



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
www.bellingtest.com
Email:assitant@bellingtest.com
Tel:0755-29351191 Fax:0755-29351120
Address:1 F,No.1 building,Meibaohe industrial park,Dalang street,Longhua district,Shenzhen,China

LumCAT:

Luminaire:

Report No: N/A

Test No: N/A

LampCAT:

Lamp flux(lm): 13800.8

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.07

Current(A): 0.88

Power (W): 105.3700

PF: 0.9973

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 13800.75

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 130.97

Central intensity(cd): 10087.880

Maximum intensity(cd): 10087.880

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=81.1

[C90/270]Total=68.1

Field angle(10%Imax): [C0/180]Total=121.5

[C90/270]Total=97.0

Maximum s/h(1/2): C0_180=1.16 C90_270=1.08

Maximum s/h(1/4): C0_180=1.65 C90_270=1.03

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 : 98.571%

Equipment: GMS-3000
Temperature($^{\circ}$ C): 25.2

Date:
Humidity(%): 60%

Operator: Sam

Zonal flux distribution table

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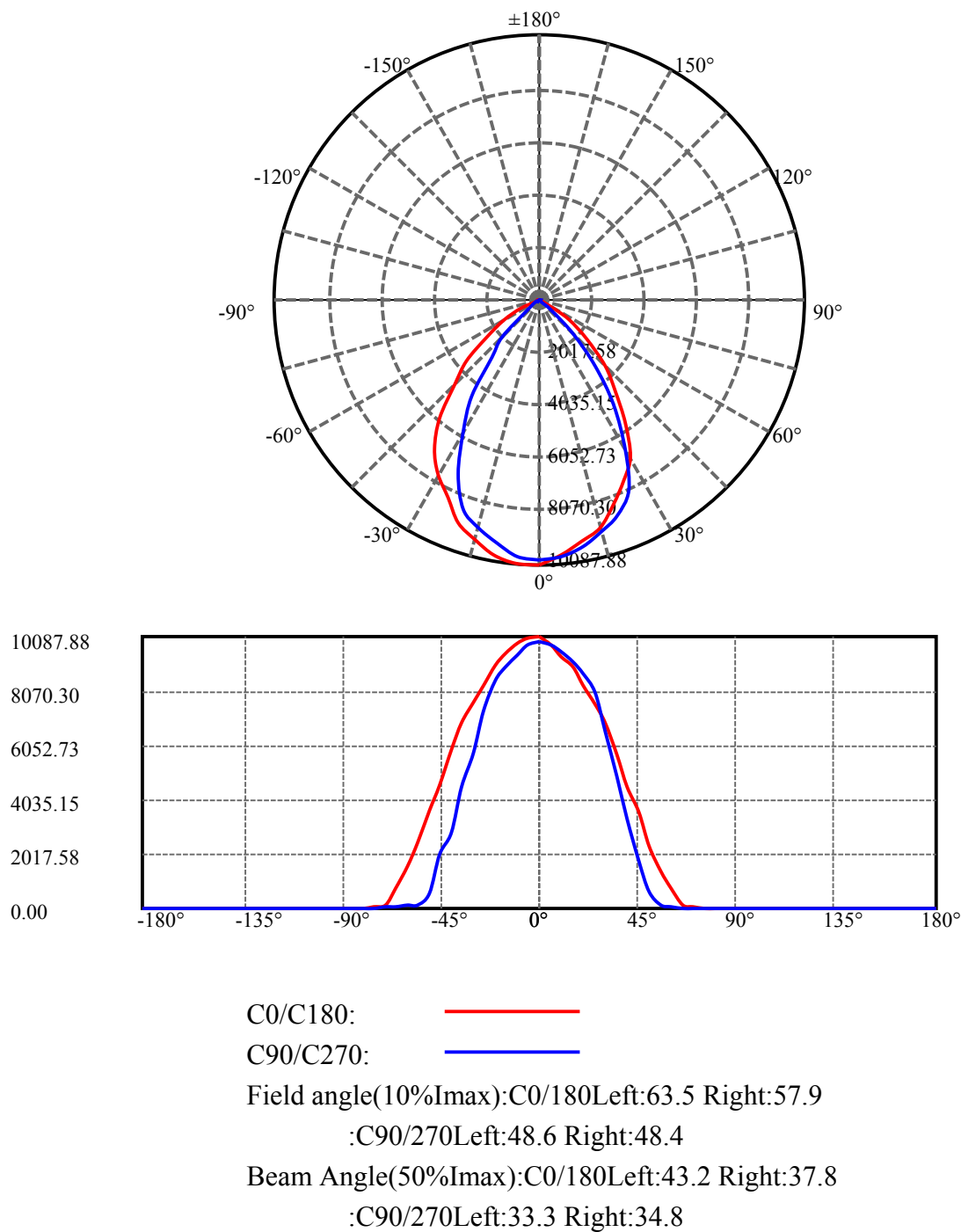
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9938.719	.000	.000	.000%	.000%
5.0	9801.096	235.984	235.984	1.710%	1.710%
10.0	9534.223	691.685	927.669	5.012%	6.722%
15.0	9091.173	1104.846	2032.515	8.006%	14.728%
20.0	8489.485	1448.893	3481.408	10.499%	25.226%
25.0	7719.837	1700.059	5181.467	12.319%	37.545%
30.0	6784.440	1835.528	7016.995	13.300%	50.845%
35.0	5587.069	1821.791	8838.786	13.201%	64.046%
40.0	4263.767	1643.537	10482.320	11.909%	75.955%
45.0	2927.824	1331.581	11813.900	9.649%	85.603%
50.0	1731.085	941.401	12755.300	6.821%	92.425%
55.0	852.886	561.841	13317.150	4.071%	96.496%
60.0	385.978	286.360	13603.510	2.075%	98.571%
65.0	135.380	126.743	13730.250	.918%	99.489%
70.0	44.163	45.461	13775.710	.329%	99.819%
75.0	19.324	16.594	13792.300	.120%	99.939%
80.0	5.957	6.764	13799.070	.049%	99.988%
85.0	.095	1.644	13800.710	.012%	100.000%
90.0	.000	.026	13800.740	.000%	100.000%
95.0	.000	.000	13800.740	.000%	100.000%
100.0	.000	.000	13800.740	.000%	100.000%
105.0	.000	.000	13800.740	.000%	100.000%
110.0	.000	.000	13800.740	.000%	100.000%
115.0	.000	.000	13800.740	.000%	100.000%
120.0	.000	.000	13800.740	.000%	100.000%
125.0	.000	.000	13800.740	.000%	100.000%
130.0	.000	.000	13800.740	.000%	100.000%
135.0	.000	.000	13800.740	.000%	100.000%
140.0	.000	.000	13800.740	.000%	100.000%
145.0	.000	.000	13800.740	.000%	100.000%
150.0	.000	.000	13800.740	.000%	100.000%
155.0	.000	.000	13800.740	.000%	100.000%
160.0	.000	.000	13800.740	.000%	100.000%
165.0	.000	.000	13800.740	.000%	100.000%
170.0	.000	.000	13800.740	.000%	100.000%
175.0	.000	.000	13800.740	.000%	100.000%
180.0	.000	.000	13800.740	.000%	100.000%

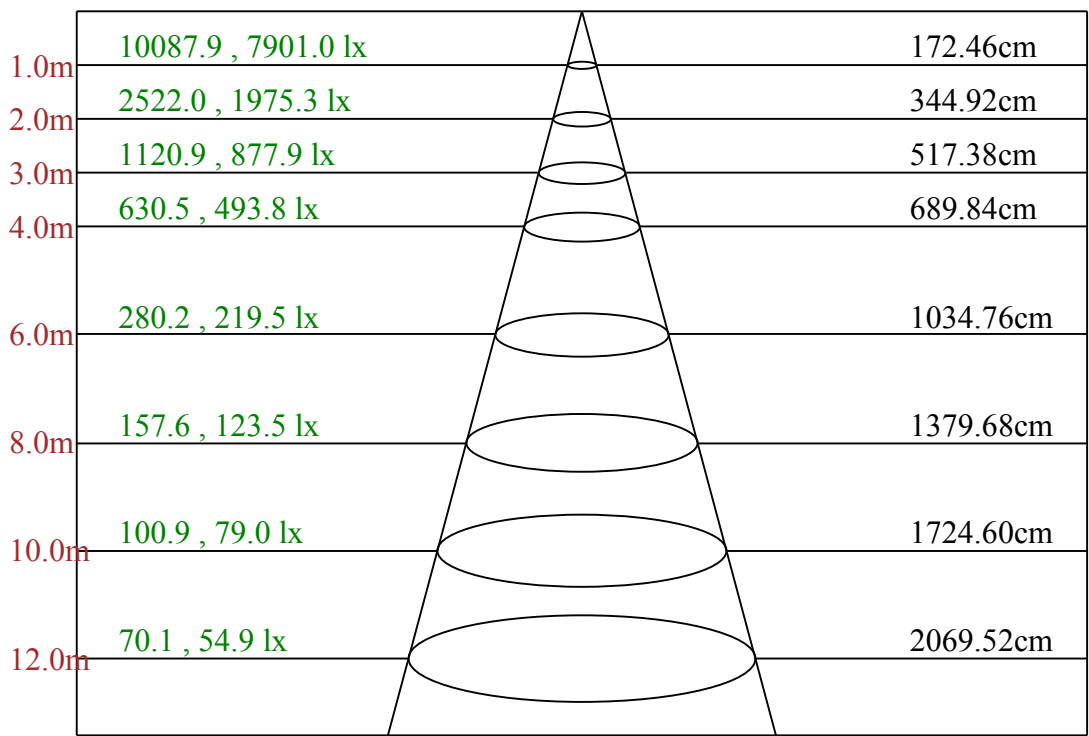
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	7017.00	50.85%	50.85%
0-40	10482.32	75.95%	75.95%
0-60	13603.51	98.57%	98.57%
0-90	13800.74	100.00%	100.00%
0-120	13800.74	100.00%	100.00%
0-180	13800.74	100.00%	100.00%
60-90	483.59	3.50%	3.50%
90-120	0.03	0.00%	0.00%
90-130	0.03	0.00%	0.00%
90-150	0.03	0.00%	0.00%
90-180	0.03	0.00%	0.00%
0-42.10	11040.59	80.00%	80.00%

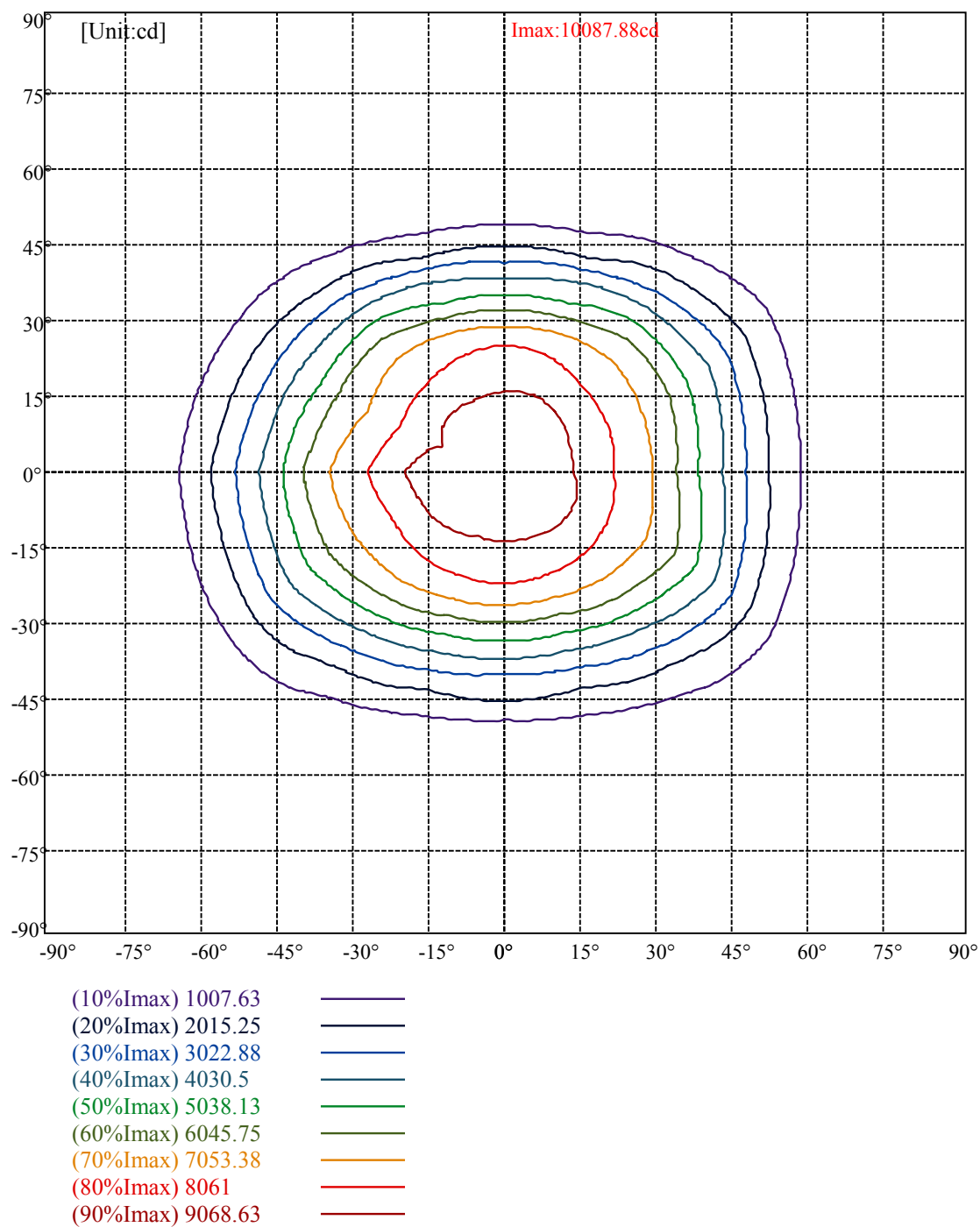
ZONAL LUMEN SUMMARY

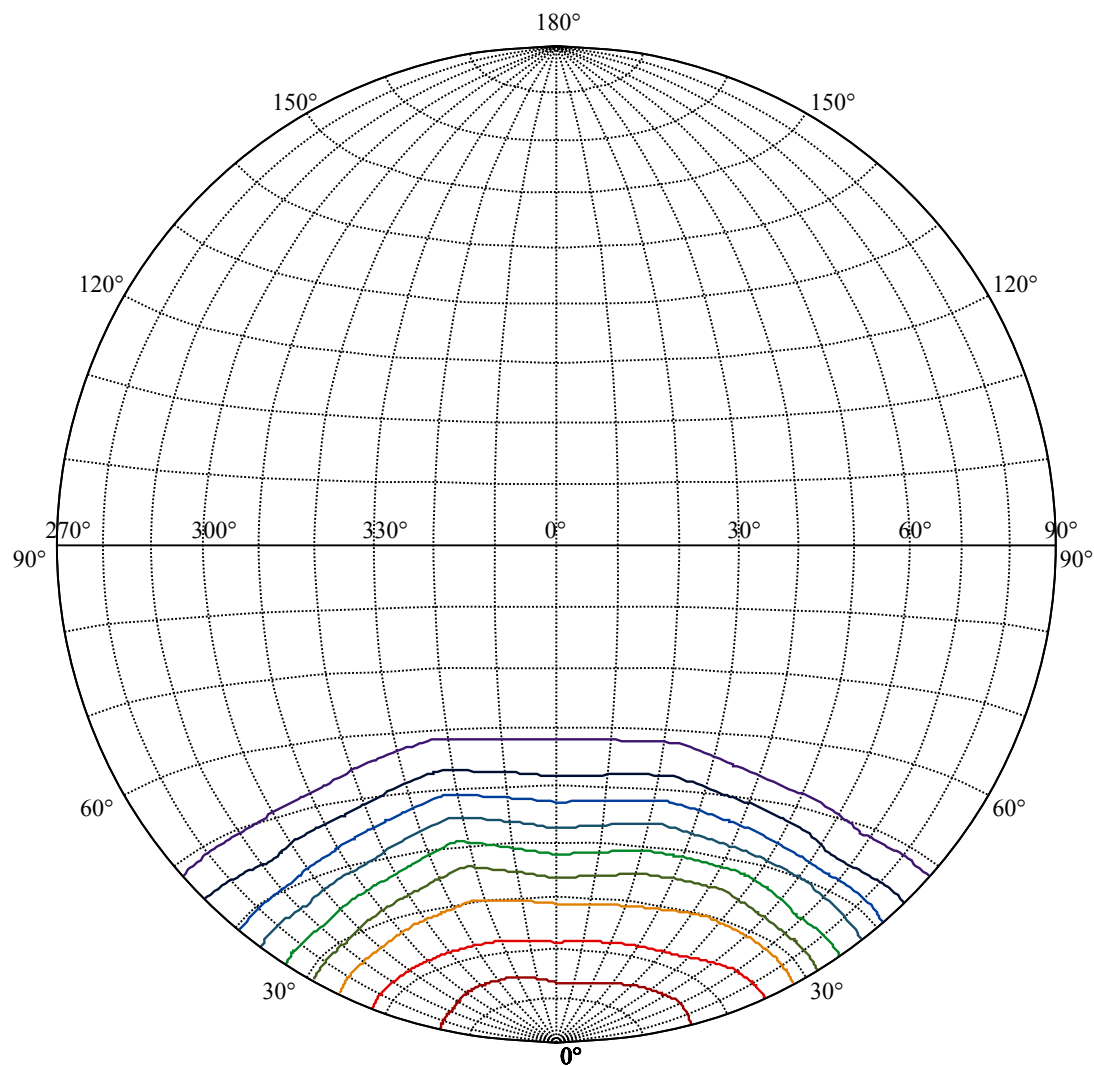
0-10	927.67
10-20	2553.74
20-30	3535.59
30-40	3465.33
40-50	2272.98
50-60	848.20
60-70	172.20
70-80	23.36
80-90	1.67
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0plane81.32



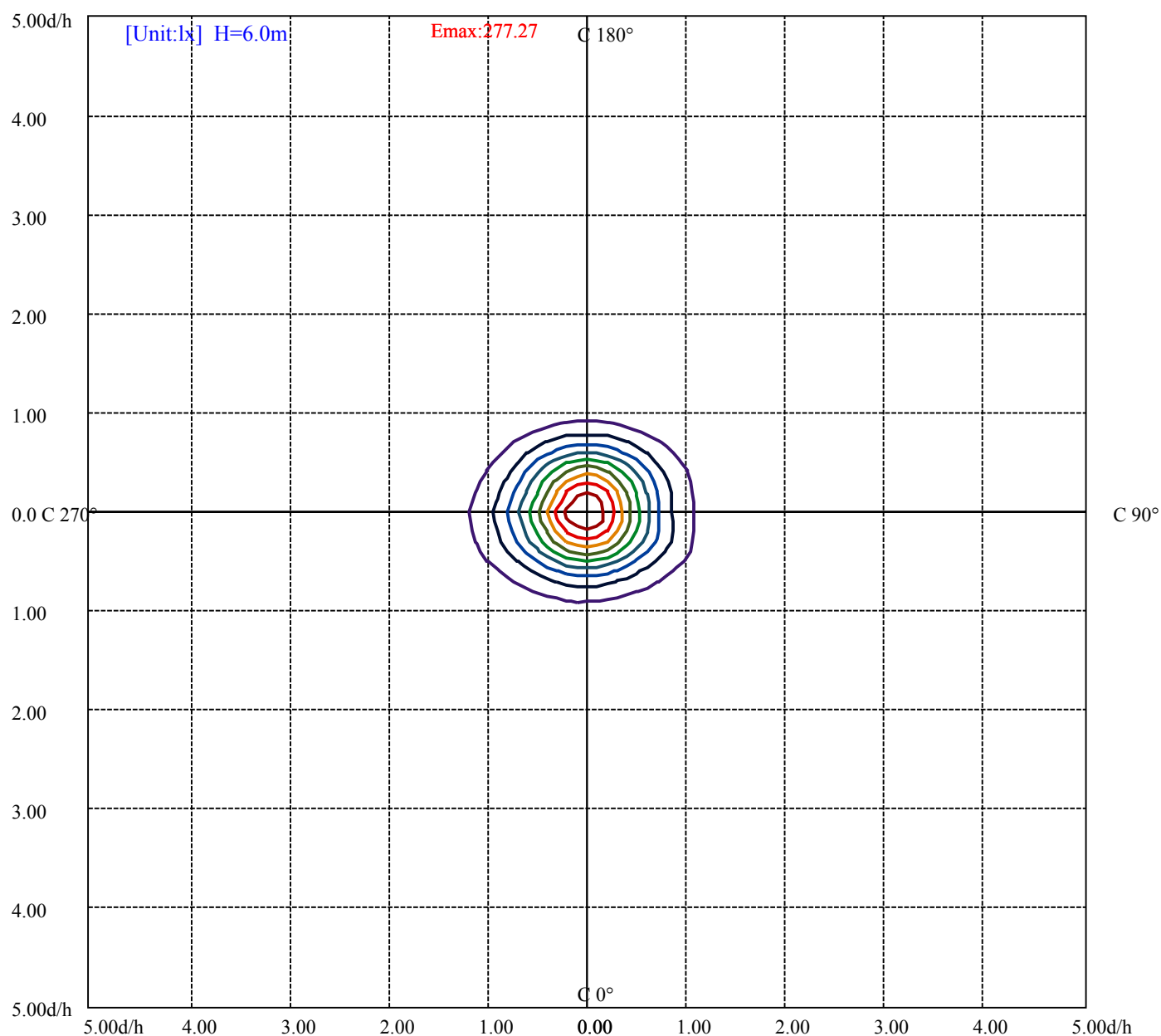


House

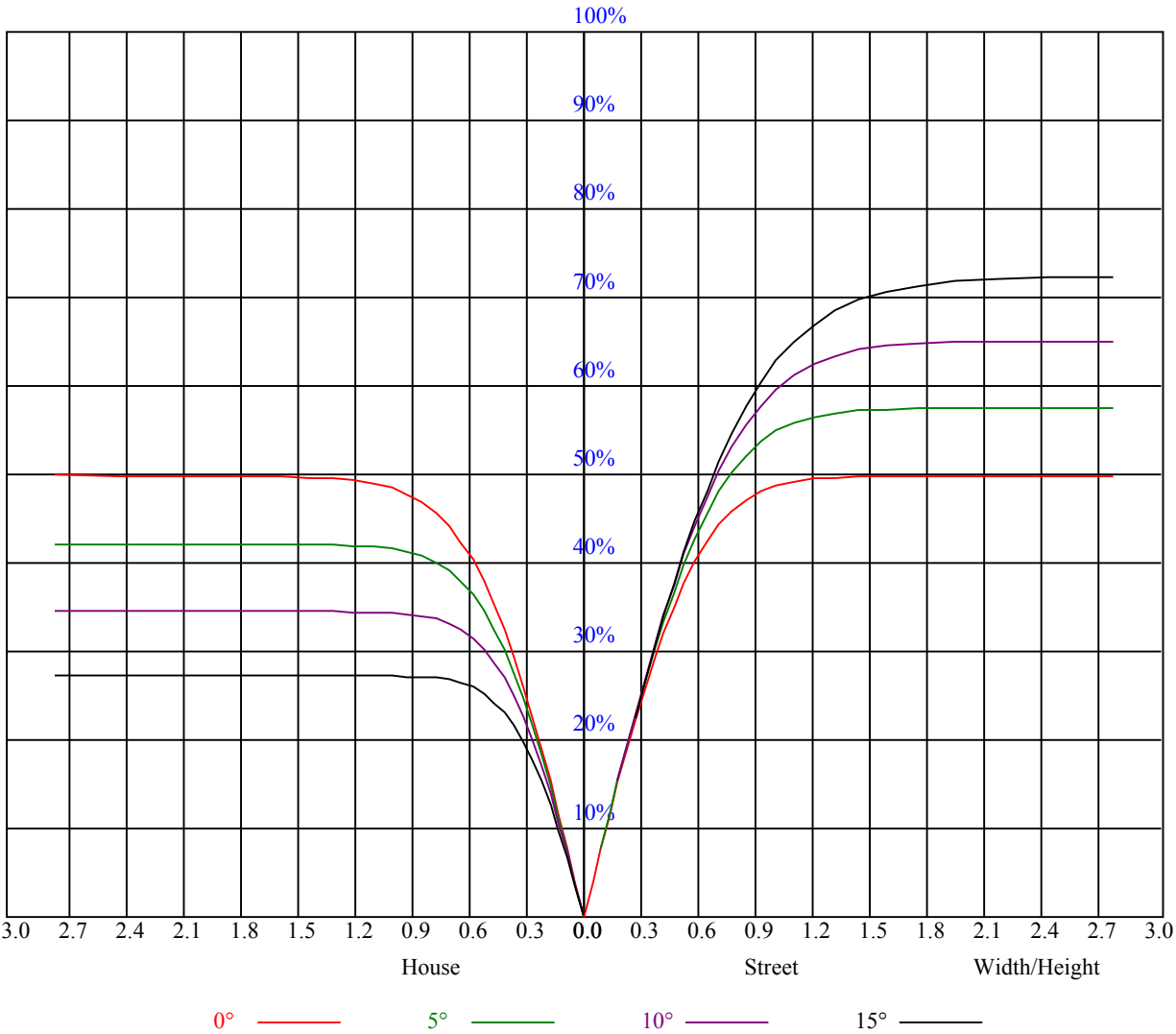
[Unit:cd]

Road

Imax:10087.88	
(10%Imax)	1008.79
(20%Imax)	2017.58
(30%Imax)	3026.36
(40%Imax)	4035.15
(50%Imax)	5043.94
(60%Imax)	6052.73
(70%Imax)	7061.52
(80%Imax)	8070.3
(90%Imax)	9079.09



(10%Emax)	27.72692	—
(20%Emax)	55.45389	—
(30%Emax)	83.18083	—
(40%Emax)	110.9075	—
(50%Emax)	138.6344	—
(60%Emax)	166.3614	—
(70%Emax)	194.0883	—
(80%Emax)	221.8153	—
(90%Emax)	249.5422	—



Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	10087.88	9764.28	9314.28	8952.76	8262.59	7562.31	6905.00	5729.43	4526.06
22.5	10004.45	9655.57	9359.78	8970.46	8388.99	7610.34	6942.92	6093.48	4869.88
45.0	9981.70	9761.75	9572.15	9101.92	8388.99	7671.01	7044.05	5989.83	4513.42
67.5	9946.30	9860.35	9685.91	9205.57	8578.60	7959.22	6829.16	5036.73	3853.58
90.0	9895.74	9804.73	9534.22	9127.20	8732.82	8035.06	6591.52	4895.16	3292.34
112.5	9860.35	9817.37	9612.59	9079.16	8543.21	7928.88	6836.74	5003.87	3853.58
135.0	9883.10	9784.51	9544.34	9132.26	8449.67	7696.29	7071.85	6002.47	4503.30
157.5	9850.24	9630.29	9218.21	8962.87	8388.99	7625.51	6907.53	6154.15	4837.01
180.0	10087.88	10029.73	9824.95	9473.55	9018.49	8262.59	7663.43	6917.64	5898.82
202.5	10004.45	9953.89	9787.03	9387.59	8636.75	7837.87	7238.71	6553.59	5405.84
225.0	9981.70	9845.18	9594.90	9124.67	8452.20	7736.74	6854.44	5499.38	4159.48
247.5	9946.30	9797.15	9453.32	8917.37	8401.64	7544.61	6050.50	4649.93	3269.59
270.0	9895.74	9787.03	9390.12	8947.70	8449.67	7309.50	5795.16	4498.25	2829.70
292.5	9860.35	9733.94	9420.46	8937.59	8381.41	7435.90	5964.55	4563.98	3112.85
315.0	9883.10	9787.03	9597.43	9056.41	8361.19	7615.40	6733.09	5410.89	3987.57
337.5	9850.24	9804.73	9637.88	9081.69	8396.58	7686.18	7122.42	6394.32	5307.24
360.0	10087.88	9764.28	9314.28	8952.76	8262.59	7562.31	6905.00	5729.43	4526.06
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	3565.38	2329.14	1391.21	738.96	106.94	53.85	20.98	0.76	0.00
22.5	3876.34	2526.33	1520.15	665.65	109.47	41.21	13.40	0.00	0.00
45.0	2988.97	1621.27	536.72	99.35	38.68	10.87	0.00	0.00	0.00
67.5	1699.64	804.69	94.30	46.26	18.46	0.76	0.00	0.00	0.00
90.0	1783.07	627.73	99.35	51.32	18.46	0.00	0.00	0.00	0.00
112.5	1704.70	751.60	94.30	43.74	18.46	0.76	0.00	0.00	0.00
135.0	2963.69	1391.21	531.66	84.19	38.68	8.34	0.00	0.00	0.00
157.5	3790.38	2483.35	1413.97	554.41	101.88	38.68	8.34	0.00	0.00
180.0	4581.68	3631.11	2425.21	1550.48	781.94	152.44	58.91	26.04	0.76
202.5	4306.11	3155.83	1937.28	974.08	349.64	86.71	48.79	18.46	0.76
225.0	2908.07	1578.29	802.17	175.20	81.66	53.85	26.04	5.82	0.00
247.5	1919.59	958.91	139.80	91.77	61.43	38.68	20.98	5.82	0.00
270.0	1987.85	587.28	154.97	106.94	74.07	58.91	28.57	5.82	0.00
292.5	1848.80	943.74	137.28	89.24	61.43	41.21	18.46	5.82	0.00
315.0	2804.42	1464.53	776.89	137.28	76.60	48.79	23.51	10.87	0.00
337.5	4116.51	2842.34	1590.93	766.77	228.29	71.55	41.21	15.93	0.00
360.0	3565.38	2329.14	1391.21	738.96	106.94	53.85	20.98	0.76	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

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