



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Address:1 F,No.1 building,Meibaoh industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT: LL3G-30K

Luminaire:

Report No:

Voltage(V): 120.04

Test No:

Current(A): 0.0624

LampCAT:

Power (W): 7.4190

Lamp flux(lm): 613.4

PF: 0.9895

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 613.41

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 82.68

Central intensity(cd): 1042.311

Maximum intensity(cd): 1090.983

Angle of maximum intensity: C=90.0 γ =10.0

Beam Angle(50%Imax): [C0/180]Total=44.8

[C90/270]Total=44.6

Field angle(10%Imax): [C0/180]Total=68.1

[C90/270]Total=68.4

Maximum s/h(1/2): C0_180=0.86 C90_270=0.91

Maximum s/h(1/4): C0_180=0.79 C90_270=0.83

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 : 99.889%

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

Date:
Humidity(%): 58%

Operator: Sam

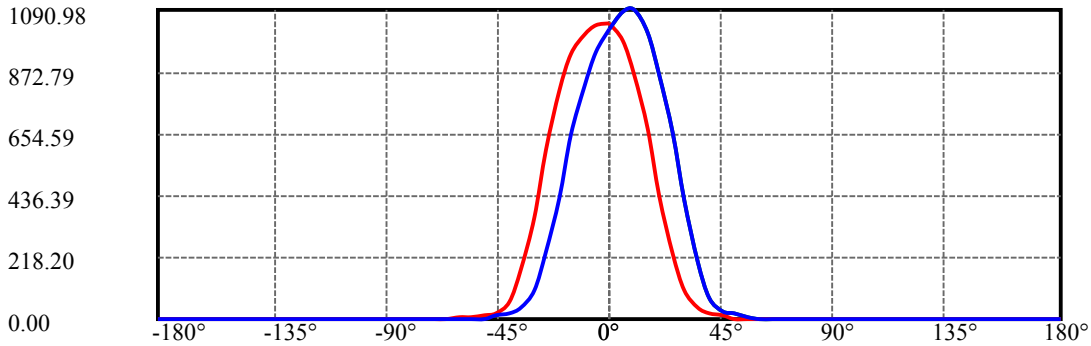
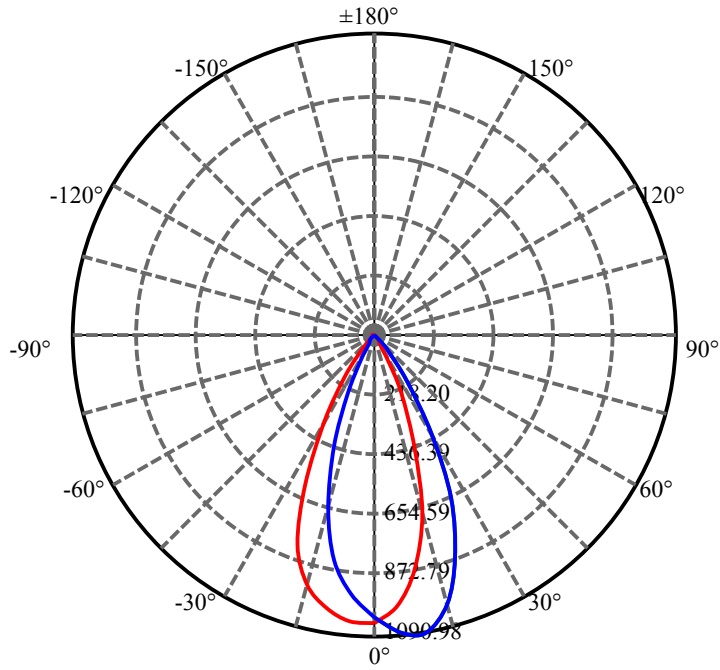
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1038.660	0.000	0	.000%	.000%
5.0	1014.020	24.539	24.539	4.000%	4.000%
10.0	941.621	69.959	94.499	11.405%	15.405%
15.0	813.096	104.089	198.587	16.969%	32.374%
20.0	632.554	119.142	317.729	19.423%	51.797%
25.0	425.089	110.927	428.656	18.084%	69.881%
30.0	239.983	84.165	512.822	13.721%	83.602%
35.0	112.067	51.842	564.664	8.451%	92.053%
40.0	43.318	25.925	590.589	4.226%	96.280%
45.0	18.221	11.395	601.983	1.858%	98.137%
50.0	10.160	5.735	607.718	.935%	99.072%
55.0	5.095	3.317	611.035	.541%	99.613%
60.0	2.236	1.695	612.73	.276%	99.889%
65.0	0.274	0.610	613.34	.099%	99.989%
70.0	0.000	0.069	613.409	.011%	100.000%
75.0	0.000	0.000	613.409	.000%	100.000%
80.0	0.000	0.000	613.409	.000%	100.000%
85.0	0.000	0.000	613.409	.000%	100.000%
90.0	0.000	0.000	613.409	.000%	100.000%
95.0	0.000	0.000	613.409	.000%	100.000%
100.0	0.000	0.000	613.409	.000%	100.000%
105.0	0.000	0.000	613.409	.000%	100.000%
110.0	0.000	0.000	613.409	.000%	100.000%
115.0	0.000	0.000	613.409	.000%	100.000%
120.0	0.000	0.000	613.409	.000%	100.000%
125.0	0.000	0.000	613.409	.000%	100.000%
130.0	0.000	0.000	613.409	.000%	100.000%
135.0	0.000	0.000	613.409	.000%	100.000%
140.0	0.000	0.000	613.409	.000%	100.000%
145.0	0.000	0.000	613.409	.000%	100.000%
150.0	0.000	0.000	613.409	.000%	100.000%
155.0	0.000	0.000	613.409	.000%	100.000%
160.0	0.000	0.000	613.409	.000%	100.000%
165.0	0.000	0.000	613.409	.000%	100.000%
170.0	0.000	0.000	613.409	.000%	100.000%
175.0	0.000	0.000	613.409	.000%	100.000%
180.0	0.000	0.000	613.409	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	512.82	83.60%	83.60%
0-40	590.59	96.28%	96.28%
0-60	612.73	99.89%	99.89%
0-90	613.41	100.00%	100.00%
0-120	613.41	100.00%	100.00%
0-180	613.41	100.00%	100.00%
60-90	2.37	0.39%	0.39%
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%
0-28.69	490.73	80.00%	80.00%

ZONAL LUMEN SUMMARY

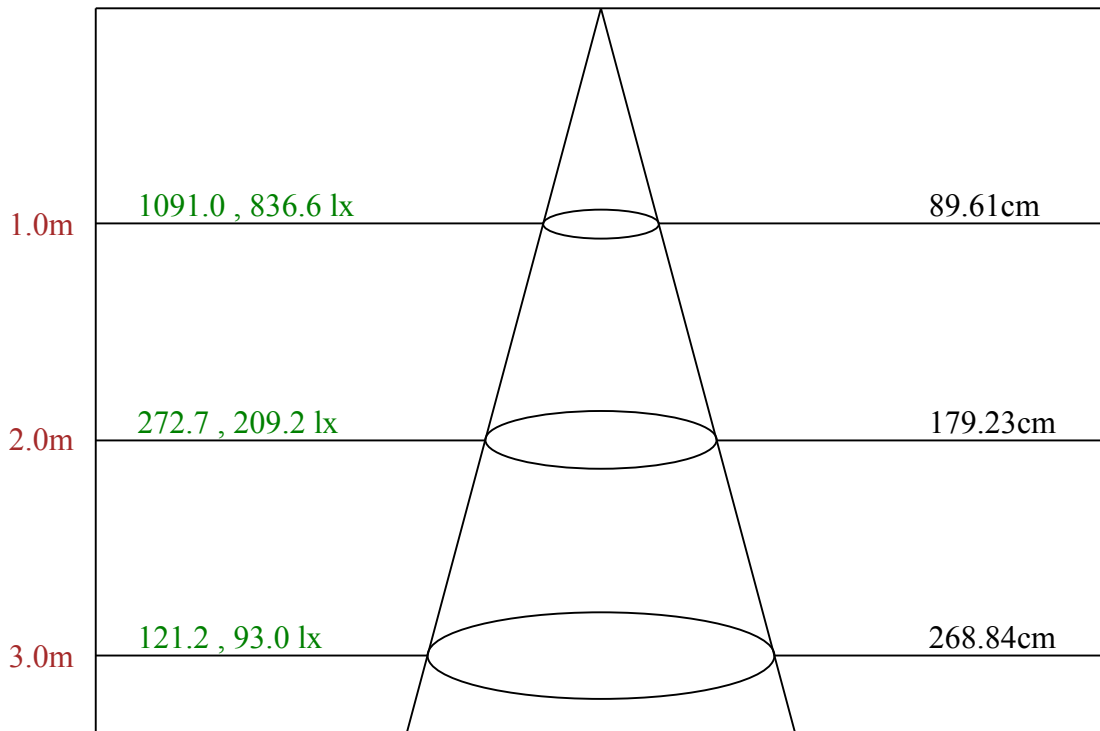
0-10	94.50
10-20	223.23
20-30	195.09
30-40	77.77
40-50	17.13
50-60	5.01
60-70	0.68
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



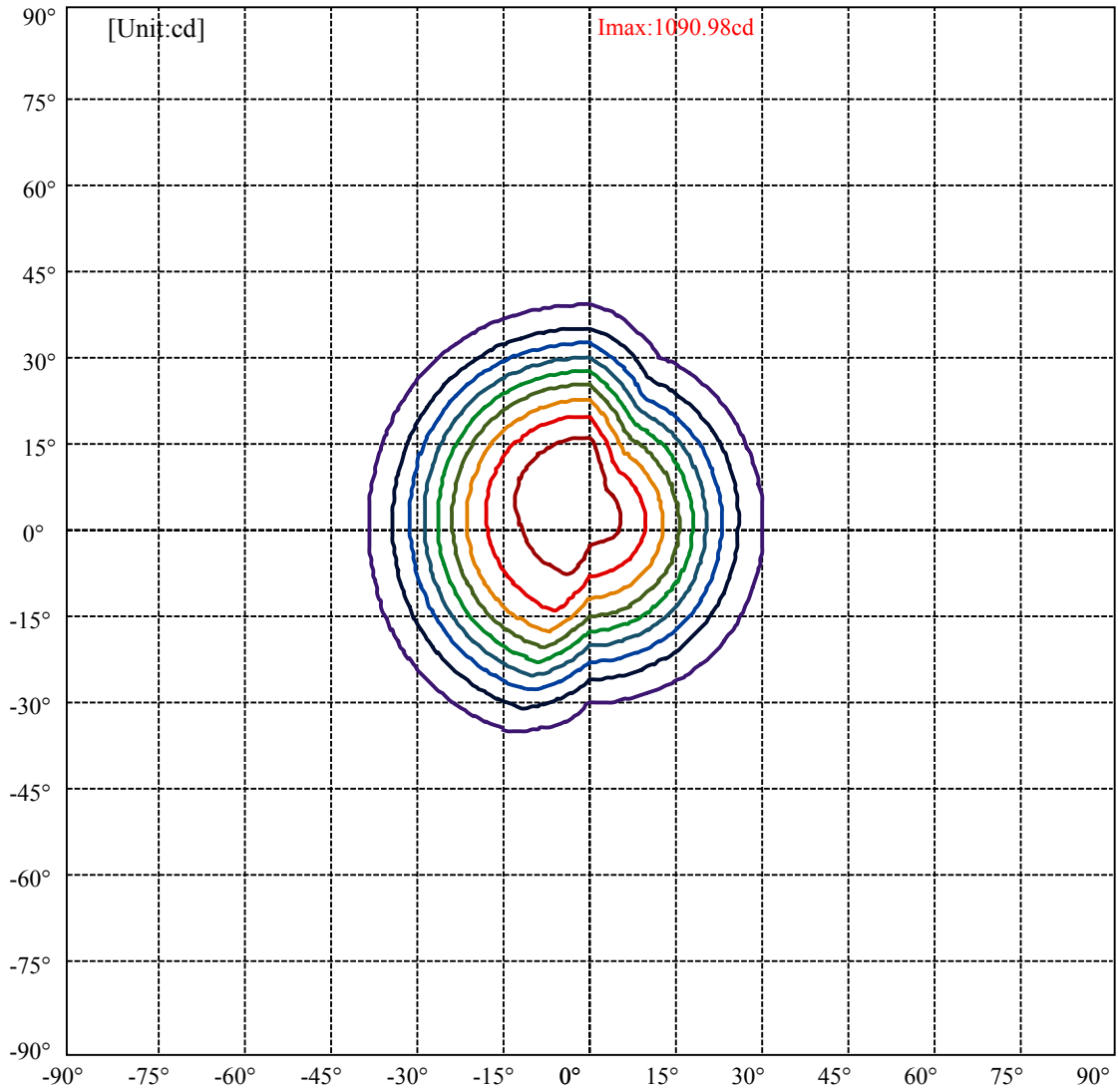
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:38.2 Right:29.9
 :C90/270Left:39.7 Right:28.7

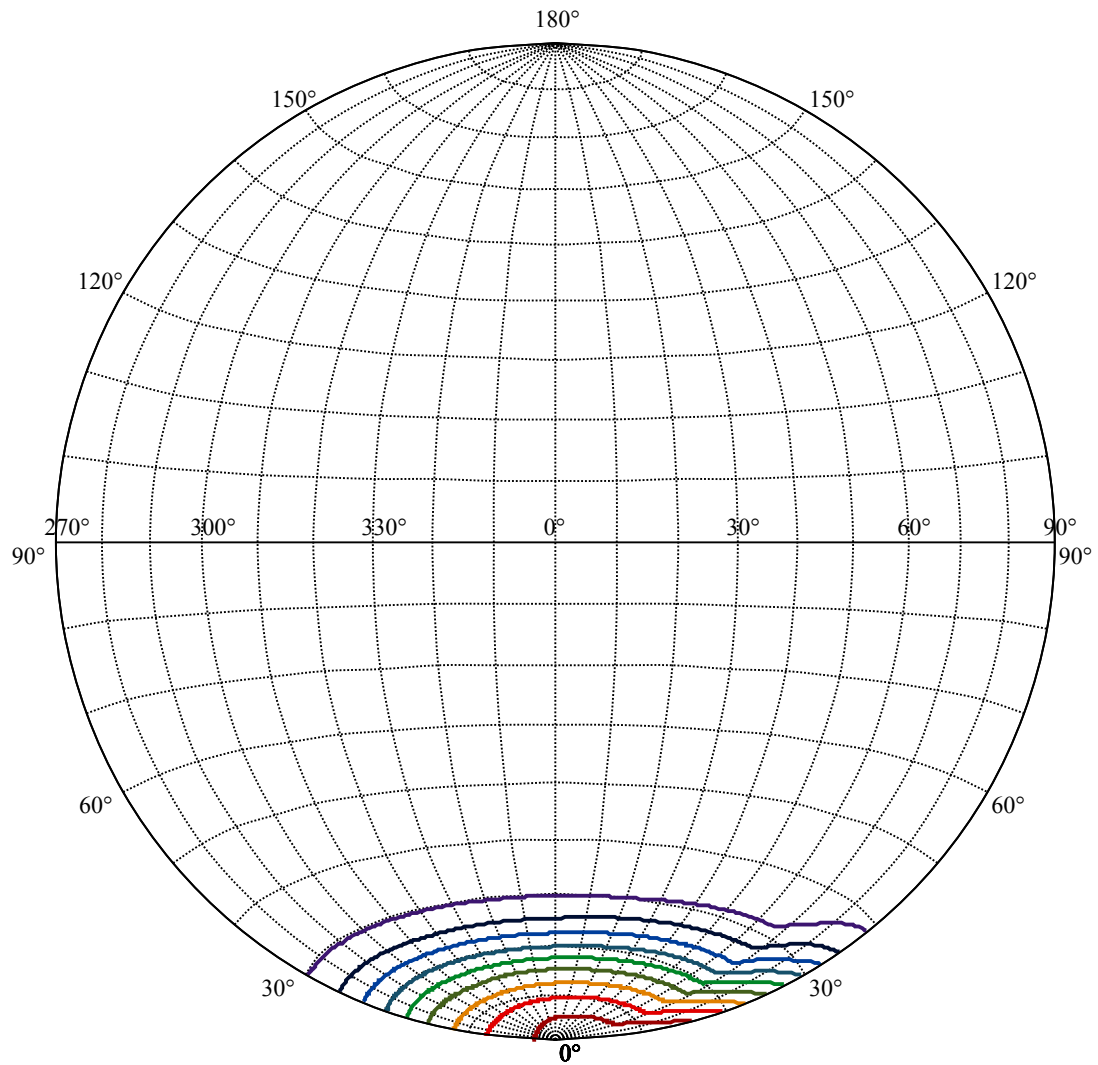
Beam Angle(50%Imax):C0/180Left:26.6 Right:18.2
 :C90/270Left:27.3 Right:17.3



Max , Ave Beam angle of C90 plane 47.90



(10%Imax) 109.098	—
(20%Imax) 218.197	—
(30%Imax) 327.295	—
(40%Imax) 436.393	—
(50%Imax) 545.492	—
(60%Imax) 654.59	—
(70%Imax) 763.688	—
(80%Imax) 872.786	—
(90%Imax) 981.885	—



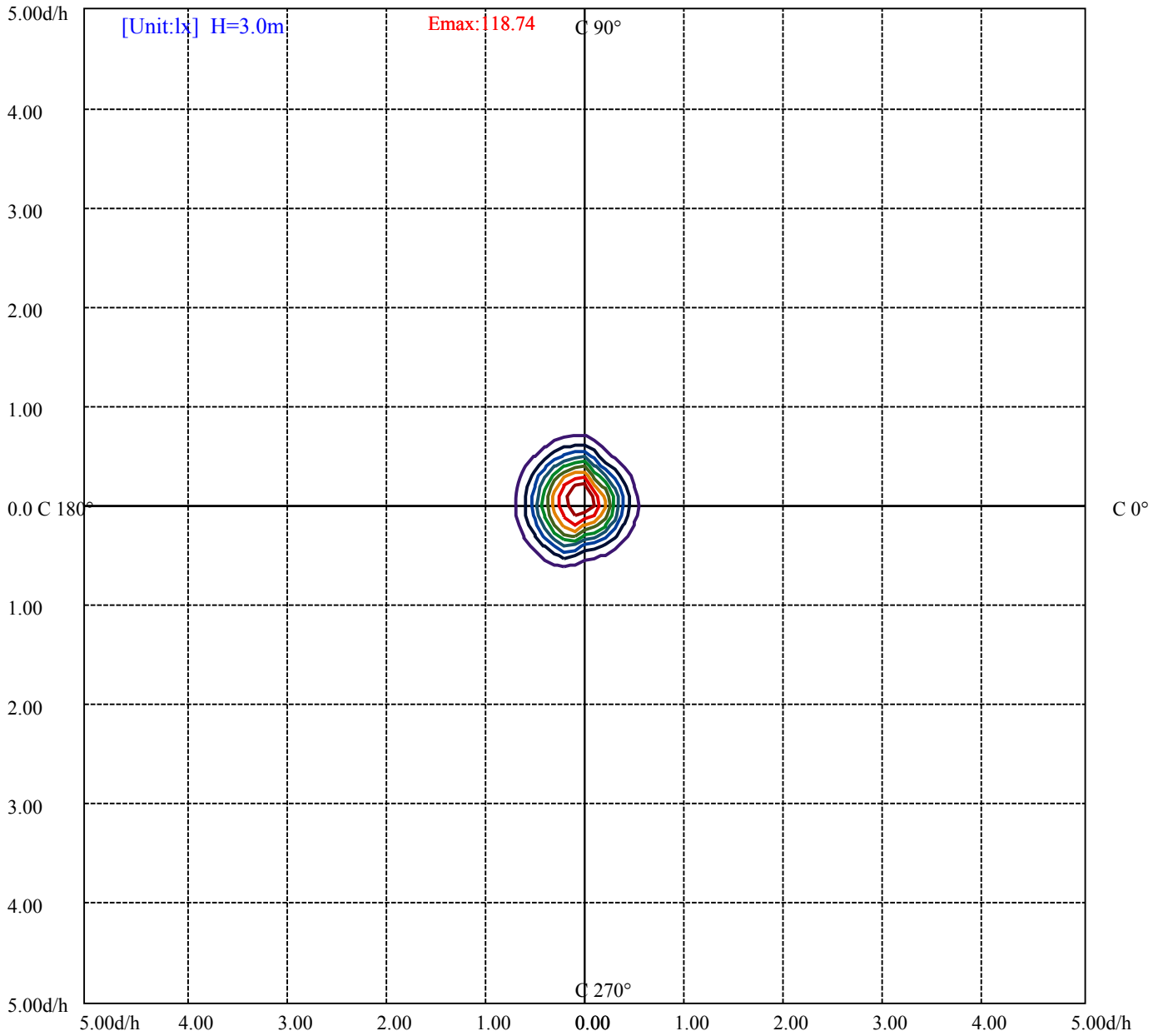
House

[Unit:cd]

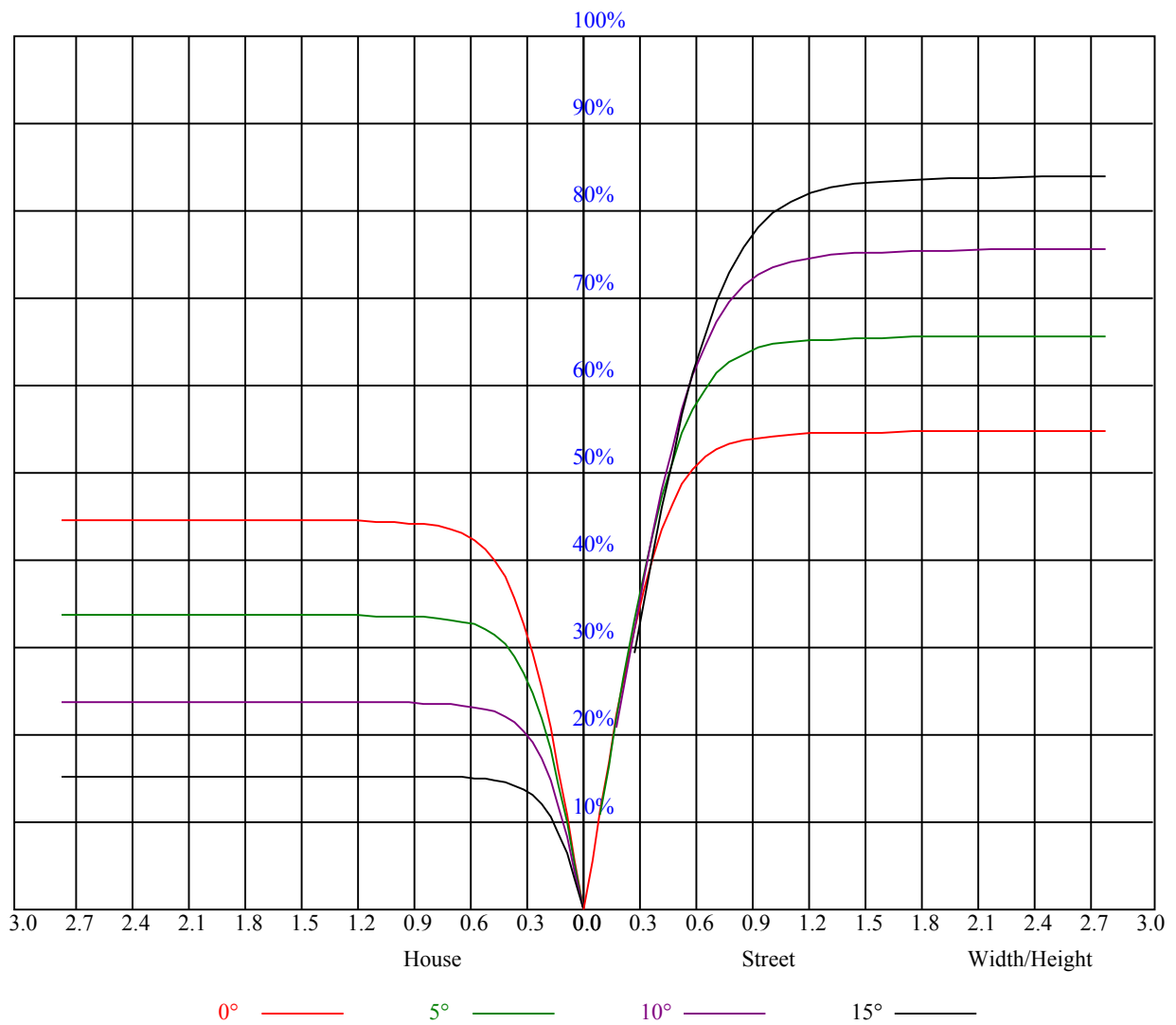
Road

Imax:1090.98

(10%Imax) 109.098	—
(20%Imax) 218.197	—
(30%Imax) 327.295	—
(40%Imax) 436.393	—
(50%Imax) 545.492	—
(60%Imax) 654.59	—
(70%Imax) 763.688	—
(80%Imax) 872.786	—
(90%Imax) 981.885	—



- (10%Emax) 11.87389
- (20%Emax) 23.74767
- (30%Emax) 35.62156
- (40%Emax) 47.49533
- (50%Emax) 59.36922
- (60%Emax) 71.243
- (70%Emax) 83.11689
- (80%Emax) 94.99067
- (90%Emax) 106.8646



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	1042.31	983.91	857.36	672.40	433.91	229.49	102.94	39.67	17.77
22.5	1047.18	1003.37	876.83	691.87	460.68	256.26	110.24	44.54	20.20
45.0	1052.05	1022.84	901.16	721.08	502.05	280.59	127.28	49.40	22.63
67.5	1059.35	1037.44	927.93	752.71	536.12	309.80	144.31	51.84	22.63
90.0	1022.84	1083.68	1090.98	1010.67	859.79	655.37	416.88	205.15	76.17
112.5	1022.84	1073.95	1081.25	1008.24	867.09	665.10	424.18	212.45	78.61
135.0	1027.71	1064.21	1056.91	991.21	859.79	657.80	419.31	207.59	73.74
157.5	1035.01	1054.48	1030.14	966.87	840.32	628.60	394.97	192.99	64.00
180.0	1042.31	1037.44	1003.37	937.67	808.69	594.53	358.47	175.95	64.00
202.5	1047.18	1027.71	986.34	908.46	774.62	562.89	334.13	163.78	61.57
225.0	1052.05	1020.41	971.74	888.99	750.28	533.69	314.67	146.75	59.14
247.5	1059.35	1015.54	964.44	874.39	725.94	514.22	297.63	139.45	56.70
270.0	1022.84	942.53	823.29	648.07	429.04	236.79	100.51	42.10	17.77
292.5	1022.84	940.10	820.85	643.20	426.61	229.49	98.07	44.54	20.20
315.0	1027.71	949.83	830.59	638.33	421.74	222.19	98.07	39.67	20.20
337.5	1035.01	966.87	842.76	655.37	424.18	224.62	98.07	37.23	17.77
360.0	1042.31	983.91	857.36	672.40	433.91	229.49	102.94	39.67	17.77
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.46	3.16	0.73	0.00	0.00	0.00	0.00	0.00	0.00
22.5	12.90	5.60	3.16	0.73	0.00	0.00	0.00	0.00	0.00
45.0	12.90	8.03	3.16	0.00	0.00	0.00	0.00	0.00	0.00
67.5	12.90	8.03	3.16	0.00	0.00	0.00	0.00	0.00	0.00
90.0	29.93	17.77	8.03	3.16	0.00	0.00	0.00	0.00	0.00
112.5	27.50	17.77	10.46	3.16	0.73	0.00	0.00	0.00	0.00
135.0	25.07	15.33	10.46	5.60	0.73	0.00	0.00	0.00	0.00
157.5	22.63	12.90	8.03	5.60	0.73	0.00	0.00	0.00	0.00
180.0	22.63	12.90	8.03	5.60	0.73	0.00	0.00	0.00	0.00
202.5	25.07	12.90	8.03	3.16	0.73	0.00	0.00	0.00	0.00
225.0	22.63	12.90	5.60	5.60	0.73	0.00	0.00	0.00	0.00
247.5	25.07	15.33	8.03	3.16	0.00	0.00	0.00	0.00	0.00
270.0	10.46	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	10.46	5.60	0.73	0.00	0.00	0.00	0.00	0.00	0.00
315.0	10.46	5.60	3.16	0.00	0.00	0.00	0.00	0.00	0.00
337.5	10.46	5.60	0.73	0.00	0.00	0.00	0.00	0.00	0.00
360.0	10.46	3.16	0.73	0.00	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-30K

Intensity data(cd)

Appendix Page: 11 Total:11

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								