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Hangzhou Dreamy Technology Co.,Ltd.

LumCAT:

Luminaire: EMLEDBM

Report No:

Voltage(V): 4.5000

Test No:

Current(A): 0.4550

LampCAT:

Power (W): 2.0500

Lamp flux(lm)

PF: 1.0006

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 175.68

Lumens(lm)/Power(W): 85.70

Central intensity(cd): 47.426

Maximum intensity(cd): 65.859

Angle of maximum intensity: C=0.0 γ =20.0

Beam Angle(50%Imax): [C0/180]Total=140.6

[C90/270]Total=118.1

Field angle(10%Imax): [C0/180]Total=166.3

[C90/270]Total=149.0

Maximum s/h(1/2): C0_180=1.48 C90_270=1.32

Maximum s/h(1/4): C0_180=1.47 C90_270=1.34

Up flux rate of LUM(%): 2.05%

Down flux rate of LUM(%): 97.95%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 73.038%

Equipment:
Temperature(°C): 25.0

Date: 2017-4-25
Humidity(%): 60.0%

Operator: Alcander
Distance(m): 14.12

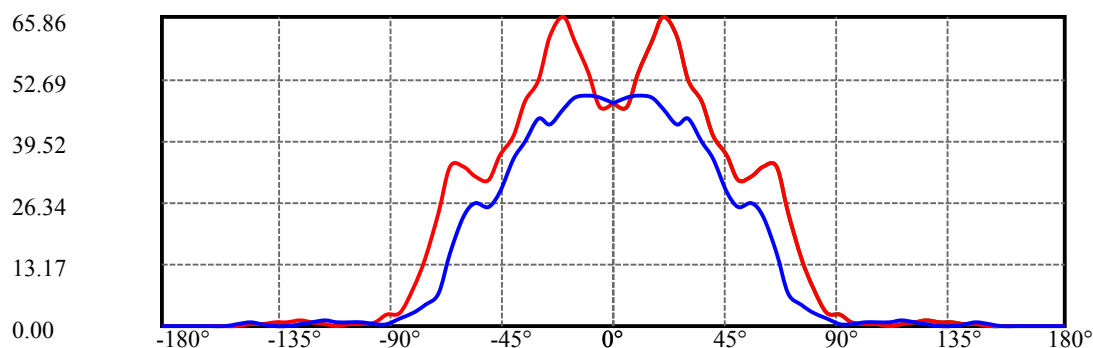
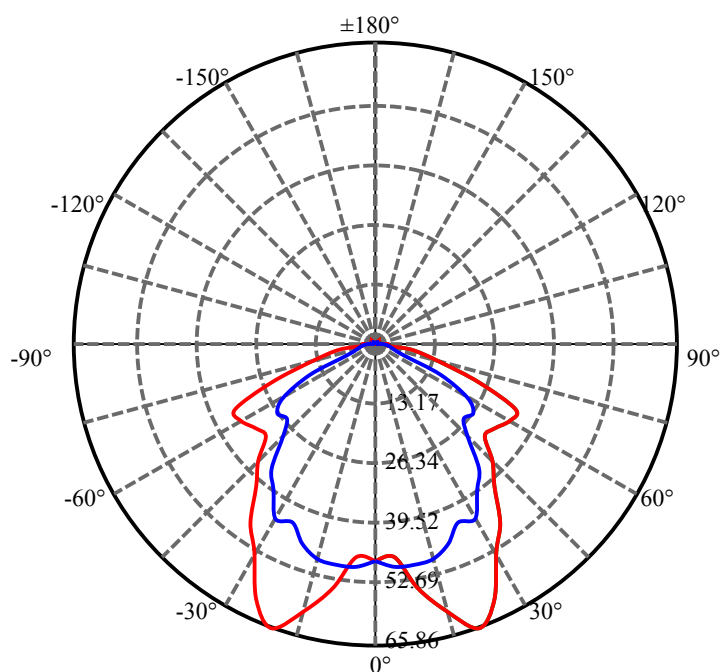
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	47.426	.000	.000	.000%	.000%	.000%
5.0	48.636	1.148	1.148	.654%	.654%	.654%
10.0	52.045	3.602	4.750	2.050%	2.704%	2.704%
15.0	54.171	6.301	11.051	3.586%	6.290%	6.290%
20.0	57.258	9.183	20.234	5.227%	11.518%	11.518%
25.0	55.501	11.826	32.060	6.732%	18.249%	18.249%
30.0	52.765	13.701	45.762	7.799%	26.048%	26.048%
35.0	48.994	14.985	60.746	8.530%	34.578%	34.578%
40.0	42.055	15.191	75.937	8.647%	43.225%	43.225%
45.0	34.774	14.226	90.163	8.097%	51.323%	51.323%
50.0	29.356	12.959	103.121	7.376%	58.699%	58.699%
55.0	28.129	12.499	115.620	7.115%	65.814%	65.814%
60.0	26.777	12.691	128.312	7.224%	73.038%	73.038%
65.0	26.530	12.959	141.271	7.376%	80.414%	80.414%
70.0	19.765	11.722	152.993	6.672%	87.087%	87.087%
75.0	13.351	8.656	161.649	4.927%	92.014%	92.014%
80.0	8.135	5.749	167.398	3.272%	95.287%	95.287%
85.0	3.538	3.172	170.569	1.805%	97.092%	97.092%
90.0	1.993	1.514	172.084	.862%	97.954%	97.954%
95.0	.810	.767	172.851	.437%	98.391%	98.391%
100.0	.523	.362	173.213	.206%	98.597%	98.597%
105.0	.561	.290	173.503	.165%	98.762%	98.762%
110.0	.611	.307	173.810	.174%	98.936%	98.936%
115.0	.773	.350	174.160	.199%	99.136%	99.136%
120.0	.760	.373	174.533	.212%	99.348%	99.348%
125.0	.635	.322	174.855	.184%	99.532%	99.532%
130.0	.485	.244	175.099	.139%	99.670%	99.670%
135.0	.423	.184	175.283	.105%	99.775%	99.775%
140.0	.449	.161	175.444	.092%	99.867%	99.867%
145.0	.374	.137	175.581	.078%	99.945%	99.945%
150.0	.125	.073	175.655	.042%	99.987%	99.987%
155.0	.013	.017	175.672	.010%	99.996%	99.996%
160.0	.025	.004	175.676	.002%	99.999%	99.999%
165.0	.000	.002	175.678	.001%	100.000%	100.000%
170.0	.000	.000	175.678	.000%	100.000%	100.000%
175.0	.000	.000	175.678	.000%	100.000%	100.000%
180.0	.025	.000	175.678	.000%	100.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	45.76	26.05%
0-40	75.94	43.23%
0-60	128.31	73.04%
0-90	172.08	97.95%
0-120	174.53	99.35%
0-180	175.68	100.00%
60-90	56.46	32.14%
90-120	3.96	2.26%
90-130	4.53	2.58%
90-150	5.09	2.89%
90-180	5.11	2.91%
0-64.72	140.54	80.00%

ZONAL LUMEN SUMMARY

0-10	4.75
10-20	15.48
20-30	25.53
30-40	30.18
40-50	27.18
50-60	25.19
60-70	24.68
70-80	14.40
80-90	4.69
90-100	1.13
100-110	0.60
110-120	0.72
120-130	0.57
130-140	0.35
140-150	0.21
150-160	0.02
160-170	0.00
170-180	0.00



C0(Max):

C0/C180:

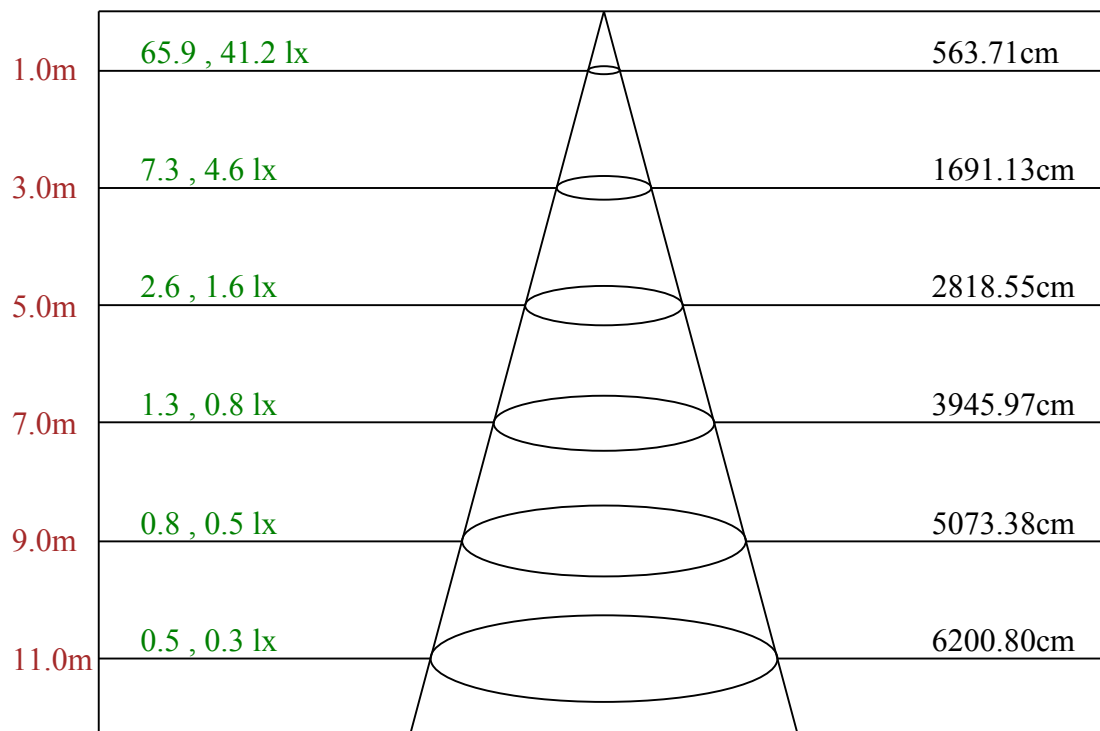
C90/C270:

Field angle(10%Imax):C0/180Left:83.2 Right:83.2

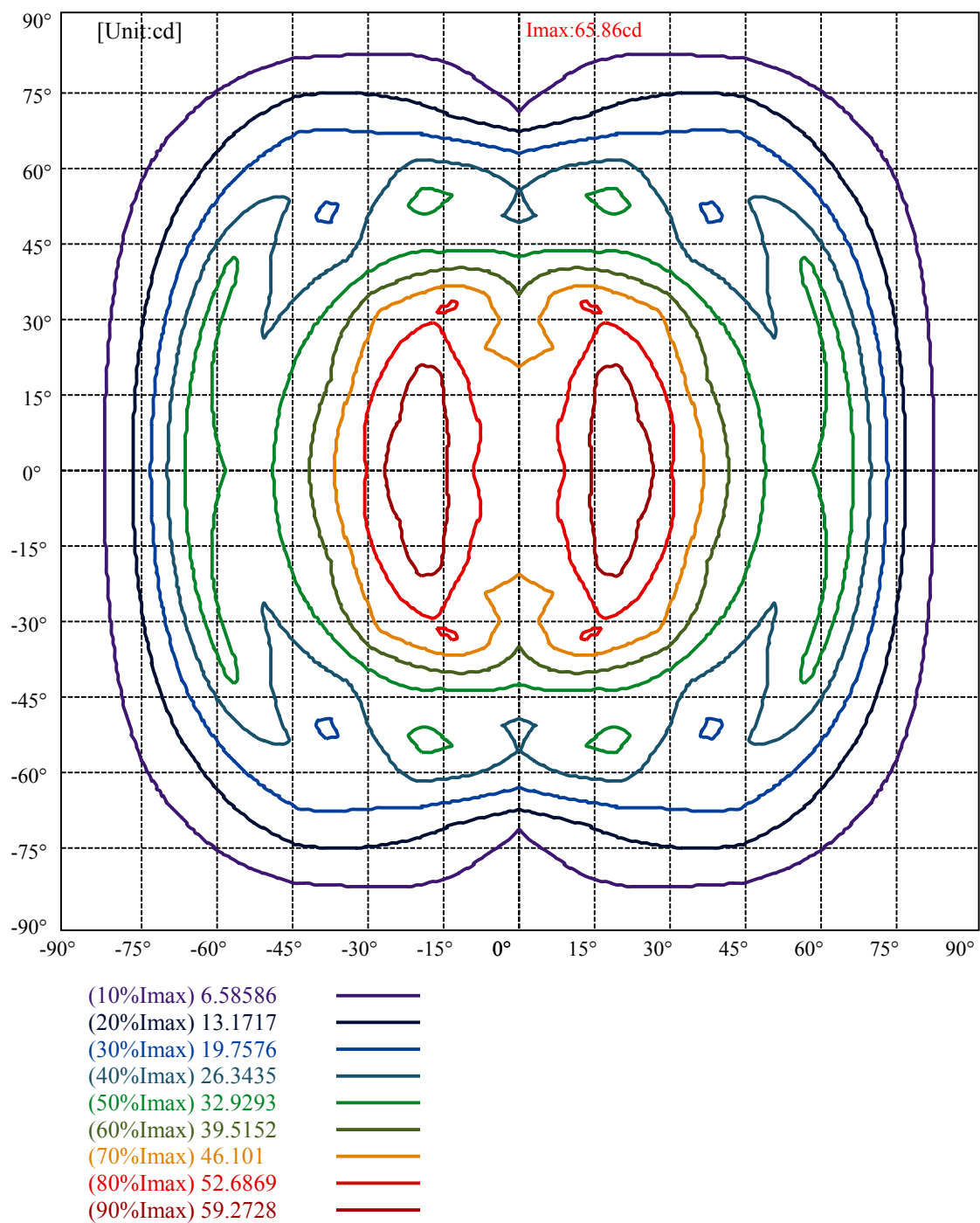
:C90/270Left:74.5 Right:74.5

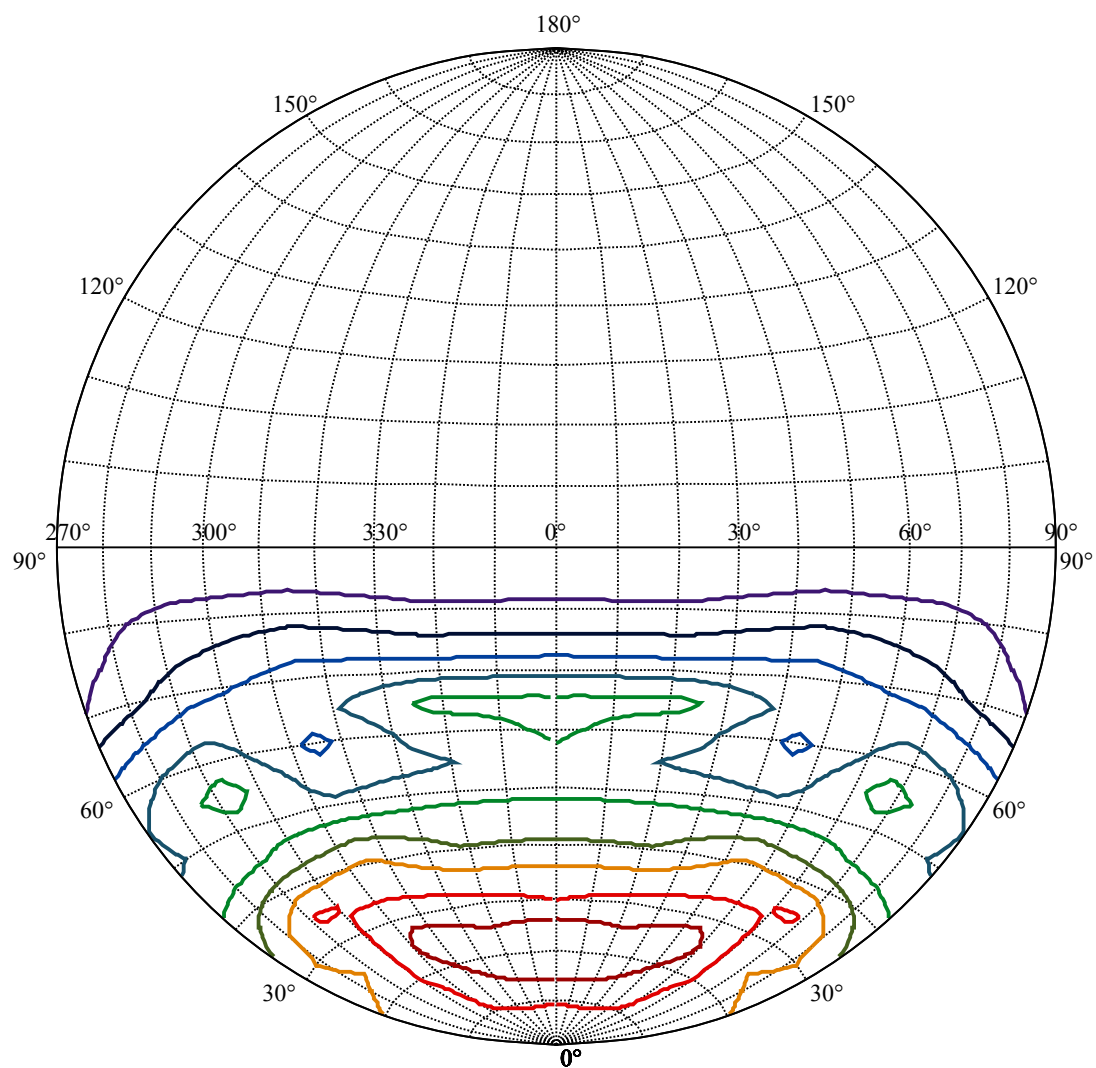
Beam Angle(50%Imax):C0/180Left:70.3 Right:70.3

:C90/270Left:59.0 Right:59.0



Max , Ave Beam angle of C0plane140.93





House

[Unit:cd]

Road

Imax:65.86

(10%Imax) 6.58586

(20%Imax) 13.1717

(30%Imax) 19.7576

(40%Imax) 26.3435

(50%Imax) 32.9293

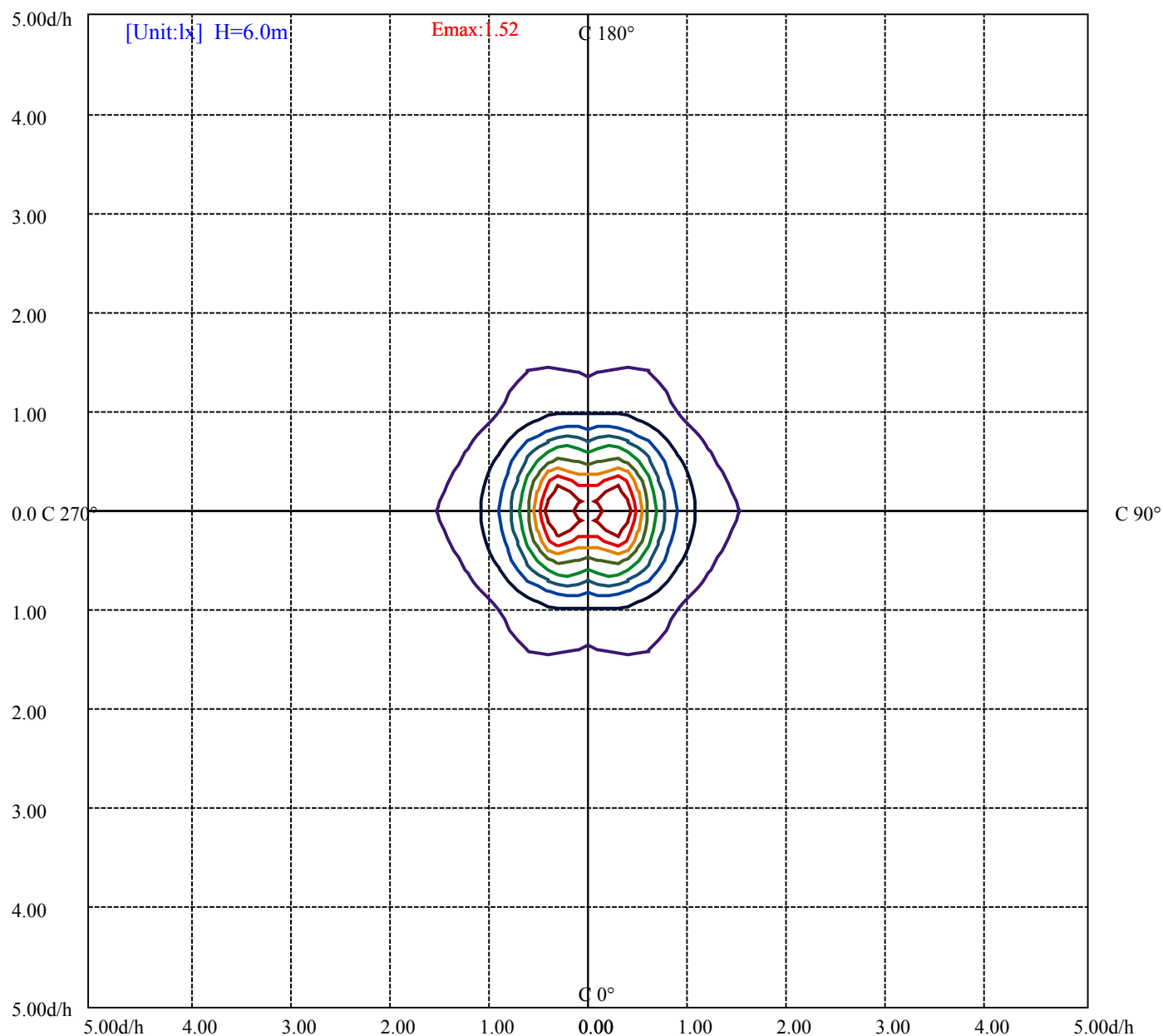
(60%Imax) 39.5152

(70%Imax) 46.101

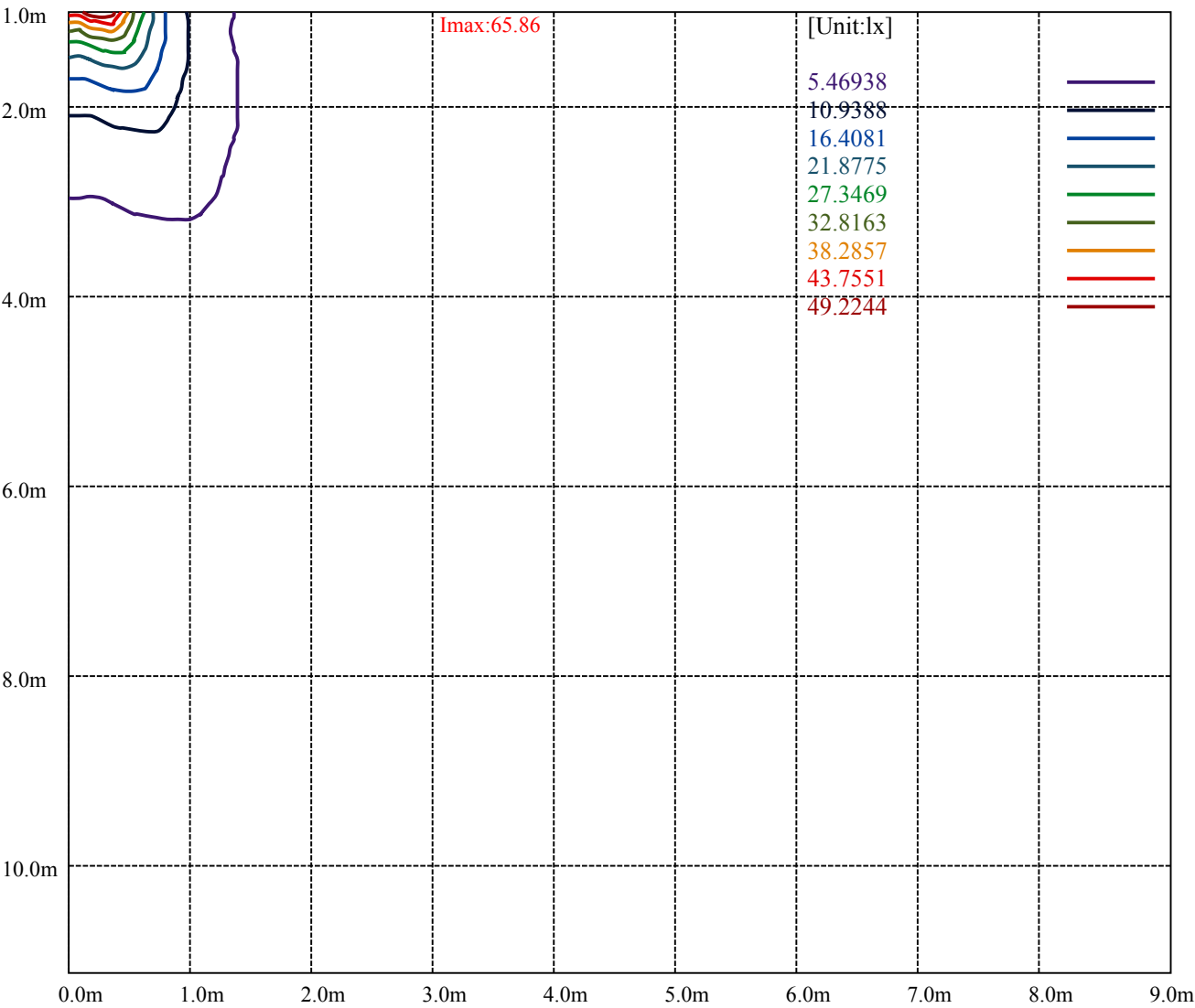
(80%Imax) 52.6869

(90%Imax) 59.2728





(10%Emax) 0.1519272	—
(20%Emax) 0.3038555	—
(30%Emax) 0.4557806	—
(40%Emax) 0.6077083	—
(50%Emax) 0.7596362	—
(60%Emax) 0.9115639	—
(70%Emax) 1.063492	—
(80%Emax) 1.215417	—
(90%Emax) 1.367344	—



Luminance Table

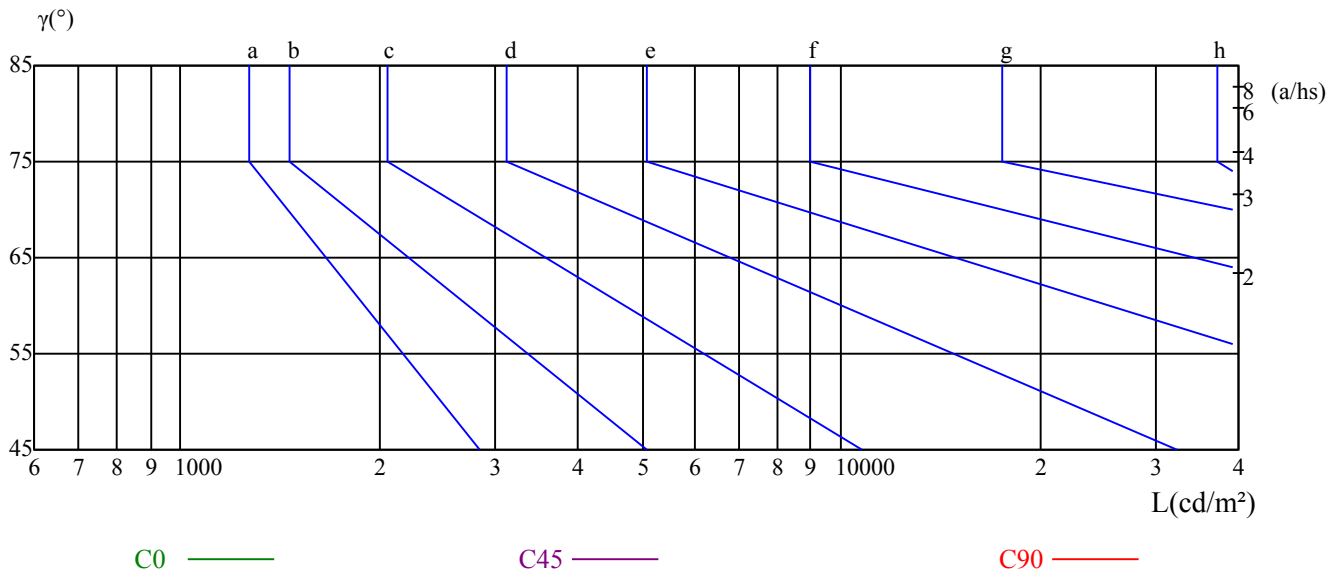
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

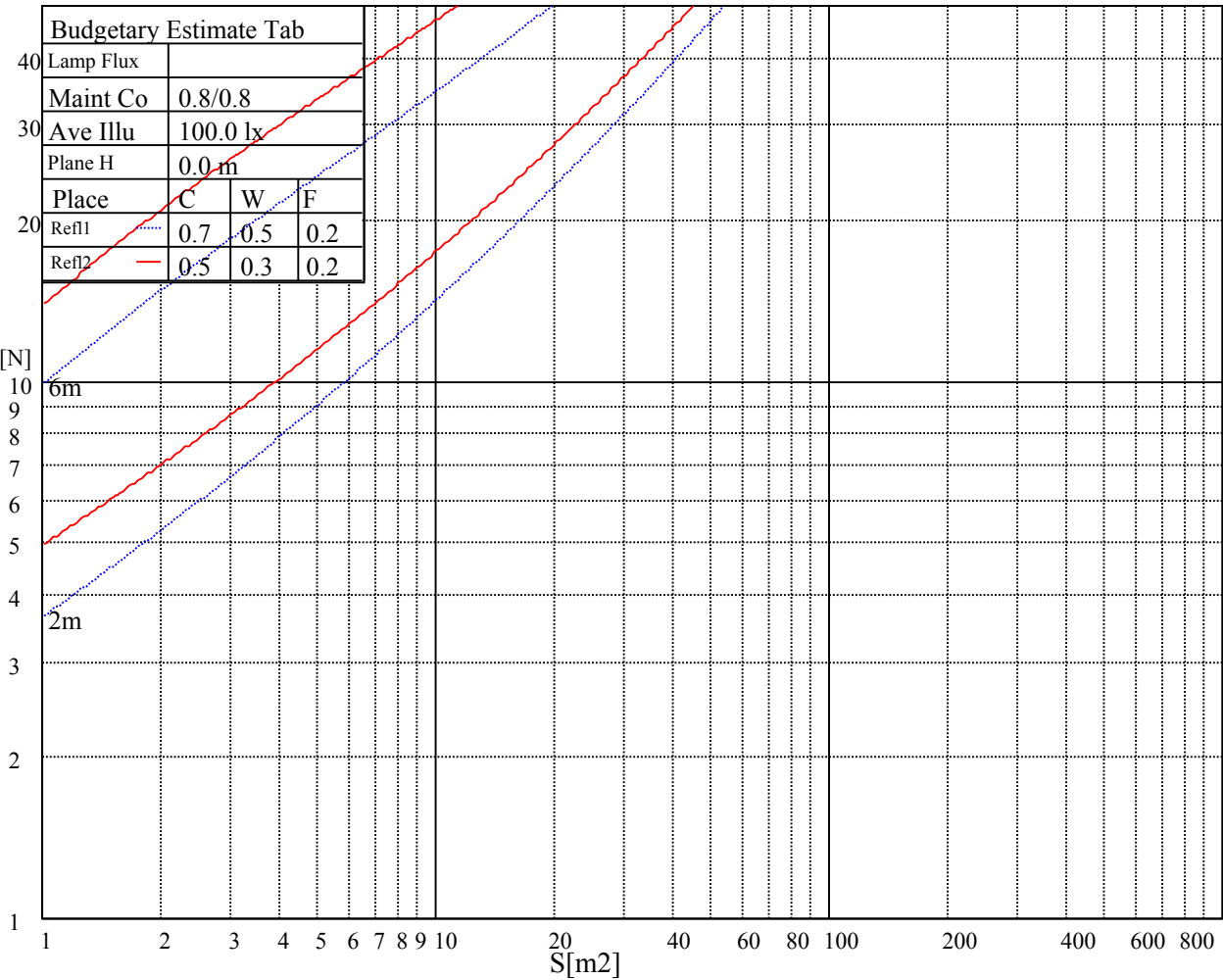
L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

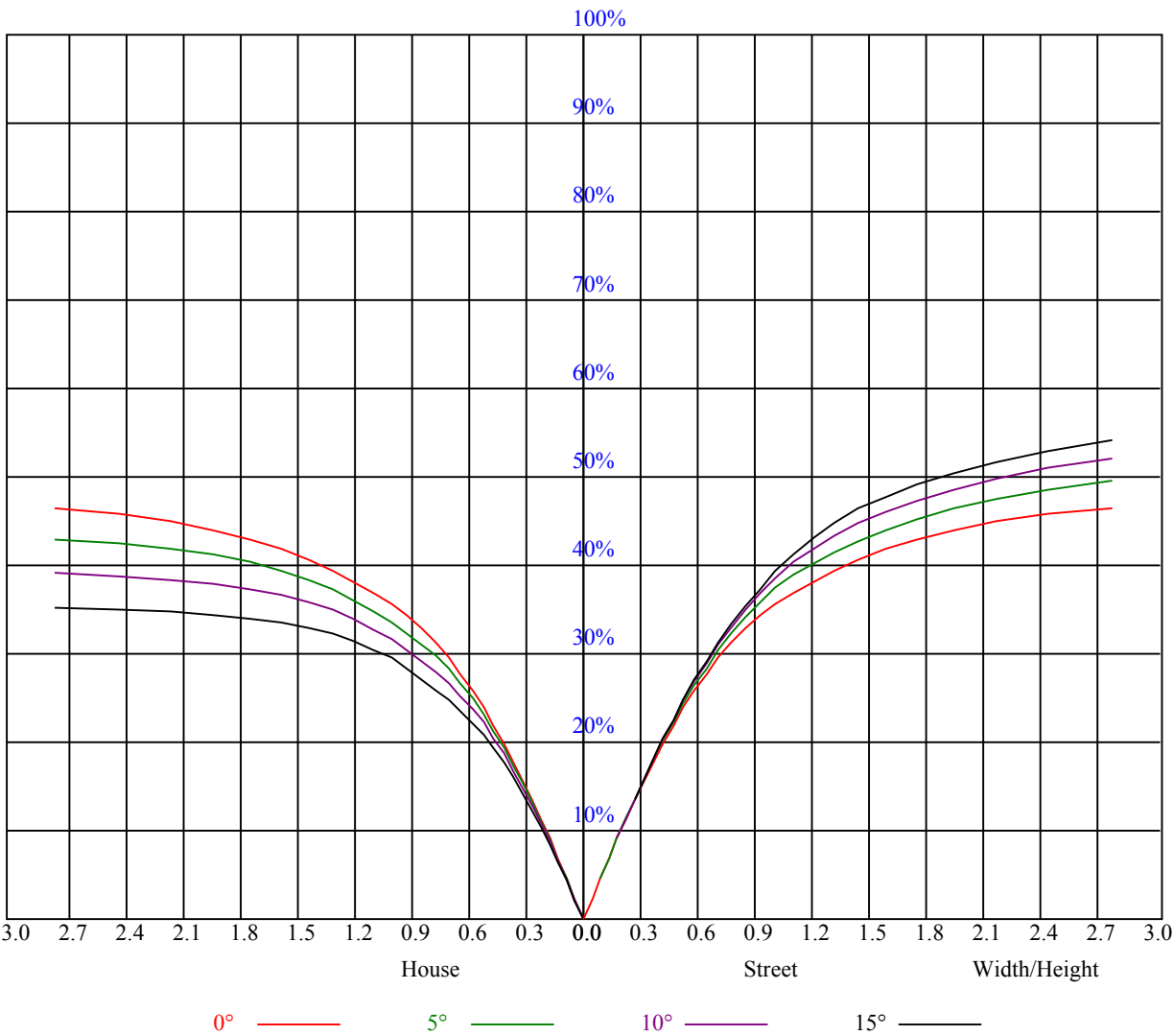
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.98
1	1.02	0.98	0.94	1.00	0.96	0.92	0.95	0.92	0.89	0.91	0.88	0.86	0.87	0.85	0.83	0.81
2	0.89	0.82	0.76	0.87	0.80	0.75	0.83	0.77	0.72	0.79	0.75	0.70	0.76	0.72	0.69	0.66
3	0.78	0.69	0.62	0.76	0.68	0.62	0.73	0.66	0.60	0.69	0.64	0.59	0.67	0.62	0.58	0.55
4	0.69	0.60	0.53	0.67	0.59	0.52	0.64	0.57	0.51	0.62	0.55	0.50	0.59	0.54	0.49	0.47
5	0.61	0.52	0.45	0.60	0.51	0.45	0.58	0.50	0.44	0.55	0.49	0.43	0.53	0.47	0.43	0.41
6	0.55	0.46	0.39	0.54	0.45	0.39	0.52	0.44	0.39	0.50	0.43	0.38	0.48	0.42	0.38	0.35
7	0.50	0.41	0.35	0.49	0.40	0.34	0.47	0.40	0.34	0.46	0.39	0.34	0.44	0.38	0.33	0.31
8	0.45	0.37	0.31	0.45	0.36	0.31	0.43	0.36	0.30	0.42	0.35	0.30	0.40	0.34	0.30	0.28
9	0.42	0.33	0.28	0.41	0.33	0.28	0.40	0.32	0.27	0.38	0.32	0.27	0.37	0.31	0.27	0.25
10	0.38	0.30	0.25	0.38	0.30	0.25	0.37	0.30	0.25	0.36	0.29	0.25	0.35	0.29	0.24	0.23



C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	47.43	46.73	54.10	60.38	65.86	61.67	52.51	47.82	40.45
22.5	47.43	47.58	54.39	59.31	65.03	59.61	55.38	48.02	39.97
45.0	47.43	49.52	52.36	55.50	58.34	62.72	57.14	51.01	47.18
67.5	47.43	49.67	49.87	47.43	49.58	47.33	50.27	53.47	43.09
90.0	47.43	48.83	49.03	48.53	46.33	43.02	44.02	39.12	35.52
112.5	47.43	49.67	49.87	47.43	49.58	47.33	50.27	53.47	43.09
135.0	47.43	49.52	52.36	55.50	58.34	62.72	57.14	51.01	47.18
157.5	47.43	47.58	54.39	59.31	65.03	59.61	55.38	48.02	39.97
180.0	47.43	46.73	54.10	60.38	65.86	61.67	52.51	47.82	40.45
202.5	47.43	47.58	54.39	59.31	65.03	59.61	55.38	48.02	39.97
225.0	47.43	49.52	52.36	55.50	58.34	62.72	57.14	51.01	47.18
247.5	47.43	49.67	49.87	47.43	49.58	47.33	50.27	53.47	43.09
270.0	47.43	48.83	49.03	48.53	46.33	43.02	44.02	39.12	35.52
292.5	47.43	49.67	49.87	47.43	49.58	47.33	50.27	53.47	43.09
315.0	47.43	49.52	52.36	55.50	58.34	62.72	57.14	51.01	47.18
337.5	47.43	47.58	54.39	59.31	65.03	59.61	55.38	48.02	39.97
360.0	47.43	46.73	54.10	60.38	65.86	61.67	52.51	47.82	40.45
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	36.37	31.09	31.98	33.78	33.98	24.31	14.15	8.07	2.79
22.5	35.60	30.87	25.45	30.18	34.40	23.61	14.36	7.71	3.33
45.0	38.01	27.95	22.22	18.18	23.36	22.82	17.64	10.31	4.93
67.5	32.95	30.36	35.75	30.30	23.51	17.07	12.08	9.03	3.74
90.0	28.72	25.41	26.21	23.11	15.71	6.80	4.50	2.90	1.50
112.5	32.95	30.36	35.75	30.30	23.51	17.07	12.08	9.03	3.74
135.0	38.01	27.95	22.22	18.18	23.36	22.82	17.64	10.31	4.93
157.5	35.60	30.87	25.45	30.18	34.40	23.61	14.36	7.71	3.33
180.0	36.37	31.09	31.98	33.78	33.98	24.31	14.15	8.07	2.79
202.5	35.60	30.87	25.45	30.18	34.40	23.61	14.36	7.71	3.33
225.0	38.01	27.95	22.22	18.18	23.36	22.82	17.64	10.31	4.93
247.5	32.95	30.36	35.75	30.30	23.51	17.07	12.08	9.03	3.74
270.0	28.72	25.41	26.21	23.11	15.71	6.80	4.50	2.90	1.50
292.5	32.95	30.36	35.75	30.30	23.51	17.07	12.08	9.03	3.74
315.0	38.01	27.95	22.22	18.18	23.36	22.82	17.64	10.31	4.93
337.5	35.60	30.87	25.45	30.18	34.40	23.61	14.36	7.71	3.33
360.0	36.37	31.09	31.98	33.78	33.98	24.31	14.15	8.07	2.79
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.39	0.90	0.60	0.30	0.00	0.30	0.80	1.10	1.00
22.5	2.34	1.04	0.65	0.30	0.00	0.65	0.89	0.99	0.80
45.0	2.29	0.80	0.45	0.05	0.75	1.05	0.85	0.75	0.55
67.5	1.90	0.70	0.30	1.35	1.20	0.70	0.40	0.05	0.00
90.0	0.50	0.50	0.80	0.80	1.00	1.10	1.00	0.40	0.20
112.5	1.90	0.70	0.30	1.35	1.20	0.70	0.40	0.05	0.00
135.0	2.29	0.80	0.45	0.05	0.75	1.05	0.85	0.75	0.55
157.5	2.34	1.04	0.65	0.30	0.00	0.65	0.89	0.99	0.80
180.0	2.39	0.90	0.60	0.30	0.00	0.30	0.80	1.10	1.00
202.5	2.34	1.04	0.65	0.30	0.00	0.65	0.89	0.99	0.80
225.0	2.29	0.80	0.45	0.05	0.75	1.05	0.85	0.75	0.55
247.5	1.90	0.70	0.30	1.35	1.20	0.70	0.40	0.05	0.00
270.0	0.50	0.50	0.80	0.80	1.00	1.10	1.00	0.40	0.20
292.5	1.90	0.70	0.30	1.35	1.20	0.70	0.40	0.05	0.00
315.0	2.29	0.80	0.45	0.05	0.75	1.05	0.85	0.75	0.55
337.5	2.34	1.04	0.65	0.30	0.00	0.65	0.89	0.99	0.80
360.0	2.39	0.90	0.60	0.30	0.00	0.30	0.80	1.10	1.00

Intensity data(cd)										Page: 15 Total:15
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	0.80	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	
22.5	0.60	0.50	0.30	0.10	0.00	0.00	0.00	0.00	0.00	
45.0	0.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
67.5	0.20	0.75	0.65	0.15	0.00	0.10	0.00	0.00	0.00	
90.0	0.20	0.40	0.70	0.50	0.10	0.00	0.00	0.00	0.00	
112.5	0.20	0.75	0.65	0.15	0.00	0.10	0.00	0.00	0.00	
135.0	0.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
157.5	0.60	0.50	0.30	0.10	0.00	0.00	0.00	0.00	0.00	
180.0	0.80	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	
202.5	0.60	0.50	0.30	0.10	0.00	0.00	0.00	0.00	0.00	
225.0	0.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
247.5	0.20	0.75	0.65	0.15	0.00	0.10	0.00	0.00	0.00	
270.0	0.20	0.40	0.70	0.50	0.10	0.00	0.00	0.00	0.00	
292.5	0.20	0.75	0.65	0.15	0.00	0.10	0.00	0.00	0.00	
315.0	0.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
337.5	0.60	0.50	0.30	0.10	0.00	0.00	0.00	0.00	0.00	
360.0	0.80	0.50	0.40	0.00	0.00	0.00	0.00	0.00	0.00	
C/γ(°)	180.0									
0.0	0.02									
22.5	0.02									
45.0	0.02									
67.5	0.02									
90.0	0.02									
112.5	0.02									
135.0	0.02									
157.5	0.02									
180.0	0.02									
202.5	0.02									
225.0	0.02									
247.5	0.02									
270.0	0.02									
292.5	0.02									
315.0	0.02									
337.5	0.02									
360.0	0.02									