



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingtest.com

Tel:0755-29351191 Fax:0755-29351120

Address:1 F,No.1 building,Meibaohu industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT: LL3G-41K

Luminaire:

Report No:

Voltage(V): 120.07

Test No:

Current(A): 0.0612

LampCAT:

Power (W): 7.3410

Lamp flux(lm): 632.5

PF: 0.9996

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 632.48

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 86.16

Central intensity(cd): 1102.692

Maximum intensity(cd): 1151.000

Angle of maximum intensity: C=270.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=44.7

[C90/270]Total=44.2

Field angle(10%Imax): [C0/180]Total=68.8

[C90/270]Total=69.4

Maximum s/h(1/2): C0_180=0.73 C90_270=0.75

Maximum s/h(1/4): C0_180=0.69 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 100.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.852%

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

Date:
Humidity(%): 58%

Operator: Sam

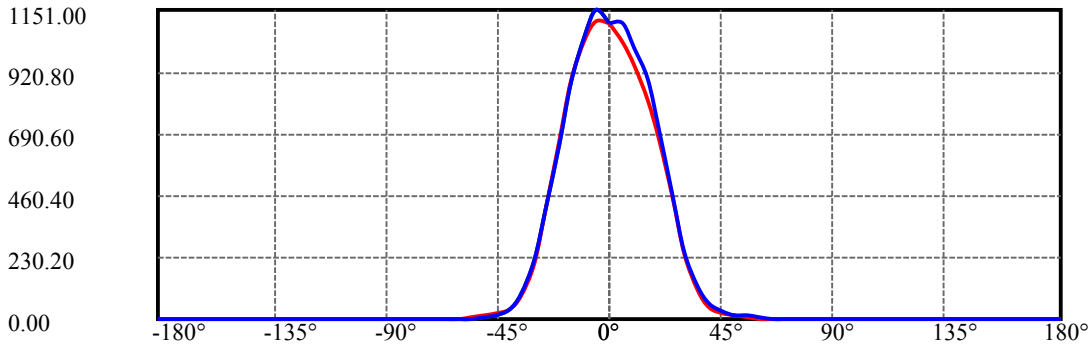
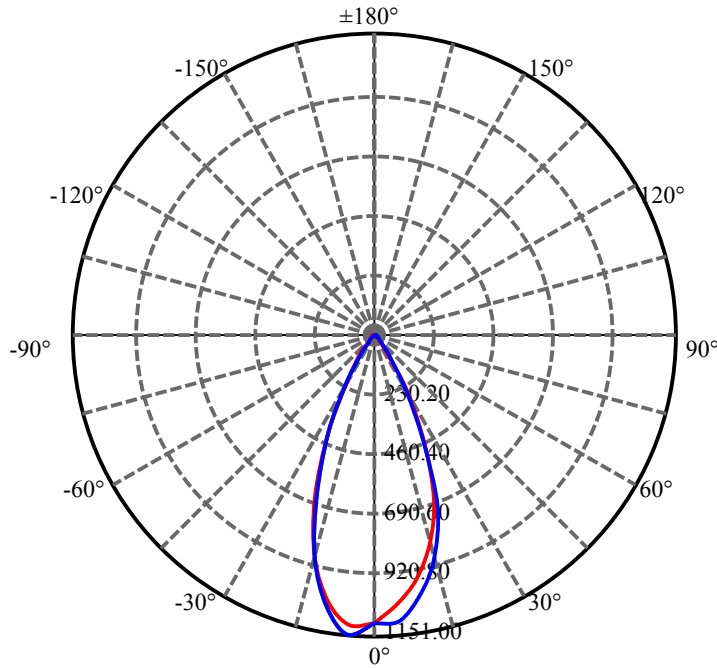
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1102.692	0.000	0	.000%	.000%
5.0	1080.863	26.104	26.104	4.127%	4.127%
10.0	999.250	74.412	100.516	11.765%	15.892%
15.0	858.659	110.210	210.726	17.425%	33.318%
20.0	664.669	125.544	336.27	19.849%	53.167%
25.0	430.509	114.864	451.133	18.161%	71.328%
30.0	228.708	83.424	534.558	13.190%	84.518%
35.0	101.506	48.626	583.184	7.688%	92.207%
40.0	43.006	24.111	607.295	3.812%	96.019%
45.0	20.053	11.676	618.971	1.846%	97.865%
50.0	11.445	6.365	625.335	1.006%	98.871%
55.0	6.822	3.972	629.307	.628%	99.499%
60.0	2.837	2.233	631.54	.353%	99.852%
65.0	0.494	0.810	632.35	.128%	99.980%
70.0	0.000	0.125	632.475	.020%	100.000%
75.0	0.000	0.000	632.475	.000%	100.000%
80.0	0.000	0.000	632.475	.000%	100.000%
85.0	0.000	0.000	632.475	.000%	100.000%
90.0	0.000	0.000	632.475	.000%	100.000%
95.0	0.000	0.000	632.475	.000%	100.000%
100.0	0.000	0.000	632.475	.000%	100.000%
105.0	0.000	0.000	632.475	.000%	100.000%
110.0	0.000	0.000	632.475	.000%	100.000%
115.0	0.000	0.000	632.475	.000%	100.000%
120.0	0.000	0.000	632.475	.000%	100.000%
125.0	0.000	0.000	632.475	.000%	100.000%
130.0	0.000	0.000	632.475	.000%	100.000%
135.0	0.000	0.000	632.475	.000%	100.000%
140.0	0.000	0.000	632.475	.000%	100.000%
145.0	0.000	0.000	632.475	.000%	100.000%
150.0	0.000	0.000	632.475	.000%	100.000%
155.0	0.000	0.000	632.475	.000%	100.000%
160.0	0.000	0.000	632.475	.000%	100.000%
165.0	0.000	0.000	632.475	.000%	100.000%
170.0	0.000	0.000	632.475	.000%	100.000%
175.0	0.000	0.000	632.475	.000%	100.000%
180.0	0.000	0.000	632.475	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	534.56	84.52%	84.52%
0-40	607.30	96.02%	96.02%
0-60	631.54	99.85%	99.85%
0-90	632.48	100.00%	100.00%
0-120	632.48	100.00%	100.00%
0-180	632.48	100.00%	100.00%
60-90	3.17	0.50%	0.50%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.29	505.98	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	100.52
10-20	235.75
20-30	198.29
30-40	72.74
40-50	18.04
50-60	6.20
60-70	0.94
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C270(Max): ———

C0/C180: ———

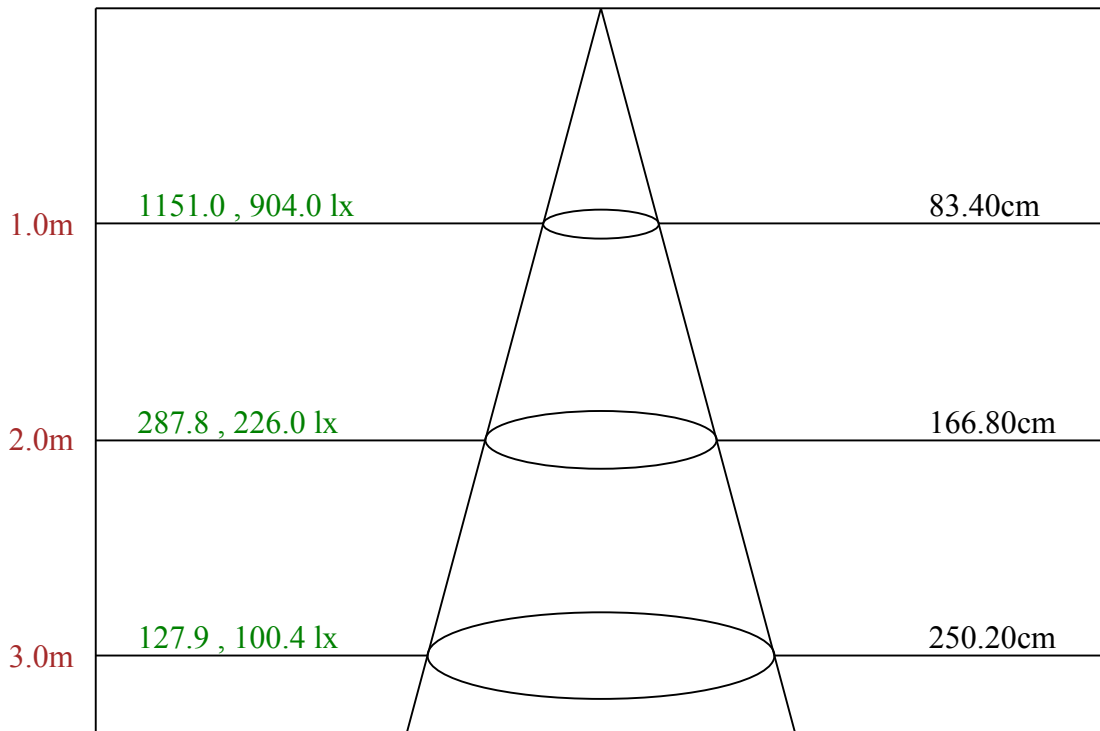
C90/C270: ———

Field angle(10%Imax):C0/180Left:28.9 Right:39.9

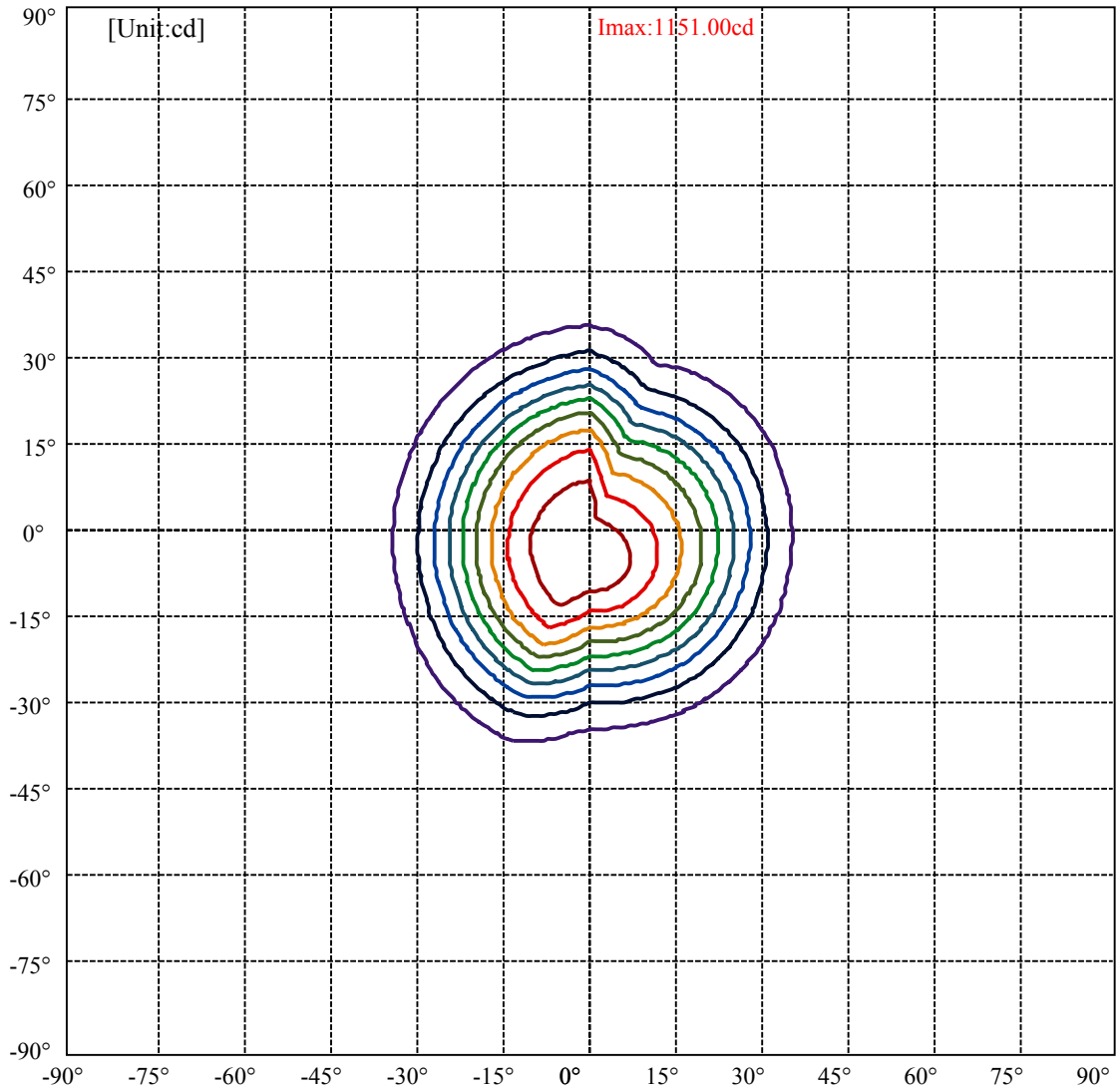
:C90/270Left:29.1 Right:40.3

Beam Angle(50%Imax):C0/180Left:17.2 Right:27.5

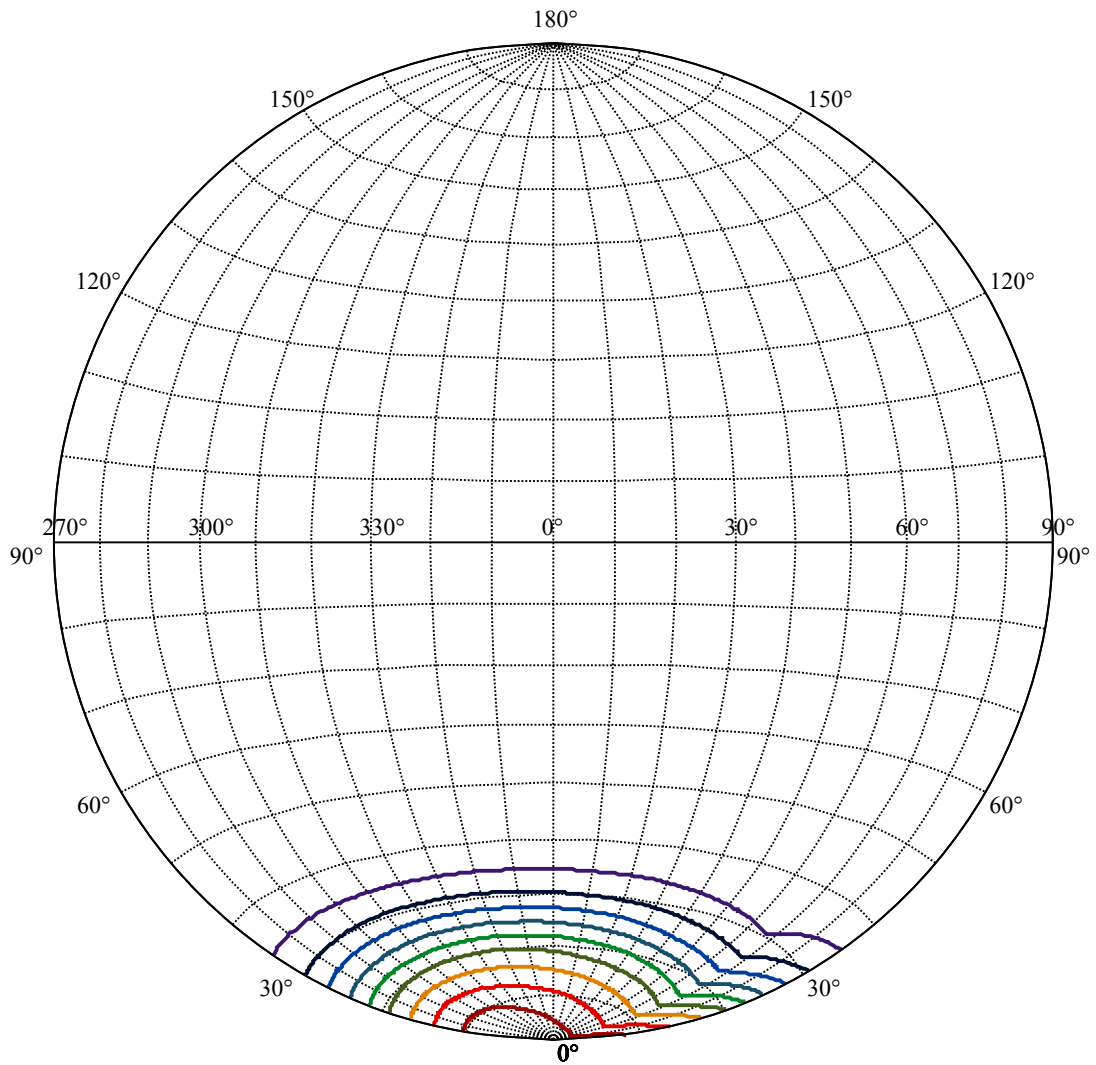
:C90/270Left:16.6 Right:27.6



Max , Ave Beam angle of C270 plane 45.27



(10%Imax) 115.1	—
(20%Imax) 230.2	—
(30%Imax) 345.3	—
(40%Imax) 460.4	—
(50%Imax) 575.5	—
(60%Imax) 690.6	—
(70%Imax) 805.7	—
(80%Imax) 920.8	—
(90%Imax) 1035.9	—



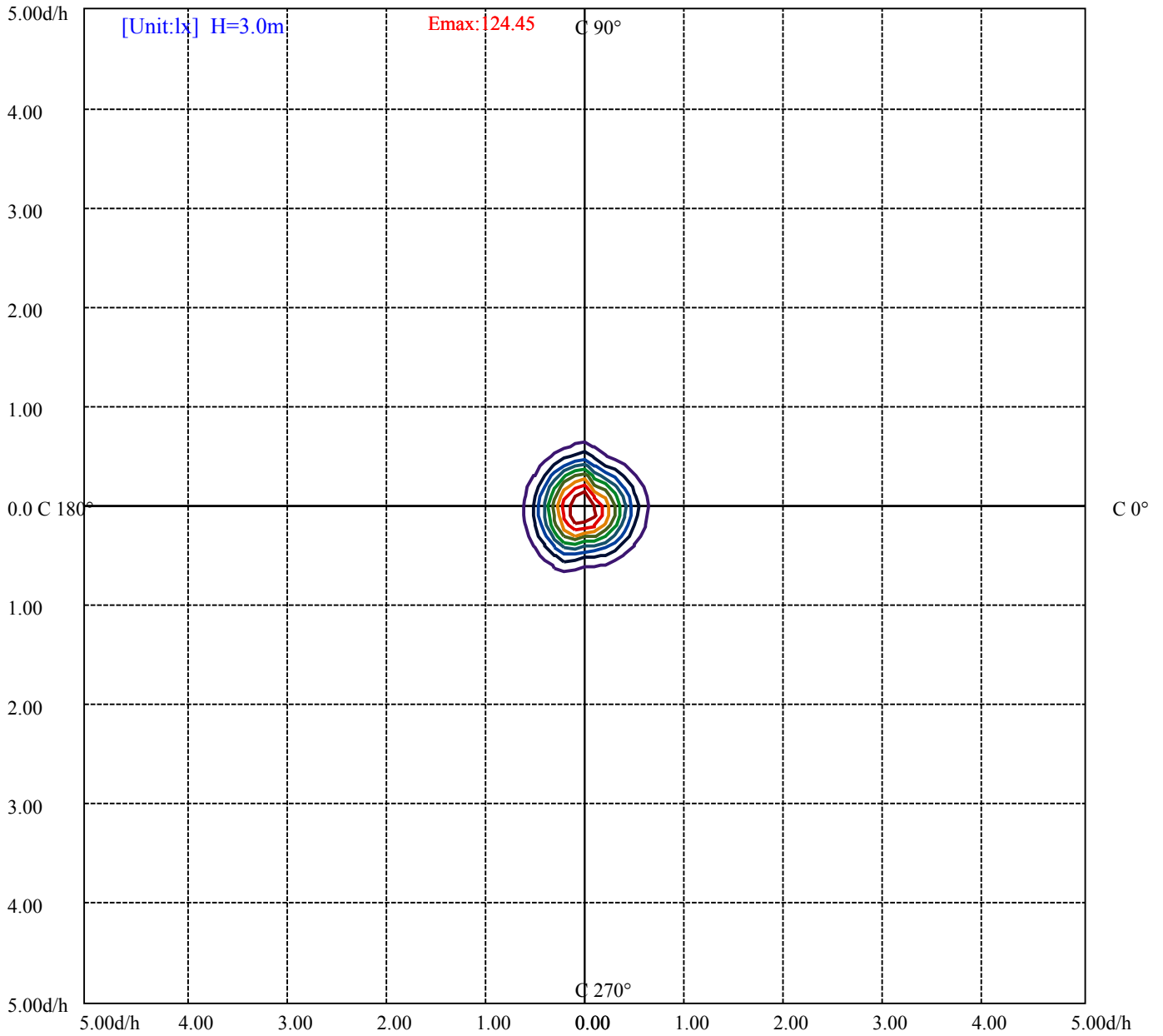
House

[Unit:cd]

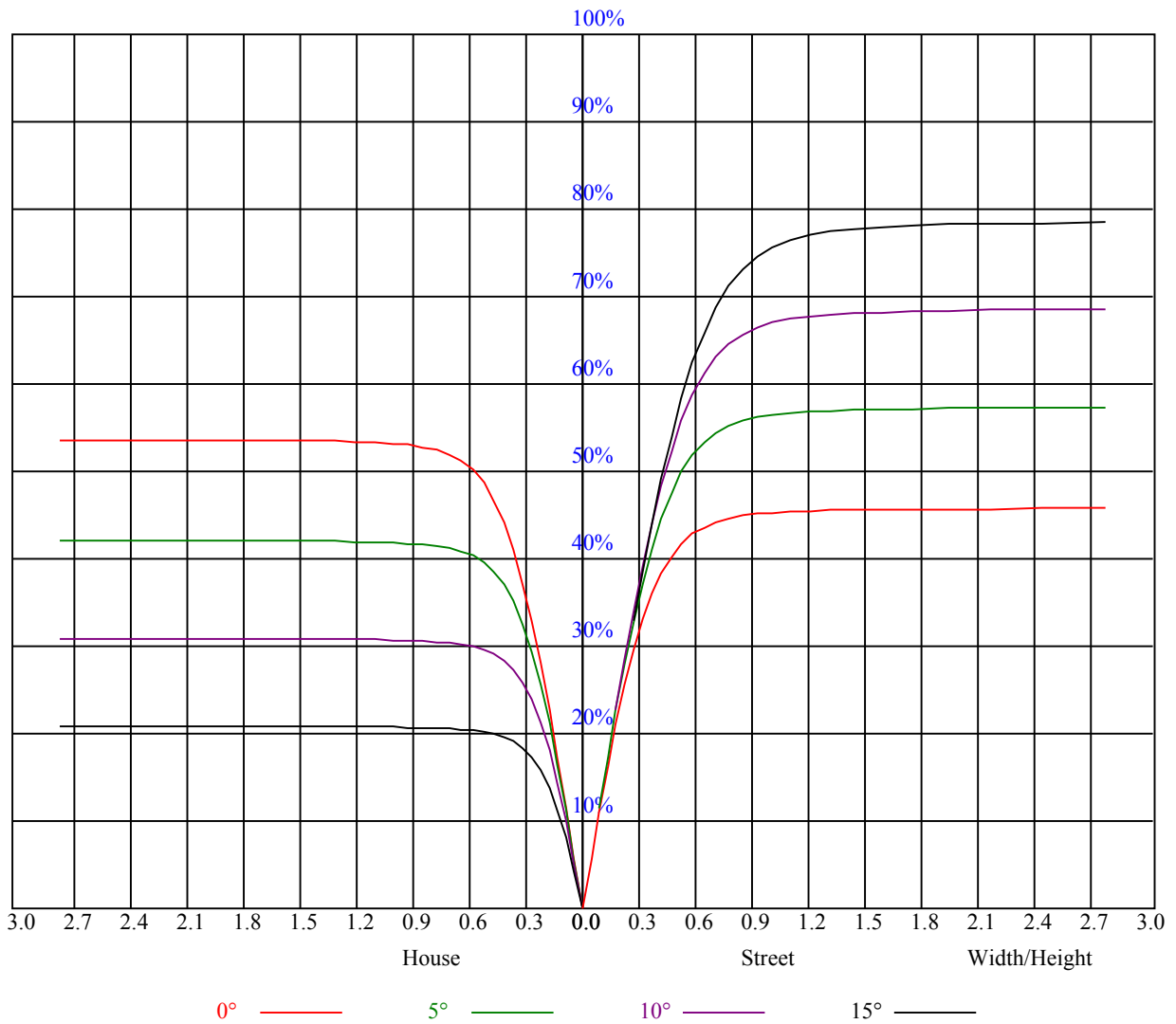
Road

I_{max}:1151.00

(10%I _{max}) 115.1	—
(20%I _{max}) 230.2	—
(30%I _{max}) 345.3	—
(40%I _{max}) 460.4	—
(50%I _{max}) 575.5	—
(60%I _{max}) 690.6	—
(70%I _{max}) 805.7	—
(80%I _{max}) 920.8	—
(90%I _{max}) 1035.9	—



- (10%E_{max}) 12.44456
- (20%E_{max}) 24.88922
- (30%E_{max}) 37.33378
- (40%E_{max}) 49.77834
- (50%E_{max}) 62.223
- (60%E_{max}) 74.66756
- (70%E_{max}) 87.11211
- (80%E_{max}) 99.55678
- (90%E_{max}) 112.0011



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	1102.69	1028.58	941.87	816.90	661.32	449.64	243.05	107.88	44.12
22.5	1102.69	995.43	898.51	768.44	602.66	396.08	212.45	95.13	39.02
45.0	1102.69	972.47	862.80	714.88	523.60	319.57	163.99	72.18	33.92
67.5	1102.69	959.72	829.65	646.02	444.54	258.36	120.63	56.87	28.82
90.0	1102.69	1099.99	1005.63	890.86	702.13	457.29	250.71	118.08	59.43
112.5	1102.69	1099.99	1003.08	873.01	666.42	413.93	209.90	97.68	46.67
135.0	1102.69	1099.99	1005.63	857.70	638.37	388.43	186.95	77.28	39.02
157.5	1102.69	1102.54	1015.83	860.25	646.02	388.43	184.40	74.73	36.47
180.0	1102.69	1107.64	1033.68	883.21	663.87	411.38	207.35	84.93	36.47
202.5	1102.69	1115.29	1061.74	921.46	714.88	459.84	240.50	100.23	41.57
225.0	1102.69	1120.40	1089.79	967.37	786.29	531.25	301.71	138.49	51.77
247.5	1102.69	1125.50	1120.40	1020.93	862.80	617.96	370.57	184.40	79.83
270.0	1102.69	1151.00	1051.53	880.66	653.67	413.93	220.10	92.58	33.92
292.5	1102.69	1138.25	1051.53	893.41	679.17	439.44	237.95	102.78	36.47
315.0	1102.69	1107.64	1028.58	885.76	694.48	470.04	253.26	107.88	39.02
337.5	1102.69	1069.39	987.77	857.70	694.48	472.59	255.81	112.98	41.57
360.0	1102.69	1028.58	941.87	816.90	661.32	449.64	243.05	107.88	44.12
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	18.62	13.52	5.87	0.77	0.00	0.00	0.00	0.00	0.00
22.5	18.62	10.97	5.87	0.77	0.00	0.00	0.00	0.00	0.00
45.0	16.07	8.42	5.87	0.77	0.00	0.00	0.00	0.00	0.00
67.5	13.52	5.87	3.32	0.77	0.00	0.00	0.00	0.00	0.00
90.0	31.37	16.07	10.97	5.87	0.77	0.00	0.00	0.00	0.00
112.5	21.17	13.52	8.42	5.87	0.77	0.00	0.00	0.00	0.00
135.0	18.62	10.97	8.42	3.32	0.00	0.00	0.00	0.00	0.00
157.5	18.62	10.97	5.87	3.32	0.77	0.00	0.00	0.00	0.00
180.0	18.62	13.52	5.87	3.32	0.77	0.00	0.00	0.00	0.00
202.5	21.17	13.52	8.42	3.32	0.77	0.00	0.00	0.00	0.00
225.0	23.72	13.52	8.42	5.87	0.77	0.00	0.00	0.00	0.00
247.5	28.82	16.07	10.97	5.87	3.32	0.00	0.00	0.00	0.00
270.0	16.07	8.42	3.32	0.77	0.00	0.00	0.00	0.00	0.00
292.5	18.62	8.42	5.87	3.32	0.00	0.00	0.00	0.00	0.00
315.0	18.62	8.42	5.87	0.77	0.00	0.00	0.00	0.00	0.00
337.5	18.62	10.97	5.87	0.77	0.00	0.00	0.00	0.00	0.00
360.0	18.62	13.52	5.87	0.77	0.00	0.00	0.00	0.00	0.00
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LL3G-41K

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	180.0								
0.0	0.00								
22.5	0.00								
45.0	0.00								
67.5	0.00								
90.0	0.00								
112.5	0.00								
135.0	0.00								
157.5	0.00								
180.0	0.00								
202.5	0.00								
225.0	0.00								
247.5	0.00								
270.0	0.00								
292.5	0.00								
315.0	0.00								
337.5	0.00								
360.0	0.00								