



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT: LL6SRG-27K

Luminaire:

Report No:

Voltage(V): 120.11

Test No:

Current(A): 0.15

LampCAT:

Power (W): 17.7600

Lamp flux(lm): 1053.7

PF: 0.9857

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1053.71

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 58.71

Central intensity(cd): 467.475

Maximum intensity(cd): 479.790

Angle of maximum intensity: C=180.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=92.5

[C90/270]Total=92.5

Field angle(10%Imax): [C0/180]Total=148.1

[C90/270]Total=148.0

Maximum s/h(1/2): C0_180=1.25 C90_270=1.07

Maximum s/h(1/4): C0_180=1.33 C90_270=1.18

Up flux rate of lamp(%): 0.25%

Down flux rate of lamp(%): 98.71%

Up flux rate of LUM(%): -0.80%

Down flux rate of LUM(%): 99.75%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 85.405%

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 58%

Operator: Sam

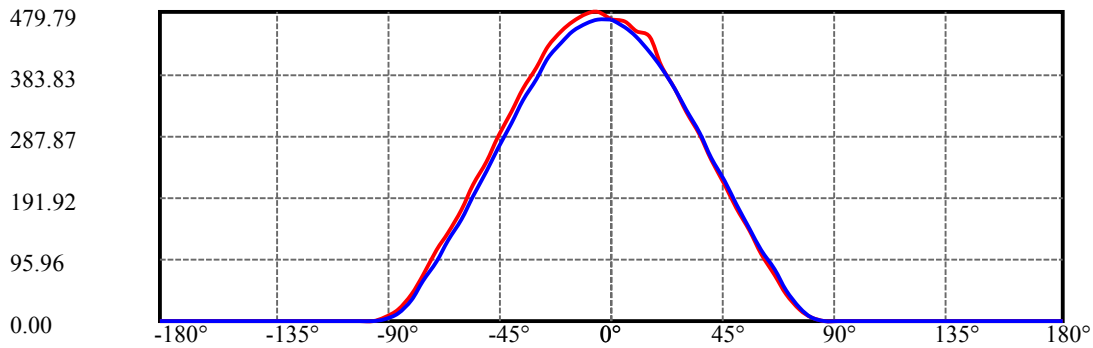
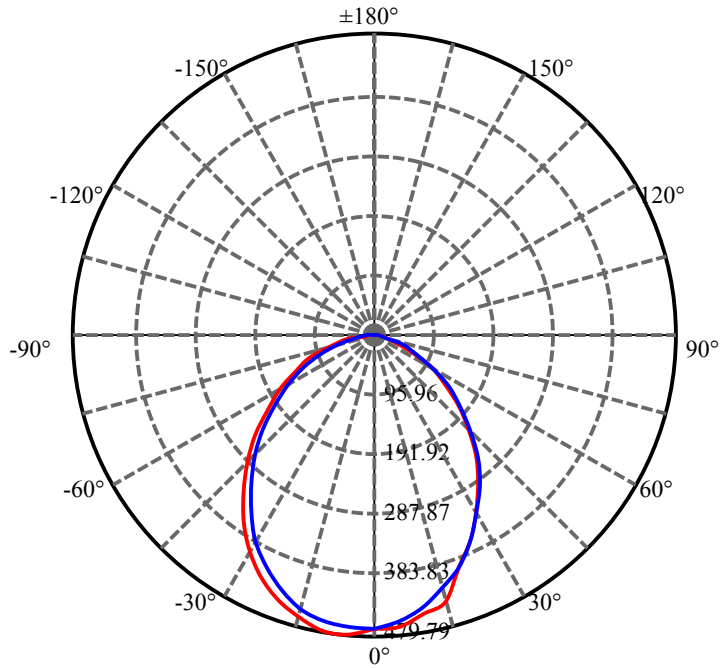
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	467.475	0.000	0	.000%	.000%
5.0	463.773	11.138	11.138	1.057%	1.057%
10.0	453.700	32.868	44.006	3.119%	4.176%
15.0	441.449	53.198	97.204	5.049%	9.225%
20.0	414.721	70.766	167.97	6.716%	15.941%
25.0	386.532	84.424	252.394	8.012%	23.953%
30.0	353.926	94.230	346.624	8.943%	32.896%
35.0	318.309	99.638	446.262	9.456%	42.352%
40.0	281.441	100.823	547.085	9.568%	51.920%
45.0	243.518	98.055	645.14	9.306%	61.226%
50.0	205.959	91.748	736.887	8.707%	69.933%
55.0	169.313	82.573	819.46	7.836%	77.769%
60.0	133.814	71.076	890.536	6.745%	84.515%
65.0	100.126	57.888	948.424	5.494%	90.008%
70.0	69.240	43.935	992.36	4.170%	94.178%
75.0	41.703	29.995	1022.355	2.847%	97.024%
80.0	21.268	17.618	1039.973	1.672%	98.697%
85.0	7.402	8.260	1048.232	.784%	99.480%
90.0	2.203	2.832	1051.064	.269%	99.749%
95.0	0.209	0.708	1051.772	.067%	99.816%
100.0	0.209	0.114	1051.886	.011%	99.827%
105.0	0.209	0.112	1051.998	.011%	99.838%
110.0	0.209	0.109	1052.107	.010%	99.848%
115.0	0.209	0.106	1052.213	.010%	99.858%
120.0	0.209	0.102	1052.315	.010%	99.868%
125.0	0.313	0.119	1052.434	.011%	99.879%
130.0	0.404	0.154	1052.588	.015%	99.894%
135.0	0.417	0.166	1052.754	.016%	99.909%
140.0	0.417	0.154	1052.908	.015%	99.924%
145.0	0.482	0.150	1053.059	.014%	99.938%
150.0	0.522	0.147	1053.205	.014%	99.952%
155.0	0.587	0.139	1053.344	.013%	99.965%
160.0	0.626	0.127	1053.47	.012%	99.977%
165.0	0.626	0.103	1053.574	.010%	99.987%
170.0	0.626	0.074	1053.648	.007%	99.994%
175.0	0.626	0.045	1053.693	.004%	99.999%
180.0	0.626	0.015	1053.708	.001%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	346.62	32.90%	32.90%
0-40	547.09	51.92%	51.92%
0-60	890.54	84.52%	84.51%
0-90	1051.06	99.75%	99.75%
0-120	1052.31	99.87%	99.87%
0-180	1053.71	100.00%	100.00%
60-90	231.60	21.98%	21.98%
90-120	4.08	0.39%	0.39%
90-130	4.36	0.41%	0.41%
90-150	4.97	0.47%	0.47%
90-180	5.46	0.52%	0.52%
0-56.65	842.97	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	44.01
10-20	123.96
20-30	178.65
30-40	200.46
40-50	189.80
50-60	153.65
60-70	101.82
70-80	47.61
80-90	11.09
90-100	0.82
100-110	0.22
110-120	0.21
120-130	0.27
130-140	0.32
140-150	0.30
150-160	0.27
160-170	0.18
170-180	0.04

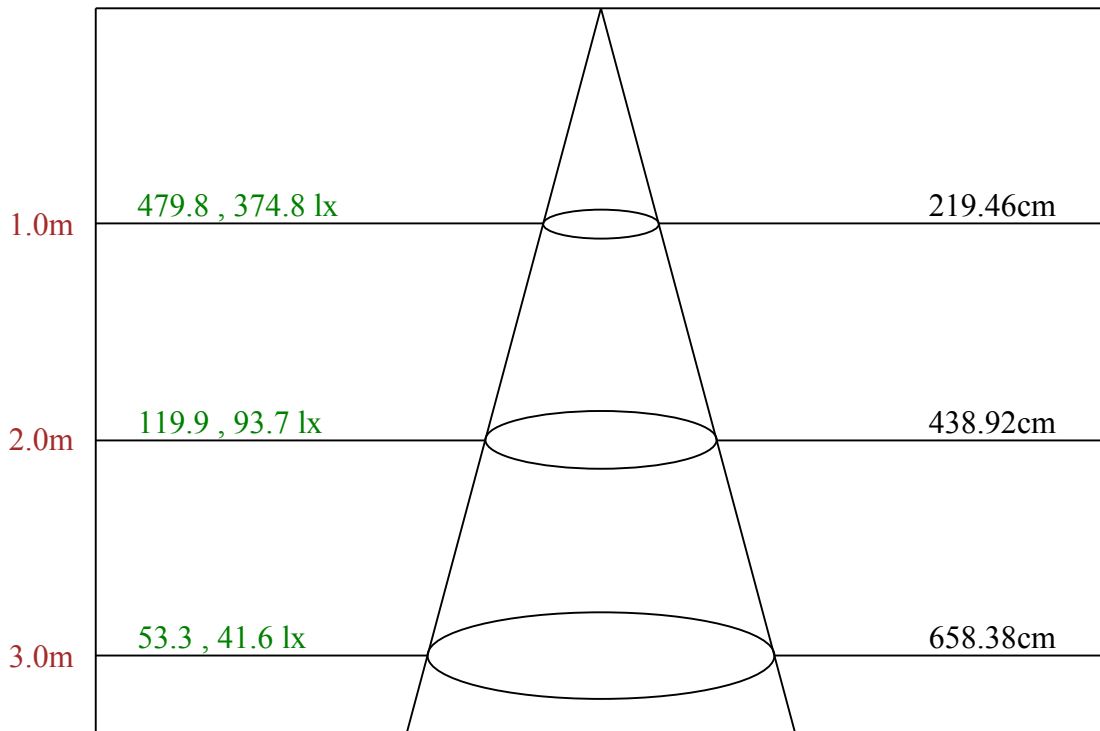


C0/C180: —

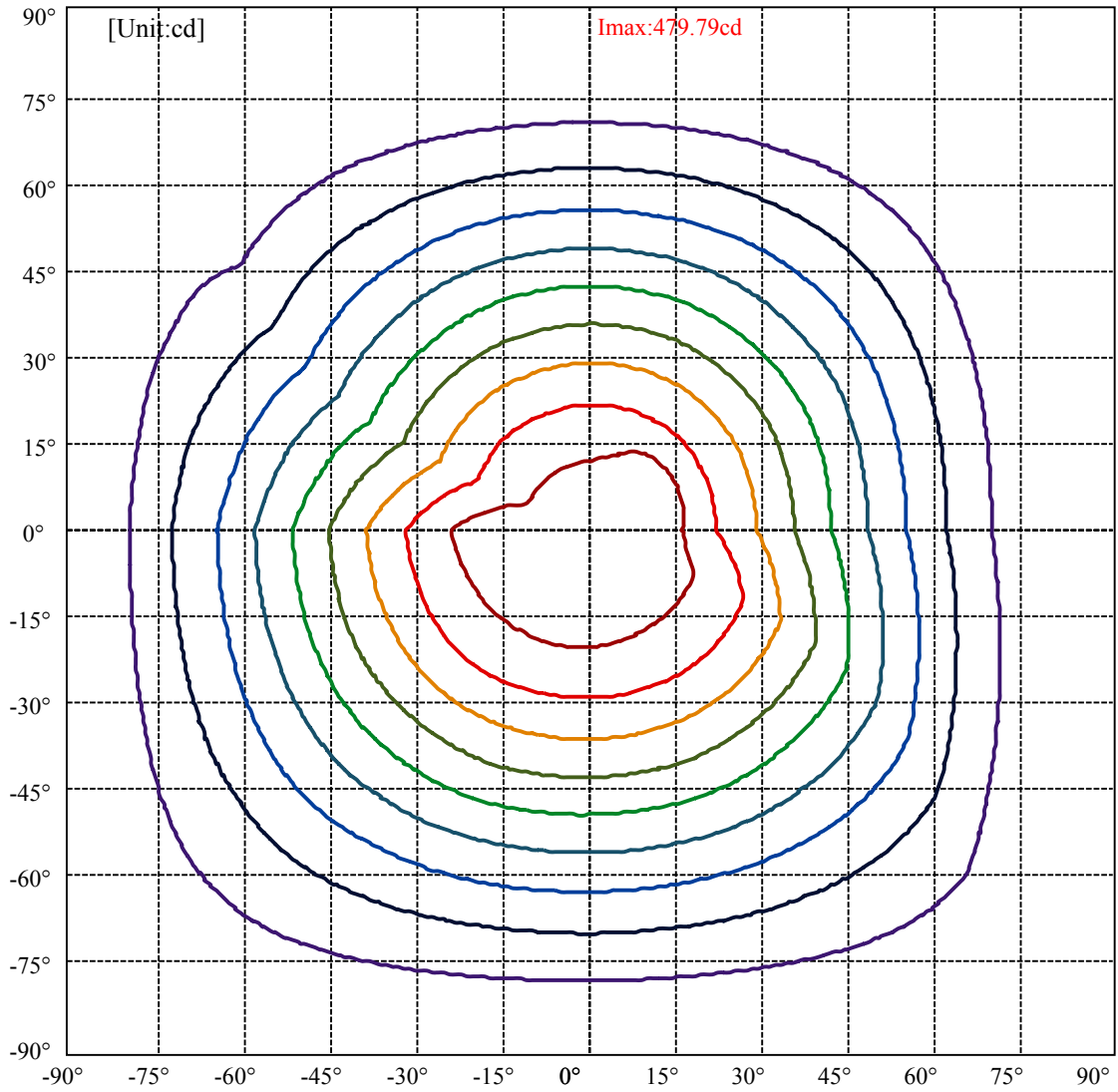
C90/C270: —

Field angle(10%Imax):C0/180Left:74.1 Right:74.0
:C90/270Left:72.7 Right:75.3

Beam Angle(50%Imax):C0/180Left:46.1 Right:46.4
:C90/270Left:44.7 Right:47.8



Max , Ave Beam angle of C180 plane 94.42

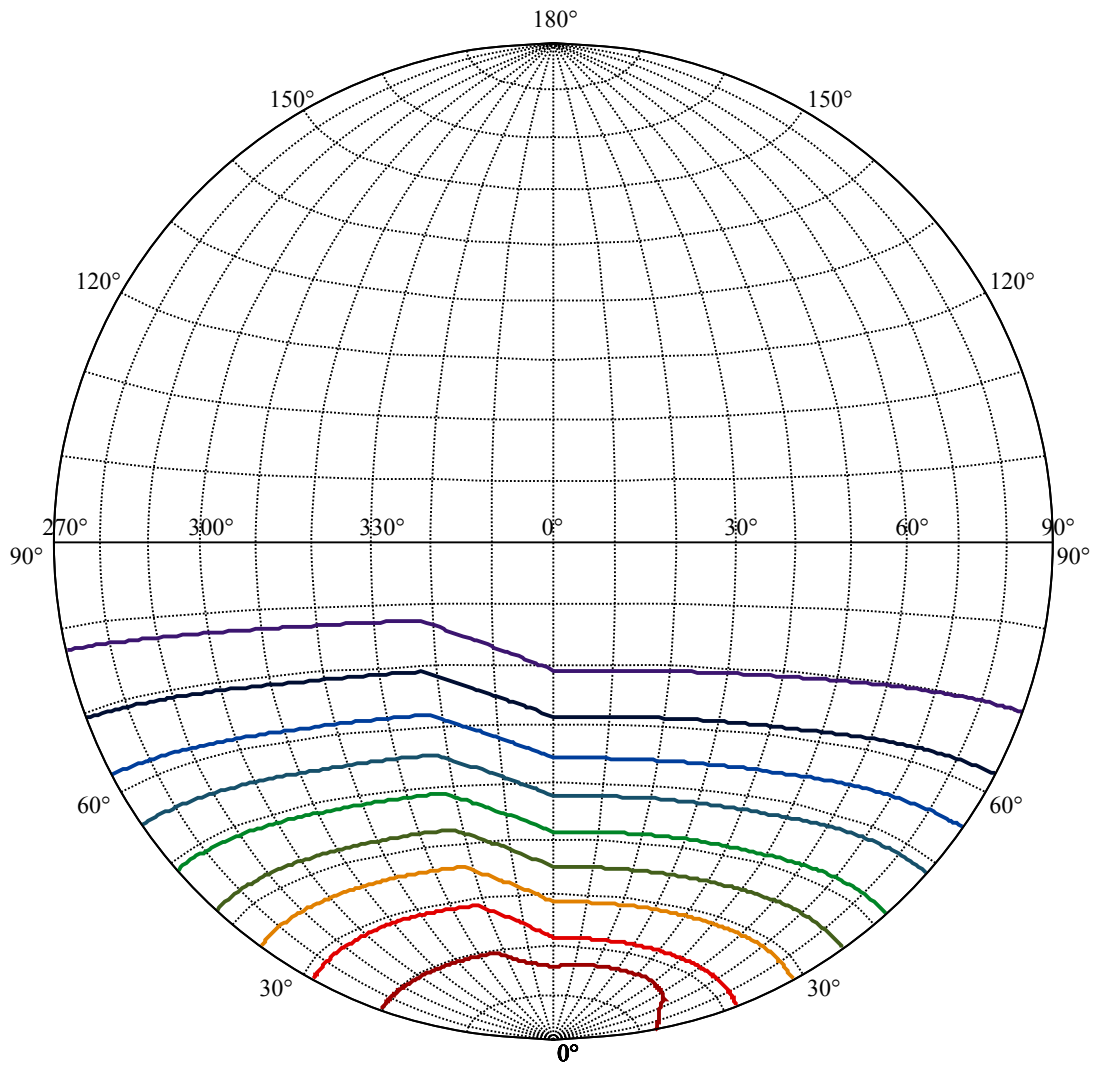


- (10%I_{max}) 47.979
- (20%I_{max}) 95.958
- (30%I_{max}) 143.937
- (40%I_{max}) 191.916
- (50%I_{max}) 239.895
- (60%I_{max}) 287.874
- (70%I_{max}) 335.853
- (80%I_{max}) 383.832
- (90%I_{max}) 431.811

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 58%

Operator: Sam












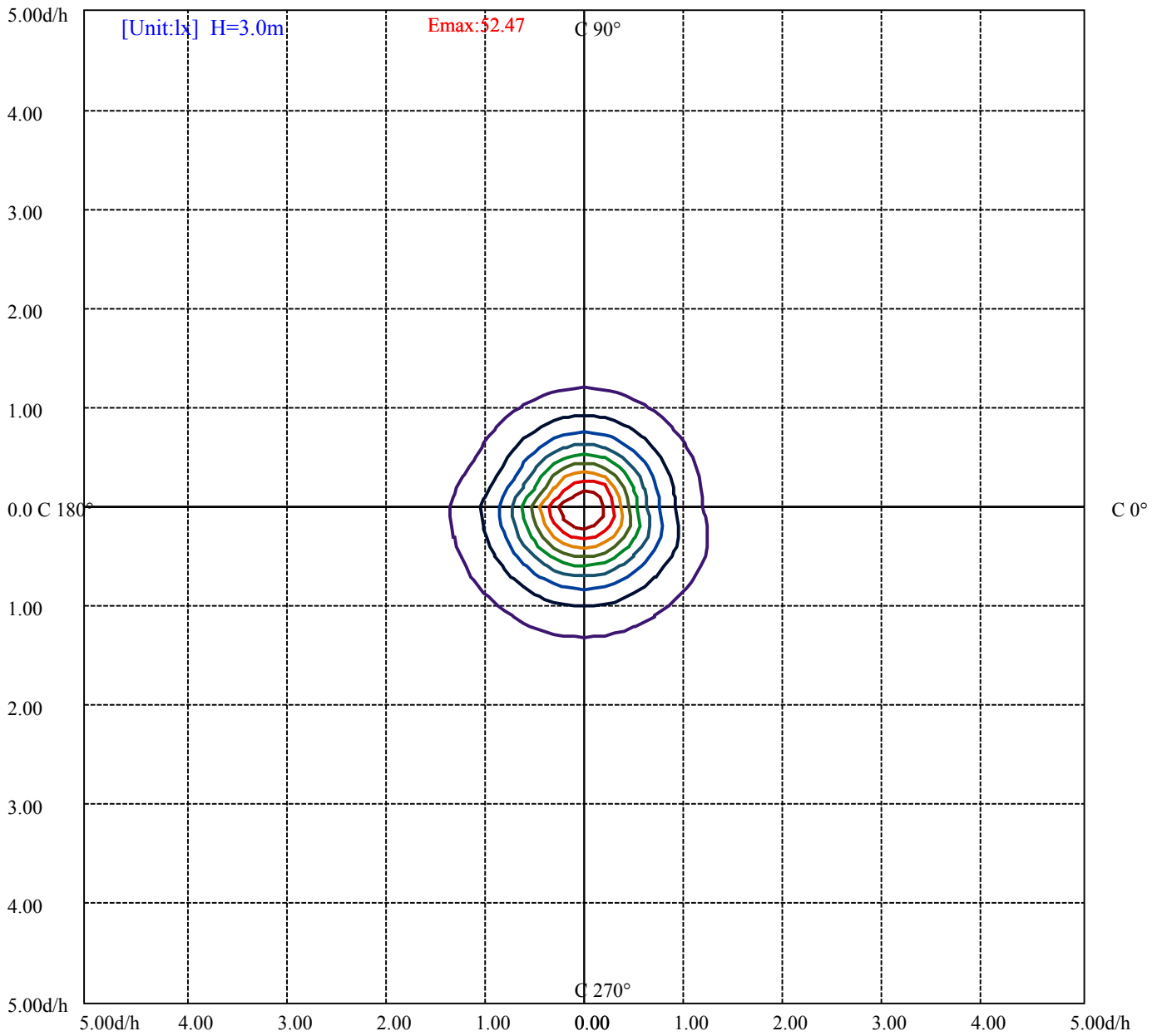
House

[Unit:cd]

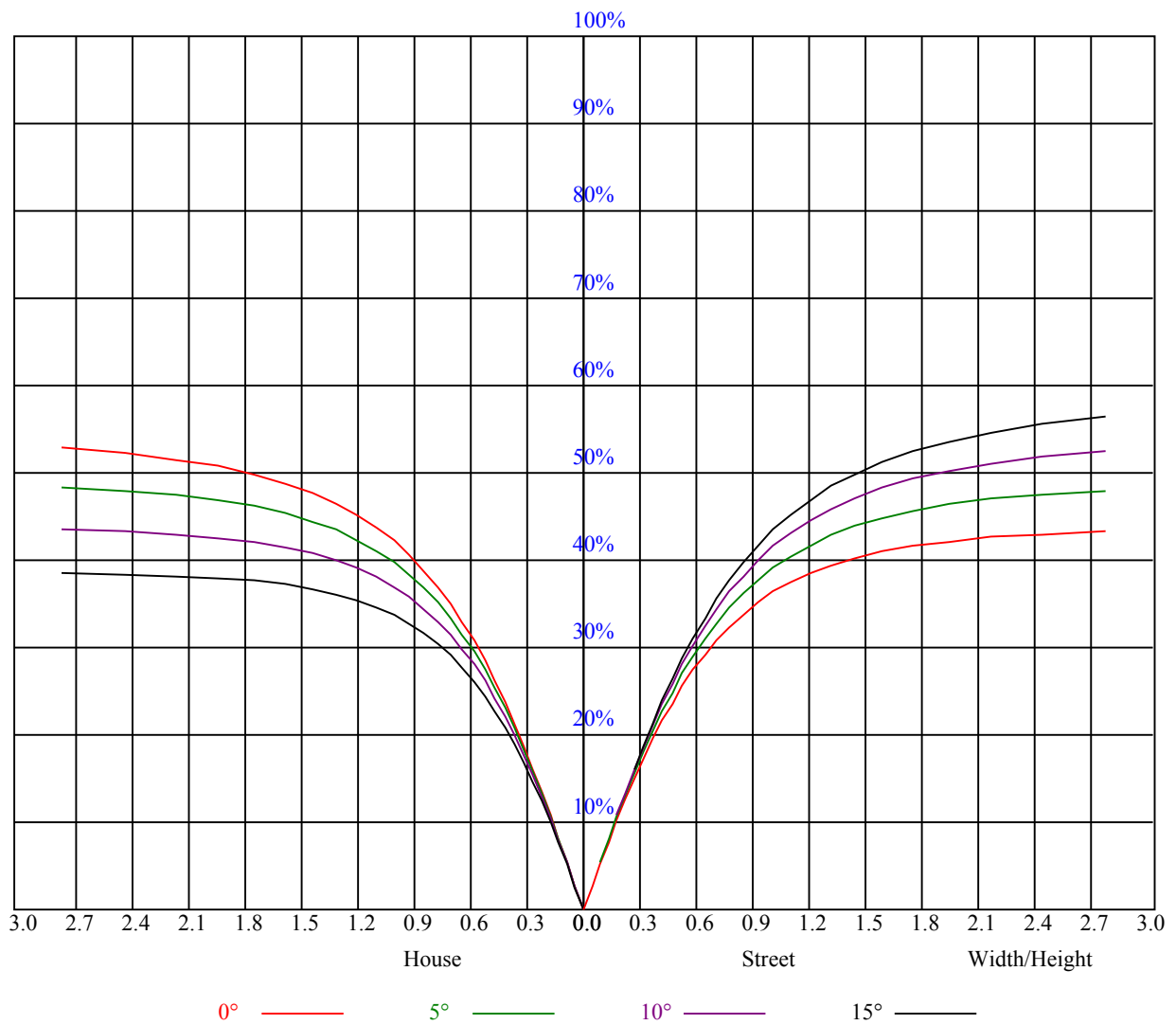
Road

Imax:479.79

(10%Imax) 47.979	
(20%Imax) 95.958	
(30%Imax) 143.937	
(40%Imax) 191.916	
(50%Imax) 239.895	
(60%Imax) 287.874	
(70%Imax) 335.853	
(80%Imax) 383.832	
(90%Imax) 431.811	



(10%Emax) 5.246811	—
(20%Emax) 10.49361	—
(30%Emax) 15.74044	—
(40%Emax) 20.98722	—
(50%Emax) 26.234	—
(60%Emax) 31.48089	—
(70%Emax) 36.72767	—
(80%Emax) 41.97444	—
(90%Emax) 47.22122	—



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	467.48	464.99	449.14	440.38	394.93	361.98	325.70	288.58	250.63
22.5	467.48	462.28	446.22	450.81	395.55	362.61	326.95	289.63	252.72
45.0	467.48	459.77	444.13	450.18	395.34	363.23	326.53	289.21	250.84
67.5	467.48	458.31	443.72	429.12	395.34	361.77	327.99	291.09	253.14
90.0	467.48	456.85	441.22	416.40	393.47	361.77	326.74	290.67	254.39
112.5	467.48	454.98	439.34	416.19	392.21	360.31	325.70	289.63	253.14
135.0	467.48	453.73	438.92	416.19	392.63	359.48	325.49	287.75	249.59
157.5	467.48	453.52	438.50	416.40	390.34	358.23	323.41	288.17	250.84
180.0	467.48	479.79	476.45	466.03	449.14	425.99	394.30	360.52	324.24
202.5	467.48	474.37	469.99	458.94	442.05	419.11	388.46	353.85	317.15
225.0	467.48	471.03	466.65	455.19	437.46	413.48	385.96	350.30	312.15
247.5	467.48	469.16	463.94	452.27	434.54	410.15	379.29	345.09	309.64
270.0	467.48	467.70	462.48	451.02	432.46	407.02	376.16	342.17	306.10
292.5	467.48	464.99	460.19	448.30	430.16	406.39	376.16	341.75	305.47
315.0	467.48	464.15	458.94	447.68	429.75	405.98	377.62	342.17	305.68
337.5	467.48	464.78	459.36	448.10	430.16	407.02	376.37	342.38	307.35
360.0	467.48	464.99	449.14	440.38	394.93	361.98	325.70	288.58	250.63
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	212.06	175.57	139.29	104.67	71.31	42.33	17.10	5.42	0.21
22.5	214.14	176.19	139.50	105.72	72.77	43.16	19.18	6.46	0.21
45.0	212.48	174.94	139.50	105.09	72.98	44.00	21.27	6.67	0.42
67.5	216.23	178.91	142.21	108.64	75.90	46.29	21.69	7.09	0.83
90.0	217.06	180.36	144.29	110.51	79.03	48.38	22.31	7.09	1.04
112.5	215.19	177.86	143.25	108.84	76.32	46.71	22.10	7.51	1.04
135.0	211.85	175.99	139.91	105.72	74.02	46.08	22.31	7.30	0.83
157.5	213.10	175.78	139.70	105.30	74.23	45.04	20.85	7.09	0.63
180.0	286.08	247.92	210.60	173.07	136.79	109.68	71.73	42.75	18.14
202.5	280.24	241.25	202.47	166.19	130.11	95.71	65.89	38.37	15.64
225.0	272.94	235.41	197.25	158.89	124.27	91.75	61.51	35.86	15.01
247.5	272.11	233.74	195.59	159.51	124.07	90.50	61.09	34.20	12.93
270.0	267.73	231.66	195.17	158.68	124.69	91.33	61.51	33.99	12.09
292.5	268.15	229.78	193.08	156.39	121.36	89.04	59.22	32.95	12.72
315.0	266.90	228.32	192.04	155.34	120.31	87.37	58.80	33.15	13.14
337.5	270.03	231.66	195.17	158.47	123.86	90.50	60.68	34.41	13.55
360.0	212.06	175.57	139.29	104.67	71.31	42.33	17.10	5.42	0.21
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
22.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
45.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
67.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
90.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
112.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
135.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
157.5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42
180.0	5.84	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
202.5	5.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
225.0	4.38	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
247.5	3.75	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
270.0	3.34	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
292.5	3.55	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
315.0	3.55	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
337.5	4.17	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42
360.0	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.42	0.42

LL6SRG-27K

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63
22.5	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63	0.63
45.0	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63
67.5	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63	0.63
90.0	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63
112.5	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63	0.63
135.0	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63	0.63
157.5	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63	0.63
180.0	0.42	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63
202.5	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63
225.0	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63
247.5	0.42	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63
270.0	0.42	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63
292.5	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63
315.0	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63
337.5	0.42	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63
360.0	0.42	0.42	0.42	0.63	0.63	0.63	0.63	0.63	0.63
C/γ(°)	180.0								
0.0	0.63								
22.5	0.63								
45.0	0.63								
67.5	0.63								
90.0	0.63								
112.5	0.63								
135.0	0.63								
157.5	0.63								
180.0	0.63								
202.5	0.63								
225.0	0.63								
247.5	0.63								
270.0	0.63								
292.5	0.63								
315.0	0.63								
337.5	0.63								
360.0	0.63								