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SOTEN

LumCAT: D1028

Luminaire:

Report No:

Voltage(V): 220.8000

Test No:

Current(A): 0.0490

LampCAT: OSRAM2823 3000K 80Ra

Power (W): 10.5200

Lamp flux(lm): -1.0

PF: 0.9570

Number of Lamps: 1

Ballast type: HTUC1-010W-01-31

Length(mm): 128

Width(mm): 128

Phm Type: C

Height(mm): 81

Photometric Results

Lumens(lm): 674.43

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 64.11

Central intensity(cd): 365.983

Maximum intensity(cd): 365.983

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=83.1

[C90/270]Total=83.1

Field angle(10%Imax): [C0/180]Total=129.4

[C90/270]Total=129.4

Maximum s/h(1/2): C0_180=1.14 C90_270=1.14

Maximum s/h(1/4): C0_180=1.63 C90_270=1.17

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 : 90.619%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	365.983	.000	.000	.000%	.000%
1.0	365.844	.350	.350	.000%	.000%
2.0	365.519	1.050	1.400	.000%	.000%
3.0	364.916	1.747	3.147	.000%	.000%
4.0	364.034	2.440	5.587	.000%	.000%
5.0	363.060	3.128	8.715	.000%	.000%
6.0	361.760	3.809	12.524	.000%	.000%
7.0	360.322	4.482	17.006	.000%	.000%
8.0	358.605	5.145	22.151	.000%	.000%
9.0	356.656	5.797	27.948	.000%	.000%
10.0	354.568	6.436	34.384	.000%	.000%
11.0	352.480	7.065	41.449	.000%	.000%
12.0	349.835	7.677	49.126	.000%	.000%
13.0	347.329	8.274	57.400	.000%	.000%
14.0	344.452	8.855	66.255	.000%	.000%
15.0	341.761	9.421	75.675	.000%	.000%
16.0	338.512	9.968	85.643	.000%	.000%
17.0	335.311	10.493	96.136	.000%	.000%
18.0	332.016	11.003	107.139	.000%	.000%
19.0	328.582	11.493	118.632	.000%	.000%
20.0	325.055	11.963	130.596	.000%	.000%
21.0	321.297	12.411	143.007	.000%	.000%
22.0	317.352	12.834	155.841	.000%	.000%
23.0	313.130	13.229	169.070	.000%	.000%
24.0	308.397	13.589	182.659	.000%	.000%
25.0	303.524	13.914	196.573	.000%	.000%
26.0	298.002	14.199	210.772	.000%	.000%
27.0	291.645	14.426	225.198	.000%	.000%
28.0	285.891	14.622	239.820	.000%	.000%
29.0	278.791	14.774	254.593	.000%	.000%
30.0	272.016	14.872	269.465	.000%	.000%
31.0	265.010	14.945	284.410	.000%	.000%
32.0	257.771	14.977	299.387	.000%	.000%
33.0	250.207	14.965	314.352	.000%	.000%
34.0	242.597	14.914	329.266	.000%	.000%
35.0	234.801	14.826	344.092	.000%	.000%
36.0	227.608	14.723	358.815	.000%	.000%
37.0	219.209	14.573	373.388	.000%	.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	211.042	14.361	387.749	.000%	.000%
39.0	203.293	14.142	401.891	.000%	.000%
40.0	194.708	13.881	415.772	.000%	.000%
41.0	187.377	13.606	429.378	.000%	.000%
42.0	179.210	13.319	442.697	.000%	.000%
43.0	171.089	12.976	455.673	.000%	.000%
44.0	162.969	12.608	468.281	.000%	.000%
45.0	155.034	12.221	480.502	.000%	.000%
46.0	147.563	11.834	492.336	.000%	.000%
47.0	139.999	11.437	503.773	.000%	.000%
48.0	132.110	11.000	514.773	.000%	.000%
49.0	124.825	10.551	525.325	.000%	.000%
50.0	117.447	10.101	535.426	.000%	.000%
51.0	110.394	9.640	545.065	.000%	.000%
52.0	103.897	9.195	554.261	.000%	.000%
53.0	96.658	8.724	562.985	.000%	.000%
54.0	90.719	8.259	571.244	.000%	.000%
55.0	83.990	7.799	579.042	.000%	.000%
56.0	78.050	7.322	586.364	.000%	.000%
57.0	72.528	6.885	593.249	.000%	.000%
58.0	66.403	6.425	599.674	.000%	.000%
59.0	60.974	5.955	605.629	.000%	.000%
60.0	56.241	5.538	611.166	.000%	.000%
61.0	51.508	5.142	616.308	.000%	.000%
62.0	47.007	4.747	621.055	.000%	.000%
63.0	42.737	4.365	625.420	.000%	.000%
64.0	39.025	4.012	629.432	.000%	.000%
65.0	35.591	3.693	633.125	.000%	.000%
66.0	32.575	3.401	636.526	.000%	.000%
67.0	29.745	3.134	639.660	.000%	.000%
68.0	27.424	2.896	642.556	.000%	.000%
69.0	25.568	2.703	645.259	.000%	.000%
70.0	23.991	2.545	647.804	.000%	.000%
71.0	22.923	2.425	650.229	.000%	.000%
72.0	22.042	2.338	652.567	.000%	.000%
73.0	21.021	2.252	654.819	.000%	.000%
74.0	19.953	2.154	656.973	.000%	.000%
75.0	18.933	2.055	659.028	.000%	.000%

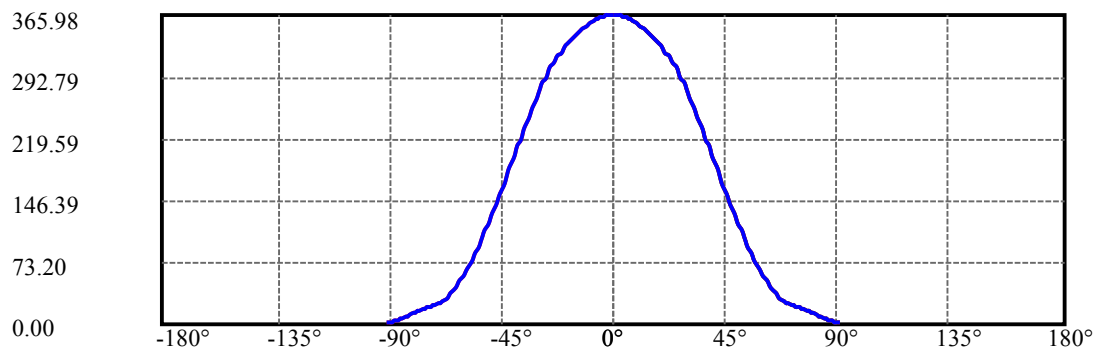
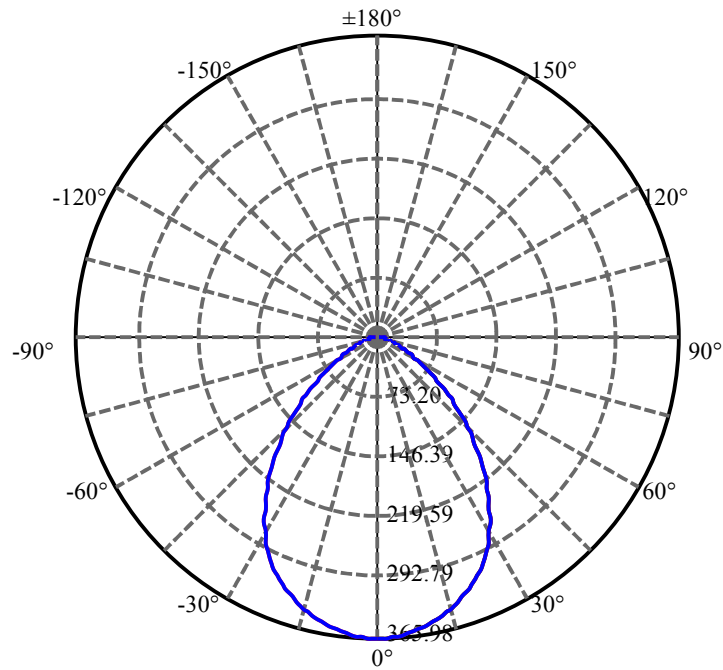
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.680	1.944	660.971	.000%	.000%
77.0	16.520	1.823	662.794	.000%	.000%
78.0	15.267	1.702	664.496	.000%	.000%
79.0	13.967	1.571	666.067	.000%	.000%
80.0	12.715	1.438	667.505	.000%	.000%
81.0	11.554	1.312	668.818	.000%	.000%
82.0	10.162	1.178	669.995	.000%	.000%
83.0	8.817	1.032	671.027	.000%	.000%
84.0	7.471	.887	671.914	.000%	.000%
85.0	6.125	.742	672.656	.000%	.000%
86.0	4.780	.596	673.253	.000%	.000%
87.0	3.480	.452	673.705	.000%	.000%
88.0	2.413	.323	674.027	.000%	.000%
89.0	1.763	.229	674.256	.000%	.000%
90.0	1.439	.176	674.432	.000%	.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	269.46	N.A.	39.95%
0-40	415.77	N.A.	61.65%
0-60	611.17	N.A.	90.62%
0-90	674.26	N.A.	99.97%
0-120	674.26	N.A.	99.97%
0-180	674.43	N.A.	100.00%
60-90	68.63	N.A.	10.18%
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%
0-50.43	539.55	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	34.38
10-20	96.21
20-30	138.87
30-40	146.31
40-50	119.65
50-60	75.74
60-70	36.64
70-80	19.70
80-90	6.75
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:

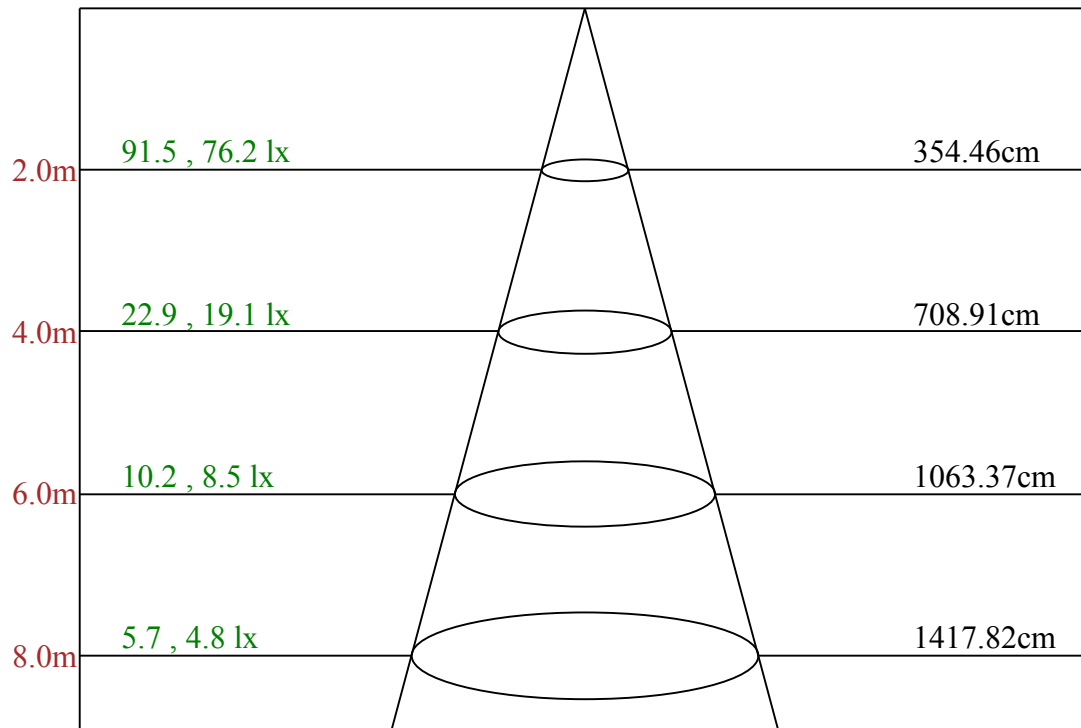
C90/C270:

Field angle(10%Imax):C0/180Left:64.7 Right:64.7

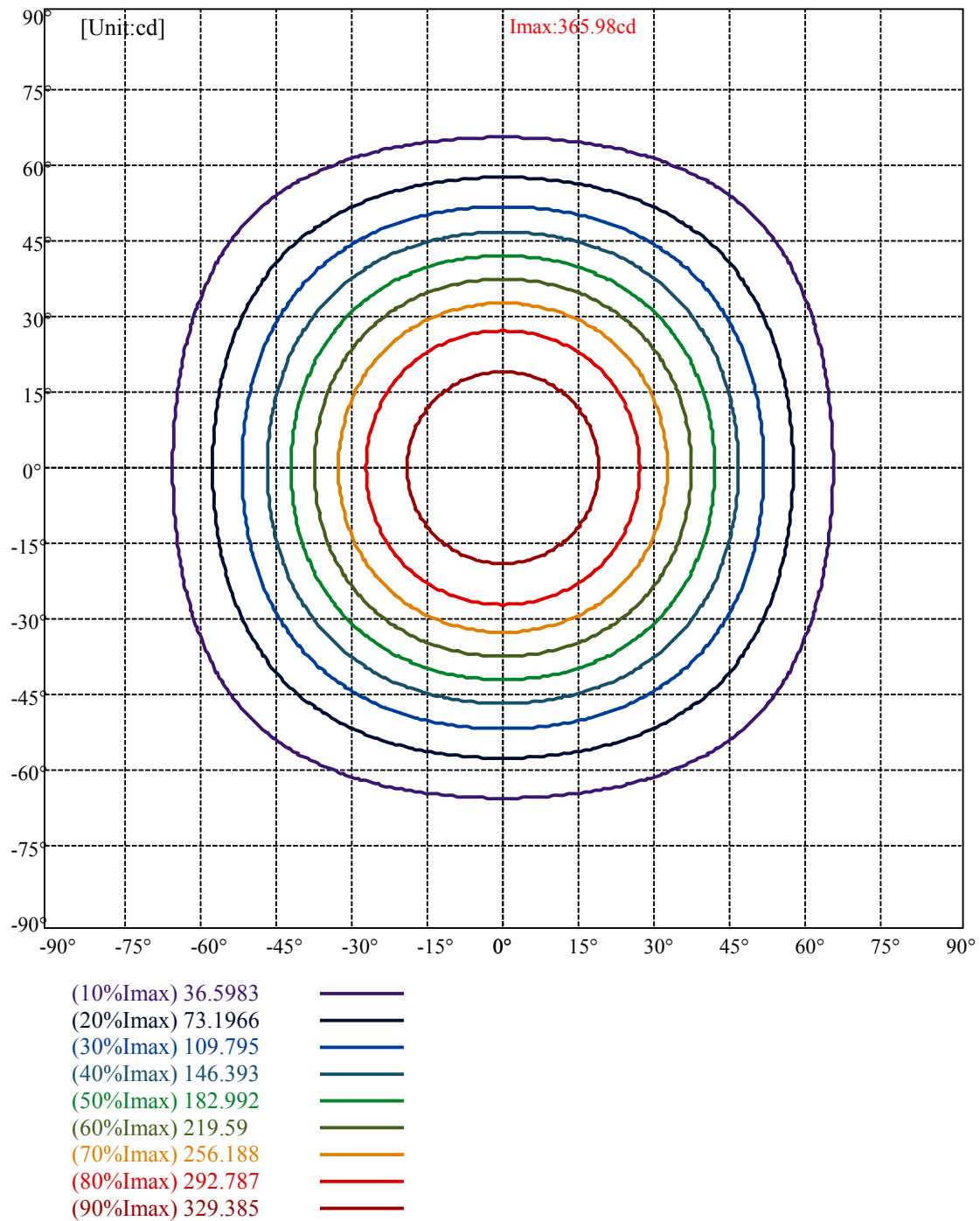
:C90/270Left:64.7 Right:64.7

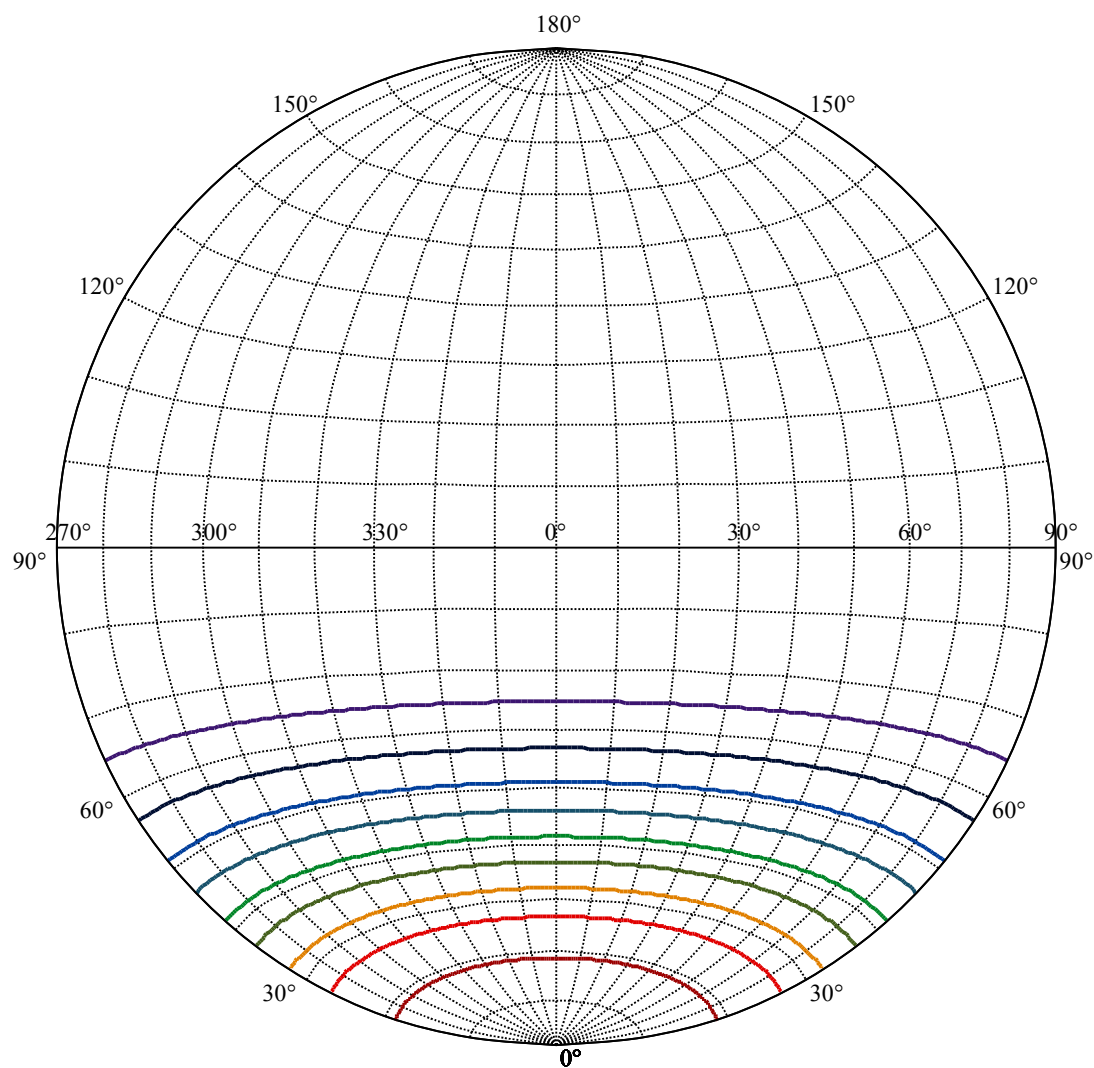
Beam Angle(50%Imax):C0/180Left:41.5 Right:41.5

:C90/270Left:41.5 Right:41.5



Max , Ave Beam angle of C0plane83.09





House

[Unit:cd]

Road

Imax:365.98

(10%Imax) 36.5983

(20%Imax) 73.1966

(30%Imax) 109.795

(40%Imax) 146.393

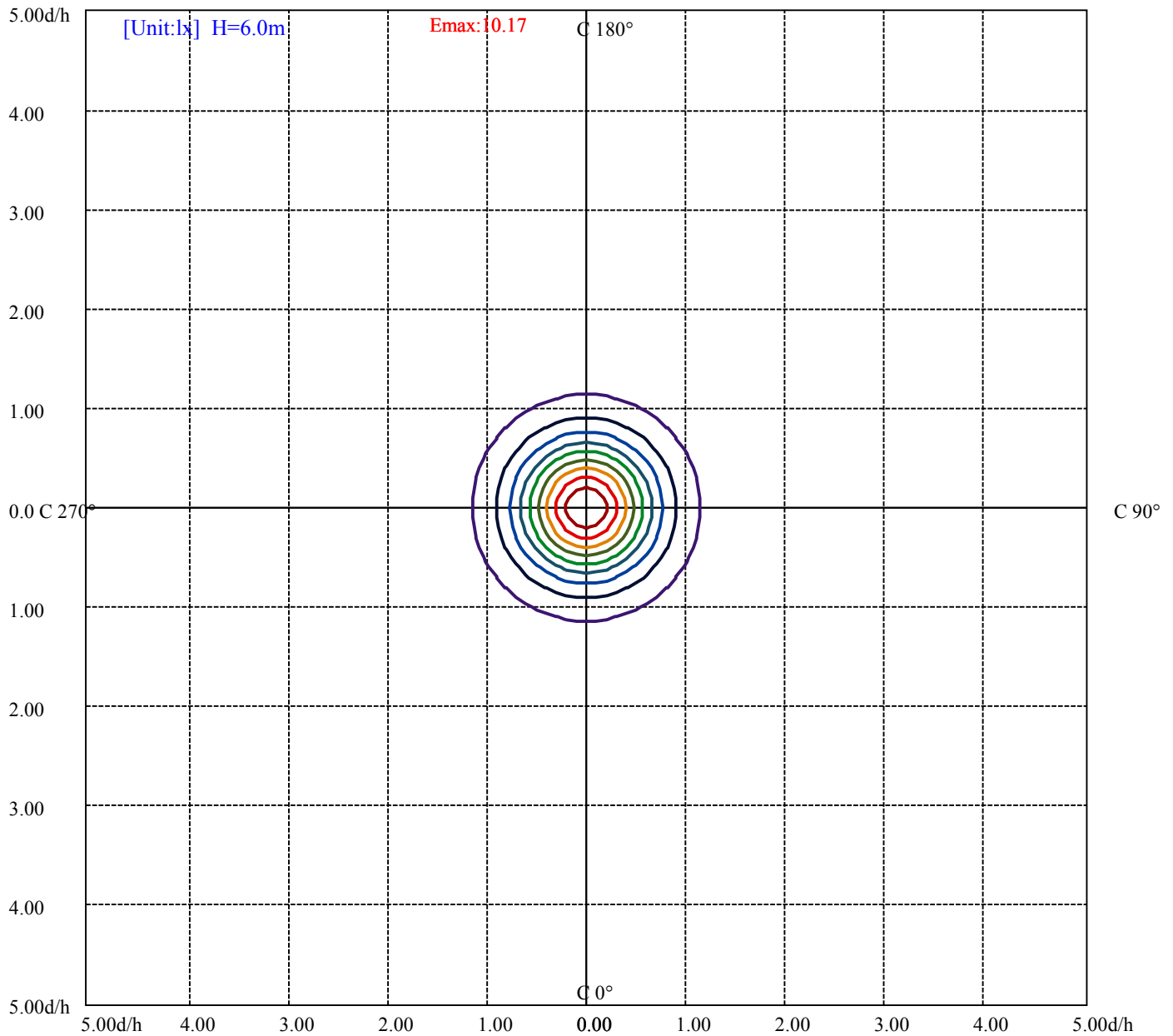
(50%Imax) 182.992

(60%Imax) 219.59

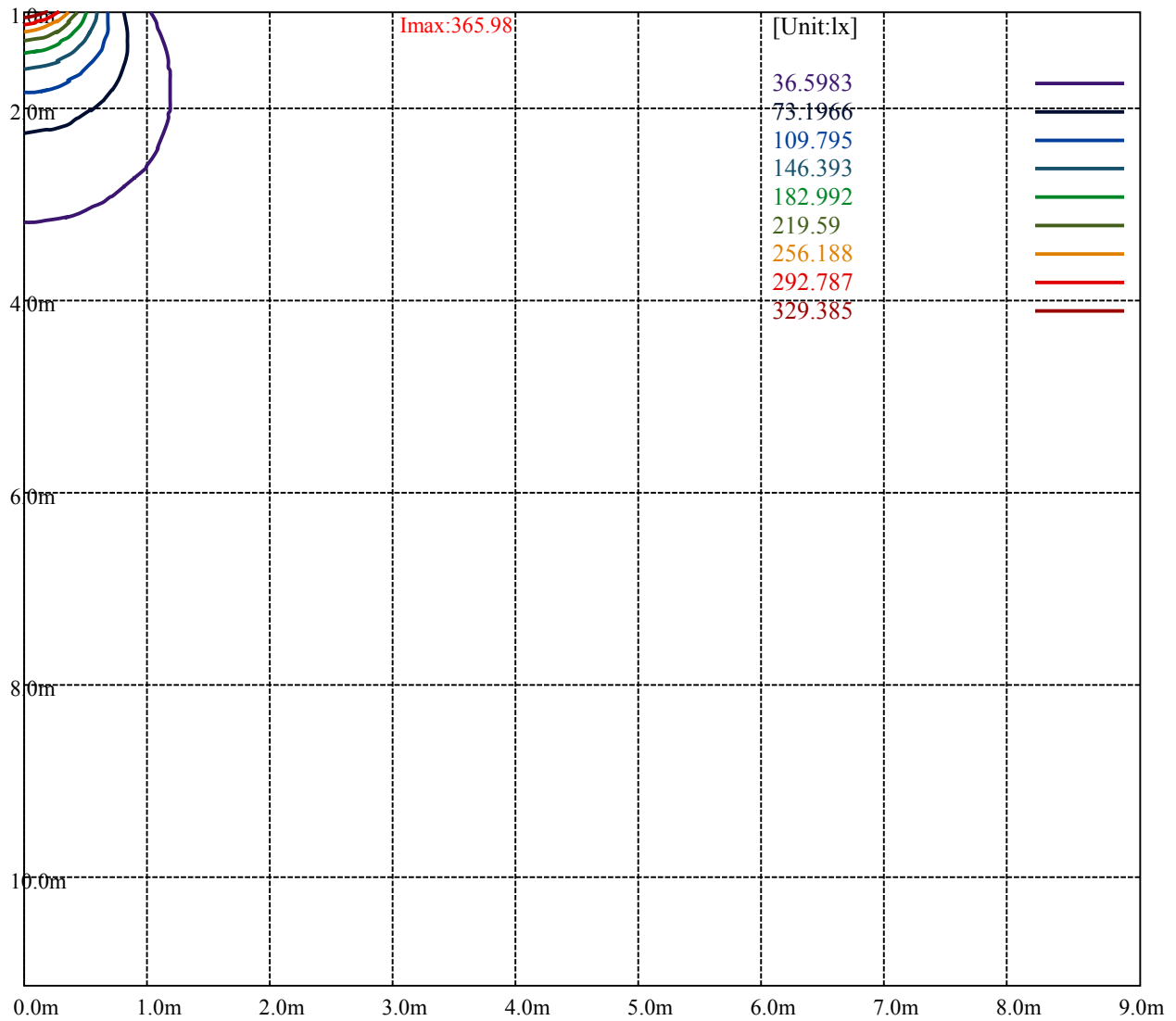
(70%Imax) 256.188

(80%Imax) 292.787

(90%Imax) 329.385



(10%Emax)	1.016619	—
(20%Emax)	2.033239	—
(30%Emax)	3.049861	—
(40%Emax)	4.066473	—
(50%Emax)	5.083111	—
(60%Emax)	6.099722	—
(70%Emax)	7.116333	—
(80%Emax)	8.132945	—
(90%Emax)	9.149584	—



Luminance Table

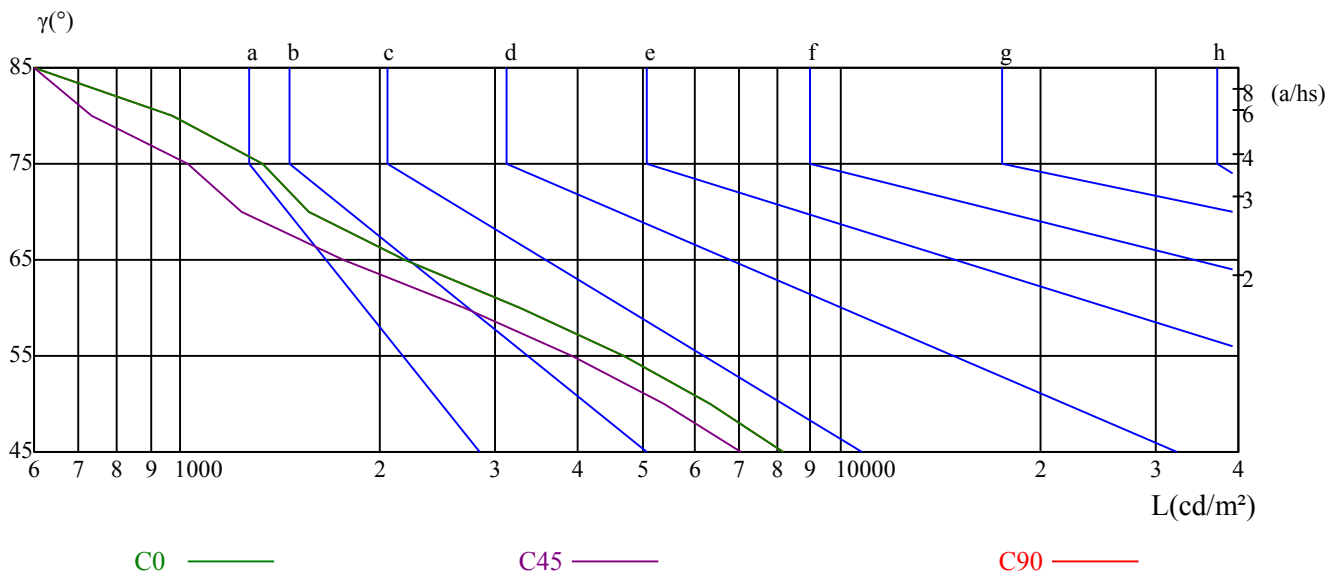
γ	45	50	55	60	65	70	75	80	85
C0	8196	6357	4695	3275	2181	1563	1328	974	521
C45	7062	5396	3923	2692	1761	1238	1029	736	382
C90	8196	6357	4695	3275	2181	1563	1328	974	521

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
5140	5140	5140	4465	4465	4465	4290	4290	4290

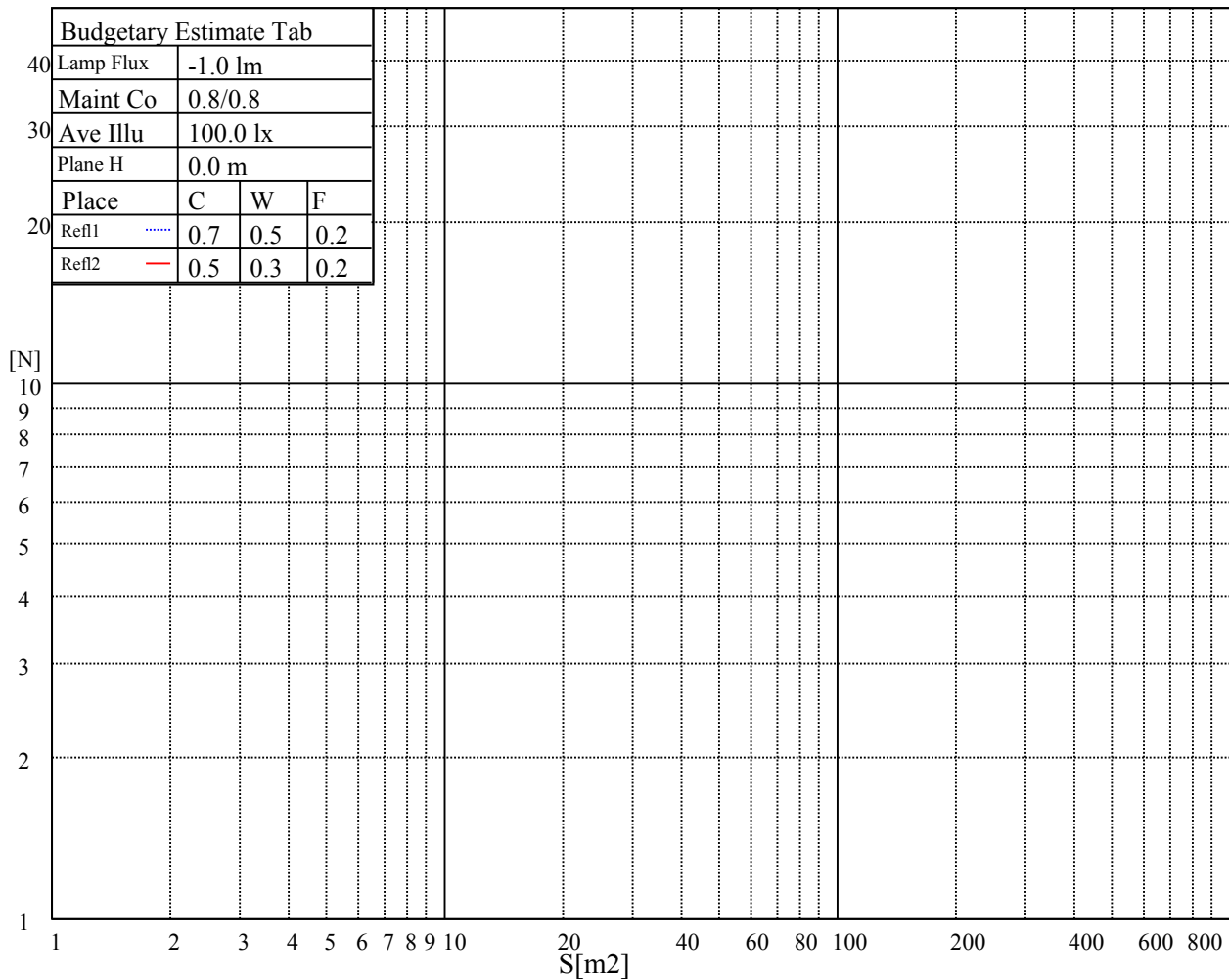
Glare Table

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

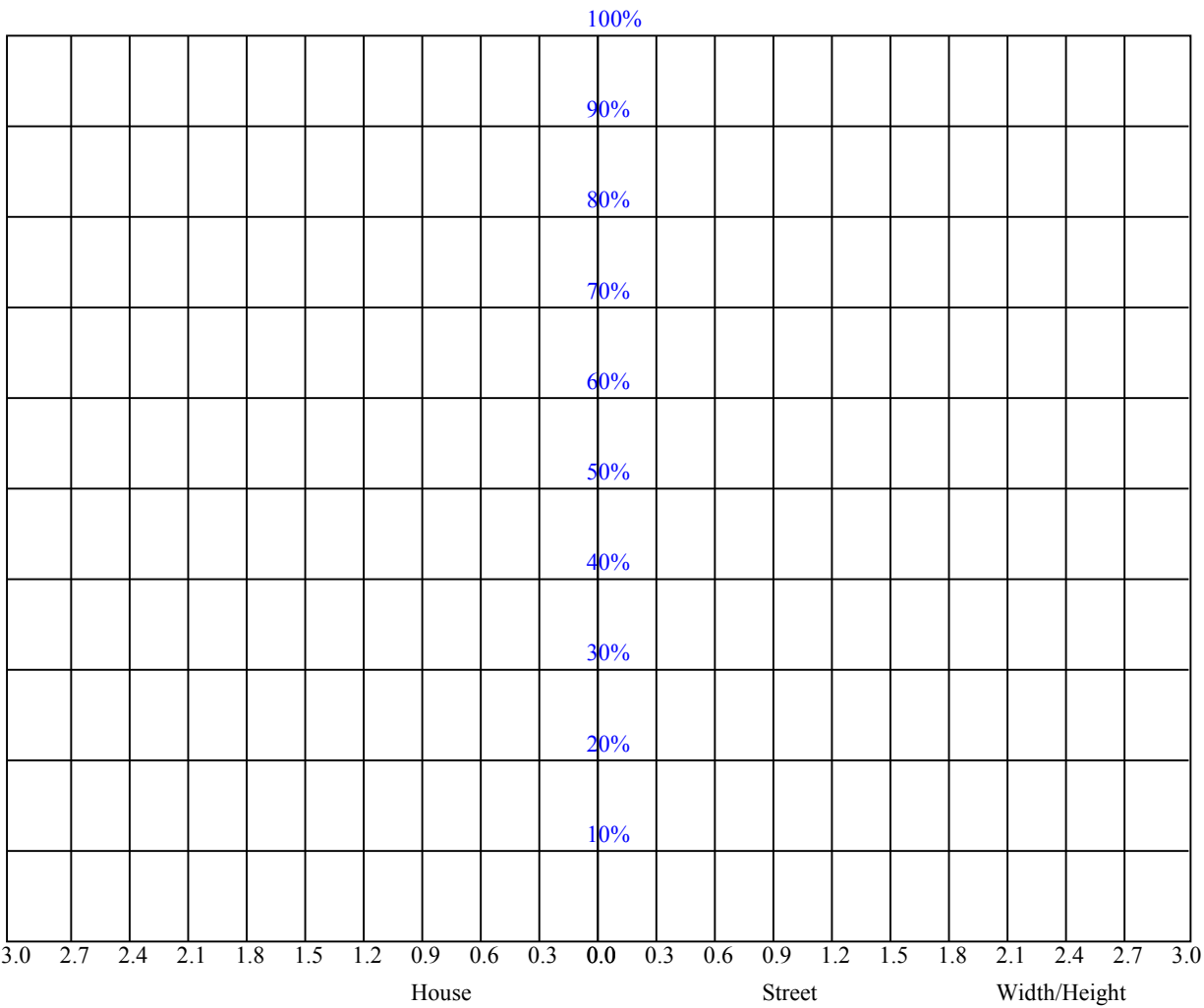
Luminance Limiting Curve



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		0.4/-1.1					0.4/-1.1			
S = 1.5H		1.1/-2.2					1.1/-2.2			
S = 2.0H		3.2/-2.9					3.2/-2.9			
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	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
45.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
90.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
135.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
180.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
225.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
270.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
315.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
360.0	365.98	365.84	365.52	364.92	364.03	363.06	361.76	360.32	358.61
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
45.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
90.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
135.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
180.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
225.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
270.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
315.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
360.0	356.66	354.57	352.48	349.83	347.33	344.45	341.76	338.51	335.31
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
45.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
90.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
135.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
180.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
225.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
270.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
315.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
360.0	332.02	328.58	325.06	321.30	317.35	313.13	308.40	303.52	298.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
45.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
90.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
135.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
180.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
225.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
270.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
315.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
360.0	291.65	285.89	278.79	272.02	265.01	257.77	250.21	242.60	234.80
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
45.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
90.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
135.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
180.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
225.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
270.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
315.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97
360.0	227.61	219.21	211.04	203.29	194.71	187.38	179.21	171.09	162.97

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	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
45.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
90.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
135.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
180.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
225.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
270.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
315.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
360.0	155.03	147.56	140.00	132.11	124.83	117.45	110.39	103.90	96.66
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
45.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
90.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
135.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
180.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
225.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
270.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
315.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
360.0	90.72	83.99	78.05	72.53	66.40	60.97	56.24	51.51	47.01
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
45.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
90.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
135.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
180.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
225.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
270.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
315.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
360.0	42.74	39.03	35.59	32.58	29.74	27.42	25.57	23.99	22.92
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
45.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
90.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
135.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
180.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
225.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
270.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
315.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
360.0	22.04	21.02	19.95	18.93	17.68	16.52	15.27	13.97	12.71
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
45.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
90.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
135.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
180.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
225.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
270.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
315.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76
360.0	11.55	10.16	8.82	7.47	6.13	4.78	3.48	2.41	1.76

Intensity data(cd)

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C/ γ (°)	90.0
0.0	1.44
45.0	1.44
90.0	1.44
135.0	1.44
180.0	1.44
225.0	1.44
270.0	1.44
315.0	1.44
360.0	1.44