



SOTEN LIGHTING LTD.
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SOTEN

LumCAT: T1046	
Luminaire: 3-1061-E3	
Report No:	Voltage(V): 220.7000
Test No:	Current(A): 0.2190
LampCAT: Lumileds1208 3000K Ra80	Power (W): 46.8800
Lamp flux(lm): 4680.0	PF: 0.9700
Number of Lamps: 1	Ballast type: Tridonic 50W 1200mA
Length(mm): 110	Width(mm): 110
Phm Type: C	Height(mm): 68

Photometric Results

Lumens(lm): 4026.12
Efficiency(%): 86.03%
Lumens(lm)/Power(W): 85.88
Central intensity(cd): 22458.660
Maximum intensity(cd): 22458.660
Angle of maximum intensity: $C=0.0$ $\gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=15.8
[C90/270]Total=15.8
Field angle(10%Imax): [C0/180]Total=41.9
[C90/270]Total=41.9
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.41 C90_270=0.31
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.03%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.069%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	22458.660	.000	.000	.000%	.000%
1.0	22268.410	21.401	21.401	.457%	.457%
2.0	21590.360	62.950	84.351	1.345%	1.802%
3.0	20500.440	100.667	185.019	2.151%	3.953%
4.0	19165.180	132.774	317.792	2.837%	6.790%
5.0	17522.510	157.829	475.621	3.372%	10.163%
6.0	15849.110	175.377	650.997	3.747%	13.910%
7.0	14004.570	185.301	836.299	3.959%	17.870%
8.0	10978.200	178.797	1015.096	3.820%	21.690%
9.0	10210.820	171.726	1186.821	3.669%	25.359%
10.0	8857.237	172.559	1359.380	3.687%	29.047%
11.0	7235.997	160.805	1520.184	3.436%	32.483%
12.0	5844.779	142.992	1663.176	3.055%	35.538%
13.0	4758.941	125.839	1789.016	2.689%	38.227%
14.0	3991.522	112.005	1901.021	2.393%	40.620%
15.0	3476.539	102.525	2003.546	2.191%	42.811%
16.0	3106.703	96.463	2100.009	2.061%	44.872%
17.0	2824.711	92.368	2192.377	1.974%	46.846%
18.0	2614.178	89.675	2282.052	1.916%	48.762%
19.0	2435.804	87.859	2369.912	1.877%	50.639%
20.0	2304.622	86.763	2456.675	1.854%	52.493%
21.0	2241.652	87.298	2543.972	1.865%	54.358%
22.0	2181.003	88.875	2632.847	1.899%	56.257%
23.0	2066.062	89.115	2721.962	1.904%	58.162%
24.0	2006.898	89.050	2811.012	1.903%	60.064%
25.0	1950.982	89.994	2901.006	1.923%	61.987%
26.0	1903.975	90.997	2992.002	1.944%	63.932%
27.0	1856.412	91.999	3084.001	1.966%	65.897%
28.0	1815.809	92.973	3176.974	1.987%	67.884%
29.0	1761.099	93.582	3270.556	2.000%	69.884%
30.0	1684.302	93.025	3363.581	1.988%	71.871%
31.0	1574.094	90.676	3454.258	1.938%	73.809%
32.0	1408.759	85.455	3539.713	1.826%	75.635%
33.0	1173.262	76.067	3615.780	1.625%	77.260%
34.0	1004.168	65.895	3681.676	1.408%	78.668%
35.0	887.325	58.743	3740.418	1.255%	79.923%
36.0	701.619	50.592	3791.011	1.081%	81.005%
37.0	537.954	40.428	3831.439	.864%	81.868%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	383.802	30.767	3862.206	.657%	82.526%
39.0	270.299	22.326	3884.532	.477%	83.003%
40.0	206.541	16.631	3901.163	.355%	83.358%
41.0	185.242	13.951	3915.114	.298%	83.656%
42.0	104.640	10.532	3925.646	.225%	83.881%
43.0	71.508	6.525	3932.171	.139%	84.021%
44.0	54.292	4.748	3936.919	.101%	84.122%
45.0	46.125	3.859	3940.778	.082%	84.205%
46.0	43.805	3.517	3944.295	.075%	84.280%
47.0	42.273	3.424	3947.718	.073%	84.353%
48.0	41.206	3.375	3951.093	.072%	84.425%
49.0	40.092	3.339	3954.432	.071%	84.496%
50.0	38.561	3.279	3957.711	.070%	84.566%
51.0	36.937	3.194	3960.905	.068%	84.635%
52.0	35.638	3.114	3964.020	.067%	84.701%
53.0	34.988	3.072	3967.092	.066%	84.767%
54.0	34.385	3.058	3970.149	.065%	84.832%
55.0	33.735	3.041	3973.190	.065%	84.897%
56.0	33.457	3.036	3976.226	.065%	84.962%
57.0	33.503	3.062	3979.288	.065%	85.028%
58.0	33.457	3.096	3982.384	.066%	85.094%
59.0	33.457	3.128	3985.512	.067%	85.161%
60.0	32.529	3.117	3988.630	.067%	85.227%
61.0	30.441	3.005	3991.635	.064%	85.291%
62.0	27.935	2.813	3994.448	.060%	85.351%
63.0	25.197	2.584	3997.032	.055%	85.407%
64.0	22.784	2.354	3999.386	.050%	85.457%
65.0	20.742	2.154	4001.541	.046%	85.503%
66.0	19.118	1.989	4003.529	.042%	85.546%
67.0	17.633	1.848	4005.377	.039%	85.585%
68.0	16.102	1.709	4007.086	.037%	85.622%
69.0	14.988	1.586	4008.672	.034%	85.655%
70.0	13.967	1.487	4010.159	.032%	85.687%
71.0	13.503	1.420	4011.579	.030%	85.718%
72.0	13.132	1.385	4012.964	.030%	85.747%
73.0	12.761	1.354	4014.318	.029%	85.776%
74.0	12.436	1.325	4015.643	.028%	85.804%
75.0	12.065	1.295	4016.938	.028%	85.832%

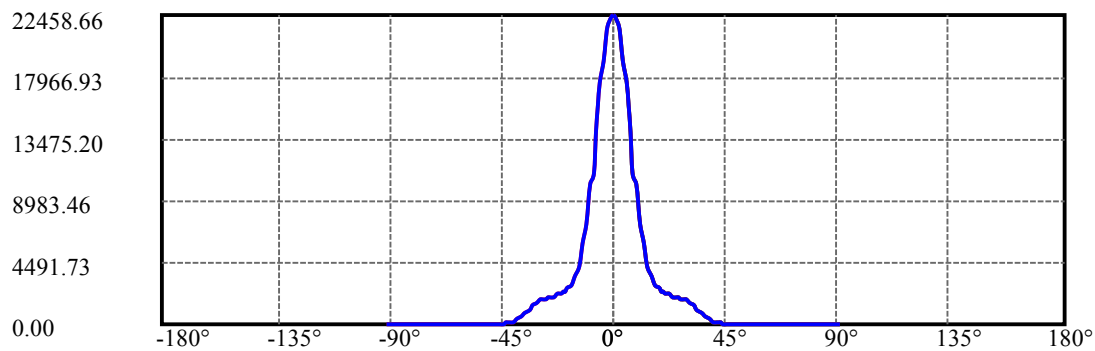
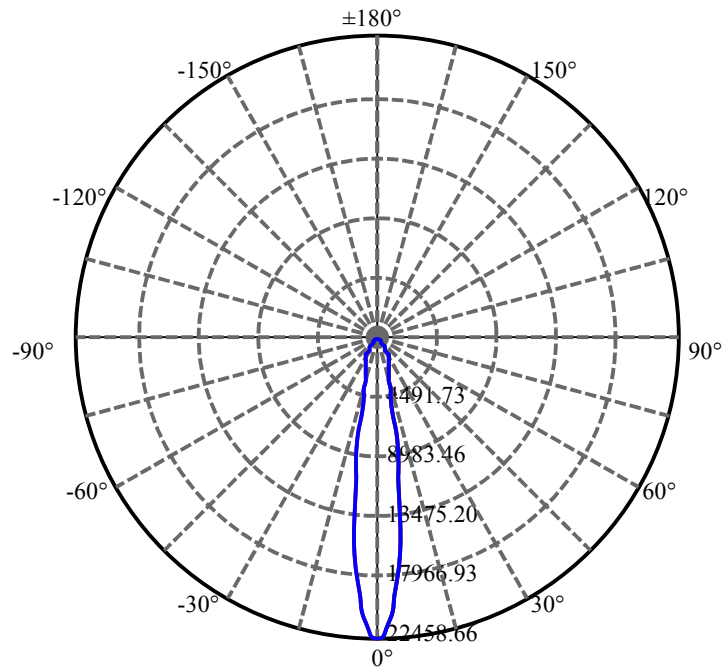
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.647	1.259	4018.196	.027%	85.859%
77.0	11.183	1.217	4019.414	.026%	85.885%
78.0	10.487	1.160	4020.573	.025%	85.910%
79.0	9.559	1.077	4021.651	.023%	85.933%
80.0	8.213	.958	4022.609	.020%	85.953%
81.0	6.589	.801	4023.409	.017%	85.970%
82.0	4.687	.611	4024.021	.013%	85.983%
83.0	3.109	.424	4024.445	.009%	85.992%
84.0	2.459	.303	4024.748	.006%	85.999%
85.0	2.367	.263	4025.012	.006%	86.005%
86.0	2.227	.251	4025.263	.005%	86.010%
87.0	2.088	.236	4025.499	.005%	86.015%
88.0	1.995	.224	4025.723	.005%	86.020%
89.0	1.856	.211	4025.934	.005%	86.024%
90.0	1.671	.193	4026.127	.004%	86.028%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3363.58	71.87%	83.54%
0-40	3901.16	83.36%	96.90%
0-60	3988.63	85.23%	99.07%
0-90	4025.93	86.02%	100.00%
0-120	4025.93	86.02%	100.00%
0-180	4026.13	86.03%	100.00%
60-90	40.42	0.86%	1.00%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.47	3220.90	68.82%	80.00%

ZONAL LUMEN SUMMARY

0-10	1359.38
10-20	1097.29
20-30	906.91
30-40	537.58
40-50	56.55
50-60	30.92
60-70	21.53
70-80	12.45
80-90	3.32
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:

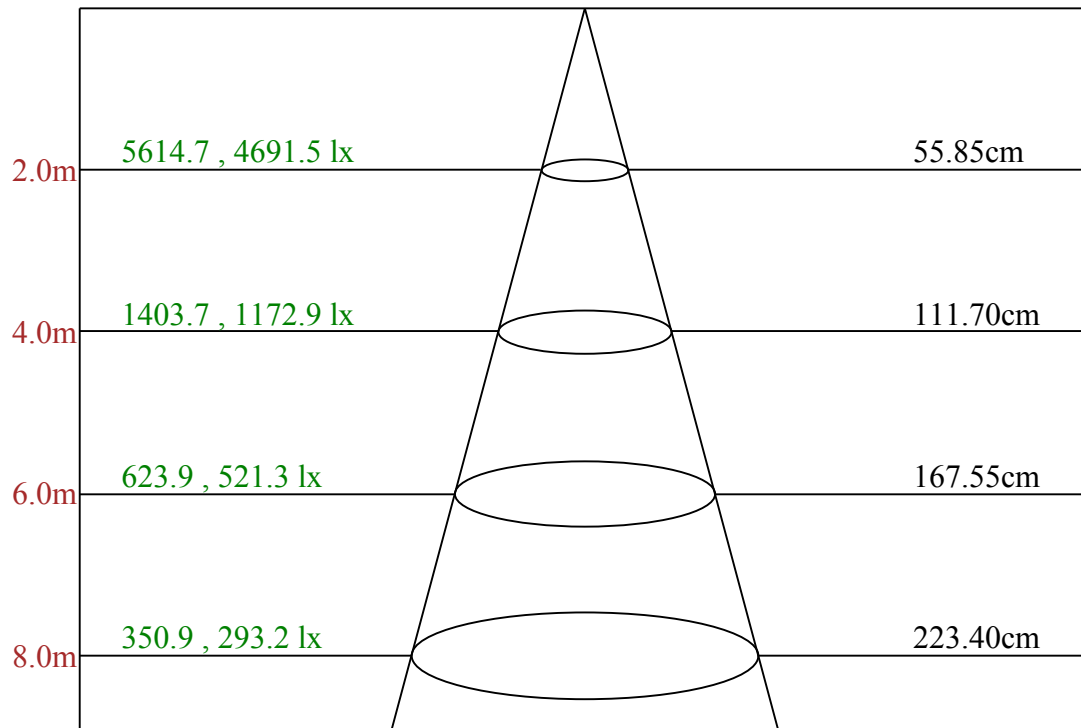
C90/C270:

Field angle(10%Imax):C0/180Left:20.9 Right:20.9

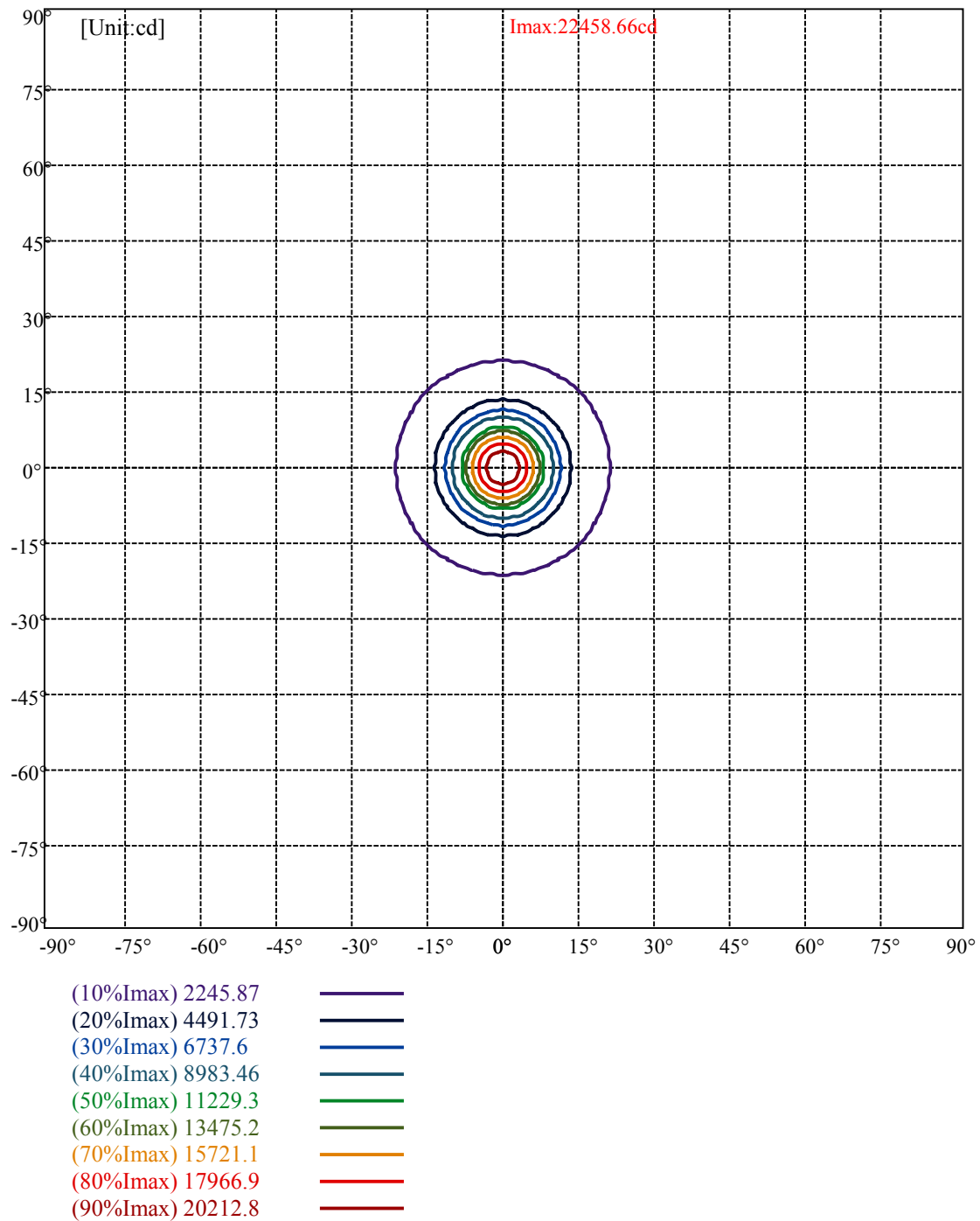
:C90/270Left:20.9 Right:20.9

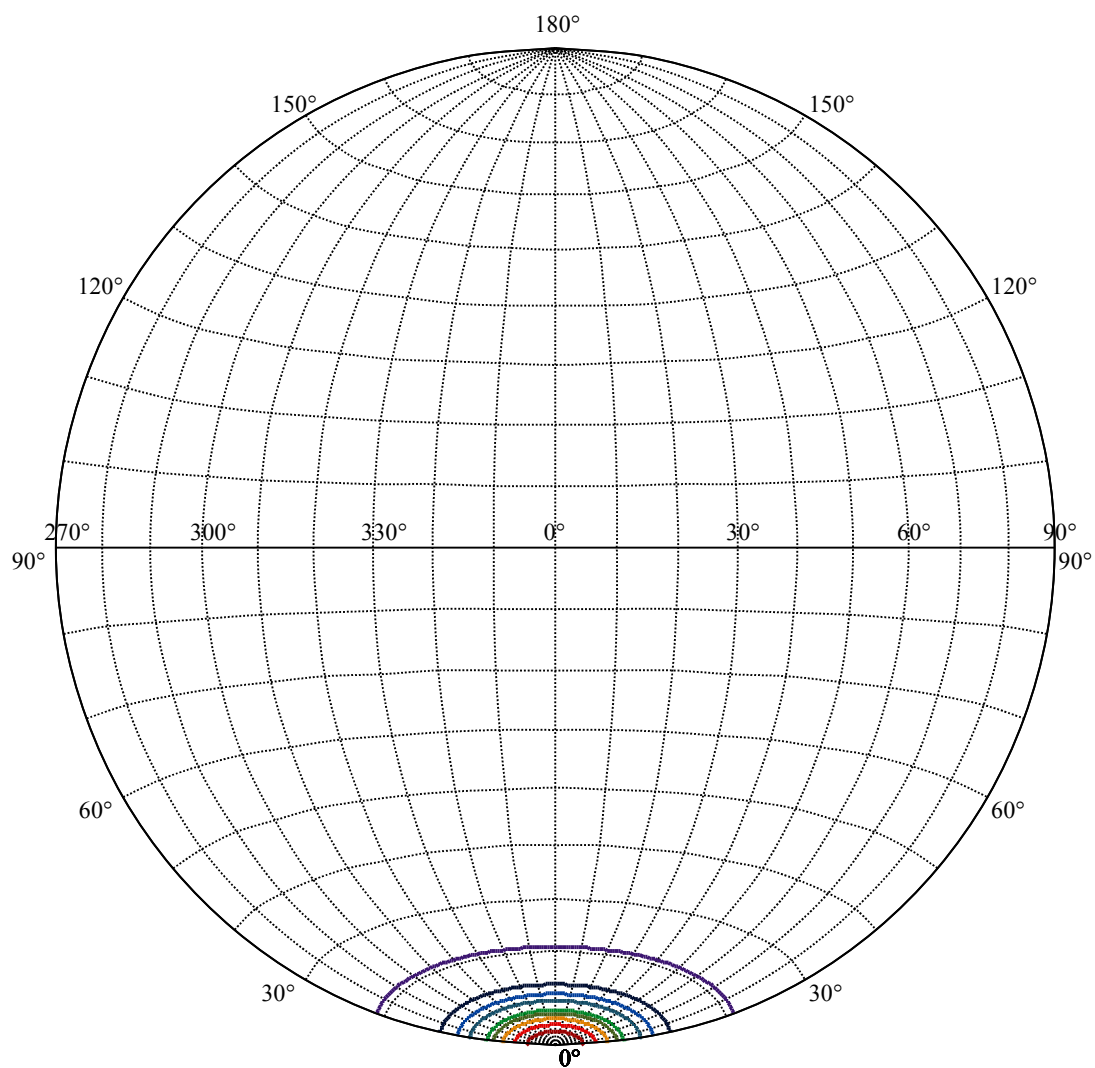
Beam Angle(50%Imax):C0/180Left:7.9 Right:7.9

:C90/270Left:7.9 Right:7.9



Max , Ave Beam angle of C0plane15.90





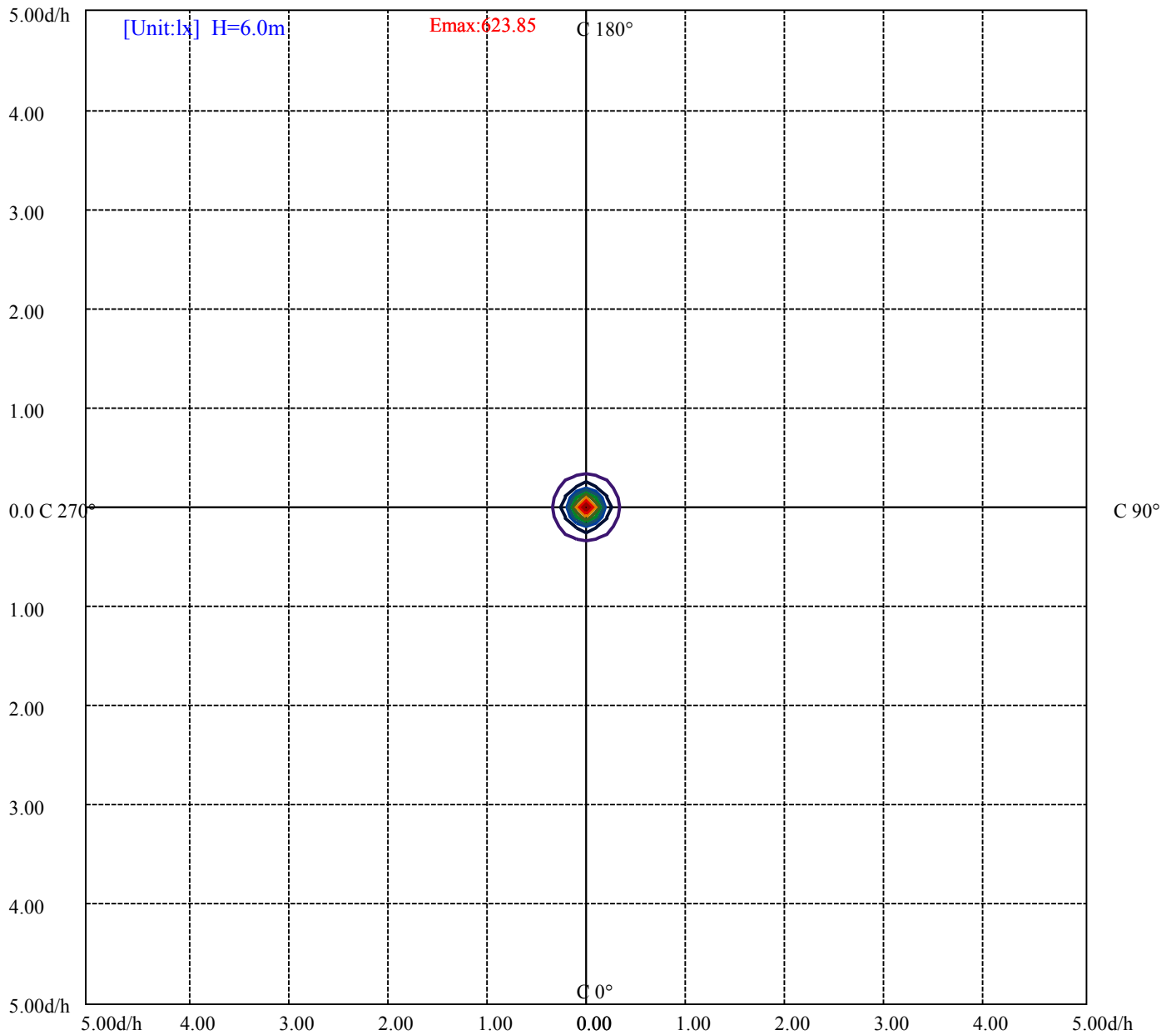
House

[Unit:cd]

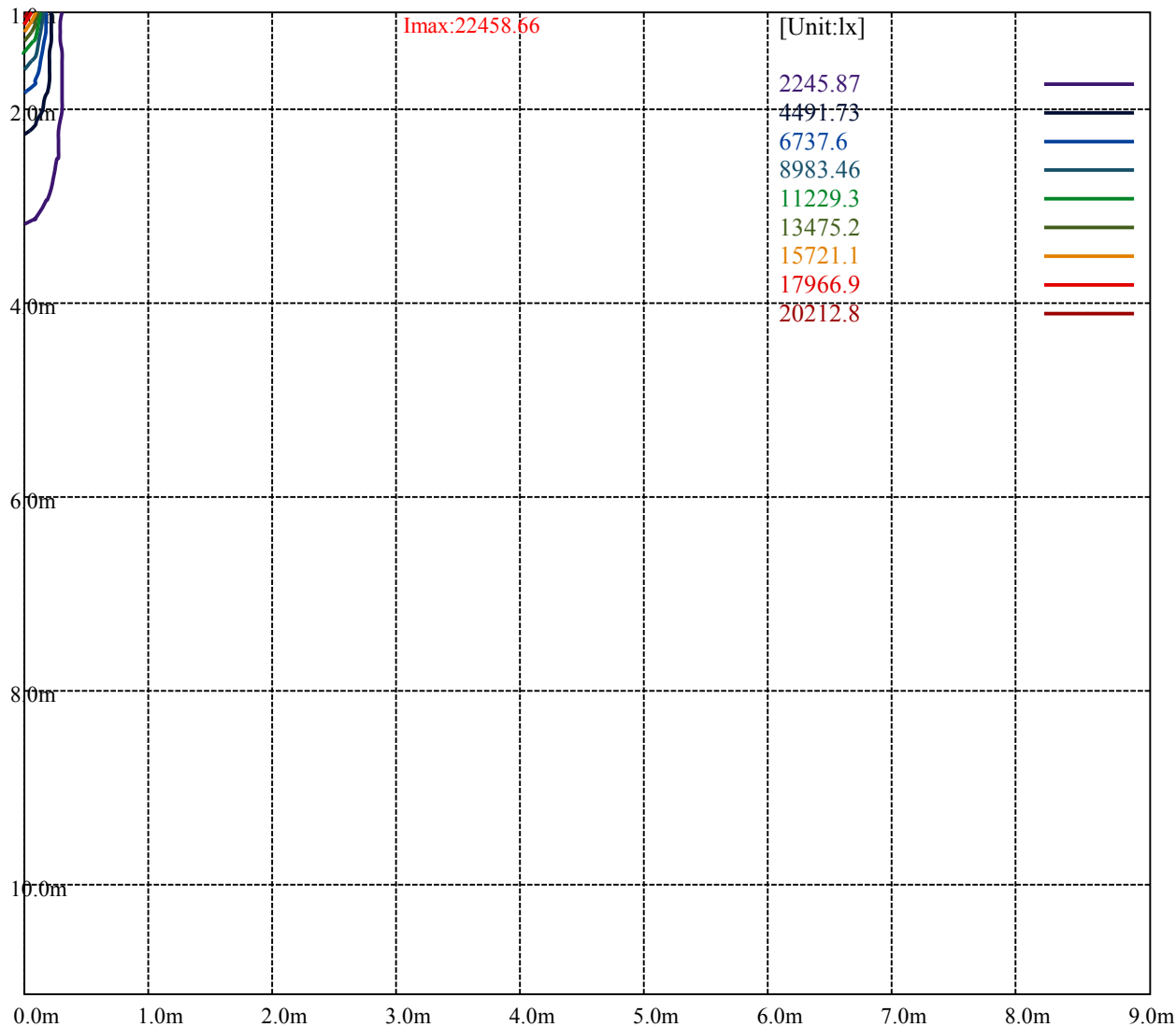
Road

Imax:22458.66

(10%Imax)	2245.87	—
(20%Imax)	4491.73	—
(30%Imax)	6737.6	—
(40%Imax)	8983.46	—
(50%Imax)	11229.3	—
(60%Imax)	13475.2	—
(70%Imax)	15721.1	—
(80%Imax)	17966.9	—
(90%Imax)	20212.8	—



(10%Emax)	62.385	
(20%Emax)	124.7703	
(30%Emax)	187.1553	
(40%Emax)	249.5403	
(50%Emax)	311.925	
(60%Emax)	374.3111	
(70%Emax)	436.6945	
(80%Emax)	499.0806	
(90%Emax)	561.4667	



Luminance Table

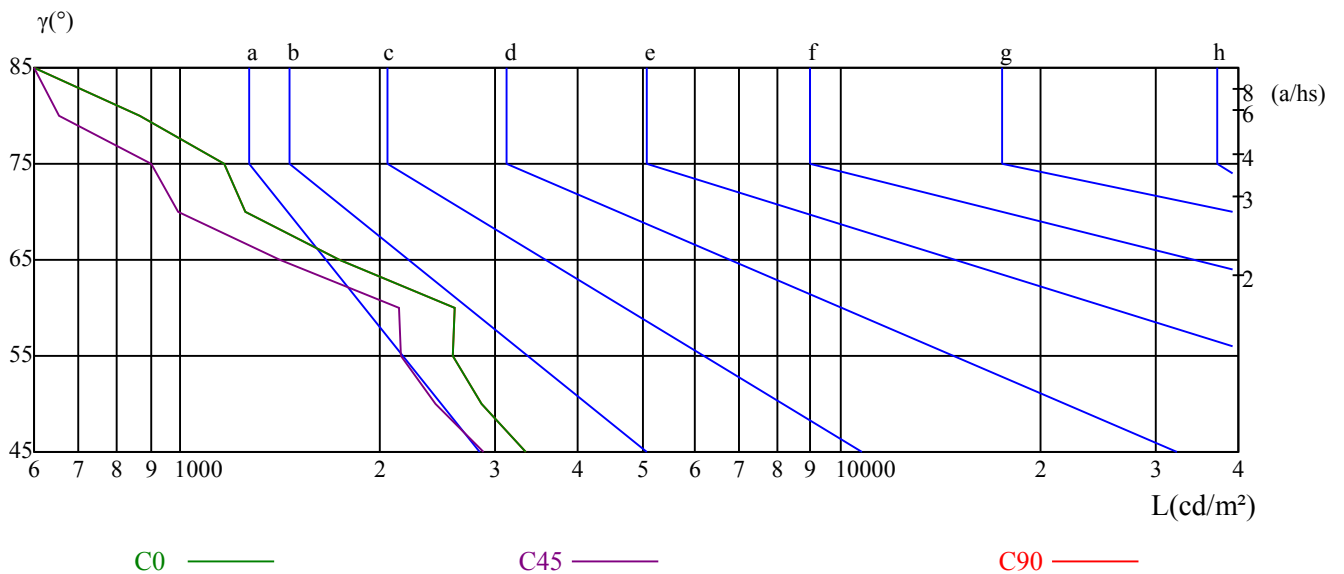
γ	45	50	55	60	65	70	75	80	85
C0	3331	2855	2582	2597	1744	1251	1165	868	278
C45	2876	2428	2162	2138	1411	992	904	656	204
C90	3331	2855	2582	2597	1744	1251	1165	868	278

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
4056	4056	4056	3852	3852	3852	2244	2244	2244

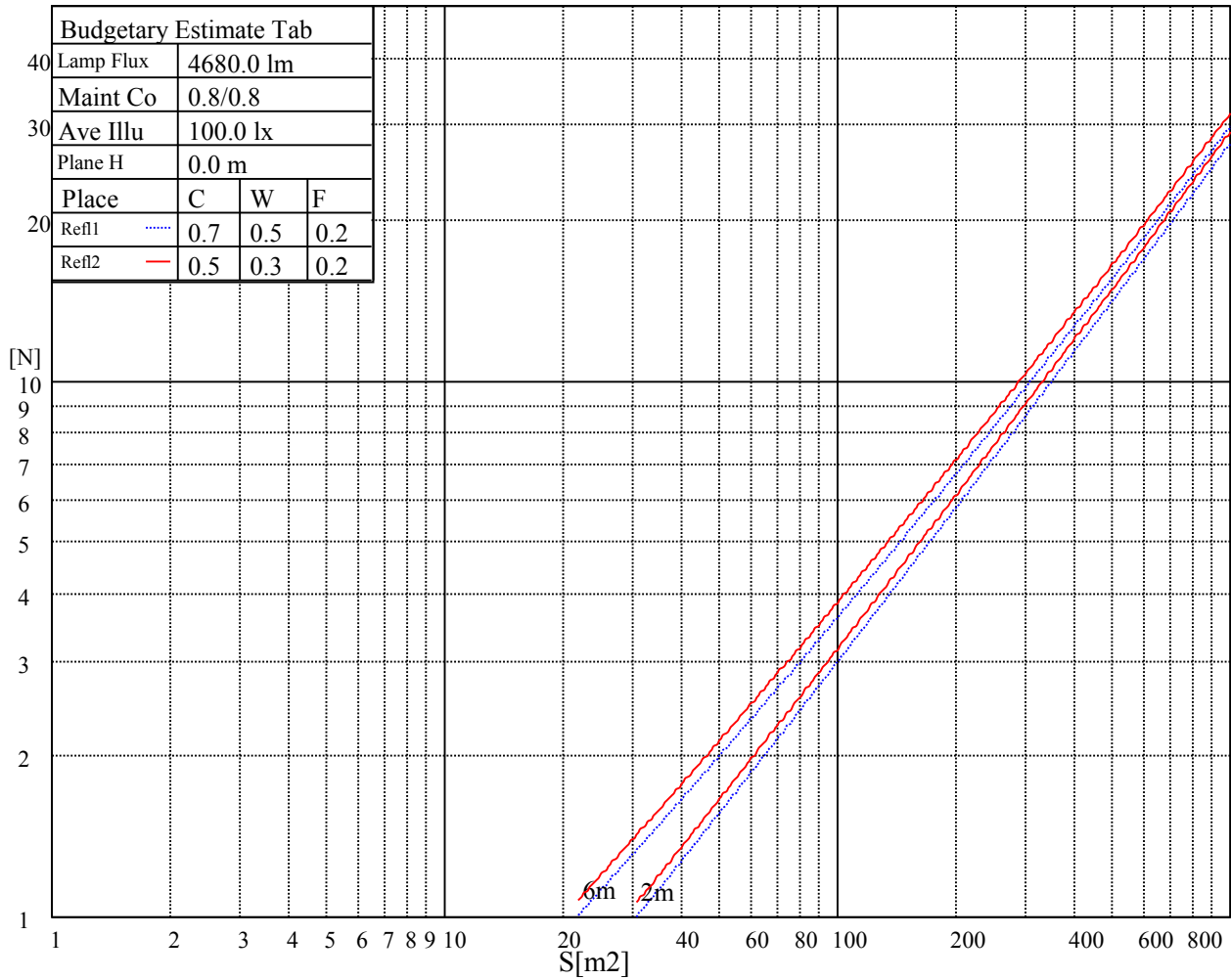
Glare Table

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

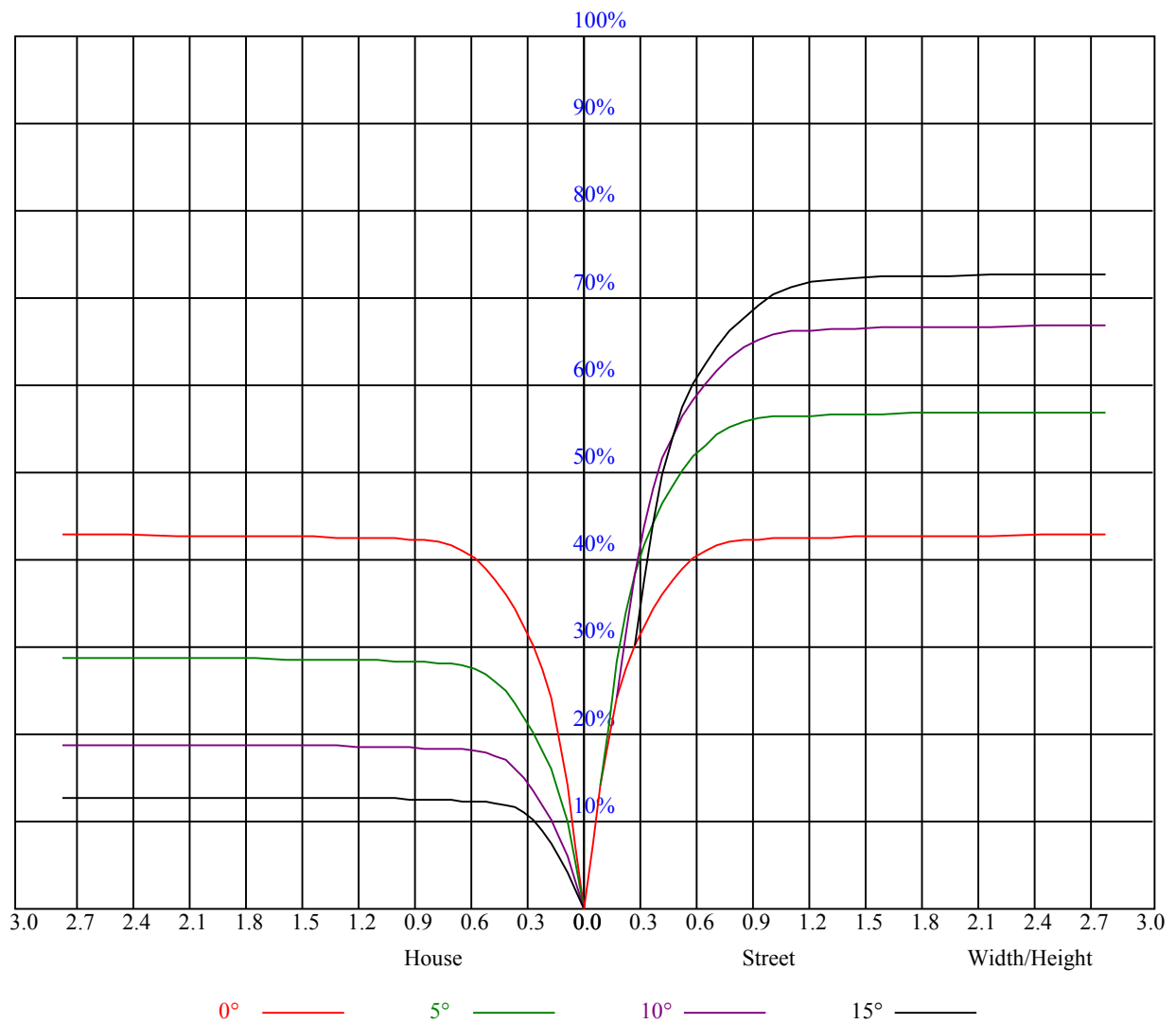
Luminance Limiting Curve



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	9.6	10.3	9.9	10.5	10.7	9.6	10.3	9.9	10.5	10.7
	3H	9.6	10.2	9.8	10.4	10.7	9.6	10.2	9.8	10.4	10.7
	4H	9.4	9.9	9.8	10.2	10.5	9.4	9.9	9.8	10.2	10.5
	6H	9.5	10.0	9.8	10.3	10.6	9.5	10.0	9.8	10.3	10.6
	8H	9.5	10.0	9.8	10.3	10.6	9.5	10.0	9.8	10.3	10.6
	12H	9.3	9.7	9.7	10.0	10.4	9.3	9.7	9.7	10.0	10.4
4H	2H	9.3	9.9	9.7	10.2	10.5	9.3	9.9	9.7	10.2	10.5
	3H	9.2	9.6	9.7	10.0	10.4	9.2	9.6	9.7	10.0	10.4
	4H	9.3	9.7	9.7	10.1	10.5	9.3	9.7	9.7	10.1	10.5
	6H	9.4	9.8	9.8	10.2	10.5	9.4	9.8	9.8	10.2	10.5
	8H	9.2	9.4	9.7	9.9	10.4	9.2	9.4	9.7	9.9	10.4
	12H	9.2	9.4	9.7	9.9	10.4	9.2	9.4	9.7	9.9	10.4
8H	4H	9.1	9.3	9.6	9.8	10.3	9.1	9.3	9.6	9.8	10.3
	6H	9.2	9.4	9.7	9.9	10.4	9.2	9.4	9.7	9.9	10.4
	8H	9.2	9.5	9.7	9.9	10.4	9.2	9.5	9.7	9.9	10.4
	12H	9.2	9.5	9.7	9.9	10.4	9.2	9.5	9.7	9.9	10.4
12H	4H	9.1	9.3	9.6	9.8	10.3	9.1	9.3	9.6	9.8	10.3
	6H	9.2	9.4	9.7	9.9	10.4	9.2	9.4	9.7	9.9	10.4
	8H	9.2	9.5	9.7	9.9	10.4	9.2	9.5	9.7	9.9	10.4
Variation with the observer position at spacings:											
S = 1.0H		5.8/-7.9					5.8/-7.9				
S = 1.5H		8.5/-7.3					8.5/-7.3				
S = 2.0H		10.4/-7.8					10.4/-7.8				
Standard tables:		BK0					BK0				
Uncorrected UGR		-3.8					-3.8				



RHOC	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	1.02	1.02	1.02	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.95	0.93	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.82
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.82	0.81	0.80	0.78
3	0.86	0.83	0.80	0.85	0.82	0.80	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.76	0.75
4	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.77	0.74	0.73	0.71
5	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.69
6	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
8	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
9	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
10	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57



SOTEN T1046

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	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
45.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
90.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
135.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
180.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
225.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
270.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
315.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20
360.0	22458.66	22268.41	21590.36	20500.44	19165.18	17522.50	15849.11	14004.57	10978.20

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
45.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
90.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
135.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
180.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
225.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
270.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
315.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71
360.0	10210.82	8857.24	7236.00	5844.78	4758.94	3991.52	3476.54	3106.70	2824.71

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
45.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
90.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
135.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
180.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
225.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
270.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
315.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98
360.0	2614.18	2435.80	2304.62	2241.65	2181.00	2066.06	2006.90	1950.98	1903.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
45.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
90.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
135.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
180.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
225.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
270.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
315.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32
360.0	1856.41	1815.81	1761.10	1684.30	1574.09	1408.76	1173.26	1004.17	887.32

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
45.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
90.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
135.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
180.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
225.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
270.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
315.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29
360.0	701.62	537.95	383.80	270.30	206.54	185.24	104.64	71.51	54.29

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Intensity data(cd)										Page: 18 Total:19	
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
45.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
90.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
135.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
180.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
225.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
270.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
315.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
360.0	46.12	43.80	42.27	41.21	40.09	38.56	36.94	35.64	34.99		
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
45.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
90.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
135.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
180.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
225.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
270.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
315.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
360.0	34.38	33.74	33.46	33.50	33.46	33.46	32.53	30.44	27.93		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
45.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
90.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
135.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
180.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
225.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
270.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
315.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
360.0	25.20	22.78	20.74	19.12	17.63	16.10	14.99	13.97	13.50		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
45.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
90.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
135.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
180.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
225.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
270.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
315.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
360.0	13.13	12.76	12.44	12.06	11.65	11.18	10.49	9.56	8.21		
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
45.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
90.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
135.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
180.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
225.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
270.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
315.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		
360.0	6.59	4.69	3.11	2.46	2.37	2.23	2.09	2.00	1.86		

Intensity data(cd)

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C/ γ (°)	90.0
0.0	1.67
45.0	1.67
90.0	1.67
135.0	1.67
180.0	1.67
225.0	1.67
270.0	1.67
315.0	1.67
360.0	1.67