



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT:

Luminaire:

Report No: N/A

Test No: N/A

LampCAT:

Lamp flux(lm): 5144.3

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.11

Current(A): 0.3308

Power (W): 39.3680

PF: 0.9909

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 5144.30

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 130.67

Central intensity(cd): 1067.617

Maximum intensity(cd): 2179.980

Angle of maximum intensity: C=90.0 γ =45.0

Beam Angle(50%Imax): [C0/180]Total=100.6

[C90/270]Total=136.8

Field angle(10%Imax): [C0/180]Total=162.2

[C90/270]Total=196.6

Maximum s/h(1/2): C0_180=1.16 C90_270=2.50

Maximum s/h(1/4): C0_180=1.65 C90_270=2.36

Up flux rate of lamp(%): 10.16%

Down flux rate of lamp(%): 89.84%

Up flux rate of LUM(%): 10.16%

Down flux rate of LUM(%): 89.84%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 57.969%

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

Date:
Humidity(%): 60%

Operator: Sam

Zonal flux distribution table

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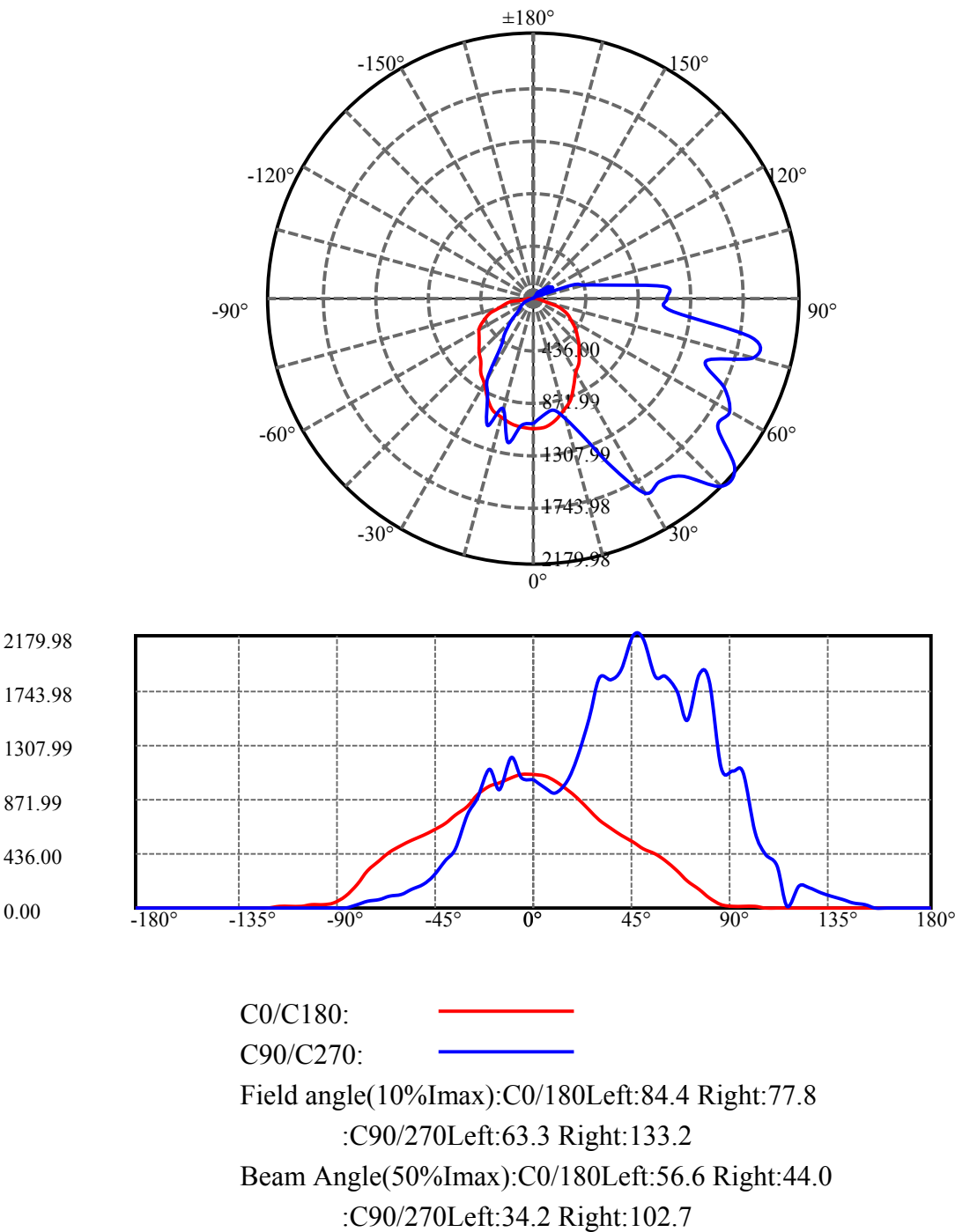
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1035.067	.000	.000	.000%	.000%
5.0	1008.996	24.436	24.436	.475%	.475%
10.0	1068.091	74.304	98.740	1.444%	1.919%
15.0	1029.853	124.449	223.189	2.419%	4.339%
20.0	1036.964	170.335	393.523	3.311%	7.650%
25.0	1054.186	219.323	612.846	4.263%	11.913%
30.0	1084.207	270.616	883.462	5.260%	17.174%
35.0	1022.901	310.286	1193.748	6.032%	23.205%
40.0	980.713	334.288	1528.036	6.498%	29.703%
45.0	948.796	357.264	1885.300	6.945%	36.648%
50.0	905.660	374.720	2260.021	7.284%	43.933%
55.0	799.322	370.720	2630.740	7.206%	51.139%
60.0	720.793	351.370	2982.111	6.830%	57.969%
65.0	658.064	335.203	3317.313	6.516%	64.485%
70.0	559.469	308.287	3625.601	5.993%	70.478%
75.0	555.992	291.564	3917.164	5.668%	76.146%
80.0	523.127	288.742	4205.906	5.613%	81.759%
85.0	345.907	236.137	4442.043	4.590%	86.349%
90.0	310.846	179.824	4621.868	3.496%	89.844%
95.0	291.095	164.816	4786.684	3.204%	93.048%
100.0	179.068	127.755	4914.438	2.483%	95.532%
105.0	126.452	81.749	4996.188	1.589%	97.121%
110.0	78.893	53.674	5049.861	1.043%	98.164%
115.0	32.818	28.286	5078.147	.550%	98.714%
120.0	37.511	17.097	5095.244	.332%	99.046%
125.0	31.506	15.953	5111.197	.310%	99.357%
130.0	25.929	12.488	5123.686	.243%	99.599%
135.0	18.882	9.055	5132.740	.176%	99.775%
140.0	13.194	5.939	5138.679	.115%	99.891%
145.0	7.979	3.533	5142.212	.069%	99.959%
150.0	3.144	1.638	5143.850	.032%	99.991%
155.0	.205	.424	5144.274	.008%	100.000%
160.0	.000	.022	5144.295	.000%	100.000%
165.0	.000	.000	5144.295	.000%	100.000%
170.0	.000	.000	5144.295	.000%	100.000%
175.0	.000	.000	5144.295	.000%	100.000%
180.0	.000	.000	5144.295	.000%	100.000%

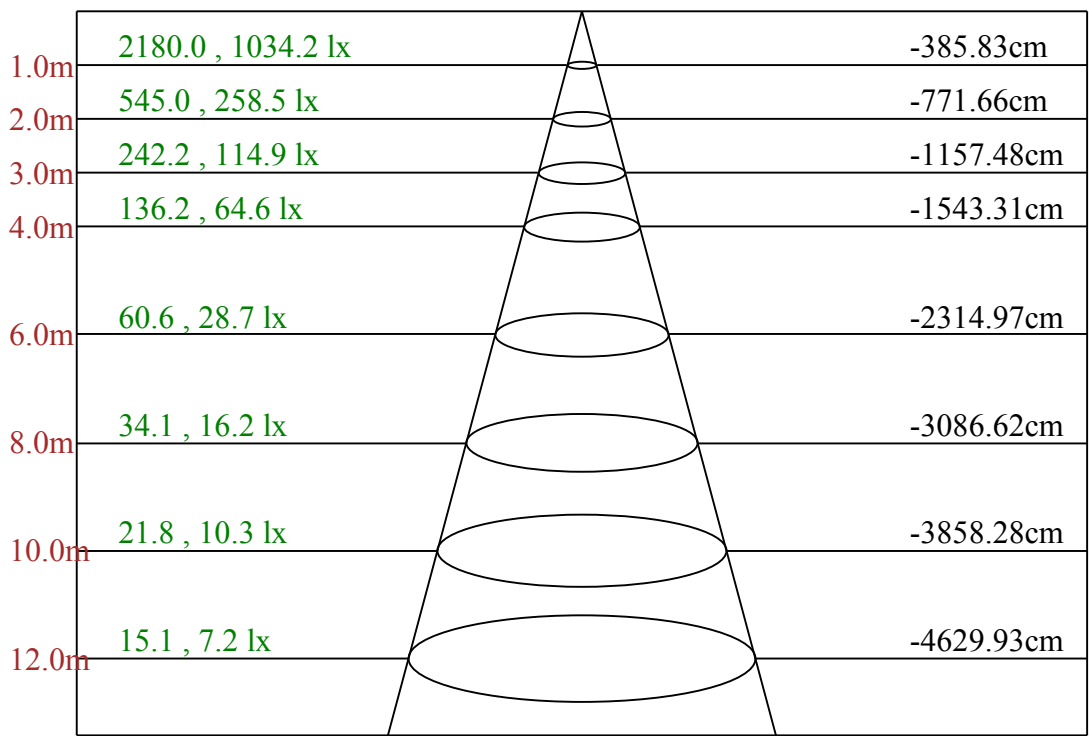
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	883.46	17.17%	17.17%
0-40	1528.04	29.70%	29.70%
0-60	2982.11	57.97%	57.97%
0-90	4621.87	89.84%	89.84%
0-120	5095.24	99.05%	99.05%
0-180	5144.30	100.00%	100.00%
60-90	1991.13	38.71%	38.71%
90-120	653.20	12.70%	12.70%
90-130	681.64	13.25%	13.25%
90-150	701.81	13.64%	13.64%
90-180	702.25	13.65%	13.65%
0-78.43	4115.44	80.00%	80.00%

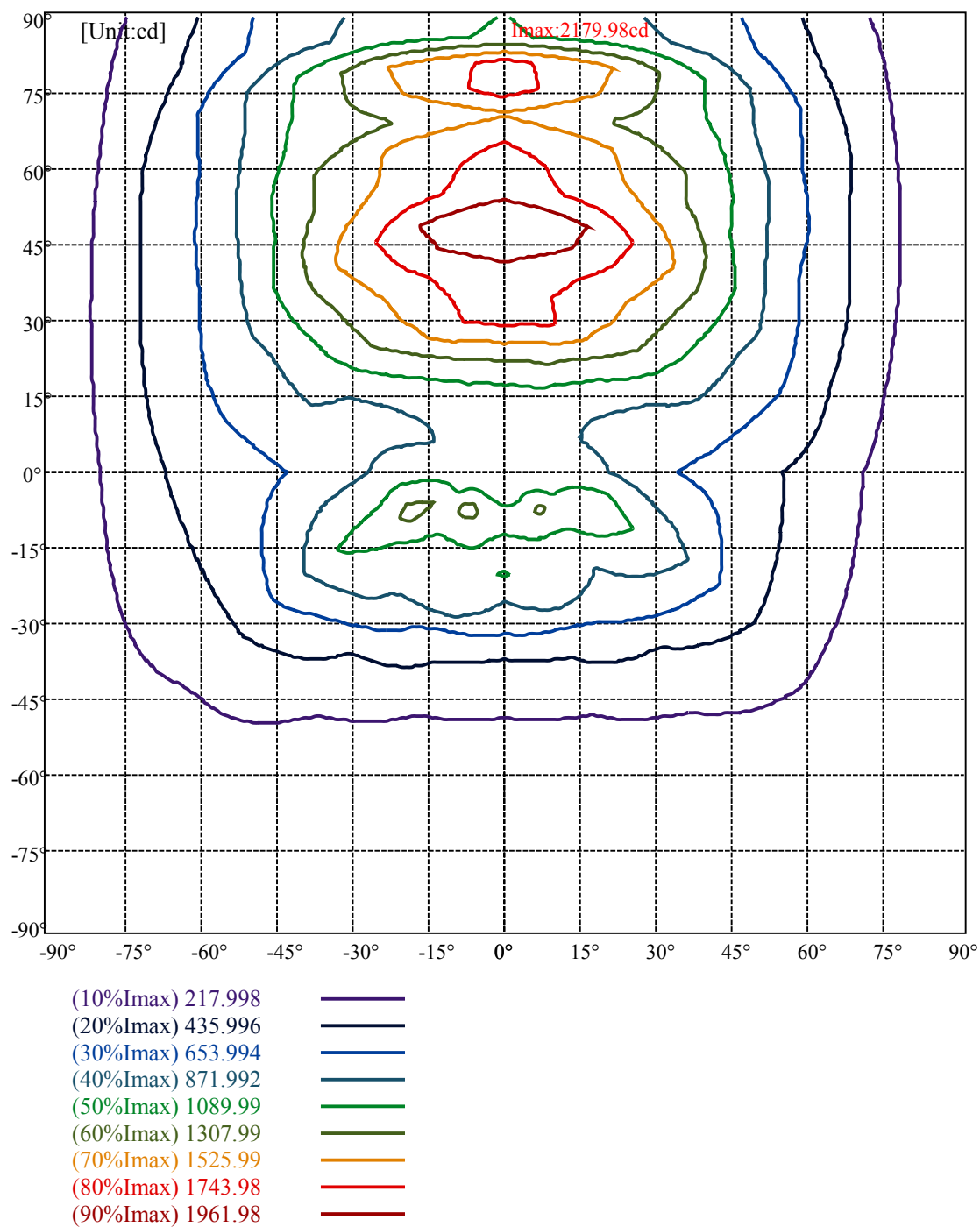
ZONAL LUMEN SUMMARY

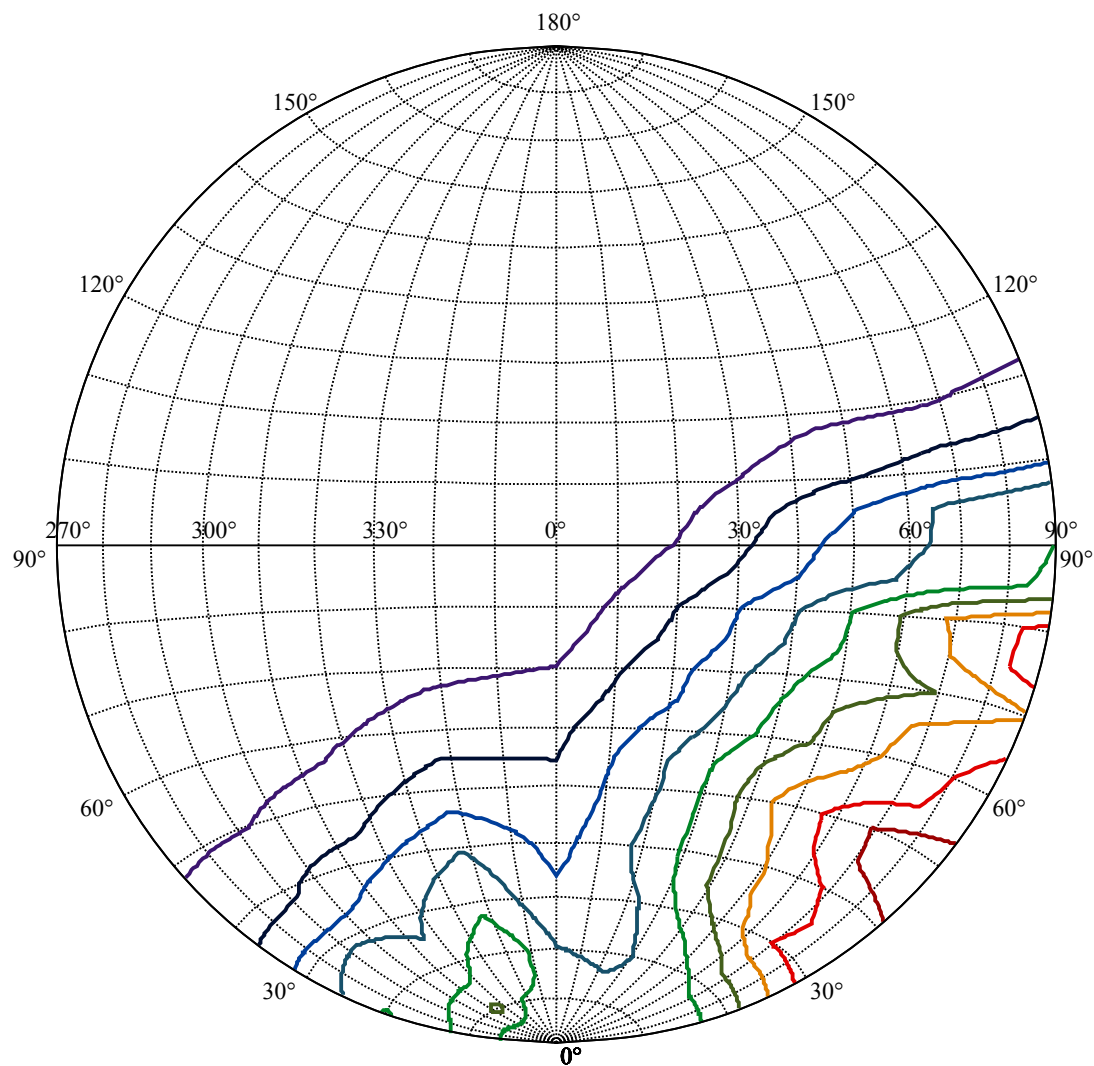
0-10	98.74
10-20	294.78
20-30	489.94
30-40	644.57
40-50	731.98
50-60	722.09
60-70	643.49
70-80	580.31
80-90	415.96
90-100	292.57
100-110	135.42
110-120	45.38
120-130	28.44
130-140	14.99
140-150	5.17
150-160	0.45
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C90plane136.49



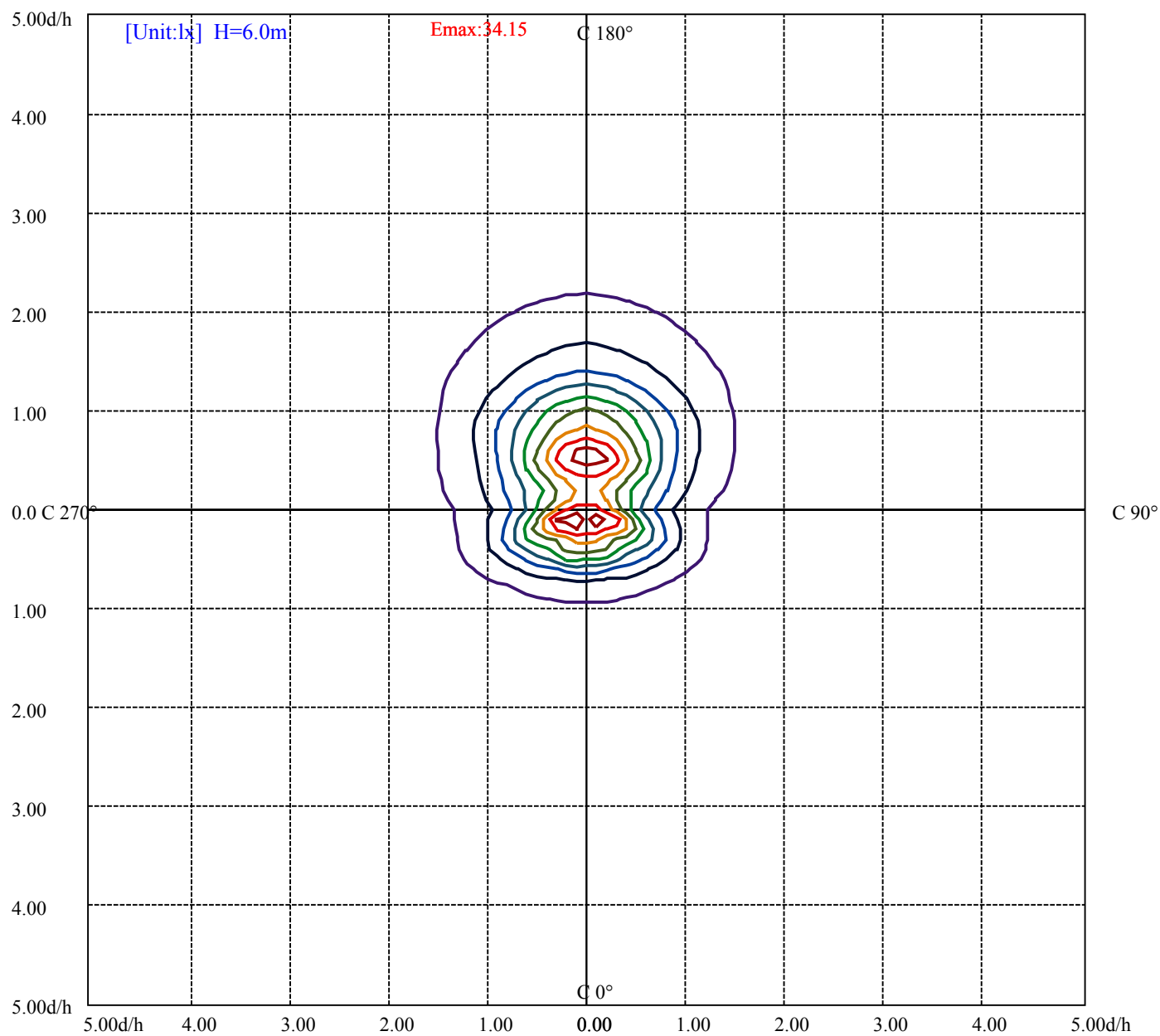


House

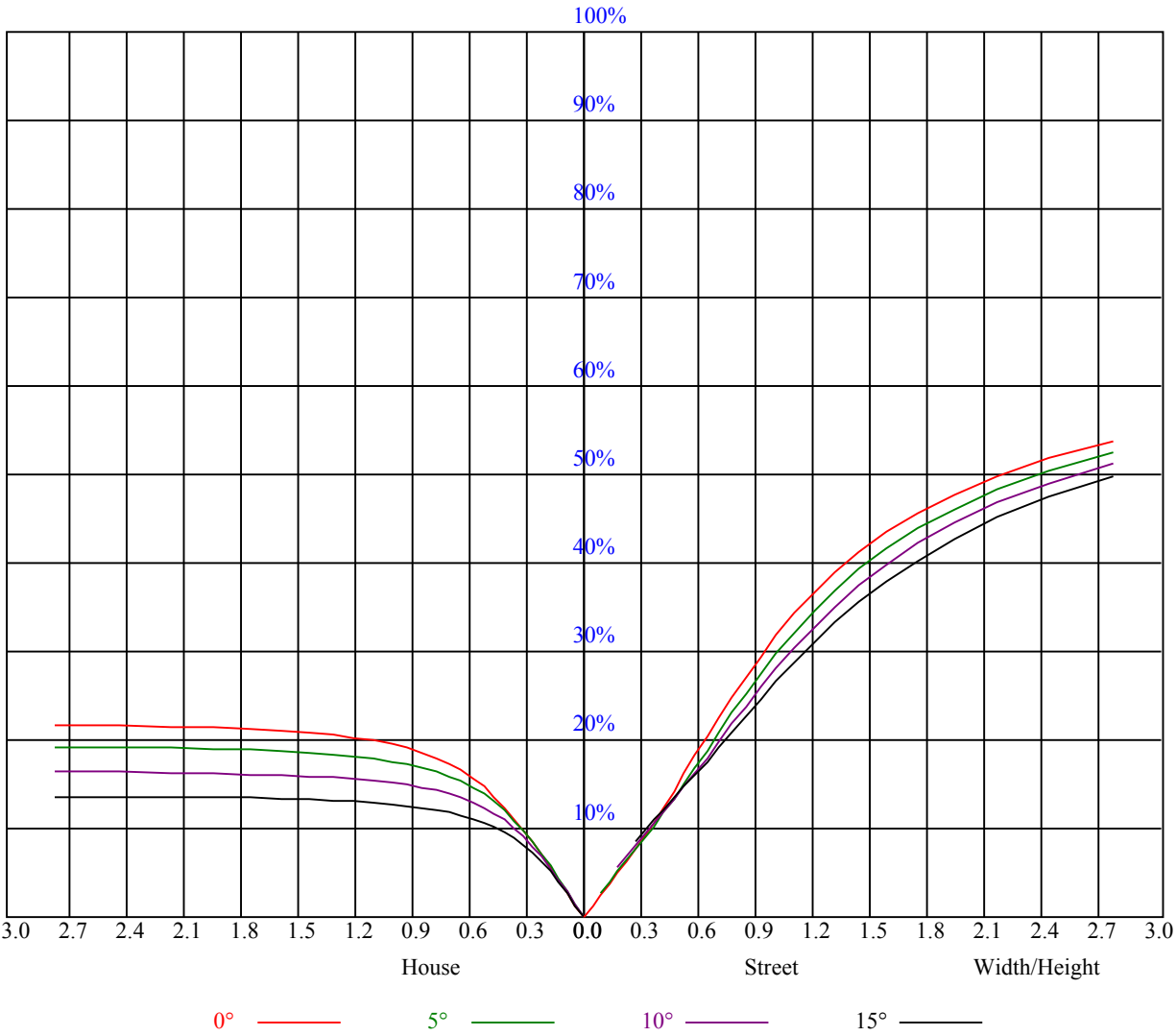
[Unit:cd]

Road

Imax:2179.98	
(10%Imax) 217.998	
(20%Imax) 435.996	
(30%Imax) 653.994	
(40%Imax) 871.992	
(50%Imax) 1089.99	
(60%Imax) 1307.99	
(70%Imax) 1525.99	
(80%Imax) 1743.98	
(90%Imax) 1961.98	



(10%Emax) 3.415361	—
(20%Emax) 6.830722	—
(30%Emax) 10.24611	—
(40%Emax) 13.66147	—
(50%Emax) 17.07683	—
(60%Emax) 20.4922	—
(70%Emax) 23.90755	—
(80%Emax) 27.32294	—
(90%Emax) 30.73833	—



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	1067.62	1054.98	1009.47	946.27	883.07	784.47	698.51	642.90	582.22
22.5	1062.56	991.77	948.80	888.12	814.81	819.86	852.73	910.87	956.38
45.0	1034.75	976.61	920.99	910.87	974.08	1100.48	1285.03	1444.30	1446.83
67.5	1027.17	974.08	941.21	999.36	1173.80	1424.08	1735.04	1712.28	1742.62
90.0	1027.17	956.38	923.52	1014.53	1211.72	1520.15	1836.16	1826.05	1904.42
112.5	1006.94	951.32	913.40	974.08	1135.88	1378.57	1707.23	1722.39	1740.09
135.0	1022.11	956.38	905.82	890.65	958.91	1080.26	1242.06	1408.91	1421.55
157.5	1032.22	969.02	926.04	870.43	814.81	797.11	822.39	880.54	946.27
180.0	1067.62	1065.09	1042.34	1006.94	969.02	900.76	807.22	738.96	678.29
202.5	1062.56	1034.75	1077.73	1307.79	1403.85	1199.08	1156.10	1105.54	971.55
225.0	1034.75	1032.22	1416.49	1183.91	966.49	926.04	898.23	829.98	640.37
247.5	1027.17	1054.98	1229.42	1118.18	974.08	1044.86	878.01	493.74	425.48
270.0	1027.17	1042.34	1201.61	941.21	1113.12	880.54	746.55	468.46	372.39
292.5	1006.94	1037.28	1206.66	1067.62	943.74	989.25	827.45	481.10	415.37
315.0	1022.11	1029.70	1368.46	1113.12	958.91	875.48	819.86	744.02	584.75
337.5	1032.22	1017.06	1057.50	1244.58	1295.15	1145.99	1034.75	956.38	862.84
360.0	1067.62	1054.98	1009.47	946.27	883.07	784.47	698.51	642.90	582.22
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	521.55	478.57	430.54	374.92	304.13	220.70	144.86	76.60	28.57
22.5	936.16	903.29	898.23	794.58	673.23	635.31	526.60	478.57	349.64
45.0	1474.64	1535.32	1454.42	1269.87	1237.00	1120.71	1004.41	958.91	731.38
67.5	1919.59	1952.45	1676.89	1593.46	1537.84	1292.62	1474.64	1515.09	979.13
90.0	2179.98	2154.70	1851.33	1856.38	1732.51	1502.45	1863.97	1820.99	1128.29
112.5	1912.00	1960.04	1694.59	1613.69	1580.82	1300.20	1492.34	1540.37	1004.41
135.0	1451.89	1527.73	1456.94	1295.15	1264.81	1123.24	1057.50	1012.00	751.60
157.5	923.52	895.71	890.65	807.22	701.04	658.06	559.47	524.08	374.92
180.0	627.73	587.28	546.83	506.38	453.29	382.50	301.60	195.42	94.30
202.5	812.28	668.18	508.91	392.61	291.49	187.84	124.64	74.07	33.62
225.0	438.12	339.52	248.51	175.20	119.58	81.66	48.79	23.51	10.87
247.5	311.72	213.12	154.97	119.58	86.71	63.96	46.26	20.98	0.76
270.0	263.68	187.84	142.33	114.52	96.83	74.07	48.79	20.98	0.00
292.5	304.13	213.12	154.97	114.52	86.71	61.43	43.74	20.98	0.00
315.0	410.31	321.83	238.40	172.67	117.05	76.60	48.79	26.04	13.40
337.5	693.46	551.88	440.65	331.94	245.98	170.14	109.47	61.43	33.62
360.0	521.55	478.57	430.54	374.92	304.13	220.70	144.86	76.60	28.57
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	15.93	13.40	8.34	5.82	3.29	0.76	0.00	0.00	0.00
22.5	253.57	213.12	139.80	94.30	56.38	33.62	18.46	15.93	5.82
45.0	670.71	577.17	379.97	273.79	165.09	96.83	69.02	48.79	38.68
67.5	910.87	910.87	549.36	379.97	187.84	112.00	112.00	106.94	96.83
90.0	1090.37	1085.31	604.97	433.06	334.47	18.46	177.73	157.50	127.16
112.5	948.80	938.68	579.69	407.78	256.10	109.47	122.11	109.47	99.35
135.0	728.85	632.78	417.90	304.13	182.78	104.41	76.60	51.32	41.21
157.5	278.85	233.34	147.39	99.35	61.43	36.15	18.46	13.40	5.82
180.0	43.74	28.57	20.98	18.46	13.40	13.40	5.82	0.76	0.00
202.5	15.93	13.40	10.87	3.29	0.76	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	15.93	10.87	5.82	3.29	0.76	0.00	0.00	0.00	0.00
360.0	15.93	13.40	8.34	5.82	3.29	0.76	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	33.62	20.98	10.87	0.00	0.00	0.00	0.00	0.00	0.00
67.5	71.55	51.32	33.62	15.93	0.00	0.00	0.00	0.00	0.00
90.0	89.24	66.49	43.74	20.98	3.29	0.00	0.00	0.00	0.00
112.5	74.07	53.85	31.10	13.40	0.00	0.00	0.00	0.00	0.00
135.0	33.62	18.46	8.34	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