



SOTEN LIGHTING LTD.
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Address: Jin Ou Road, Jiangmen City, Guangdong, China

SOTEN

LumCAT: D1027

Luminaire:

Report No:

Voltage(V): 220.8000

Test No:

Current(A): 0.0330

LampCAT: OSRAM2835 3000K 80RA

Power (W): 6.7300

Lamp flux(lm): -1.0

PF: 0.9180

Number of Lamps: 1

Ballast type: HTU-12W-01-0150-10

Length(mm): 100

Width(mm): 100

Phm Type: C

Height(mm): 58

Photometric Results

Lumens(lm): 440.11

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 65.40

Central intensity(cd): 237.121

Maximum intensity(cd): 237.121

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=84.1

[C90/270]Total=84.1

Field angle(10%Imax): [C0/180]Total=128.4

[C90/270]Total=128.4

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

Maximum s/h(1/4): C0_180=1.65 C90_270=1.19

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 90.855%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	237.121	.000	.000	.000%	.000%
1.0	237.075	.227	.227	.000%	.000%
2.0	236.843	.680	.907	.000%	.000%
3.0	236.518	1.132	2.039	.000%	.000%
4.0	236.054	1.582	3.621	.000%	.000%
5.0	235.497	2.029	5.650	.000%	.000%
6.0	234.755	2.471	8.121	.000%	.000%
7.0	233.873	2.909	11.030	.000%	.000%
8.0	232.945	3.341	14.371	.000%	.000%
9.0	231.831	3.767	18.137	.000%	.000%
10.0	230.439	4.183	22.321	.000%	.000%
11.0	229.140	4.592	26.913	.000%	.000%
12.0	227.701	4.994	31.907	.000%	.000%
13.0	226.031	5.385	37.291	.000%	.000%
14.0	224.221	5.763	43.055	.000%	.000%
15.0	222.365	6.131	49.186	.000%	.000%
16.0	220.370	6.487	55.673	.000%	.000%
17.0	218.235	6.830	62.503	.000%	.000%
18.0	216.100	7.161	69.664	.000%	.000%
19.0	213.687	7.477	77.142	.000%	.000%
20.0	211.274	7.778	84.920	.000%	.000%
21.0	208.722	8.065	92.985	.000%	.000%
22.0	206.031	8.335	101.319	.000%	.000%
23.0	203.479	8.593	109.912	.000%	.000%
24.0	200.509	8.833	118.744	.000%	.000%
25.0	197.632	9.053	127.797	.000%	.000%
26.0	194.940	9.267	137.064	.000%	.000%
27.0	191.831	9.462	146.527	.000%	.000%
28.0	188.258	9.623	156.150	.000%	.000%
29.0	184.964	9.765	165.914	.000%	.000%
30.0	180.741	9.874	175.788	.000%	.000%
31.0	176.472	9.941	185.729	.000%	.000%
32.0	172.296	9.992	195.721	.000%	.000%
33.0	167.284	10.004	205.725	.000%	.000%
34.0	162.505	9.980	215.705	.000%	.000%
35.0	157.122	9.926	225.631	.000%	.000%
36.0	152.621	9.862	235.494	.000%	.000%
37.0	146.774	9.765	245.258	.000%	.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	141.205	9.612	254.871	.000%	.000%
39.0	135.869	9.457	264.328	.000%	.000%
40.0	129.605	9.259	273.587	.000%	.000%
41.0	124.407	9.045	282.632	.000%	.000%
42.0	118.746	8.834	291.466	.000%	.000%
43.0	113.039	8.586	300.052	.000%	.000%
44.0	107.517	8.324	308.377	.000%	.000%
45.0	101.763	8.043	316.419	.000%	.000%
46.0	96.241	7.743	324.163	.000%	.000%
47.0	90.997	7.447	331.610	.000%	.000%
48.0	85.661	7.141	338.751	.000%	.000%
49.0	80.324	6.816	345.567	.000%	.000%
50.0	75.916	6.514	352.082	.000%	.000%
51.0	70.997	6.216	358.297	.000%	.000%
52.0	65.939	5.876	364.173	.000%	.000%
53.0	61.763	5.555	369.728	.000%	.000%
54.0	57.215	5.244	374.972	.000%	.000%
55.0	52.946	4.917	379.890	.000%	.000%
56.0	48.863	4.600	384.490	.000%	.000%
57.0	44.965	4.290	388.780	.000%	.000%
58.0	41.021	3.976	392.757	.000%	.000%
59.0	37.772	3.684	396.440	.000%	.000%
60.0	34.710	3.424	399.864	.000%	.000%
61.0	31.461	3.158	403.022	.000%	.000%
62.0	28.816	2.905	405.927	.000%	.000%
63.0	26.311	2.681	408.608	.000%	.000%
64.0	24.083	2.473	411.081	.000%	.000%
65.0	22.088	2.285	413.366	.000%	.000%
66.0	20.417	2.121	415.487	.000%	.000%
67.0	18.840	1.974	417.460	.000%	.000%
68.0	17.680	1.850	419.310	.000%	.000%
69.0	16.844	1.761	421.072	.000%	.000%
70.0	16.056	1.690	422.761	.000%	.000%
71.0	15.406	1.626	424.387	.000%	.000%
72.0	14.710	1.566	425.953	.000%	.000%
73.0	13.921	1.497	427.451	.000%	.000%
74.0	13.132	1.422	428.873	.000%	.000%
75.0	12.343	1.346	430.219	.000%	.000%

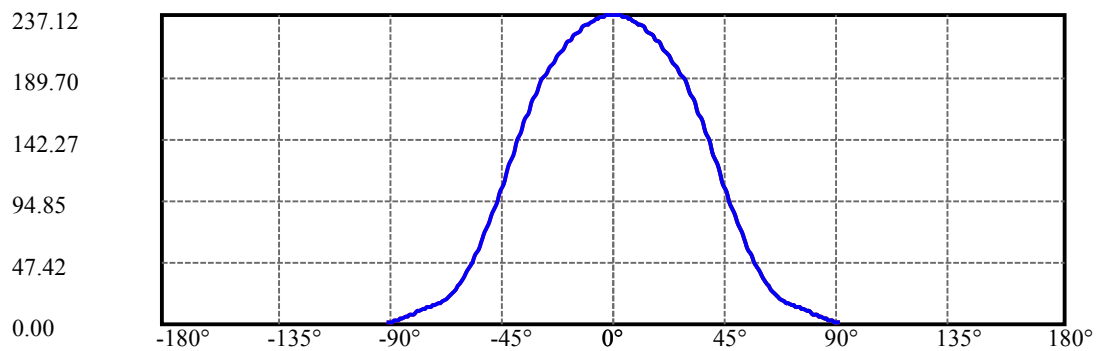
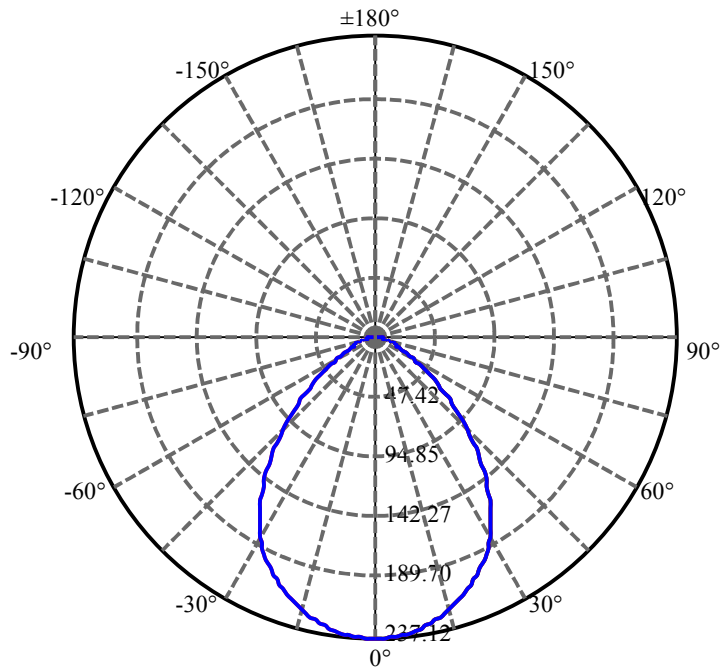
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.508	1.266	431.485	.000%	.000%
77.0	10.673	1.183	432.668	.000%	.000%
78.0	9.838	1.098	433.765	.000%	.000%
79.0	8.909	1.007	434.773	.000%	.000%
80.0	8.074	.916	435.688	.000%	.000%
81.0	7.193	.826	436.514	.000%	.000%
82.0	6.357	.735	437.249	.000%	.000%
83.0	5.476	.643	437.892	.000%	.000%
84.0	4.640	.551	438.443	.000%	.000%
85.0	3.805	.461	438.904	.000%	.000%
86.0	3.016	.373	439.277	.000%	.000%
87.0	2.274	.290	439.566	.000%	.000%
88.0	1.763	.221	439.787	.000%	.000%
89.0	1.439	.175	439.963	.000%	.000%
90.0	1.299	.150	440.113	.000%	.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	175.79	N.A.	39.94%
0-40	273.59	N.A.	62.16%
0-60	399.86	N.A.	90.85%
0-90	439.96	N.A.	99.97%
0-120	439.96	N.A.	99.97%
0-180	440.11	N.A.	100.00%
60-90	43.52	N.A.	9.89%
90-120	0.00	N.A.	0.00%
90-130	0.00	N.A.	0.00%
90-150	0.00	N.A.	0.00%
90-180	0.00	N.A.	0.00%
0-50.00	352.09	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	22.32
10-20	62.60
20-30	90.87
30-40	97.80
40-50	78.49
50-60	47.78
60-70	22.90
70-80	12.93
80-90	4.27
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



C0(Max):

C0/C180:

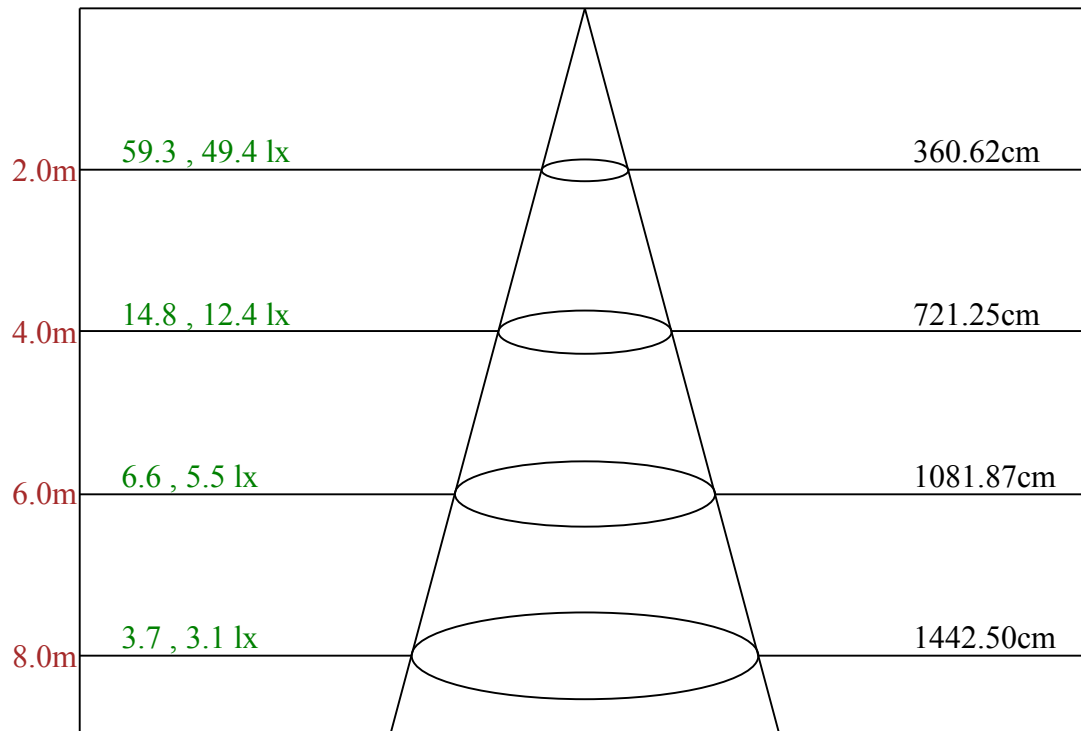
C90/C270:

Field angle(10%Imax):C0/180Left:64.2 Right:64.2

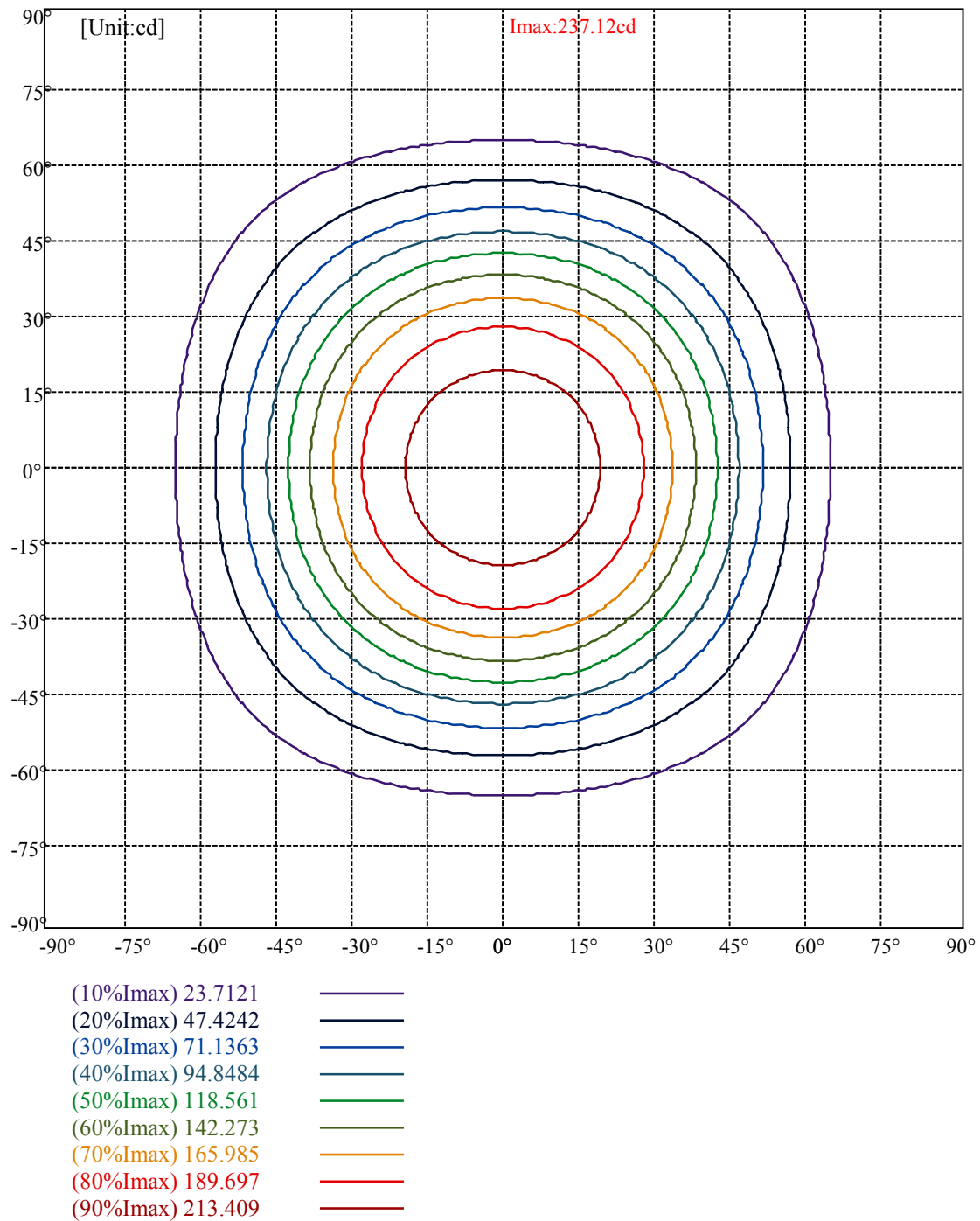
:C90/270Left:64.2 Right:64.2

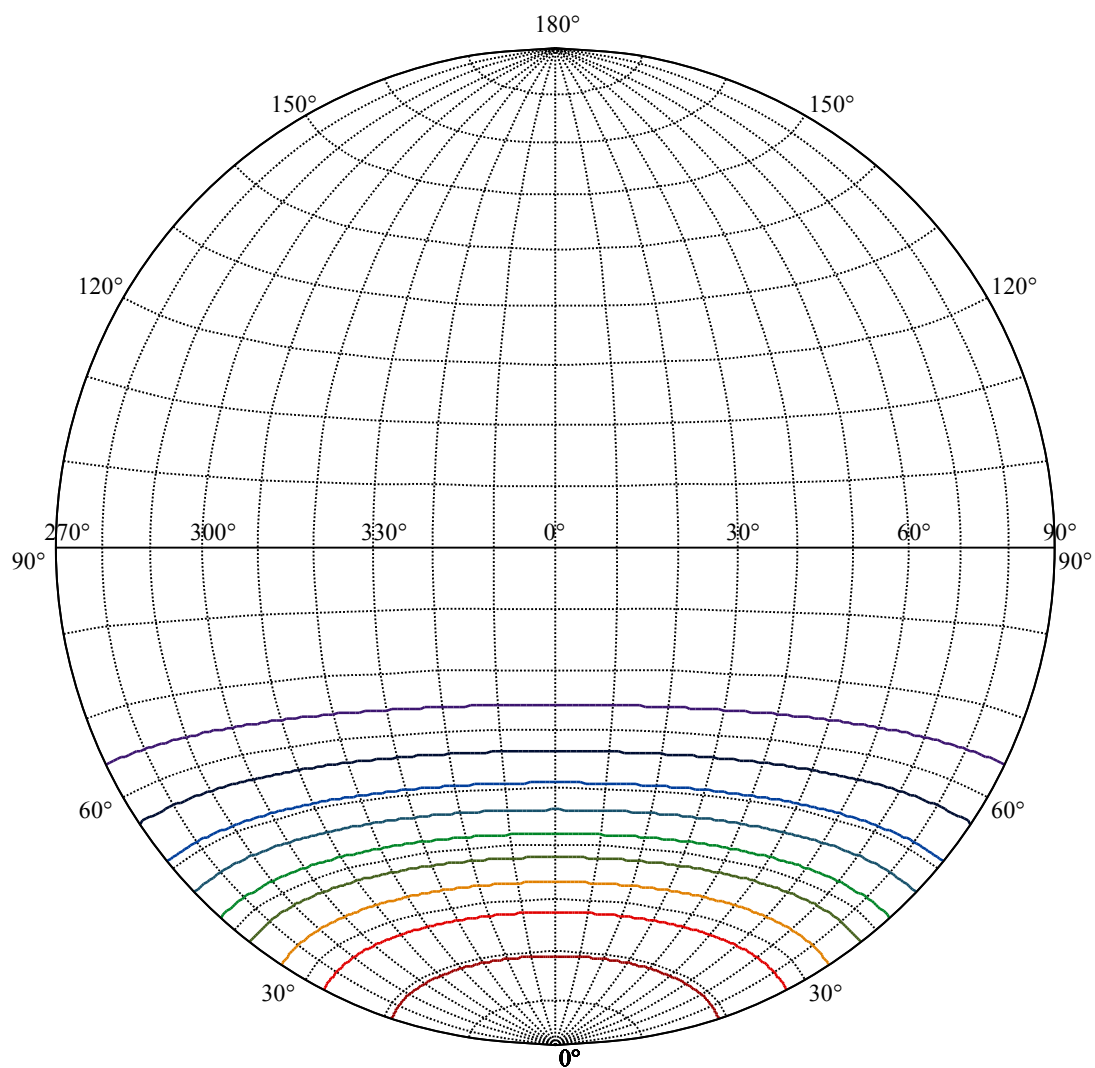
Beam Angle(50%Imax):C0/180Left:42.0 Right:42.0

:C90/270Left:42.0 Right:42.0



Max , Ave Beam angle of C0plane84.07





House

[Unit:cd]

Road

Imax:237.12

(10%Imax) 23.7121

(20%Imax) 47.4242

(30%Imax) 71.1363

(40%Imax) 94.8484

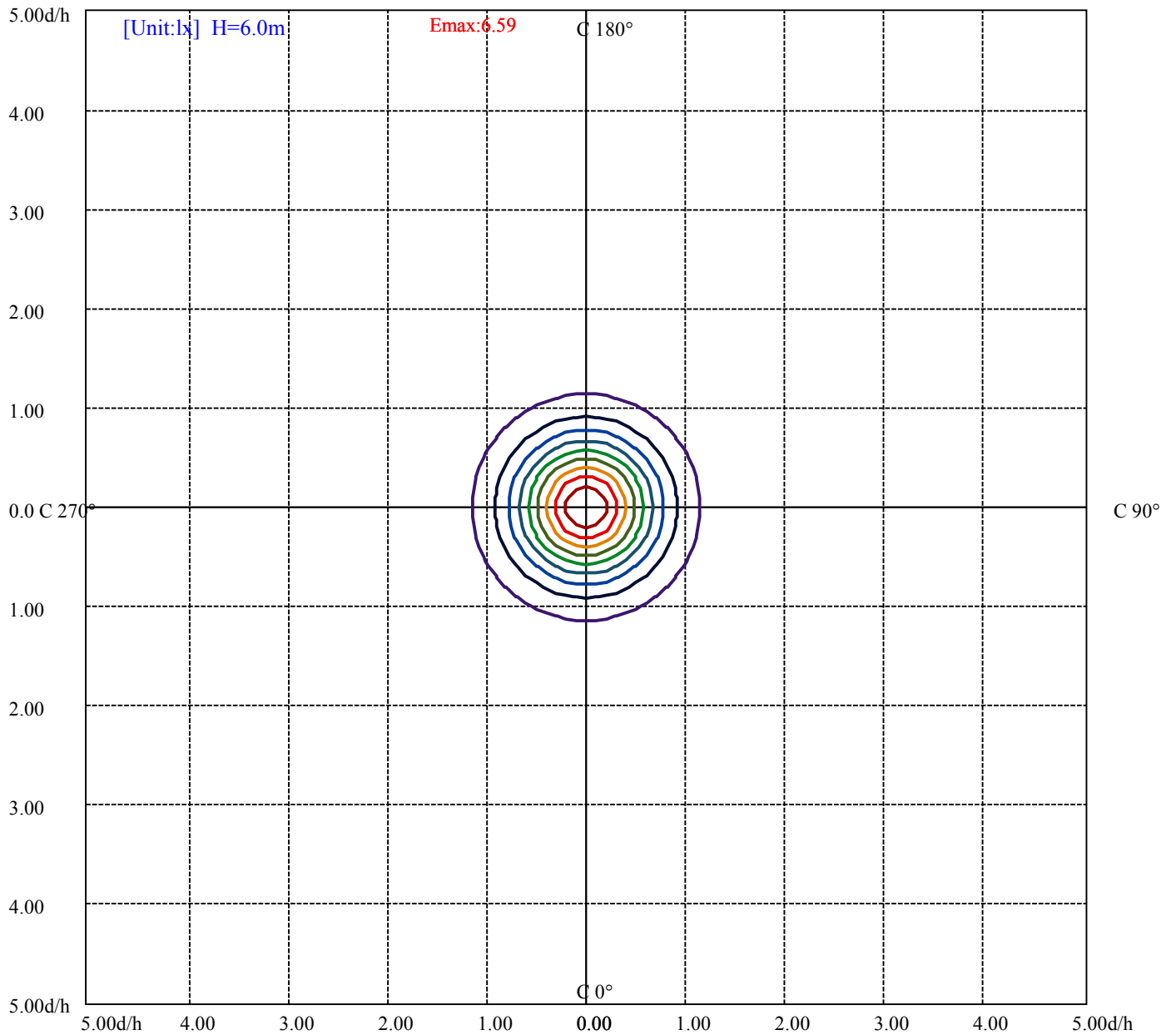
(50%Imax) 118.561

(60%Imax) 142.273

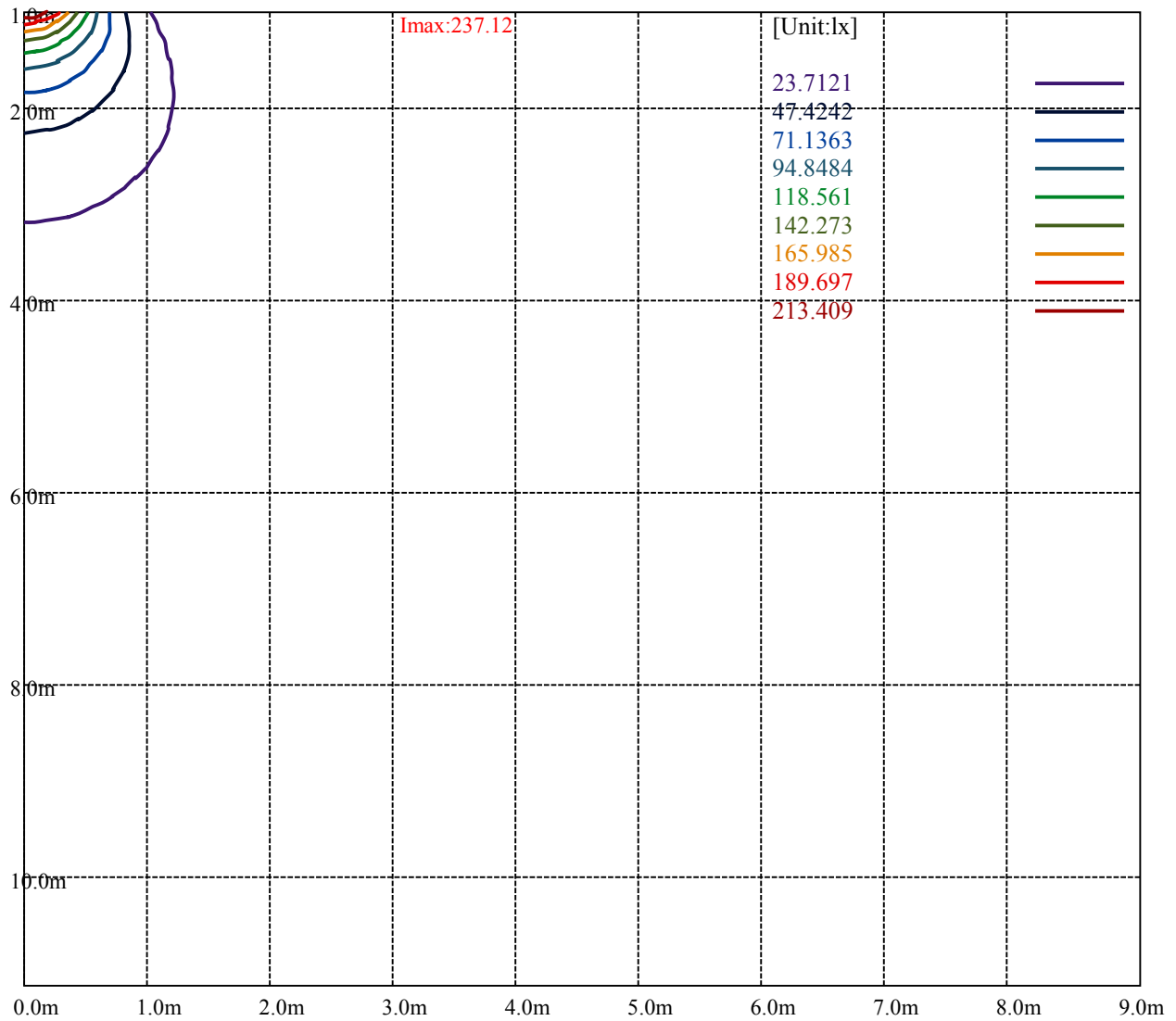
(70%Imax) 165.985

(80%Imax) 189.697

(90%Imax) 213.409



(10%Emax) 0.6586694	—
(20%Emax) 1.317339	—
(30%Emax) 1.976008	—
(40%Emax) 2.634678	—
(50%Emax) 3.293361	—
(60%Emax) 3.952028	—
(70%Emax) 4.610694	—
(80%Emax) 5.269361	—
(90%Emax) 5.928028	—



Luminance Table

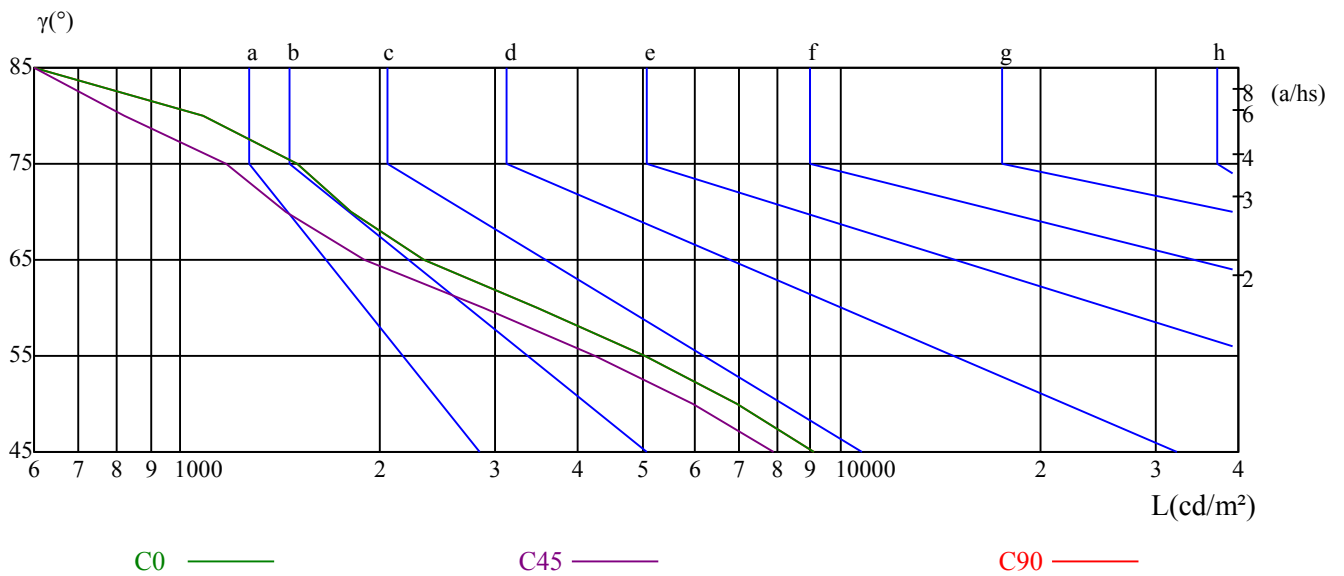
γ	45	50	55	60	65	70	75	80	85
C0	9108	6983	5049	3463	2329	1810	1507	1084	572
C45	7906	5972	4251	2868	1894	1443	1174	823	421
C90	9108	6983	5049	3463	2329	1810	1507	1084	572

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
5226	5226	5226	4769	4769	4769	4366	4366	4366

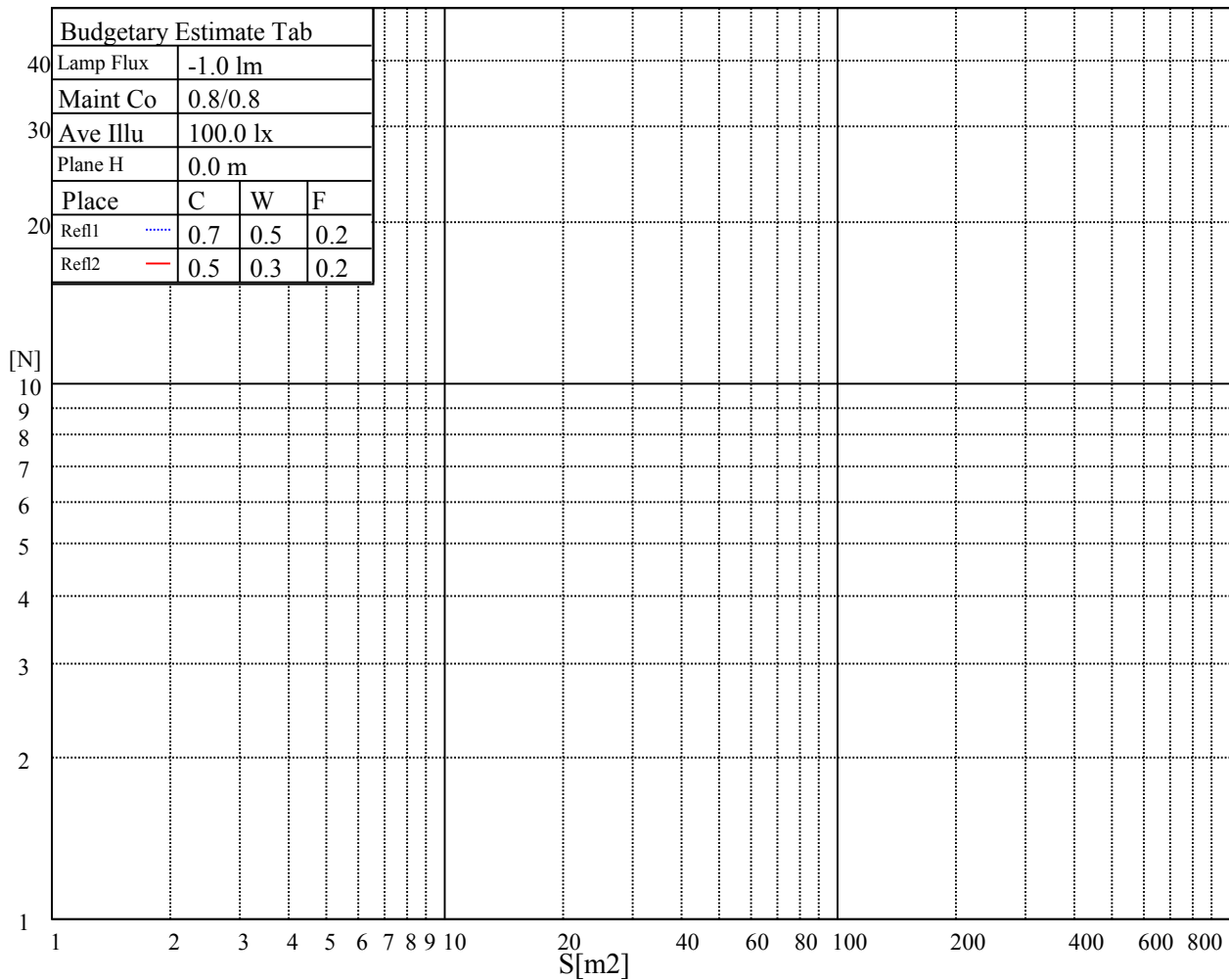
Glare Table

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

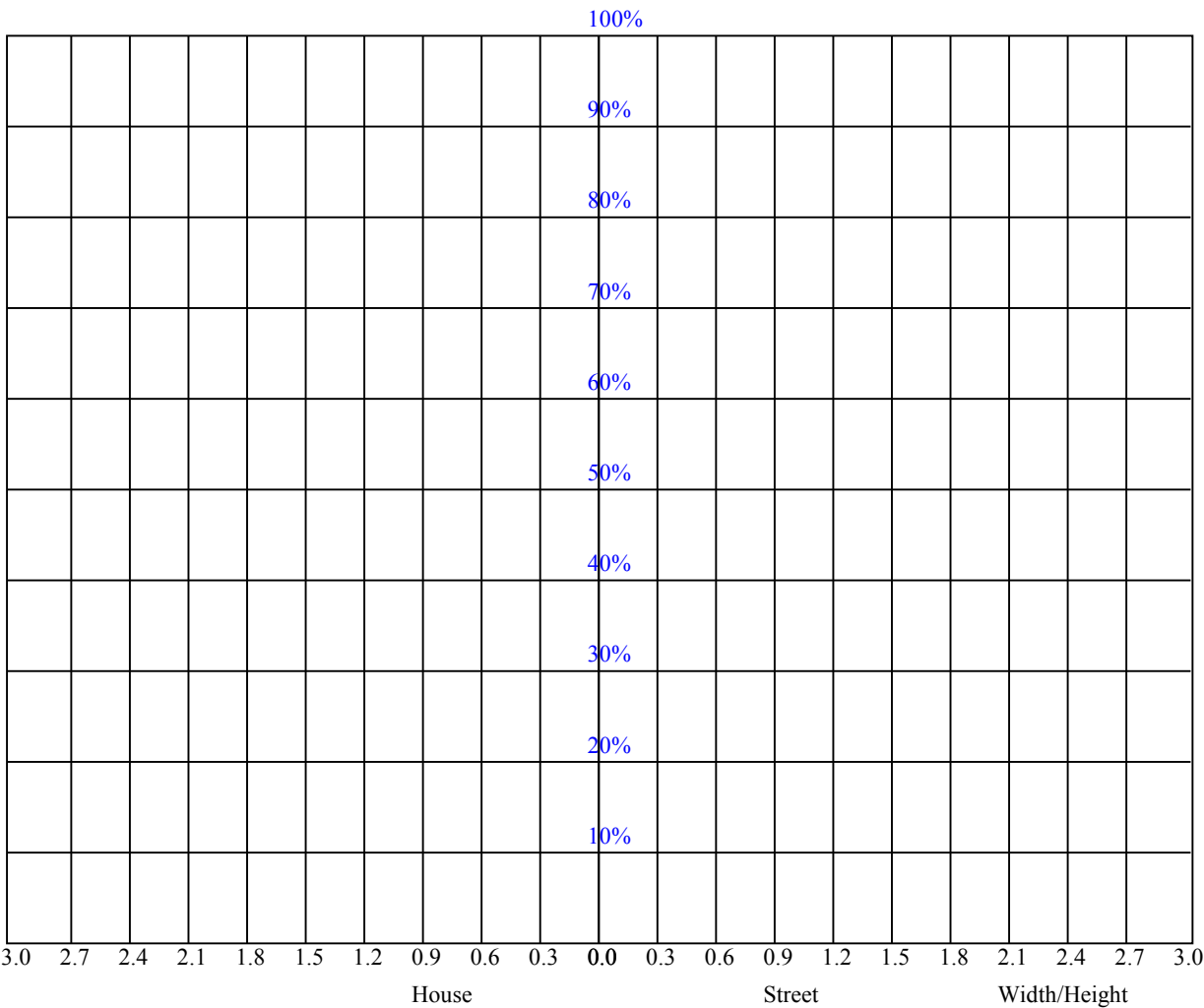
Luminance Limiting Curve



Illuminatin assessment acconding UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise			
X	Y									
2H	2H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	3H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
4H	12H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	2H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	3H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
8H	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	12H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
12H	12H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	4H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	6H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
	8H	正无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷	无穷大
Variation with the observer position at spacings:										
S = 1.0H		0.5/-1.2					0.5/-1.2			
S = 1.5H		1.2/-2.3					1.2/-2.3			
S = 2.0H		3.2/-2.8					3.2/-2.8			
Standard tables:		BK2					BK2			
Uncorrected UGR		0.1					0.1			



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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Intensity data(cd)

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C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
45.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
90.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
135.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
180.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
225.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
270.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
315.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
360.0	237.12	237.07	236.84	236.52	236.05	235.50	234.75	233.87	232.94
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
45.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
90.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
135.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
180.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
225.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
270.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
315.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
360.0	231.83	230.44	229.14	227.70	226.03	224.22	222.36	220.37	218.23
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
45.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
90.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
135.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
180.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
225.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
270.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
315.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
360.0	216.10	213.69	211.27	208.72	206.03	203.48	200.51	197.63	194.94
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
45.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
90.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
135.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
180.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
225.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
270.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
315.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
360.0	191.83	188.26	184.96	180.74	176.47	172.30	167.28	162.50	157.12
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
45.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
90.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
135.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
180.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
225.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
270.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
315.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52
360.0	152.62	146.77	141.21	135.87	129.60	124.41	118.75	113.04	107.52

Intensity data(cd)

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C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
45.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
90.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
135.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
180.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
225.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
270.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
315.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
360.0	101.76	96.24	91.00	85.66	80.32	75.92	71.00	65.94	61.76
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
45.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
90.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
135.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
180.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
225.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
270.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
315.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
360.0	57.22	52.95	48.86	44.96	41.02	37.77	34.71	31.46	28.82
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
45.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
90.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
135.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
180.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
225.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
270.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
315.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
360.0	26.31	24.08	22.09	20.42	18.84	17.68	16.84	16.06	15.41
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
45.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
90.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
135.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
180.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
225.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
270.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
315.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
360.0	14.71	13.92	13.13	12.34	11.51	10.67	9.84	8.91	8.07
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
45.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
90.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
135.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
180.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
225.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
270.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
315.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44
360.0	7.19	6.36	5.48	4.64	3.81	3.02	2.27	1.76	1.44

Intensity data(cd)

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C/ γ (°)	90.0
0.0	1.30
45.0	1.30
90.0	1.30
135.0	1.30
180.0	1.30
225.0	1.30
270.0	1.30
315.0	1.30
360.0	1.30