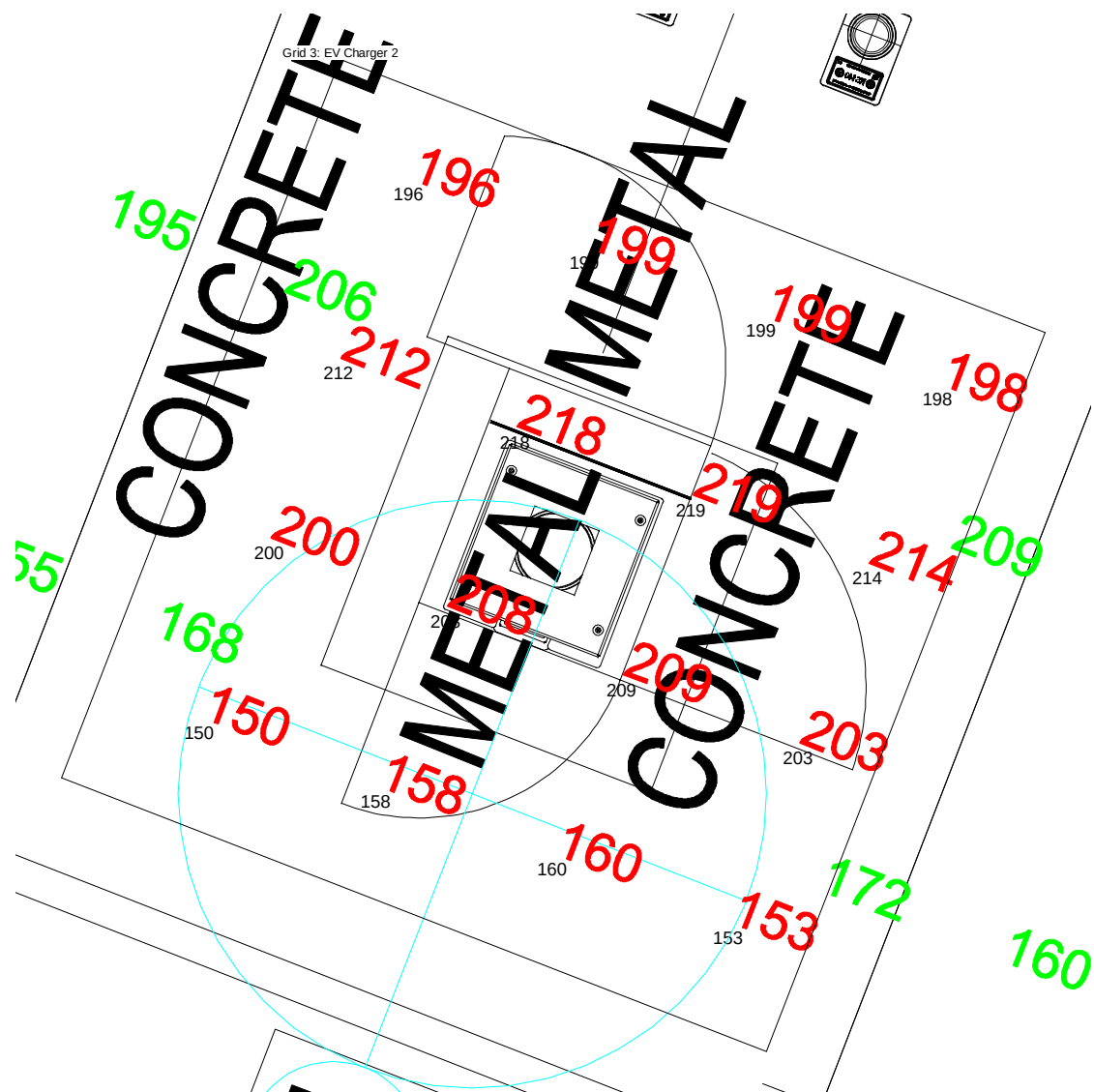


Results

Eav	170.61
Emin	134.98
E _{max}	195.90
Emin/E _{max}	0.69
Emin/Eav	0.79

Horizontal Illuminance (lux)

Grid 3: EV Charger 2

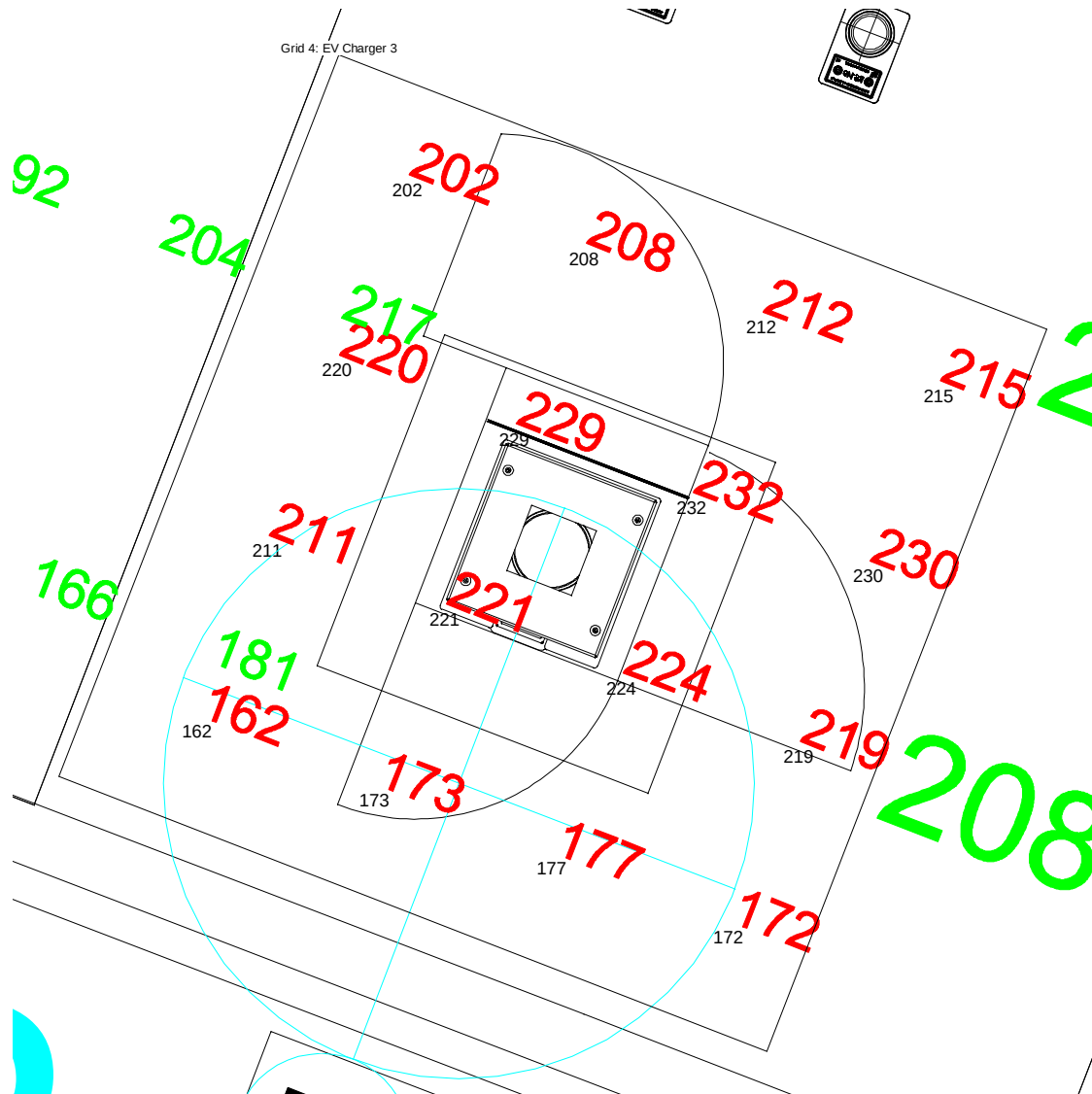


Results

Eav	193.46
Emin	150.39
E _{max}	218.83
Emin/E _{max}	0.69
Emin/Eav	0.78

Horizontal Illuminance (lux)

Grid 4: EV Charger 3

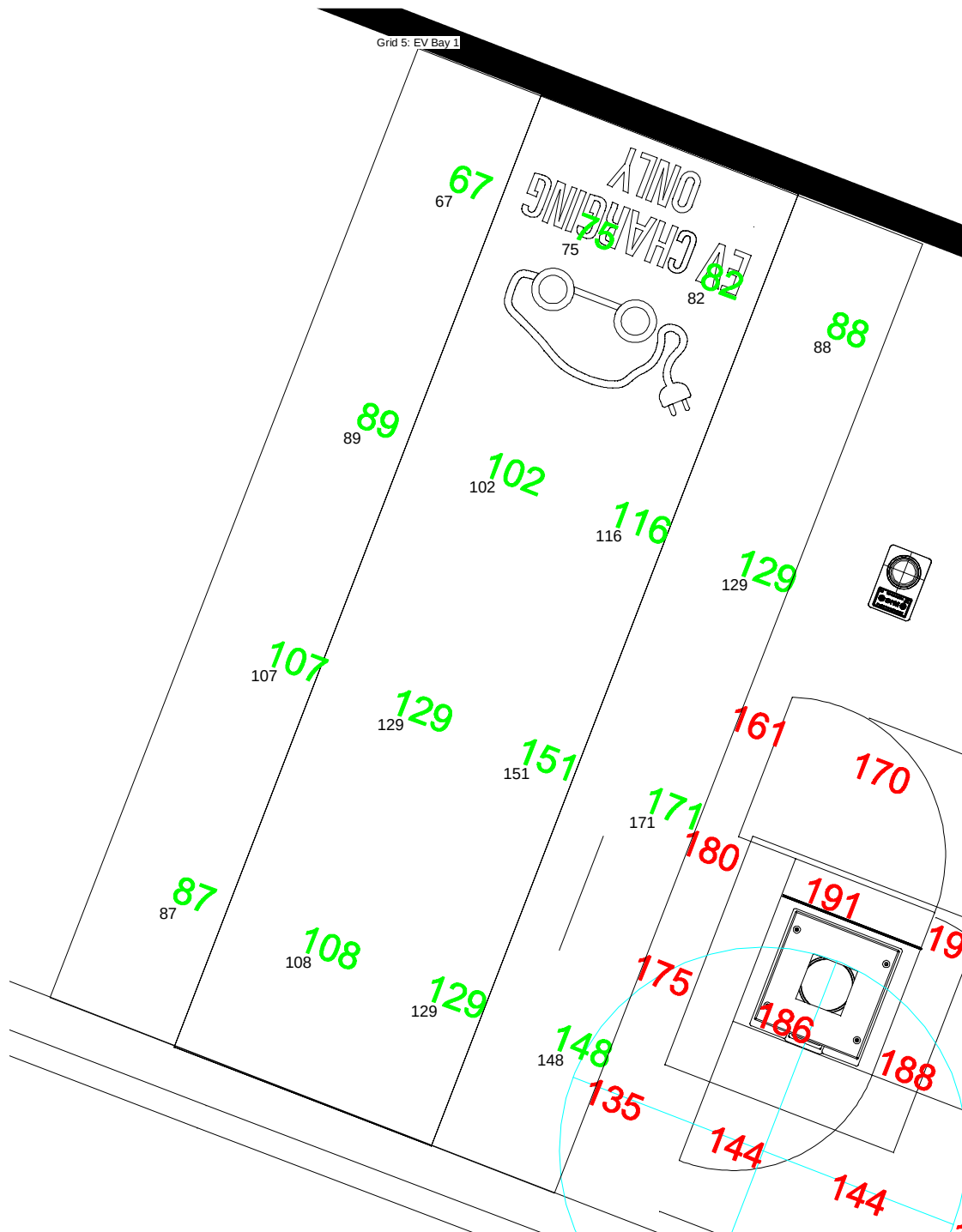


Results

Eav	206.71
Emin	161.80
Emax	232.34
Emin/Emax	0.70
Emin/Eav	0.78

Horizontal Illuminance (lux)

Grid 5: EV Bay 1

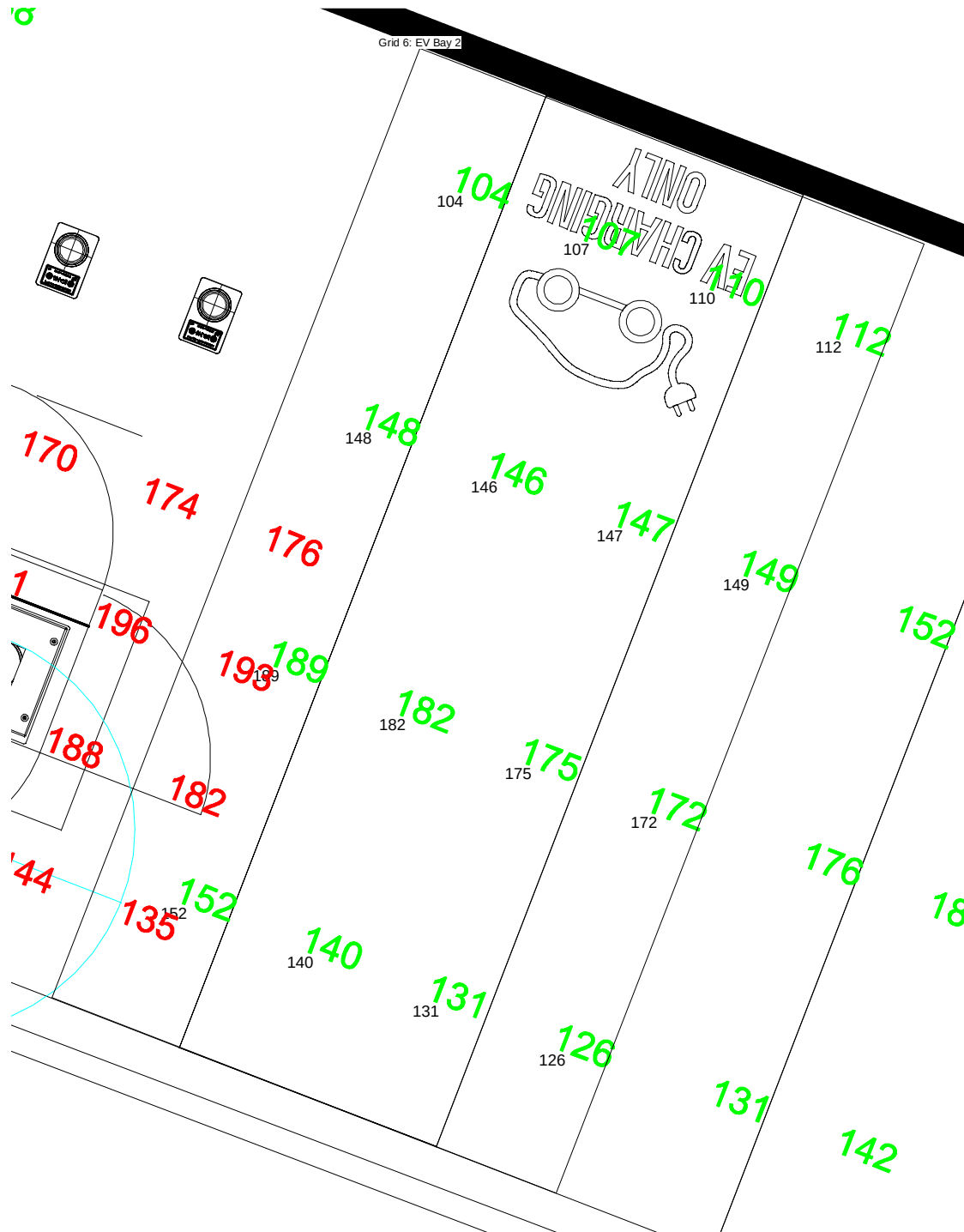


Results

Eav	111.19
Emin	67.27
Emax	170.96
Emin/Emax	0.39
Emin/Eav	0.61

Horizontal Illuminance (lux)

Grid 6: EV Bay 2

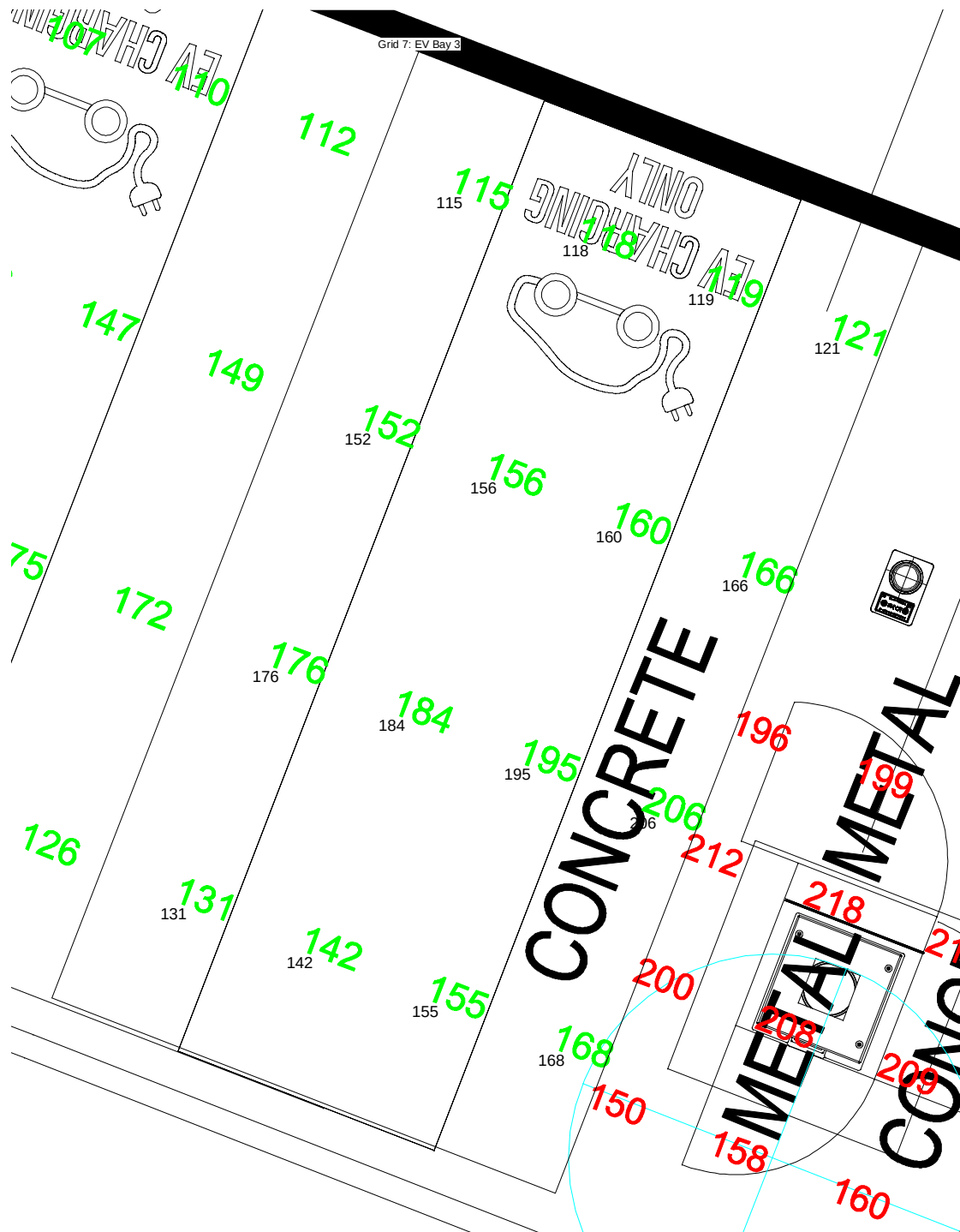


Results

Eav	143.19
Emin	104.01
Emax	189.07
Emin/Emax	0.55
Emin/Eav	0.73

Horizontal Illuminance (lux)

Grid 7: EV Bay 3

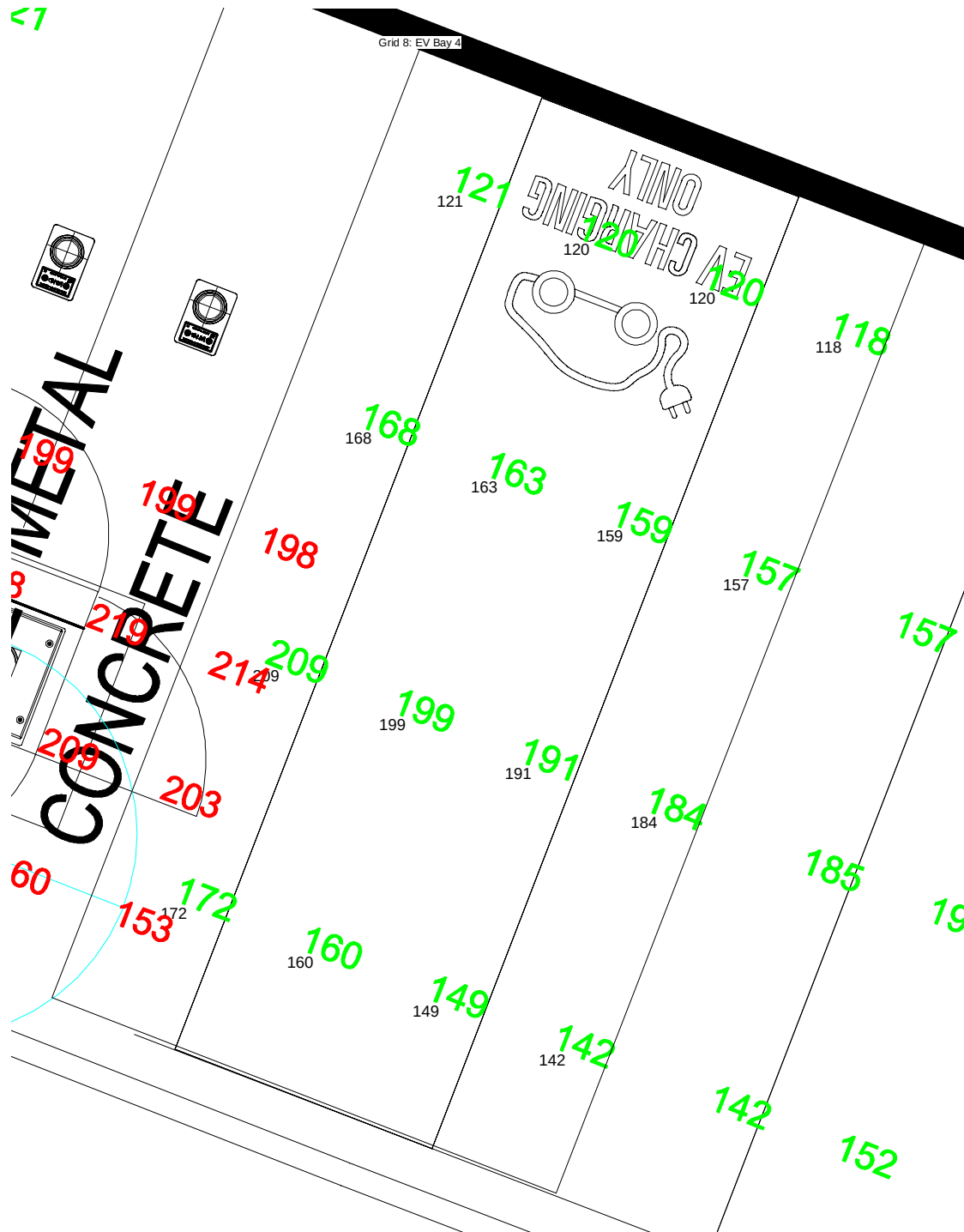


Results

Eav	153.98
Emin	114.67
Emax	205.93
Emin/Emax	0.56
Emin/Eav	0.74

Horizontal Illuminance (lux)

Grid 8: EV Bay 4

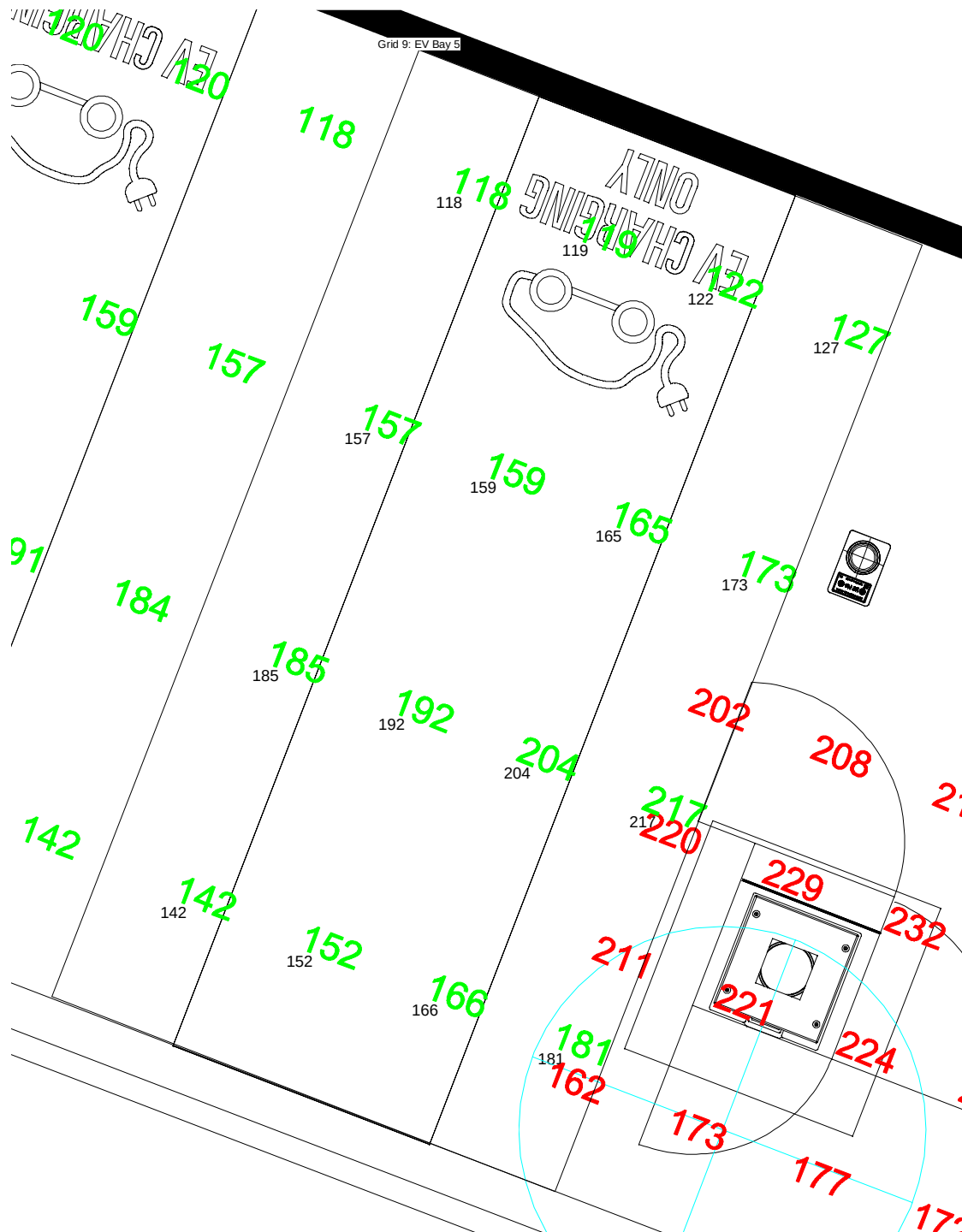


Results

Eav	158.28
Emin	118.42
Emax	209.39
Emin/Emax	0.57
Emin/Eav	0.75

Horizontal Illuminance (lux)

Grid 9: EV Bay 5

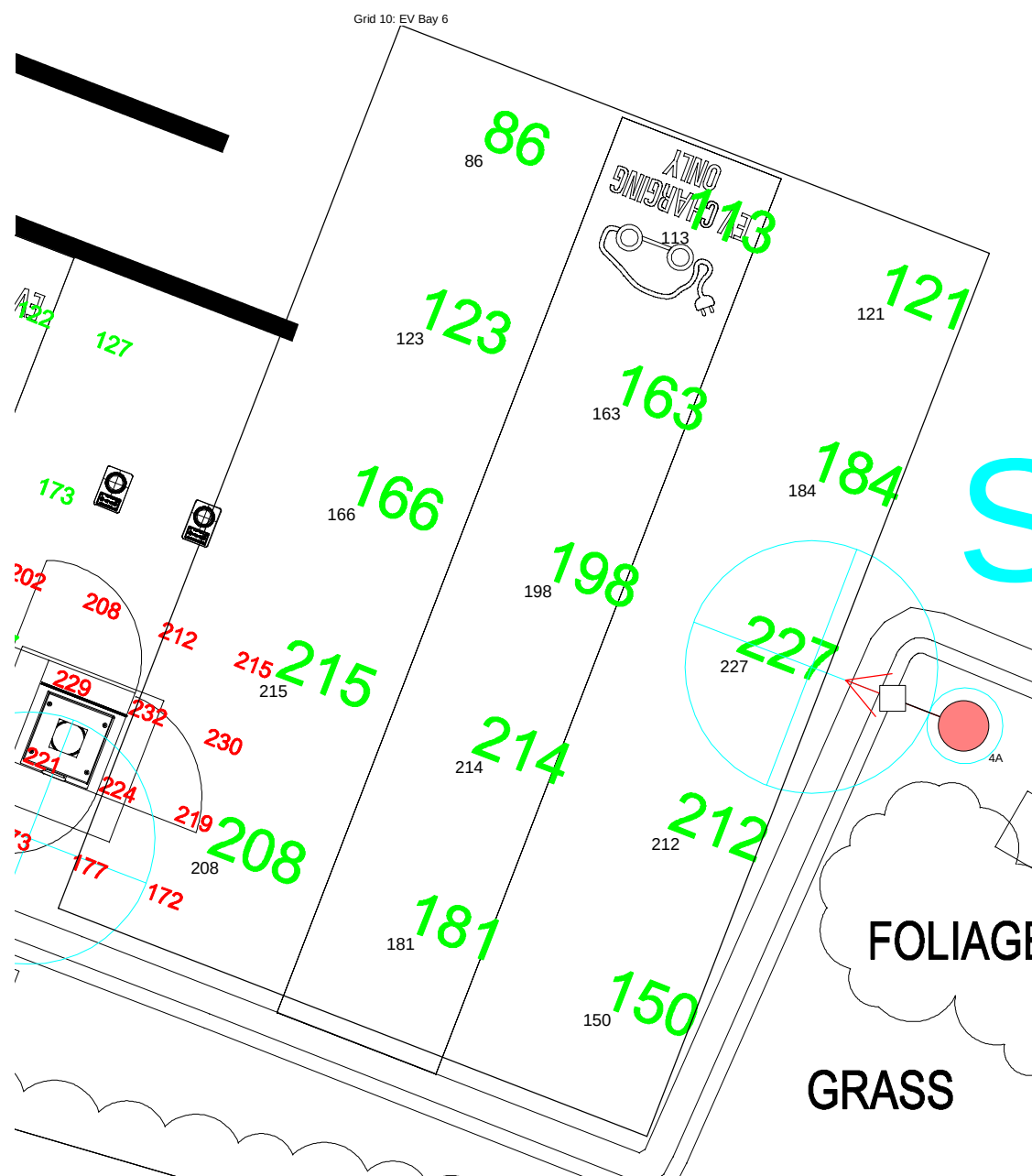


Results

Eav	161.06
Emin	117.83
Emax	217.16
Emin/Emax	0.54
Emin/Eav	0.73

Horizontal Illuminance (lux)

Grid 10: EV Bay 6



Results

Eav	170.72
Emin	85.93
E _{max}	227.12
Emin/E _{max}	0.38
Emin/Eav	0.50