



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: LB6R 41K

Luminaire:

Report No:

Voltage(V): 120.09

Test No:

Current(A): 0.1183

LampCAT:

Power (W): 14.0090

Lamp flux(lm): 929.1

PF: 0.986

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 929.09

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 66.32

Central intensity(cd): 353.459

Maximum intensity(cd): 363.337

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=106.6

[C90/270]Total=106.6

Field angle(10%Imax): [C0/180]Total=152.1

[C90/270]Total=152.4

Maximum s/h(1/2): C0_180=1.31 C90_270=1.31

Maximum s/h(1/4): C0_180=1.41 C90_270=1.41

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 100.00%

Up flux rate of LUM(%): 0.00%

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 82.774%

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

Date:
Humidity(%): 58%

Operator: Sam

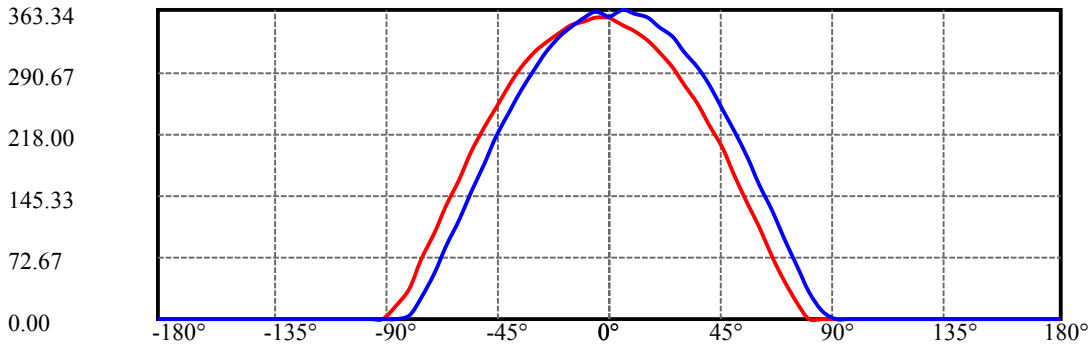
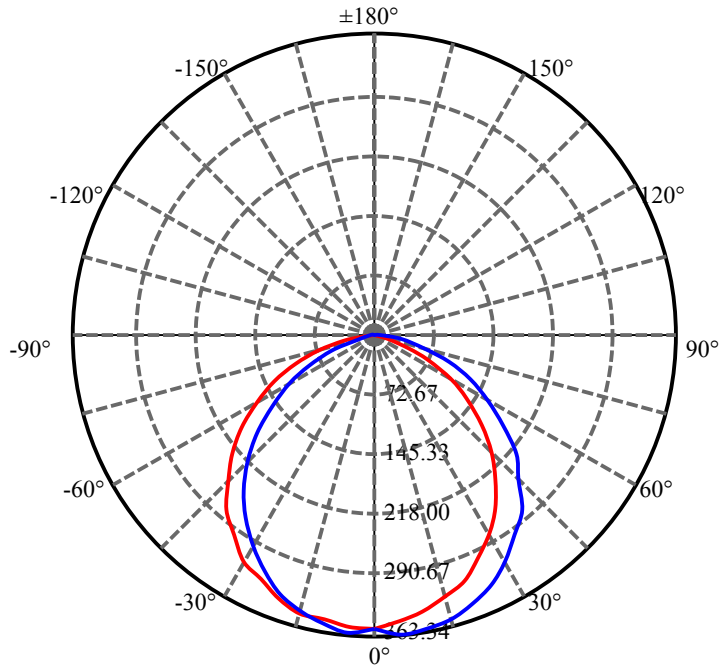
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	353.459	0.000	0	.000%	.000%
5.0	352.081	8.435	8.435	.908%	.908%
10.0	346.606	24.994	33.429	2.690%	3.598%
15.0	339.305	40.688	74.117	4.379%	7.977%
20.0	327.289	54.937	129.053	5.913%	13.890%
25.0	313.144	67.170	196.223	7.230%	21.120%
30.0	296.565	77.159	273.382	8.305%	29.425%
35.0	275.879	84.296	357.678	9.073%	38.498%
40.0	252.456	88.149	445.827	9.488%	47.985%
45.0	225.838	88.560	534.387	9.532%	57.517%
50.0	197.548	85.551	619.938	9.208%	66.725%
55.0	166.671	79.193	699.131	8.524%	75.249%
60.0	135.795	69.914	769.046	7.525%	82.774%
65.0	104.310	58.370	827.416	6.282%	89.057%
70.0	72.978	44.890	872.306	4.832%	93.888%
75.0	43.774	30.517	902.823	3.285%	97.173%
80.0	19.956	17.052	919.875	1.835%	99.008%
85.0	6.905	7.299	927.174	.786%	99.794%
90.0	0.046	1.903	929.077	.205%	99.999%
95.0	0.000	0.012	929.09	.001%	100.000%
100.0	0.000	0.000	929.09	.000%	100.000%
105.0	0.000	0.000	929.09	.000%	100.000%
110.0	0.000	0.000	929.09	.000%	100.000%
115.0	0.000	0.000	929.09	.000%	100.000%
120.0	0.000	0.000	929.09	.000%	100.000%
125.0	0.000	0.000	929.09	.000%	100.000%
130.0	0.000	0.000	929.09	.000%	100.000%
135.0	0.000	0.000	929.09	.000%	100.000%
140.0	0.000	0.000	929.09	.000%	100.000%
145.0	0.000	0.000	929.09	.000%	100.000%
150.0	0.000	0.000	929.09	.000%	100.000%
155.0	0.000	0.000	929.09	.000%	100.000%
160.0	0.000	0.000	929.09	.000%	100.000%
165.0	0.000	0.000	929.09	.000%	100.000%
170.0	0.000	0.000	929.09	.000%	100.000%
175.0	0.000	0.000	929.09	.000%	100.000%
180.0	0.000	0.000	929.09	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	273.38	29.42%	29.42%
0-40	445.83	47.99%	47.99%
0-60	769.05	82.77%	82.77%
0-90	929.08	100.00%	100.00%
0-120	929.09	100.00%	100.00%
0-180	929.09	100.00%	100.00%
60-90	229.95	24.75%	24.75%
90-120	1.92	0.21%	0.21%
90-130	1.92	0.21%	0.21%
90-150	1.92	0.21%	0.21%
90-180	1.92	0.21%	0.21%
0-58.16	743.27	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	33.43
10-20	95.62
20-30	144.33
30-40	172.45
40-50	174.11
50-60	149.11
60-70	103.26
70-80	47.57
80-90	9.20
90-100	0.01
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

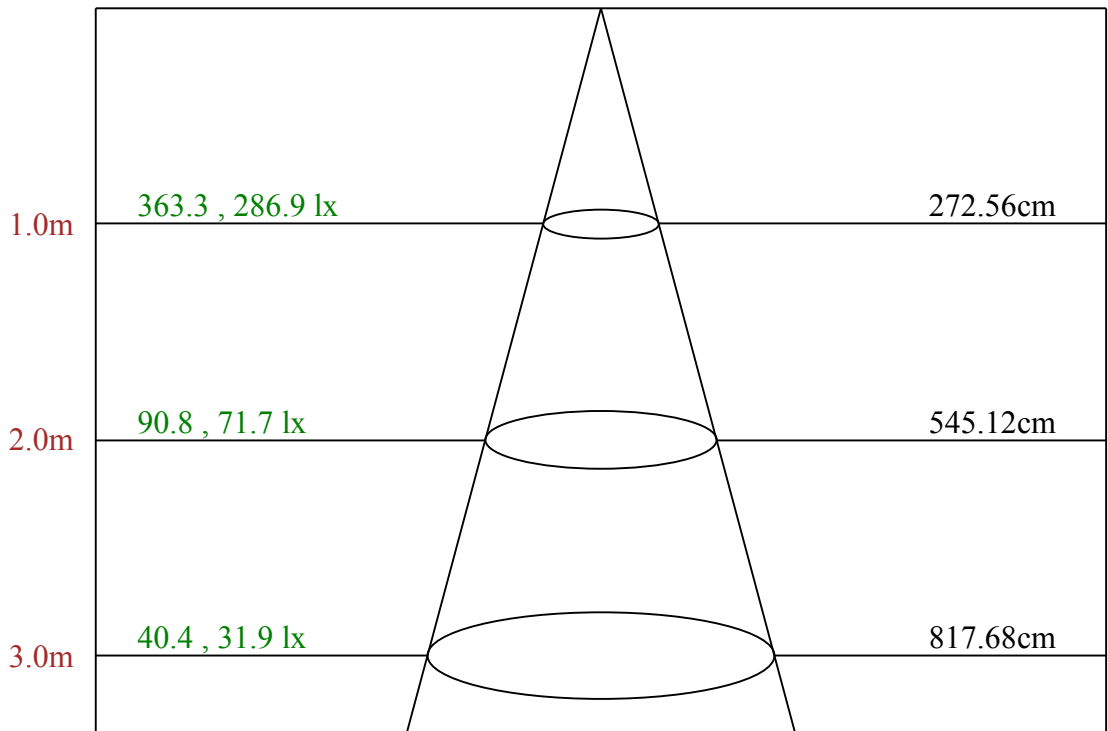


C0/C180: —

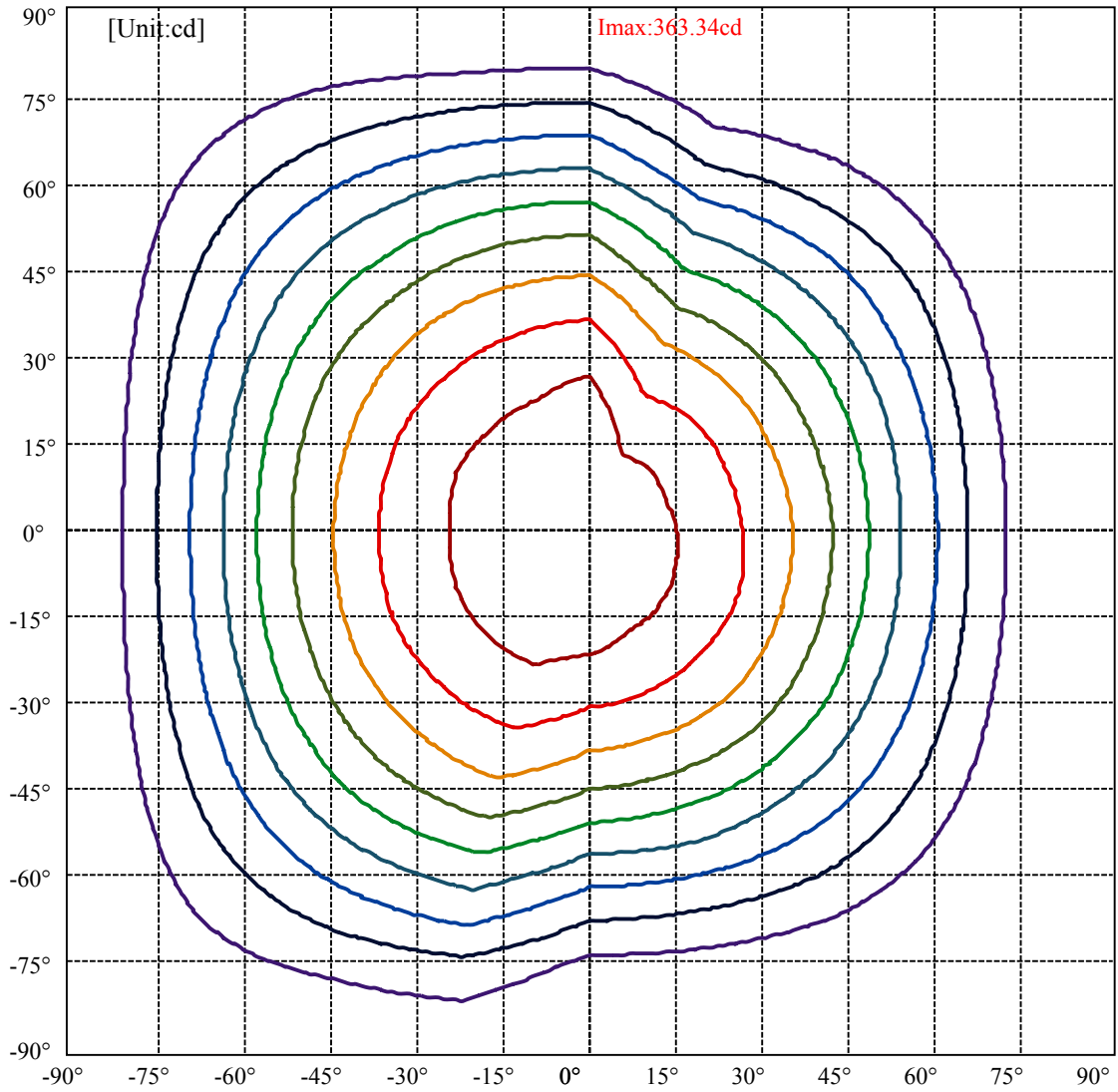
C90/C270: —

Field angle(10%Imax):C0/180Left:75.4 Right:76.7
:C90/270Left:78.1 Right:74.3

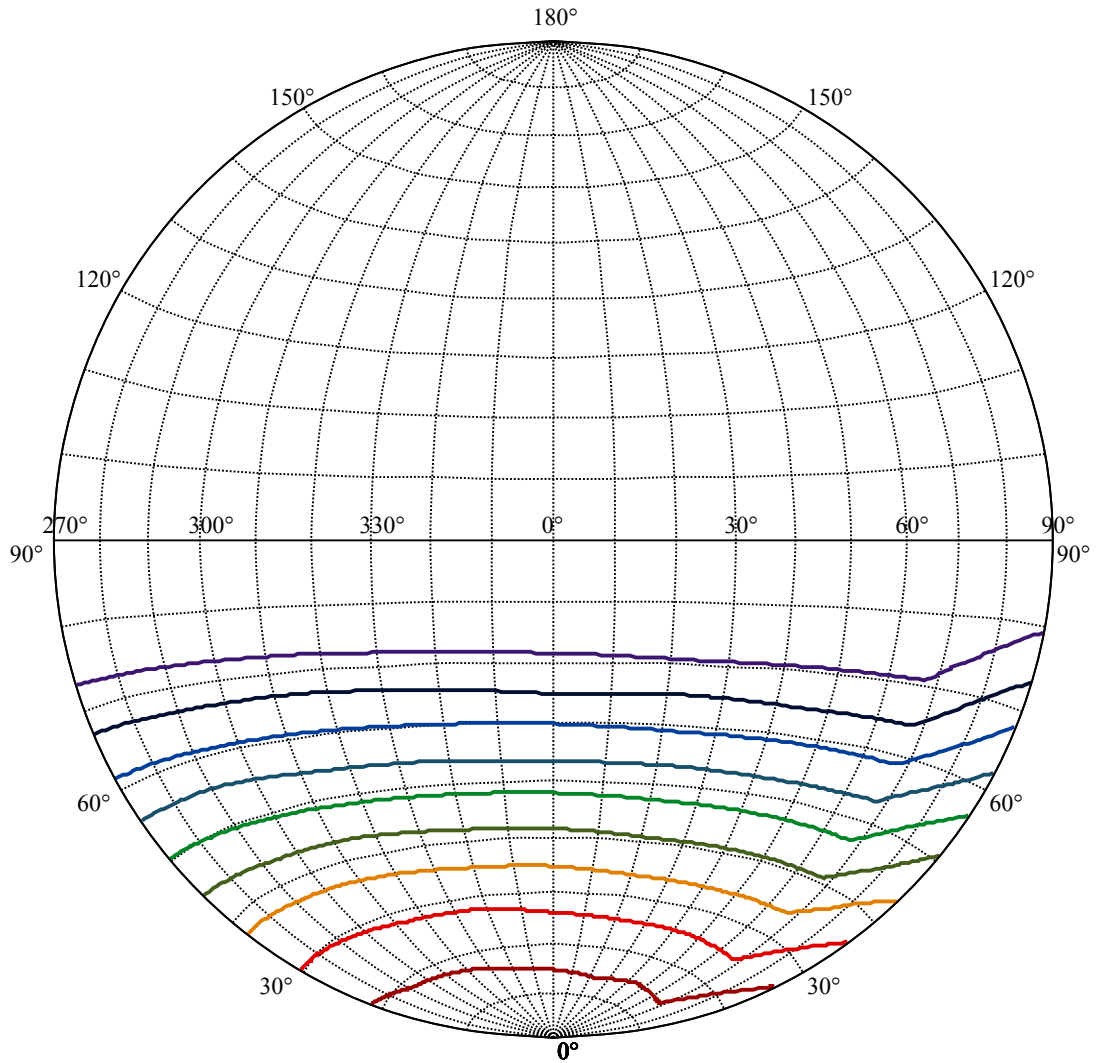
Beam Angle(50%Imax):C0/180Left:52.9 Right:53.7
:C90/270Left:55.2 Right:51.4



Max , Ave Beam angle of C90 plane 107.01



(10%Imax) 36.3337	—
(20%Imax) 72.6674	—
(30%Imax) 109.001	—
(40%Imax) 145.335	—
(50%Imax) 181.669	—
(60%Imax) 218.002	—
(70%Imax) 254.336	—
(80%Imax) 290.67	—
(90%Imax) 327.003	—



House

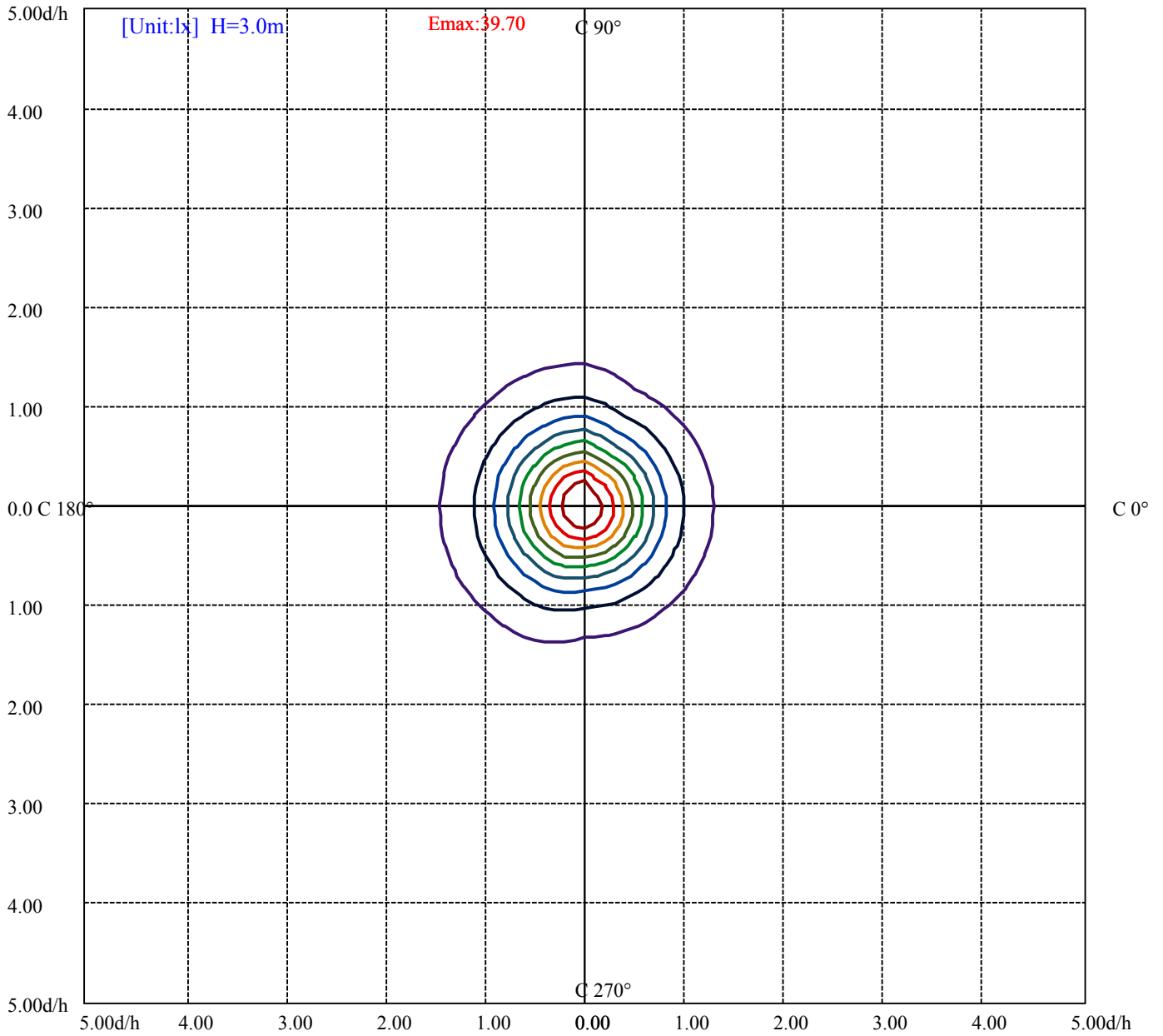
[Unit:cd]

Road

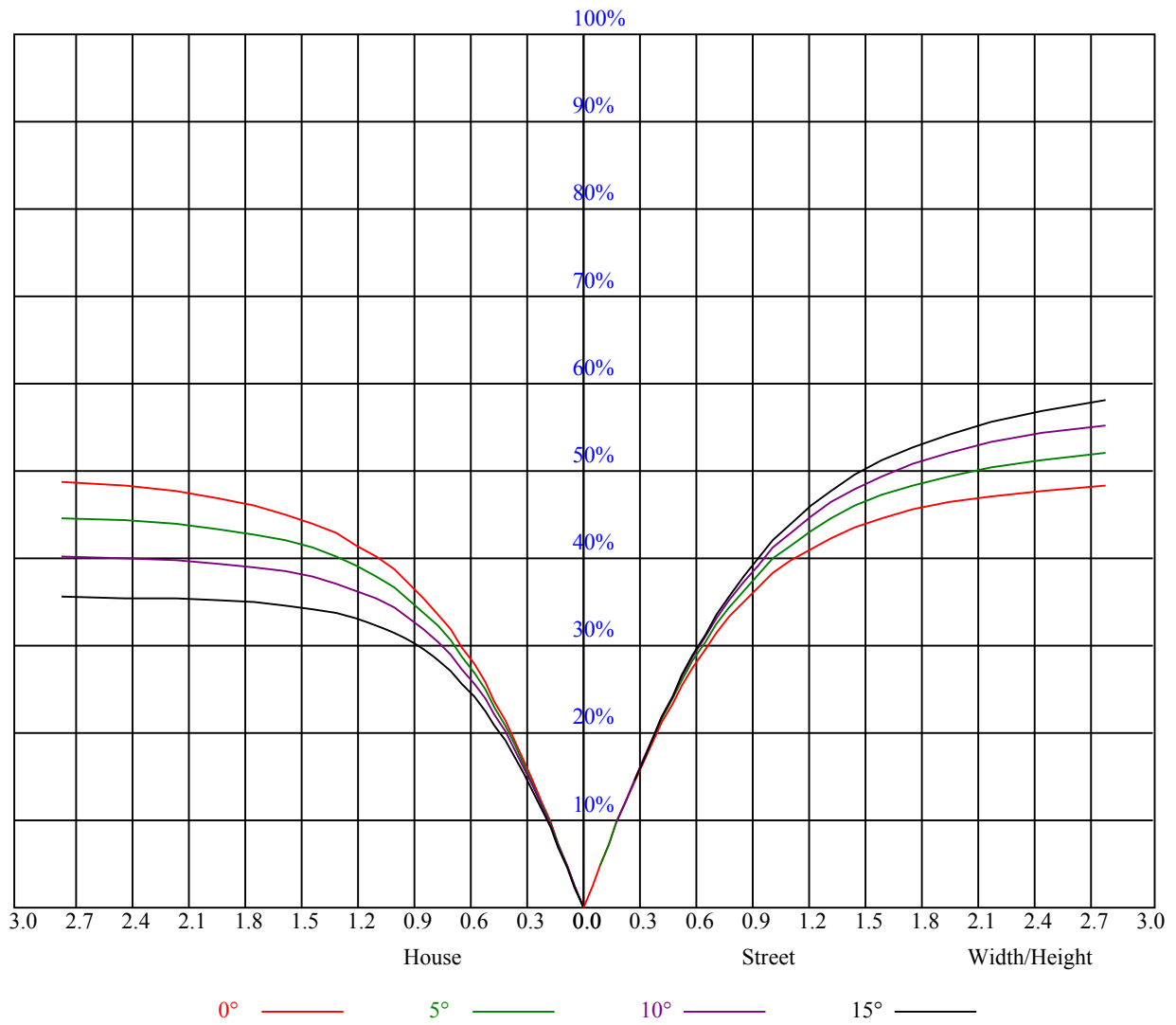
Imax:363.34

- (10%Imax) 36.3337
- (20%Imax) 72.6674
- (30%Imax) 109.001
- (40%Imax) 145.335
- (50%Imax) 181.669
- (60%Imax) 218.002
- (70%Imax) 254.336
- (80%Imax) 290.67
- (90%Imax) 327.003





(10%Emax) 3.969667	—
(20%Emax) 7.939322	—
(30%Emax) 11.909	—
(40%Emax) 15.87867	—
(50%Emax) 19.84833	—
(60%Emax) 23.818	—
(70%Emax) 27.78767	—
(80%Emax) 31.75733	—
(90%Emax) 35.727	—



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	353.46	346.30	339.00	326.83	314.67	295.20	275.73	253.83	227.06
22.5	353.46	346.30	336.57	324.40	312.23	292.76	273.29	248.96	222.19
45.0	353.46	343.87	336.57	326.83	309.80	292.76	273.29	248.96	222.19
67.5	353.46	343.87	336.57	324.40	309.80	290.33	270.86	251.39	222.19
90.0	353.46	363.34	358.47	353.60	343.87	331.70	314.67	295.20	275.73
112.5	353.46	356.04	353.60	351.17	339.00	324.40	312.23	292.76	273.29
135.0	353.46	356.04	353.60	346.30	336.57	324.40	312.23	292.76	270.86
157.5	353.46	353.60	351.17	346.30	336.57	326.83	312.23	295.20	275.73
180.0	353.46	353.60	348.74	346.30	336.57	324.40	314.67	295.20	275.73
202.5	353.46	353.60	348.74	343.87	336.57	326.83	314.67	297.63	275.73
225.0	353.46	351.17	351.17	346.30	336.57	326.83	312.23	295.20	275.73
247.5	353.46	351.17	348.74	346.30	334.13	326.83	314.67	295.20	275.73
270.0	353.46	360.90	353.60	343.87	331.70	314.67	292.76	268.43	244.09
292.5	353.46	353.60	346.30	339.00	321.97	307.36	287.90	265.99	236.79
315.0	353.46	351.17	343.87	334.13	319.53	302.50	283.03	261.13	236.79
337.5	353.46	348.74	339.00	329.27	317.10	302.50	280.59	256.26	229.49
360.0	353.46	346.30	339.00	326.83	314.67	295.20	275.73	253.83	227.06
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	200.29	168.65	134.58	107.81	71.30	44.54	17.77	0.73	0.00
22.5	195.42	166.22	134.58	102.94	73.74	39.67	17.77	0.00	0.00
45.0	195.42	163.78	132.15	102.94	68.87	39.67	17.77	0.73	0.00
67.5	192.99	163.78	134.58	100.51	68.87	39.67	17.77	0.00	0.00
90.0	246.52	222.19	190.55	158.91	127.28	95.64	61.57	32.37	8.03
112.5	246.52	222.19	190.55	158.91	127.28	95.64	64.00	32.37	10.46
135.0	248.96	219.75	188.12	158.91	129.71	95.64	64.00	37.23	12.90
157.5	246.52	224.62	192.99	161.35	132.15	98.07	66.44	37.23	12.90
180.0	248.96	224.62	195.42	163.78	132.15	100.51	68.87	37.23	15.33
202.5	251.39	224.62	197.85	166.22	134.58	102.94	71.30	42.10	15.33
225.0	251.39	227.06	197.85	168.65	134.58	105.38	71.30	39.67	17.77
247.5	253.83	227.06	197.85	166.22	137.01	105.38	68.87	44.54	17.77
270.0	214.89	183.25	149.18	117.54	85.91	54.27	25.07	5.60	0.00
292.5	210.02	178.38	149.18	115.11	83.47	51.84	25.07	5.60	0.00
315.0	207.59	173.52	141.88	112.68	83.47	51.84	22.63	3.16	0.00
337.5	202.72	171.08	139.45	110.24	78.61	46.97	20.20	0.73	0.00
360.0	200.29	168.65	134.58	107.81	71.30	44.54	17.77	0.73	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	0.73	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

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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