



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.

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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): 17239.6

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.12

Current(A): 1.1021

Power (W): 131.8000

PF: 0.9938

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 17239.57

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 130.80

Central intensity(cd): 12535.320

Maximum intensity(cd): 12535.320

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=83.5

[C90/270]Total=67.4

Field angle(10%Imax): [C0/180]Total=120.8

[C90/270]Total=96.3

Maximum s/h(1/2): C0_180=1.18 C90_270=1.02

Maximum s/h(1/4): C0_180=1.68 C90_270=1.00

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 : 98.671%

Equipment: GMS-3000
Temperature(°C): 25.2

Date:
Humidity(%): 60%

Operator: Sam

Zonal flux distribution table

Page: 2 Total:11

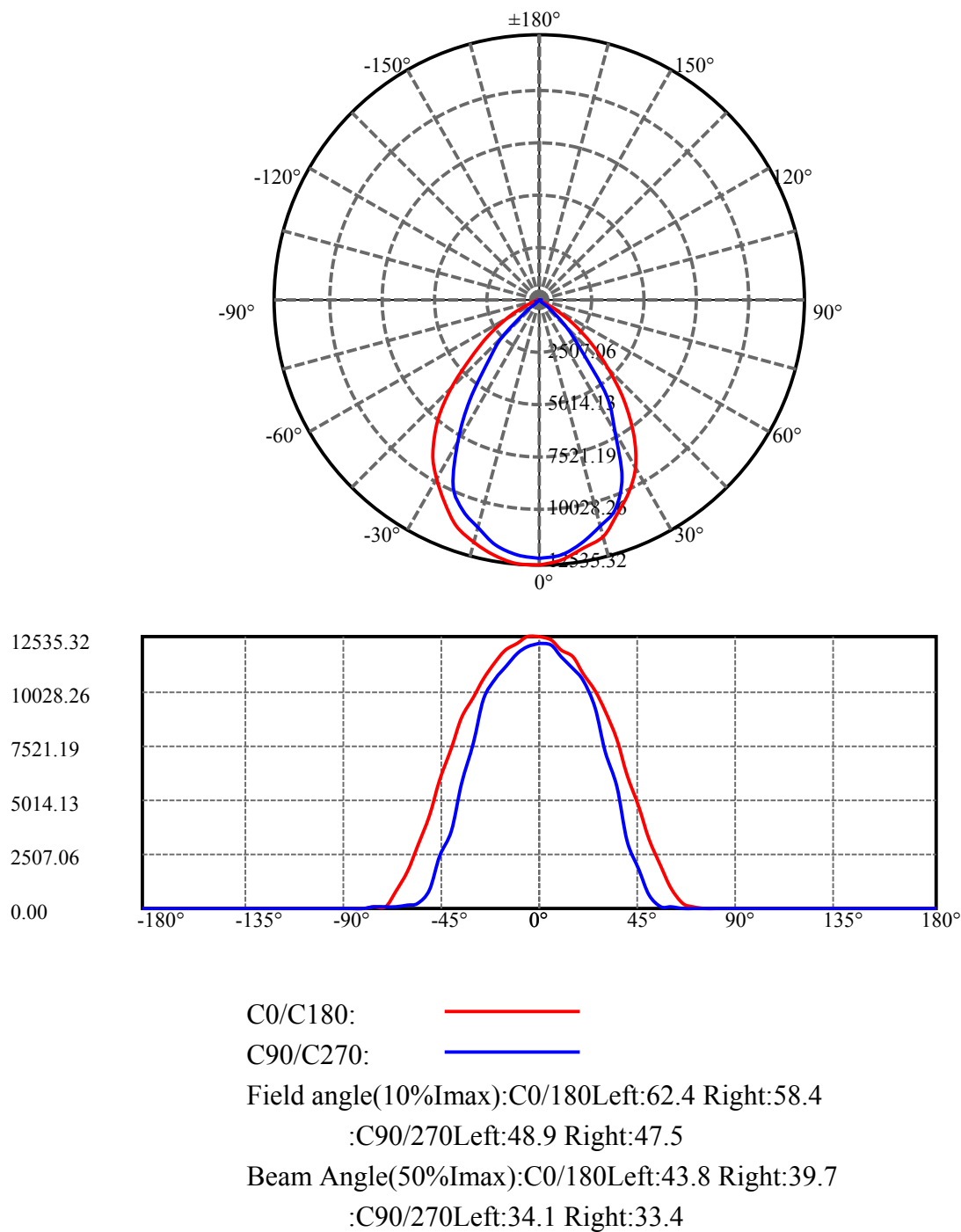
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12268.090	.000	.000	.000%	.000%
5.0	12161.450	292.048	292.048	1.694%	1.694%
10.0	11851.810	859.030	1151.078	4.983%	6.677%
15.0	11332.590	1375.283	2526.360	7.977%	14.654%
20.0	10632.210	1810.207	4336.568	10.500%	25.155%
25.0	9756.453	2138.394	6474.962	12.404%	37.559%
30.0	8551.627	2316.903	8791.865	13.439%	50.998%
35.0	7037.806	2295.653	11087.520	13.316%	64.314%
40.0	5306.050	2059.479	13147.000	11.946%	76.261%
45.0	3645.601	1657.471	14804.470	9.614%	85.875%
50.0	2133.064	1167.664	15972.130	6.773%	92.648%
55.0	1047.726	691.610	16663.740	4.012%	96.660%
60.0	451.898	346.634	17010.380	2.011%	98.671%
65.0	155.429	147.642	17158.020	.856%	99.527%
70.0	49.979	52.011	17210.030	.302%	99.829%
75.0	23.496	19.205	17229.230	.111%	99.940%
80.0	7.291	8.238	17237.470	.048%	99.988%
85.0	.209	2.038	17239.510	.012%	100.000%
90.0	.000	.057	17239.570	.000%	100.000%
95.0	.000	.000	17239.570	.000%	100.000%
100.0	.000	.000	17239.570	.000%	100.000%
105.0	.000	.000	17239.570	.000%	100.000%
110.0	.000	.000	17239.570	.000%	100.000%
115.0	.000	.000	17239.570	.000%	100.000%
120.0	.000	.000	17239.570	.000%	100.000%
125.0	.000	.000	17239.570	.000%	100.000%
130.0	.000	.000	17239.570	.000%	100.000%
135.0	.000	.000	17239.570	.000%	100.000%
140.0	.000	.000	17239.570	.000%	100.000%
145.0	.000	.000	17239.570	.000%	100.000%
150.0	.000	.000	17239.570	.000%	100.000%
155.0	.000	.000	17239.570	.000%	100.000%
160.0	.000	.000	17239.570	.000%	100.000%
165.0	.000	.000	17239.570	.000%	100.000%
170.0	.000	.000	17239.570	.000%	100.000%
175.0	.000	.000	17239.570	.000%	100.000%
180.0	.000	.000	17239.570	.000%	100.000%

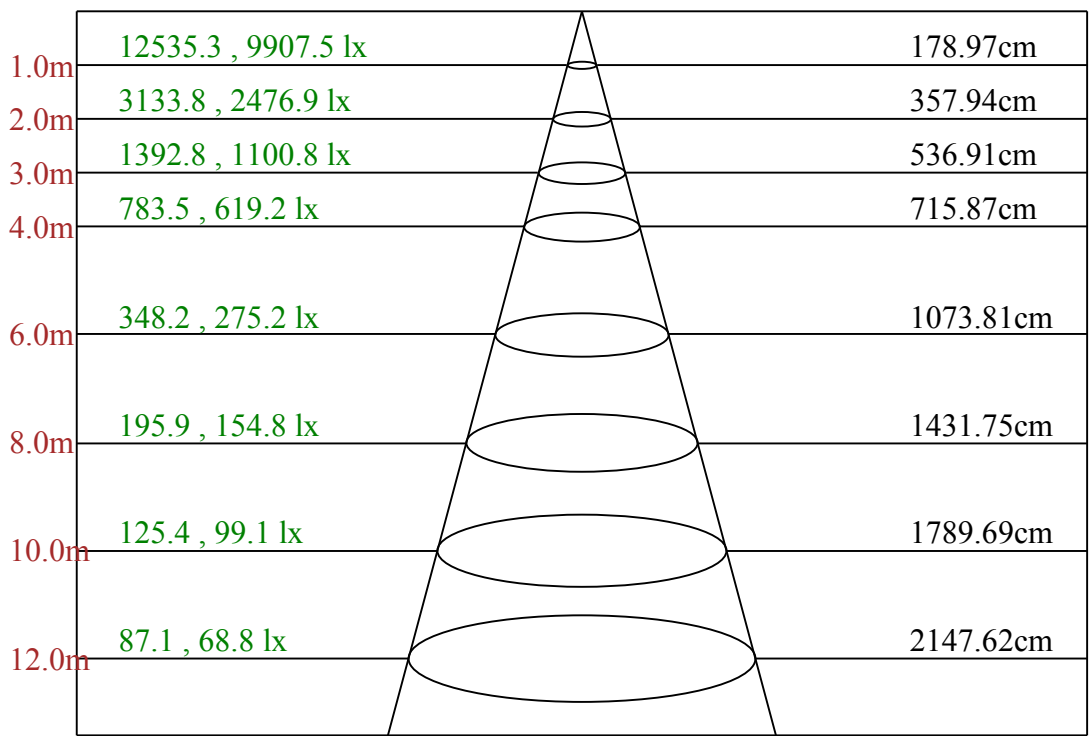
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	8791.87	51.00%	51.00%
0-40	13147.00	76.26%	76.26%
0-60	17010.38	98.67%	98.67%
0-90	17239.57	100.00%	100.00%
0-120	17239.57	100.00%	100.00%
0-180	17239.57	100.00%	100.00%
60-90	575.82	3.34%	3.34%
90-120	0.06	0.00%	0.00%
90-130	0.06	0.00%	0.00%
90-150	0.06	0.00%	0.00%
90-180	0.06	0.00%	0.00%
0-41.94	13791.65	80.00%	80.00%

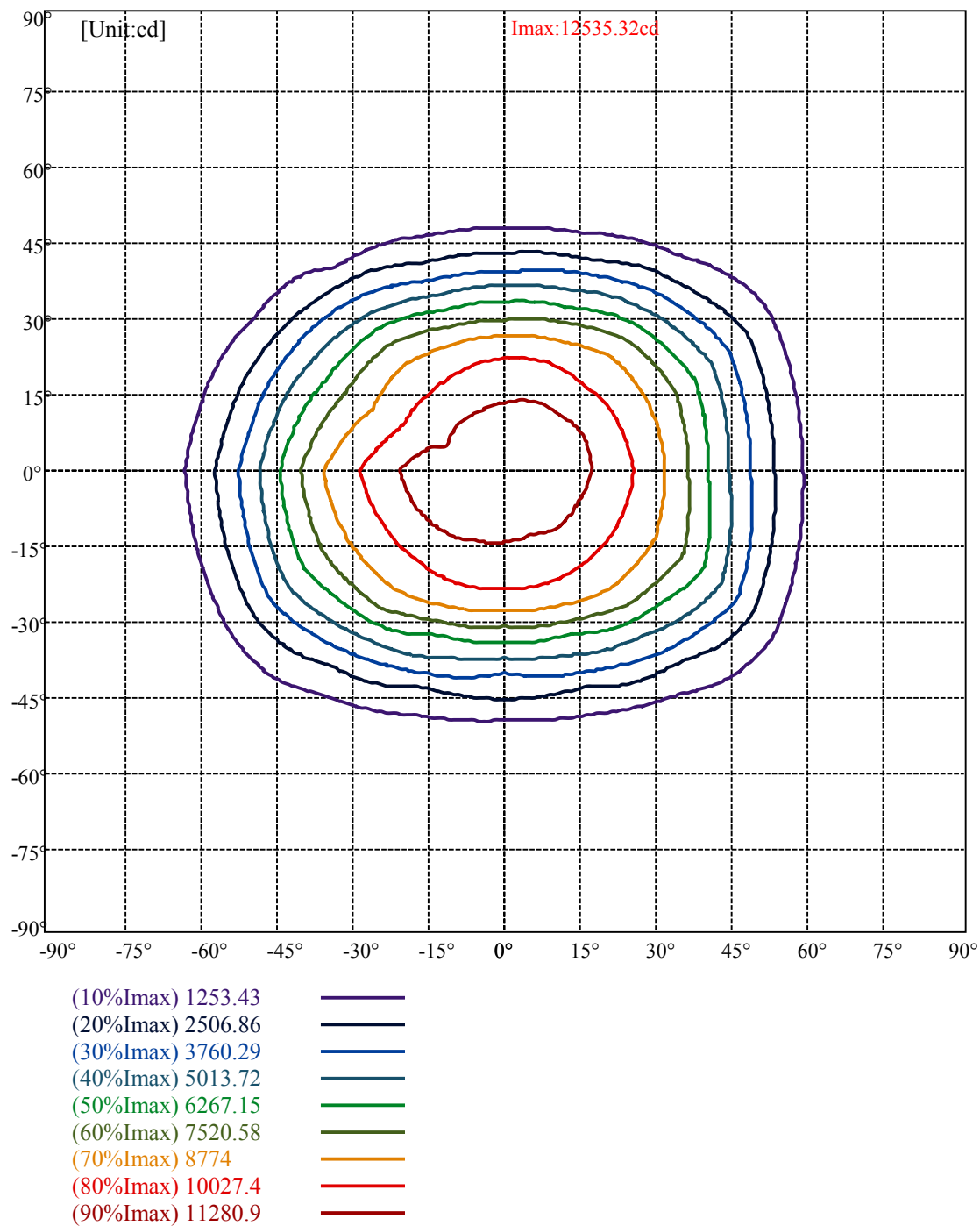
ZONAL LUMEN SUMMARY

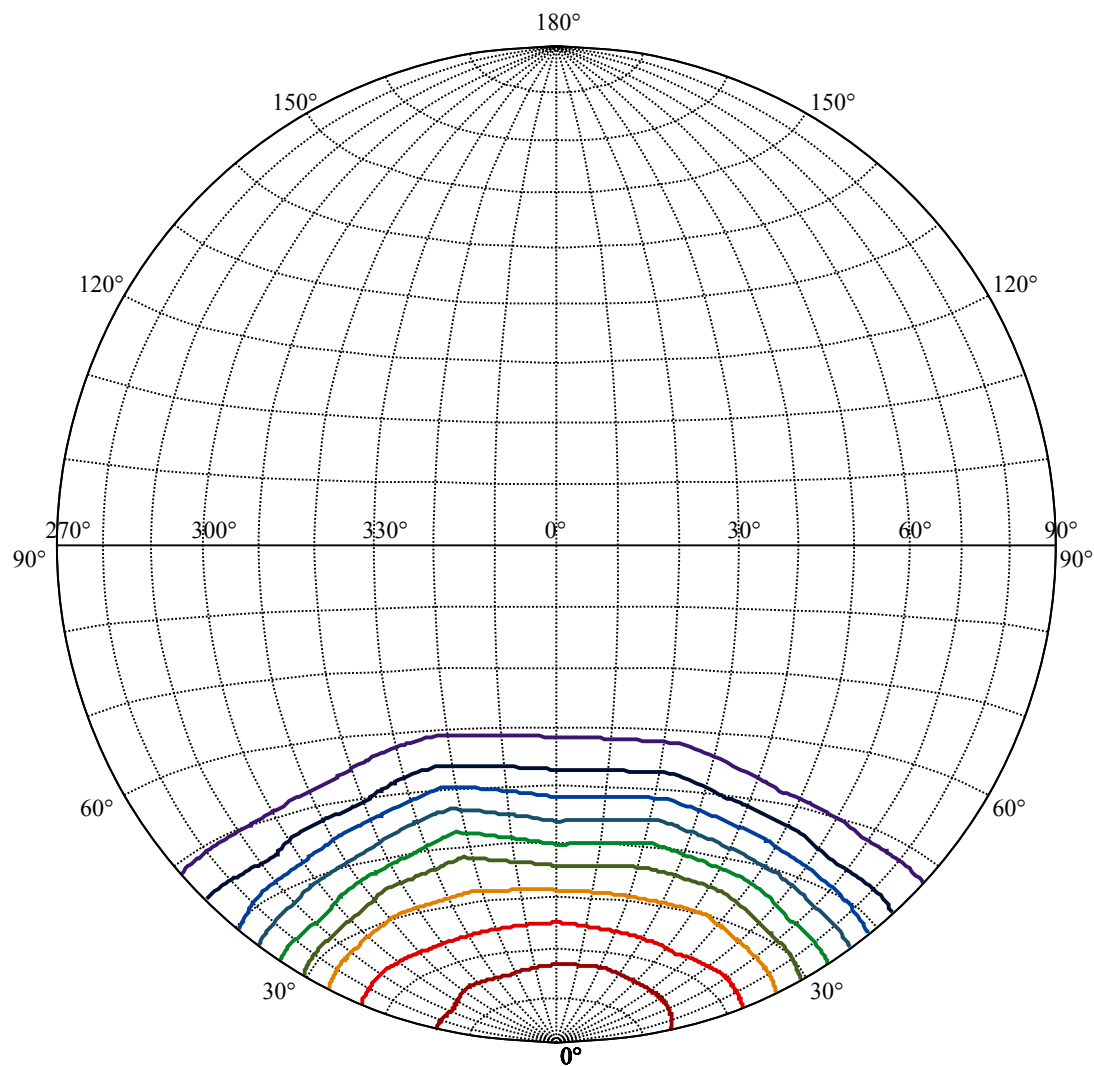
0-10	1151.08
10-20	3185.49
20-30	4455.30
30-40	4355.13
40-50	2825.14
50-60	1038.24
60-70	199.65
70-80	27.44
80-90	2.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0plane83.52



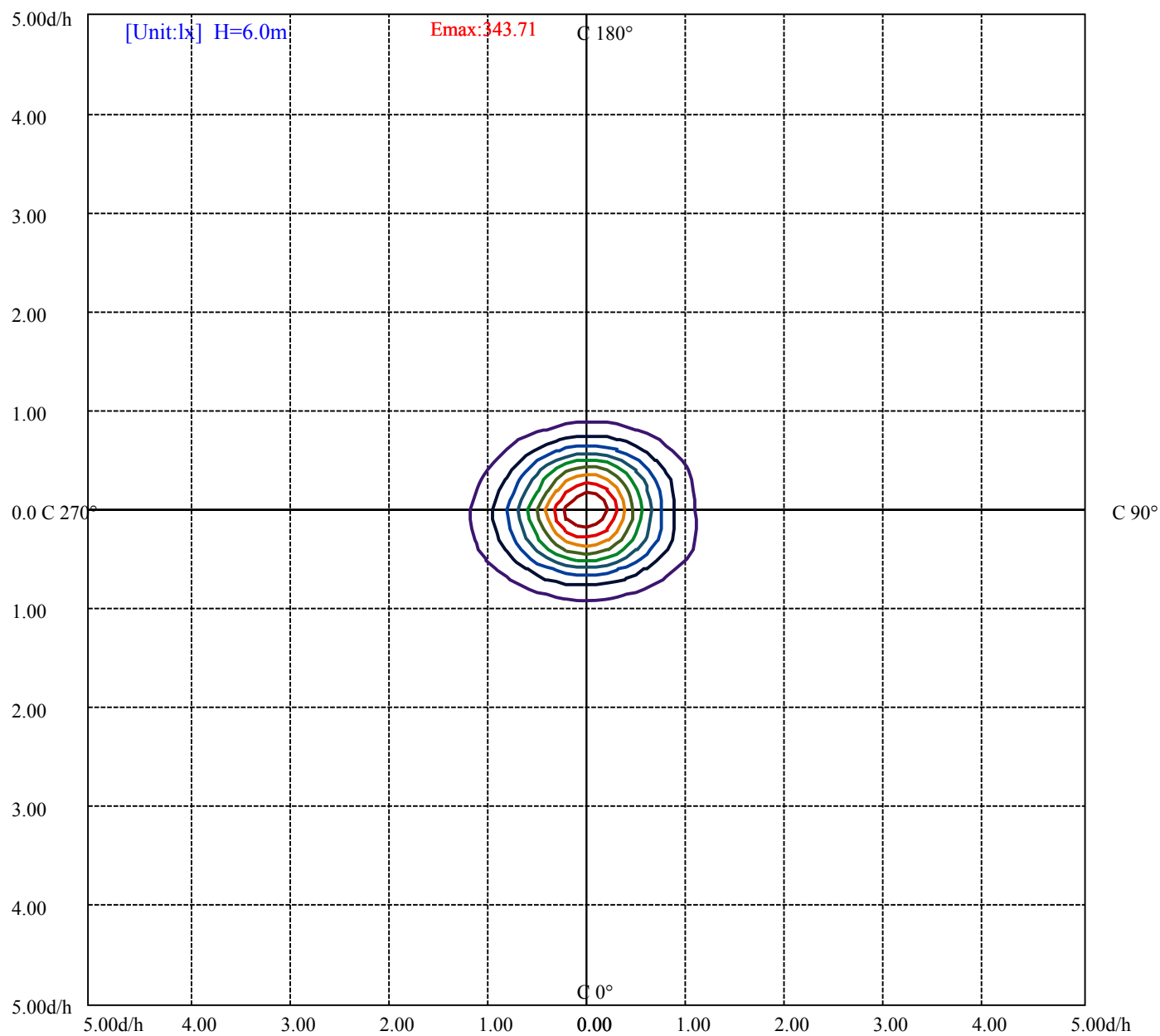


House

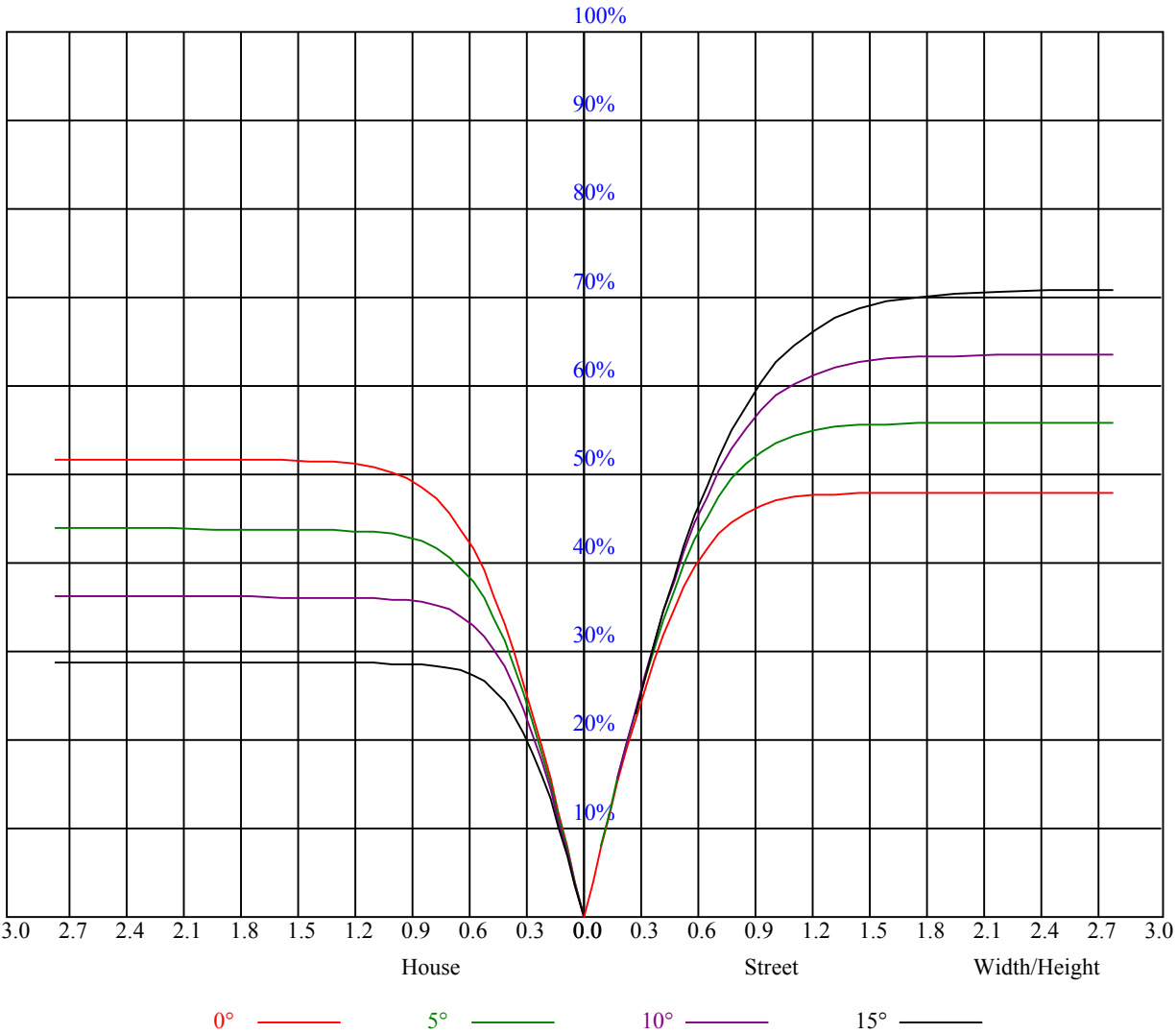
[Unit:cd]

Road

Imax:12535.32	
(10%Imax)	1253.53
(20%Imax)	2507.06
(30%Imax)	3760.6
(40%Imax)	5014.13
(50%Imax)	6267.66
(60%Imax)	7521.19
(70%Imax)	8774.72
(80%Imax)	10028.3
(90%Imax)	11281.8



(10%Emax)	34.37056	—
(20%Emax)	68.74139	—
(30%Emax)	103.1119	—
(40%Emax)	137.4825	—
(50%Emax)	171.8533	—
(60%Emax)	206.2239	—
(70%Emax)	240.5945	—
(80%Emax)	274.9653	—
(90%Emax)	309.3361	—



Intensity data(cd)

Page: 10 Total:11

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	12535.32	12365.73	11921.19	11584.57	10829.10	10073.64	9135.73	7807.24	6170.40
22.5	12455.67	12252.67	11959.73	11561.44	10839.38	9850.08	8950.72	7910.03	6455.63
45.0	12373.44	12260.38	12062.52	11366.15	10420.54	9636.81	8809.39	7316.45	5325.00
67.5	12334.89	12232.11	11890.35	11219.68	10561.86	9595.69	7884.33	5833.78	4127.56
90.0	12239.82	12108.77	11638.53	11078.36	10520.75	9256.50	7265.06	5571.68	3133.12
112.5	12157.59	12077.93	11648.81	10942.17	10240.66	9307.90	7496.32	5607.66	3518.57
135.0	12054.81	11967.44	11638.53	10988.42	10145.59	9351.58	8426.52	6841.07	4903.59
157.5	11993.14	11767.01	11412.40	11101.48	10399.98	9307.90	8485.62	7352.42	5908.30
180.0	12535.32	12530.18	12242.39	11874.93	11350.73	10582.42	9724.17	8832.52	7434.65
202.5	12455.67	12414.55	12206.41	11818.40	11065.51	10163.58	9287.34	8436.80	7005.53
225.0	12373.44	12280.93	12083.07	11564.01	10721.18	9873.21	9076.63	7730.16	5677.04
247.5	12334.89	12203.84	11869.79	11240.24	10602.98	9857.79	8305.75	5895.45	4669.75
270.0	12239.82	12095.92	11731.04	11163.15	10582.42	9662.50	7665.92	5759.27	3549.40
292.5	12157.59	12036.82	11666.80	11116.90	10531.03	9821.82	8254.36	5851.77	4515.57
315.0	12054.81	12008.55	11810.69	11335.32	10602.98	9808.97	8978.99	7529.73	5420.08
337.5	11993.14	11980.29	11846.67	11366.15	10700.62	9952.87	9079.20	8328.87	7082.61
360.0	12535.32	12365.73	11921.19	11584.57	10829.10	10073.64	9135.73	7807.24	6170.40
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	4662.04	3199.93	1943.40	928.40	196.06	67.58	23.90	0.00	0.00
22.5	4924.14	3277.02	1933.12	784.50	160.09	52.16	11.05	0.00	0.00
45.0	3580.24	1689.00	609.77	134.39	47.02	11.05	0.00	0.00	0.00
67.5	1886.86	987.50	118.97	52.16	18.76	0.00	0.00	0.00	0.00
90.0	1825.19	602.06	113.83	54.73	18.76	0.00	0.00	0.00	0.00
112.5	1789.22	874.44	106.13	49.59	18.76	0.77	0.00	0.00	0.00
135.0	3194.80	1157.10	540.39	83.00	34.18	5.91	0.00	0.00	0.00
157.5	4407.65	2732.27	1321.55	468.44	83.00	34.18	3.34	0.00	0.00
180.0	5898.02	4299.73	2878.73	1676.16	784.50	116.40	52.16	18.76	0.00
202.5	5646.20	4037.63	2413.63	1118.55	337.39	98.42	52.16	18.76	0.00
225.0	3914.29	2079.59	982.36	224.33	106.13	62.44	29.04	8.48	0.00
247.5	2287.72	1272.73	198.63	121.54	75.29	47.02	26.47	5.91	0.00
270.0	2431.62	871.87	211.48	144.67	103.56	77.86	44.45	11.05	0.00
292.5	2295.43	1218.77	211.48	126.68	85.57	54.73	34.18	11.05	0.00
315.0	3999.08	1845.75	966.94	203.77	106.13	70.15	39.32	16.19	0.00
337.5	5587.10	3983.67	2213.20	1059.45	311.69	100.99	59.87	26.47	3.34
360.0	4662.04	3199.93	1943.40	928.40	196.06	67.58	23.90	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

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