

DATE: 10 December 2025
DESIGNER: SHD Lighting Consultancy Limited
PROJECT No: SHD2510
PROJECT NAME: Blackmoorfoot Road



Isolux contour lines shown are at ground level.

Adoptable street lighting columns and solar bollards are combined in this calculation report.

Isolux contour lines shown use a maintenance factor of 1.00, which represents 'day one' installation light levels, not factoring in lumen depreciation, lens grime and driver deterioration, which will all occur over time, marginally decreasing the lumen output.

Outdoor Lighting Report

PREPARED BY: SHD Lighting Consultancy Ltd
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Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 410911.8m x 414285.5m
Area 500.0m x 500.0m
Sample Spacing 2.00m x 2.00m

Luminaires

Luminaire A Data

Supplier	
Type	IGNIS mini - 20 LEDs, MPE, 4000K, 0567mA, Opt2
Lamp(s)	OSRAM SQUARE CRI70 SPRL57 4000K N7
LampFlux(klm)/Colour	5.58 4000/70
File Name	IGNIS mini 20 MPE 4.0_70_567_5576_2.LDT
Maintenance Factor	1.00
Lum. Int. Class	G3
No. in Project	15

Luminaire B Data

Supplier	
Type	IGNIS mini - 18 LEDs, MS1, 4000K, 0115mA, Opt2
Lamp(s)	OSRAM DURIS S8 CRI70
Lamp Flux (klm)	2.27
File Name	LED6 2024 IGNIS mini 18 MS1 4.0_70_115_2271_2.ies
Maintenance Factor	1.00
Lum. Int. Class	G1
No. in Project	38

Luminaire C Data

Supplier	
Type	N/A
Lamp(s)	N/A 0.755W 59.80lm
Lamp Flux (klm)	0.06
File Name	GNC-31027 Pro Solar Litecharge.ies
Maintenance Factor	1.00
Lum. Int. Class	None
No. in Project	23

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	411275.30	414385.49	8.00	339.00	0.00	0.00	0.40			
2	A	411289.12	414417.06	8.00	198.00	0.00	0.00	0.40			
3	A	411268.91	414445.62	8.00	20.00	0.00	0.00	0.40			
4	A	411295.55	414500.77	8.00	290.00	0.00	0.00	0.40			
5	A	411263.67	414521.98	8.00	27.00	0.00	0.00	0.40			
6	A	411269.50	414477.40	8.00	329.00	0.00	0.00	0.40			
7	A	411244.87	414554.94	8.00	25.00	0.00	0.00	0.40			
8	A	411234.14	414595.04	8.00	211.00	0.00	0.00	0.40			
9	A	411215.92	414633.10	8.00	213.00	0.00	0.00	0.40			
10	A	411194.43	414669.72	8.00	208.00	0.00	0.00	0.40			

Layout Continued

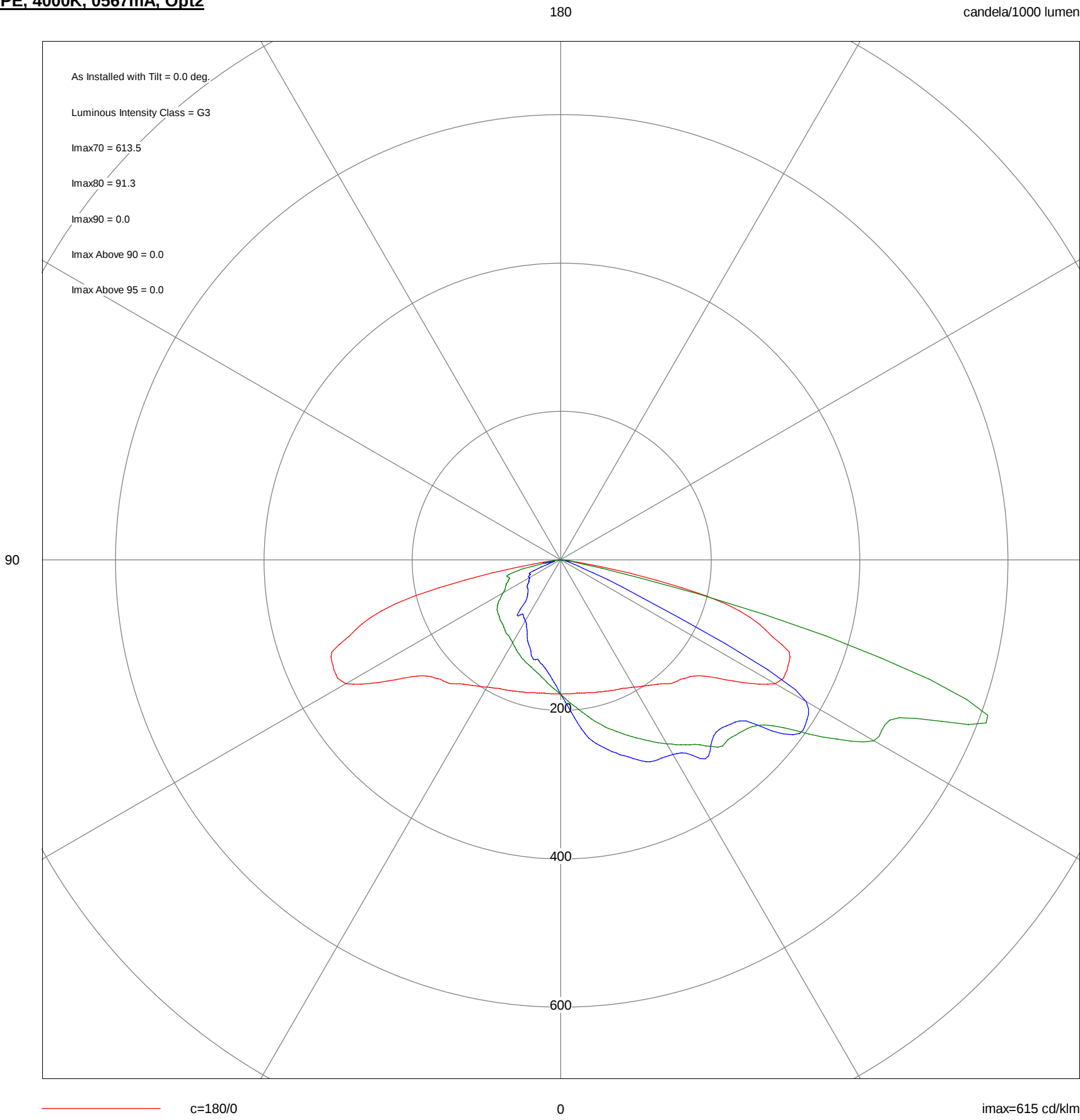
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
11	A	411164.44	414701.14	8.00	9.00	0.00	0.00	0.40			
12	A	411167.81	414737.78	8.00	331.00	0.00	0.00	0.40			
13	A	411342.43	414334.89	8.00	247.00	0.00	0.00	0.40			
14	A	411300.03	414357.27	8.00	246.00	0.00	0.00	0.40			
15	A	411256.53	414379.80	8.00	240.00	0.00	0.00	0.40			
16	B	411277.24	414554.62	6.00	301.00	0.00	0.00	0.40			
17	B	411245.29	414525.91	6.00	126.00	0.00	0.00	0.40			
18	B	411223.84	414503.21	6.00	152.00	0.00	0.00	0.40			
19	B	411204.98	414473.11	6.00	343.00	0.00	0.00	0.40			
20	B	411199.68	414443.45	6.00	122.00	0.00	0.00	0.40			
21	B	411161.67	414450.13	6.00	57.00	0.00	0.00	0.40			
22	B	411130.57	414470.18	6.00	62.00	0.00	0.00	0.40			
23	B	411103.01	414490.34	6.00	57.00	0.00	0.00	0.40			
24	B	411072.01	414506.95	6.00	52.00	0.00	0.00	0.40			
25	B	411046.08	414527.62	6.00	42.00	0.00	0.00	0.40			
26	B	411024.87	414555.63	6.00	24.00	0.00	0.00	0.40			
27	B	411006.80	414581.00	6.00	37.00	0.00	0.00	0.40			
28	B	411003.34	414618.75	6.00	320.00	0.00	0.00	0.40			
29	B	411032.89	414627.29	6.00	118.00	0.00	0.00	0.40			
30	B	411220.79	414568.50	6.00	122.00	0.00	0.00	0.40			
31	B	411171.21	414539.27	6.00	324.00	0.00	0.00	0.40			
32	B	411195.65	414554.77	6.00	120.00	0.00	0.00	0.40			
33	B	411186.40	414618.22	6.00	303.00	0.00	0.00	0.40			
34	B	411124.70	414578.52	6.00	331.00	0.00	0.00	0.40			
35	B	411157.55	414601.62	6.00	300.00	0.00	0.00	0.40			
36	B	411193.66	414501.37	6.00	70.00	0.00	0.00	0.40			
37	B	411163.82	414519.73	6.00	56.00	0.00	0.00	0.40			
38	B	411133.19	414539.50	6.00	56.00	0.00	0.00	0.40			
39	B	411105.49	414557.16	6.00	56.00	0.00	0.00	0.40			
40	B	411073.53	414581.14	6.00	18.00	0.00	0.00	0.40			
41	B	411075.10	414613.90	6.00	327.00	0.00	0.00	0.40			
42	B	411109.36	414627.85	6.00	119.00	0.00	0.00	0.40			
43	B	411137.07	414643.84	6.00	122.00	0.00	0.00	0.40			
44	B	411167.97	414661.64	6.00	126.00	0.00	0.00	0.40			
45	B	411118.49	414660.73	6.00	31.00	0.00	0.00	0.40			
46	B	411108.69	414692.54	6.00	239.00	0.00	0.00	0.40			
			info@shdlighting.co.uk		SHD Lighting Consultancy Ltd		www.shdlighting.co.uk				

Layout Continued

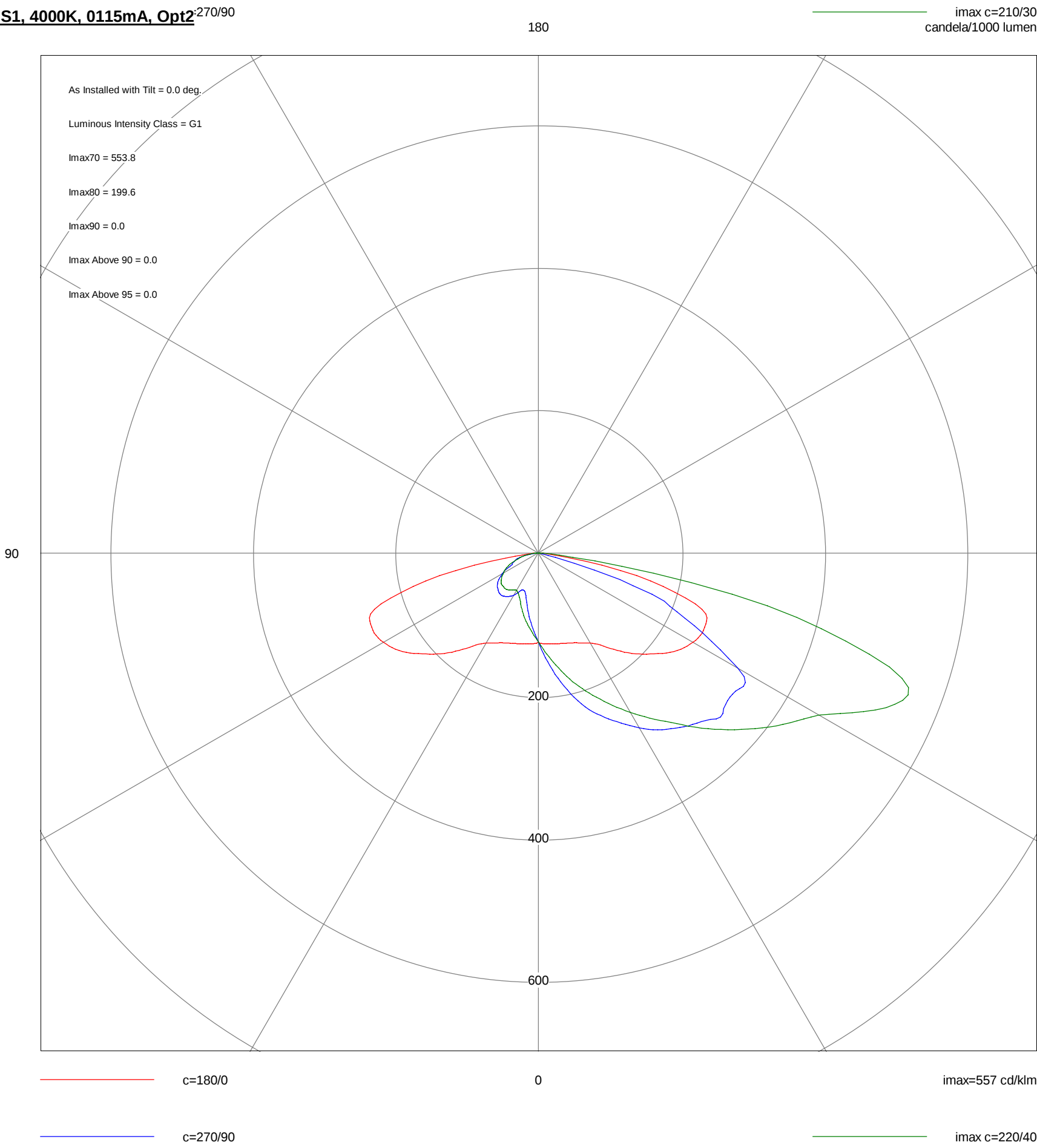
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
47	B	411077.49	414687.21	6.00	302.00	0.00	0.00	0.40			
48	B	411101.27	414716.66	6.00	0.00	0.00	0.00	0.40			
49	B	411120.33	414736.50	6.00	268.00	0.00	0.00	0.40			
50	B	411087.25	414736.39	6.00	274.00	0.00	0.00	0.40			
51	B	411053.43	414662.62	6.00	123.00	0.00	0.00	0.40			
52	B	411050.65	414616.57	6.00	34.00	0.00	0.00	0.40			
53	B	411024.49	414661.12	6.00	27.00	0.00	0.00	0.40			
54	C	411011.37	414684.25	0.80	0.00	0.00	0.00	0.00			
55	C	411019.53	414687.42	0.80	259.00	0.00	0.00	0.00			
56	C	411014.58	414669.61	0.80	27.00	0.00	0.00	0.00			
57	C	411028.05	414674.33	0.80	119.00	0.00	0.00	0.00			
58	C	410976.55	414649.42	0.80	304.00	0.00	0.00	0.00			
59	C	410981.01	414641.95	0.80	123.00	0.00	0.00	0.00			
60	C	411042.91	414714.53	0.80	34.00	0.00	0.00	0.00			
61	C	411063.42	414723.36	0.80	201.00	0.00	0.00	0.00			
62	C	411068.71	414728.70	0.80	36.00	0.00	0.00	0.00			
63	C	411076.98	414730.07	0.80	94.00	0.00	0.00	0.00			
64	C	411130.61	414728.66	0.80	180.00	0.00	0.00	0.00			
65	C	411143.00	414728.85	0.80	179.00	0.00	0.00	0.00			
66	C	411147.44	414732.53	0.80	0.00	0.00	0.00	0.00			
67	C	411159.72	414732.58	0.80	180.00	0.00	0.00	0.00			
68	C	411208.07	414667.43	0.80	201.00	0.00	0.00	0.00			
69	C	411214.29	414667.39	0.80	0.00	0.00	0.00	0.00			
70	C	411220.55	414667.35	0.80	0.00	0.00	0.00	0.00			
71	C	411231.78	414667.35	0.80	180.00	0.00	0.00	0.00			
72	C	411208.68	414431.58	0.80	329.00	0.00	0.00	0.00			
73	C	411221.02	414426.35	0.80	341.00	0.00	0.00	0.00			
74	C	411229.48	414422.85	0.80	157.00	0.00	0.00	0.00			
75	C	411242.21	414420.89	0.80	158.00	0.00	0.00	0.00			
76	C	411261.44	414416.17	0.80	179.00	0.00	0.00	0.00			

Polar Diagrams

Luminaire A - IGNIS mini - 20 LEDs, MPE, 4000K, 0567mA, Opt2

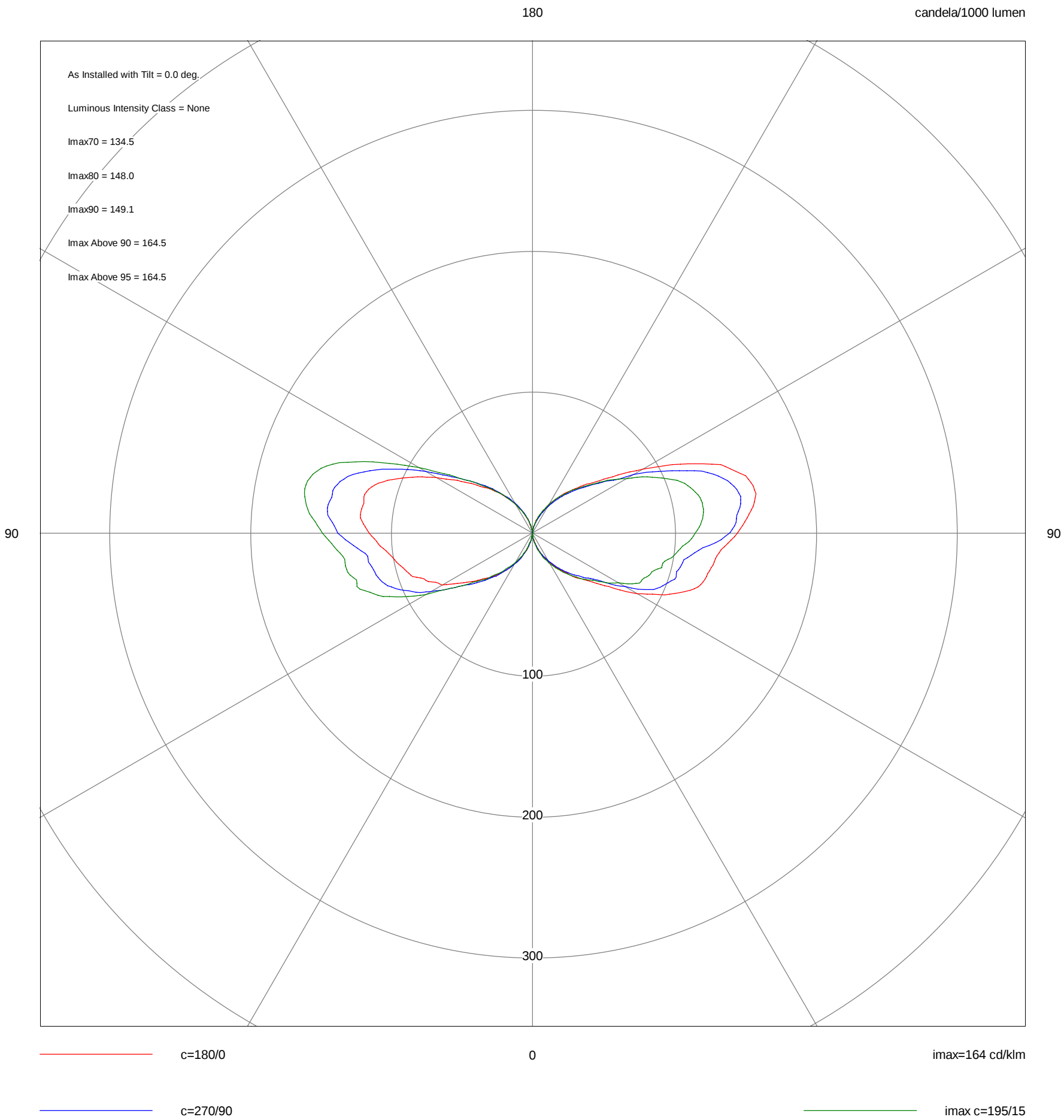


Luminaire B - IGNIS mini - 18 LEDs, MS1, 4000K, 0115mA, Opt2^{270/90}



Polar Diagrams Continued

Luminaire C N/A



Horizontal Illuminance (lux)

Grid 1: Combined Contour Lines

