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SOTEN

LumCAT: T1153	
Luminaire: 1-0810-S	
Report No:	Voltage(V): 220.4000
Test No:	Current(A): 0.1440
LampCAT: OSRAM5050 3000K Ra90	Power (W): 30.2900
Lamp flux(lm): 3176.0	PF: 0.9490
Number of Lamps: 1	Ballast type: POWERGEAR 900mA
Length(mm): 105	Width(mm): 105
Phm Type: C	Height(mm): 20

Photometric Results

Lumens(lm): 2865.61
Efficiency(%): 90.23%
Lumens(lm)/Power(W): 94.61
Central intensity(cd): 4942.930
Maximum intensity(cd): 4956.387
Angle of maximum intensity: C=180.0 γ =1.0
Beam Angle(50%Imax): [C0/180]Total=37.4
 [C90/270]Total=38.0
Field angle(10%Imax): [C0/180]Total=82.5
 [C90/270]Total=82.2
Maximum s/h(1/2): C0_180=0.66 C90_270=0.62
Maximum s/h(1/4): C0_180=0.95 C90_270=0.66
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.619%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2019/12/24
Humidity(%): 60.0%

Operator: 01
Distance(m): 6.81

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4920.889	.000	.000	.000%	.000%
1.0	4911.724	4.705	4.705	.148%	.148%
2.0	4884.520	14.061	18.765	.443%	.591%
3.0	4839.741	23.257	42.022	.732%	1.323%
4.0	4775.762	32.186	74.209	1.013%	2.337%
5.0	4699.370	40.762	114.970	1.283%	3.620%
6.0	4603.664	48.890	163.860	1.539%	5.159%
7.0	4491.832	56.456	220.316	1.778%	6.937%
8.0	4369.965	63.422	283.738	1.997%	8.934%
9.0	4239.514	69.775	353.513	2.197%	11.131%
10.0	4086.034	75.343	428.856	2.372%	13.503%
11.0	3918.287	79.980	508.836	2.518%	16.021%
12.0	3753.729	83.866	592.702	2.641%	18.662%
13.0	3579.426	87.026	679.728	2.740%	21.402%
14.0	3392.073	89.235	768.963	2.810%	24.212%
15.0	3202.109	90.528	859.490	2.850%	27.062%
16.0	3021.135	91.188	950.678	2.871%	29.933%
17.0	2824.560	91.033	1041.711	2.866%	32.799%
18.0	2650.779	90.276	1131.988	2.842%	35.642%
19.0	2474.795	89.174	1221.162	2.808%	38.450%
20.0	2298.636	87.367	1308.529	2.751%	41.201%
21.0	2154.669	85.512	1394.042	2.692%	43.893%
22.0	2013.429	83.760	1477.802	2.637%	46.530%
23.0	1867.897	81.441	1559.242	2.564%	49.095%
24.0	1753.513	79.177	1638.419	2.493%	51.588%
25.0	1632.980	77.001	1715.421	2.424%	54.012%
26.0	1531.705	74.703	1790.123	2.352%	56.364%
27.0	1446.323	72.858	1862.982	2.294%	58.658%
28.0	1368.191	71.258	1934.239	2.244%	60.902%
29.0	1302.472	69.872	2004.111	2.200%	63.102%
30.0	1241.800	68.695	2072.806	2.163%	65.265%
31.0	1187.972	67.617	2140.423	2.129%	67.394%
32.0	1144.121	66.812	2207.235	2.104%	69.497%
33.0	1105.838	66.285	2273.519	2.087%	71.584%
34.0	1056.911	65.451	2338.970	2.061%	73.645%
35.0	1014.626	64.334	2403.305	2.026%	75.671%
36.0	963.908	62.997	2466.302	1.984%	77.654%
37.0	907.800	61.045	2527.346	1.922%	79.576%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	831.449	58.054	2585.400	1.828%	81.404%
39.0	729.130	53.267	2638.667	1.677%	83.081%
40.0	617.153	46.954	2685.620	1.478%	84.560%
41.0	509.712	40.127	2725.748	1.263%	85.823%
42.0	409.098	33.382	2759.129	1.051%	86.874%
43.0	300.090	26.270	2785.400	.827%	87.702%
44.0	219.610	19.615	2805.015	.618%	88.319%
45.0	143.613	13.959	2818.974	.440%	88.759%
46.0	99.054	9.490	2828.464	.299%	89.057%
47.0	45.487	5.749	2834.213	.181%	89.238%
48.0	31.432	3.109	2837.322	.098%	89.336%
49.0	23.718	2.265	2839.587	.071%	89.408%
50.0	21.612	1.890	2841.477	.060%	89.467%
51.0	19.843	1.754	2843.231	.055%	89.522%
52.0	18.260	1.635	2844.866	.051%	89.574%
53.0	16.844	1.527	2846.393	.048%	89.622%
54.0	15.568	1.429	2847.822	.045%	89.667%
55.0	14.397	1.338	2849.159	.042%	89.709%
56.0	13.364	1.254	2850.414	.039%	89.749%
57.0	12.314	1.174	2851.588	.037%	89.786%
58.0	11.479	1.100	2852.688	.035%	89.820%
59.0	10.655	1.035	2853.723	.033%	89.853%
60.0	9.733	.963	2854.686	.030%	89.883%
61.0	9.089	.898	2855.584	.028%	89.911%
62.0	8.399	.843	2856.427	.027%	89.938%
63.0	7.697	.783	2857.210	.025%	89.963%
64.0	7.146	.728	2857.938	.023%	89.985%
65.0	6.531	.677	2858.615	.021%	90.007%
66.0	6.015	.626	2859.241	.020%	90.026%
67.0	5.539	.581	2859.823	.018%	90.045%
68.0	5.035	.536	2860.358	.017%	90.062%
69.0	4.606	.492	2860.850	.015%	90.077%
70.0	4.211	.453	2861.303	.014%	90.091%
71.0	3.805	.414	2861.717	.013%	90.104%
72.0	3.486	.379	2862.096	.012%	90.116%
73.0	3.132	.346	2862.442	.011%	90.127%
74.0	2.836	.314	2862.756	.010%	90.137%
75.0	2.552	.285	2863.041	.009%	90.146%

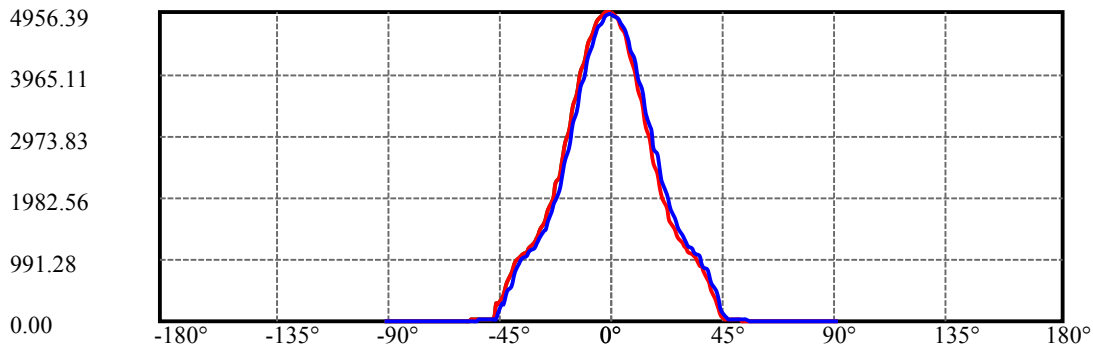
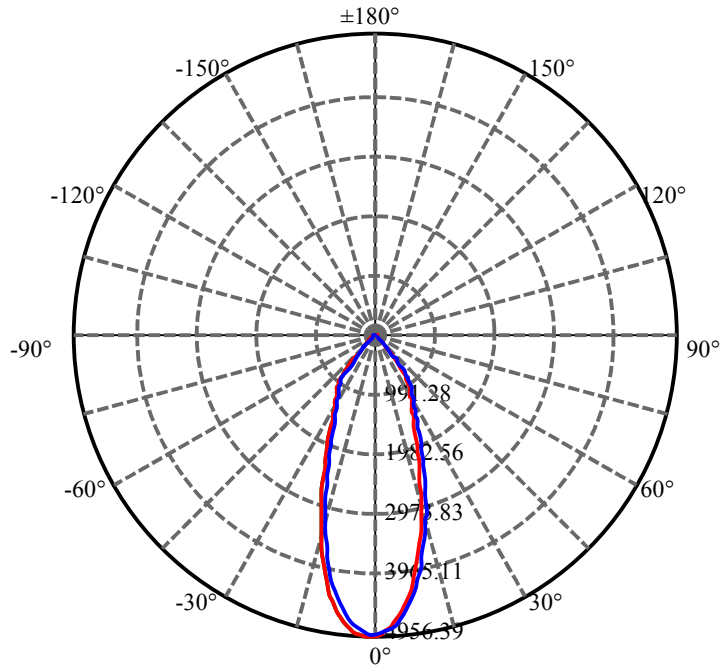
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.303	.258	2863.299	.008%	90.154%
77.0	2.071	.233	2863.532	.007%	90.162%
78.0	1.885	.212	2863.743	.007%	90.168%
79.0	1.711	.193	2863.937	.006%	90.174%
80.0	1.578	.177	2864.114	.006%	90.180%
81.0	1.456	.164	2864.278	.005%	90.185%
82.0	1.410	.155	2864.433	.005%	90.190%
83.0	1.357	.150	2864.583	.005%	90.195%
84.0	1.346	.147	2864.731	.005%	90.199%
85.0	1.340	.147	2864.877	.005%	90.204%
86.0	1.328	.146	2865.023	.005%	90.209%
87.0	1.340	.146	2865.169	.005%	90.213%
88.0	1.340	.147	2865.316	.005%	90.218%
89.0	1.351	.148	2865.463	.005%	90.222%
90.0	1.334	.147	2865.610	.005%	90.227%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2072.81	65.26%	72.33%
0-40	2685.62	84.56%	93.72%
0-60	2854.69	89.88%	99.62%
0-90	2865.46	90.22%	99.99%
0-120	2865.46	90.22%	99.99%
0-180	2865.61	90.23%	100.00%
60-90	11.74	0.37%	0.41%
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%
0-33.29	2292.49	72.18%	80.00%

ZONAL LUMEN SUMMARY

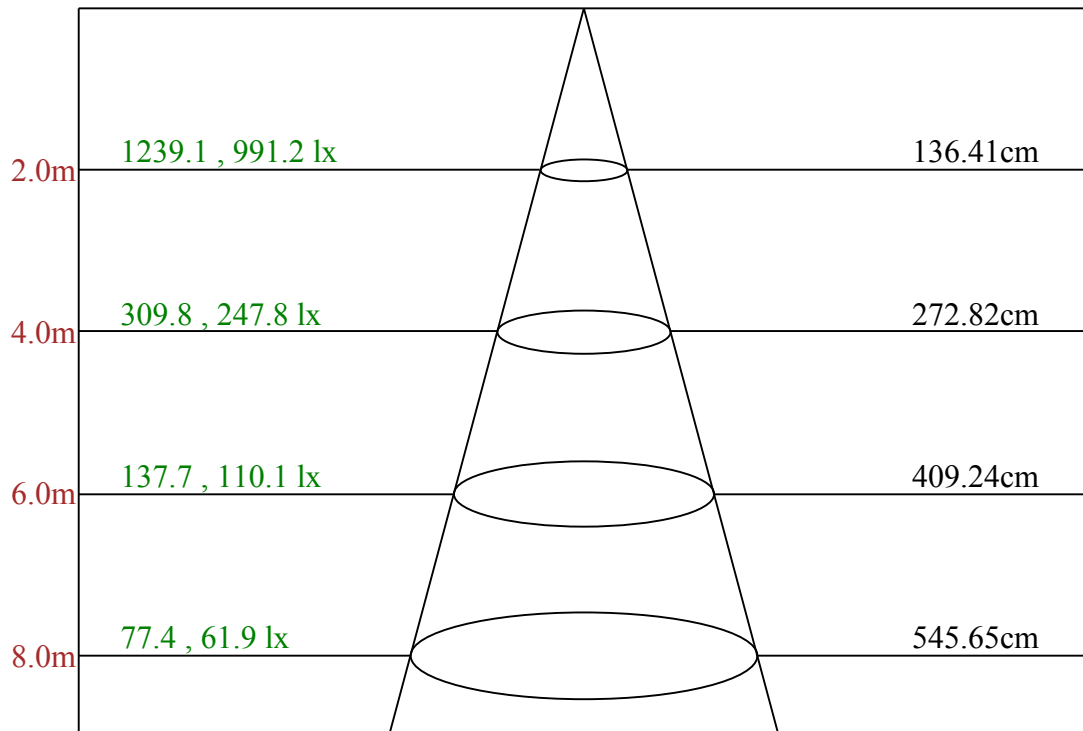
0-10	428.86
10-20	879.67
20-30	764.28
30-40	612.81
40-50	155.86
50-60	13.21
60-70	6.62
70-80	2.81
80-90	1.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



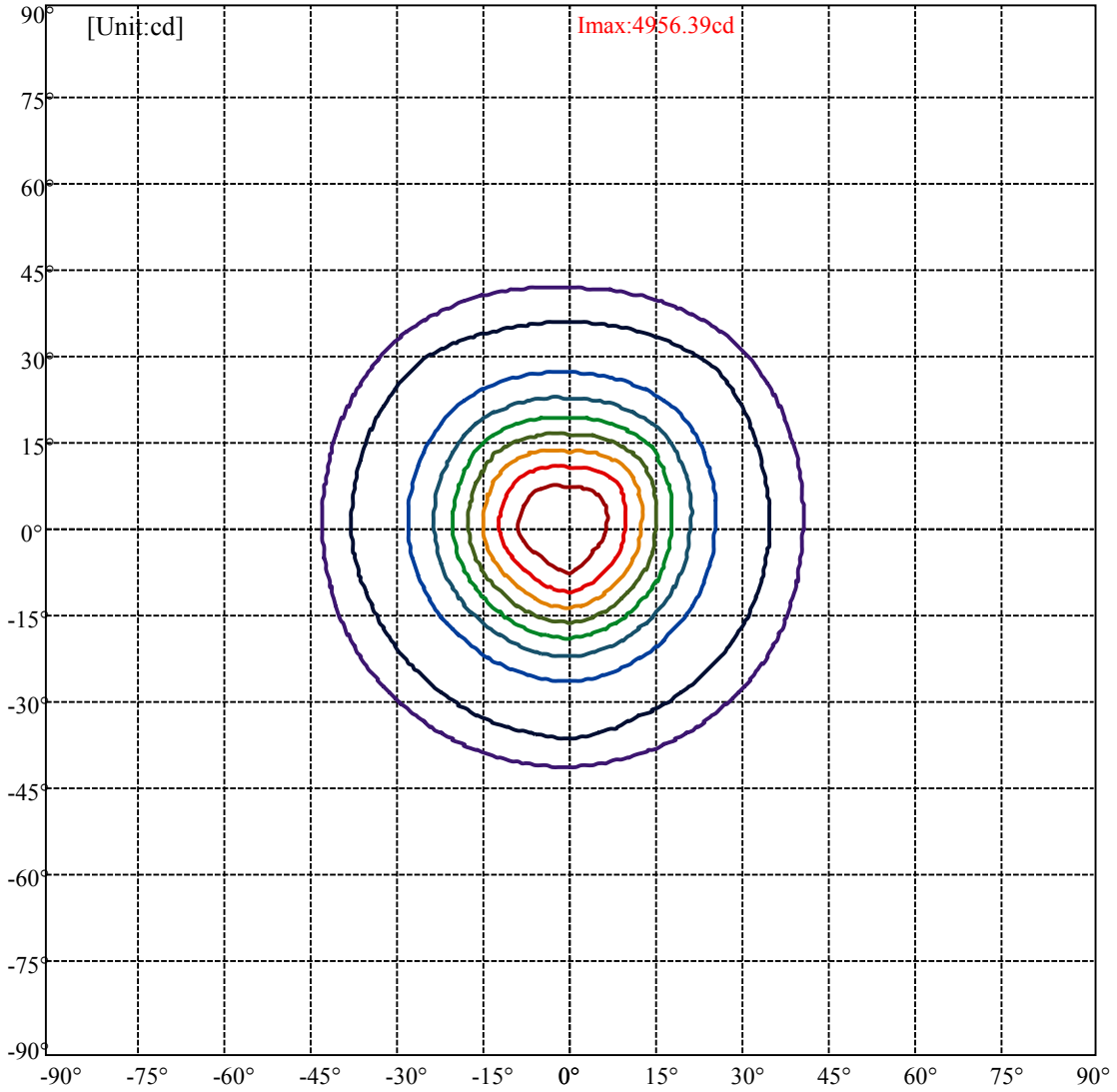
C180(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:41.5 Right:41.0
 :C90/270Left:40.9 Right:41.4

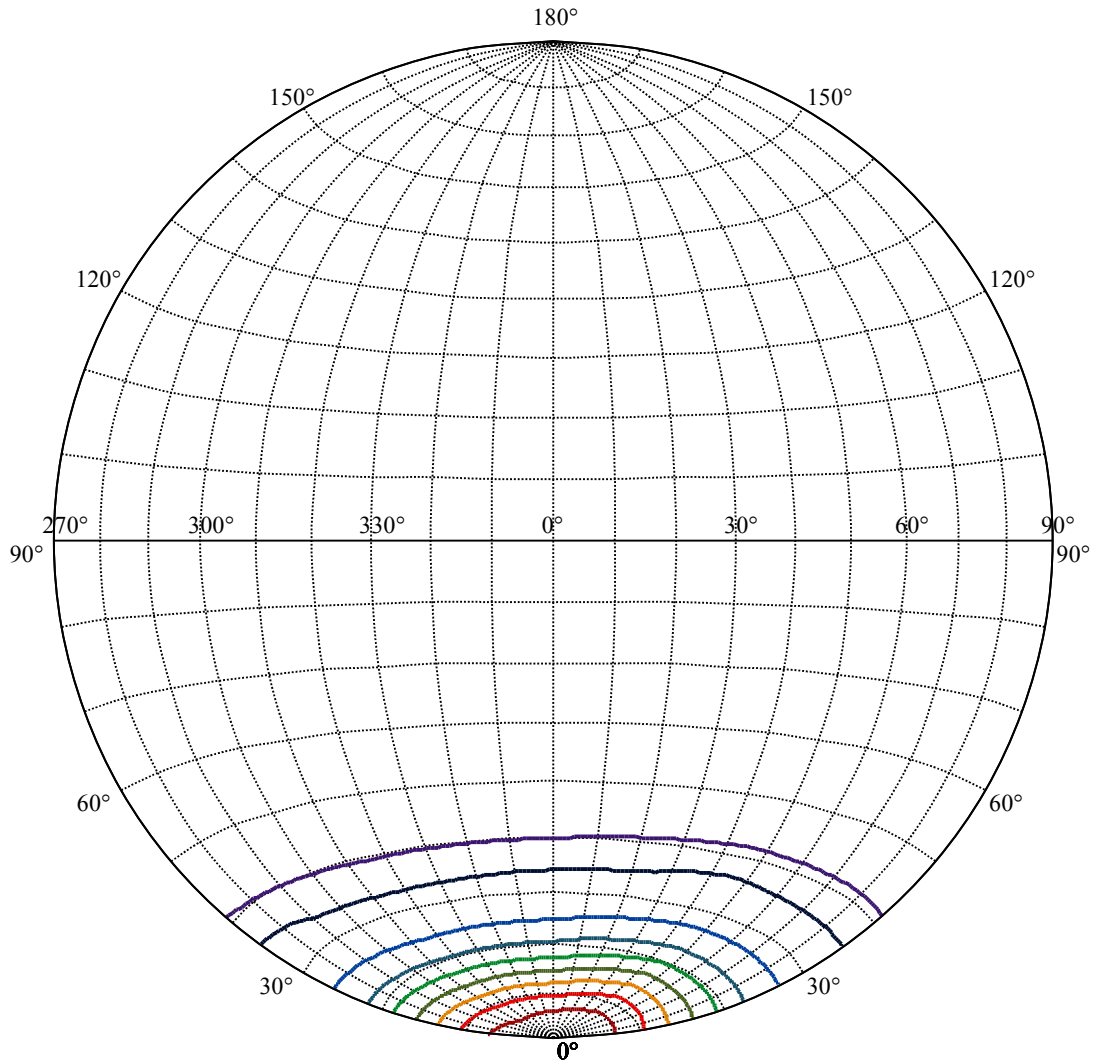
Beam Angle(50%Imax):C0/180Left:19.1 Right:18.3
 :C90/270Left:18.8 Right:19.2



Max , Ave Beam angle of C180plane37.64



(10%Imax) 495.639	—
(20%Imax) 991.277	—
(30%Imax) 1486.92	—
(40%Imax) 1982.55	—
(50%Imax) 2478.19	—
(60%Imax) 2973.83	—
(70%Imax) 3469.47	—
(80%Imax) 3965.11	—
(90%Imax) 4460.75	—



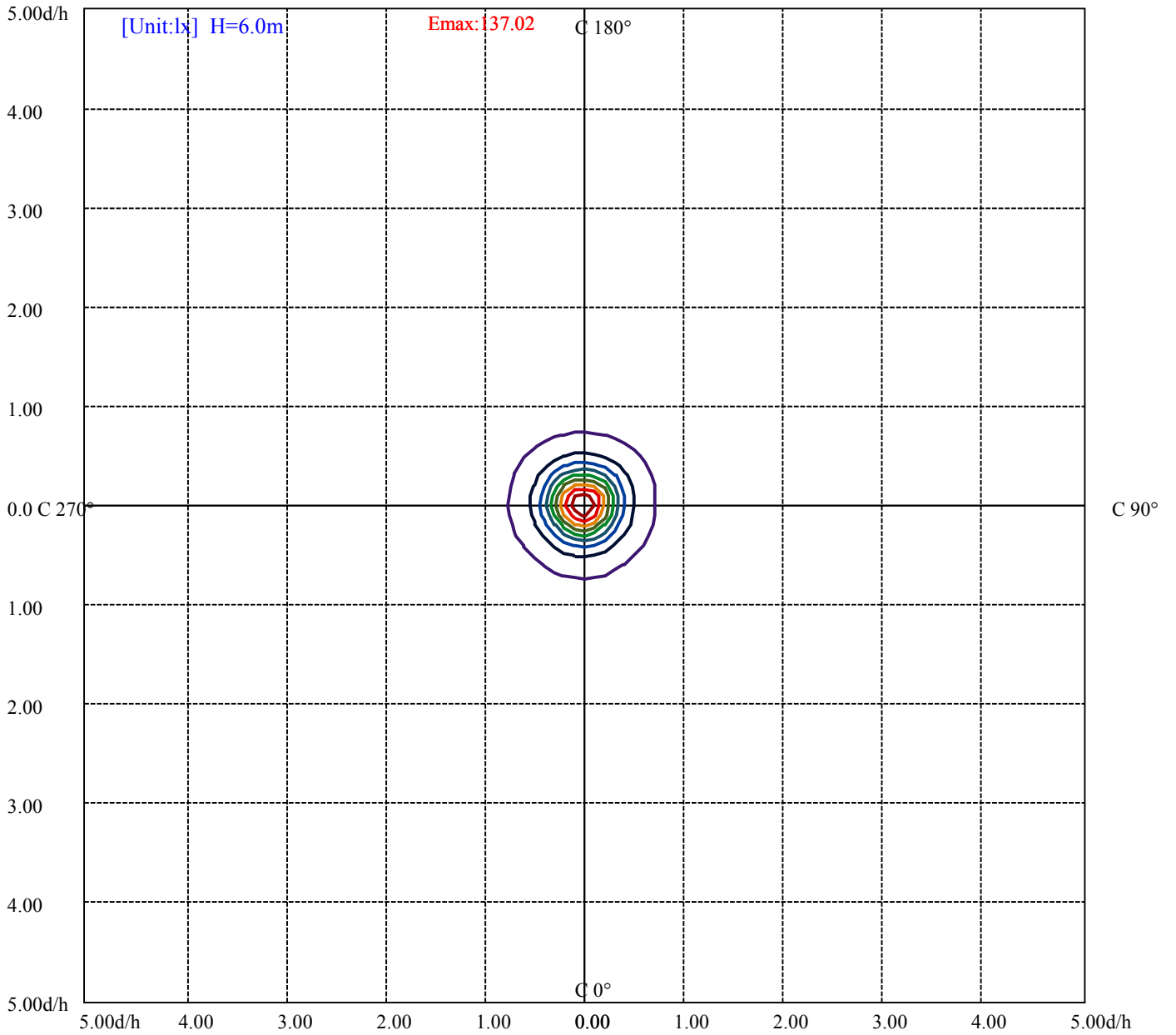
House

[Unit:cd]

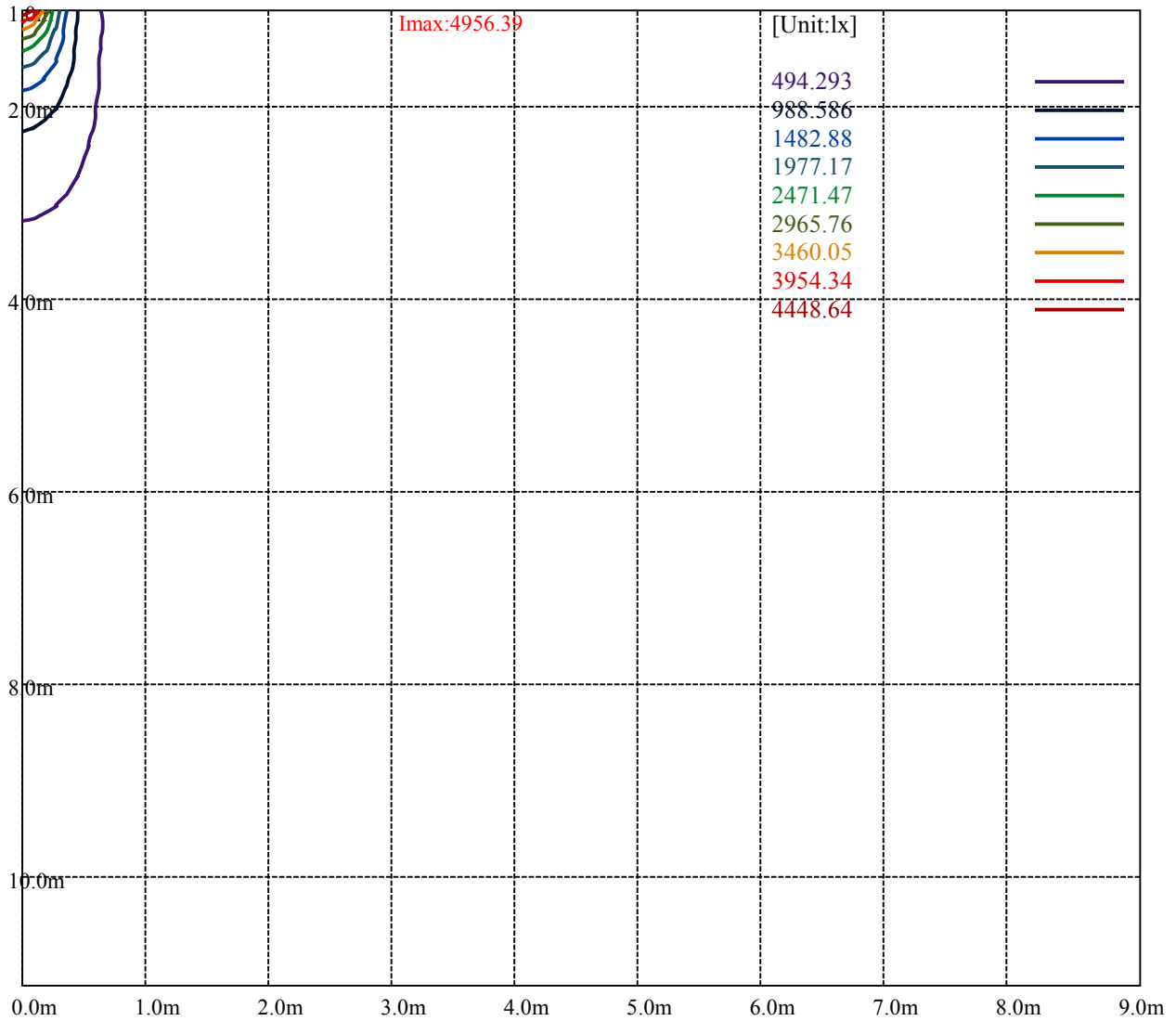
Road

Imax:4956.39

(10%Imax) 495.639	—
(20%Imax) 991.277	—
(30%Imax) 1486.92	—
(40%Imax) 1982.55	—
(50%Imax) 2478.19	—
(60%Imax) 2973.83	—
(70%Imax) 3469.47	—
(80%Imax) 3965.11	—
(90%Imax) 4460.75	—



- (10%Emax) 13.702
- (20%Emax) 27.404
- (30%Emax) 41.10611
- (40%Emax) 54.80806
- (50%Emax) 68.51
- (60%Emax) 82.21194
- (70%Emax) 95.91389
- (80%Emax) 109.6161
- (90%Emax) 123.3181



Luminance Table

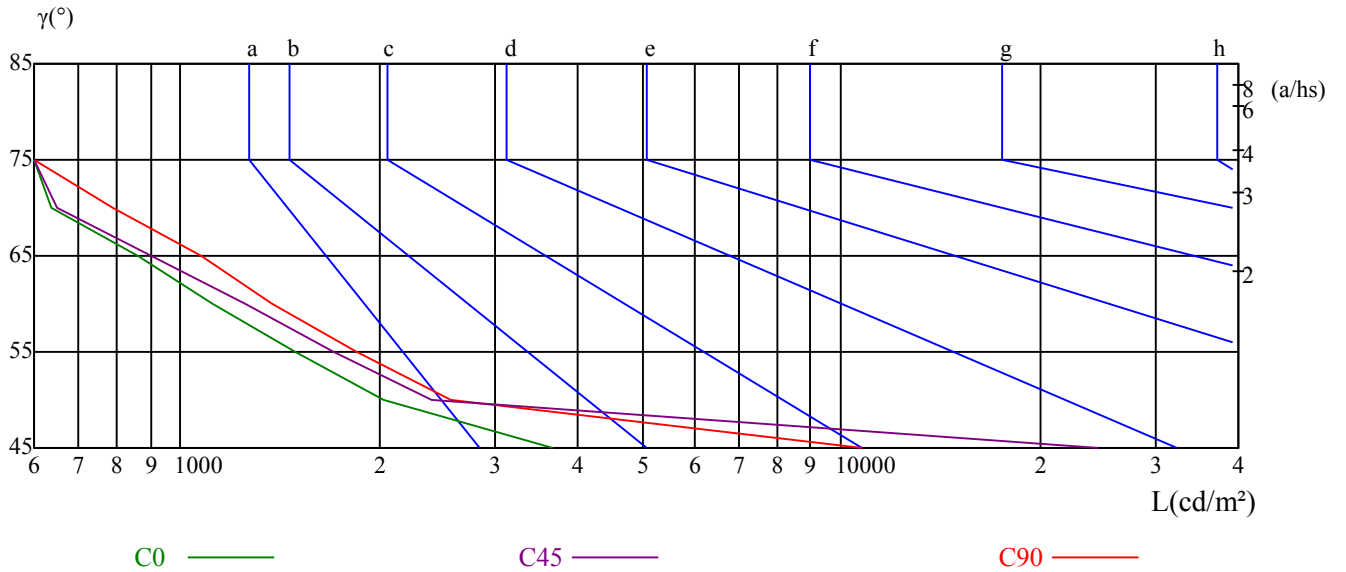
γ	45	50	55	60	65	70	75	80	85
C0	3655	2028	1494	1120	863	638	466	373	471
C45	24529	2394	1706	1257	903	651	446	336	343
C90	10765	2562	1852	1380	1075	792	570	419	441

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
1449	1409	1374	959	911	854	1449	1376	1376

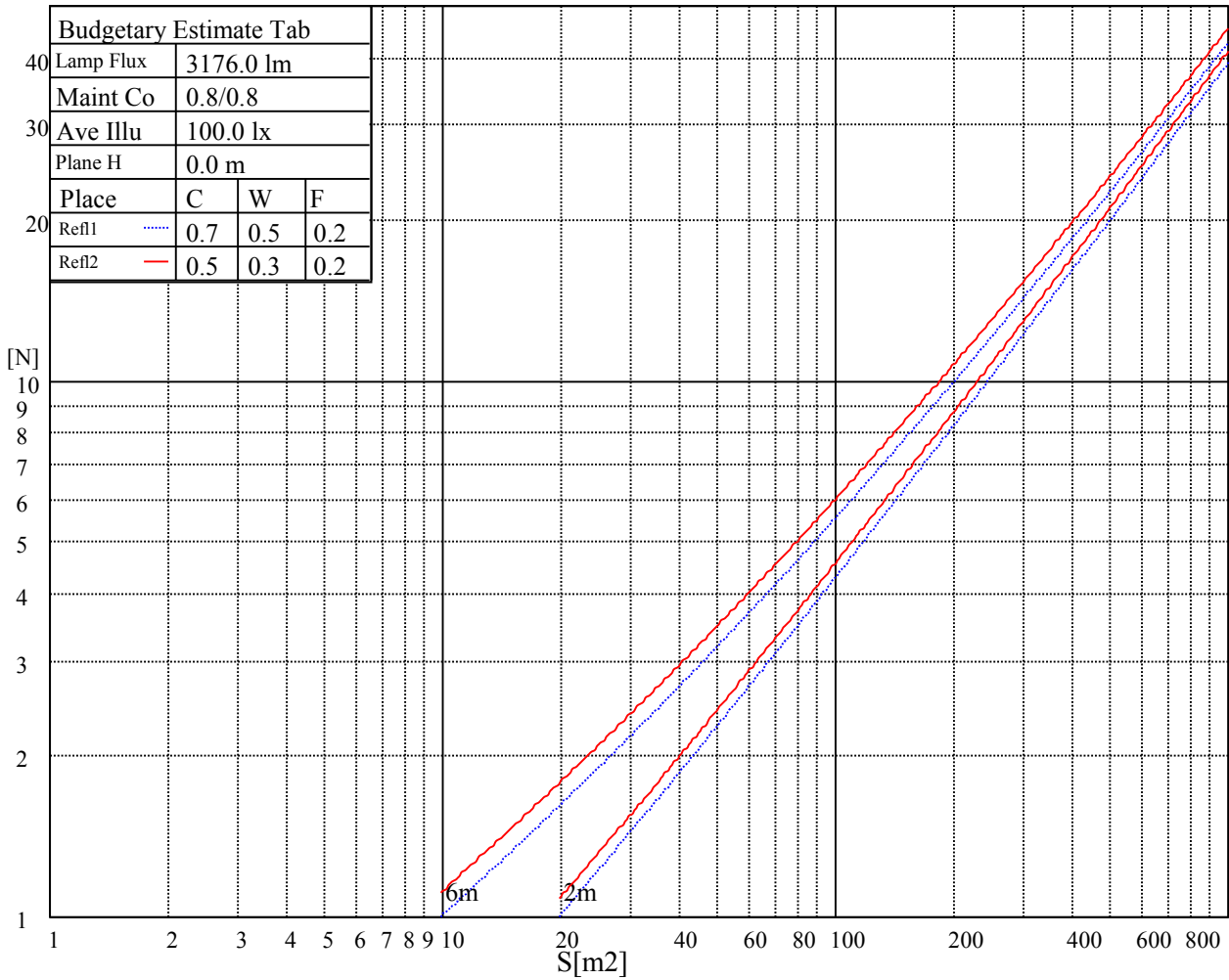
Glare Table

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

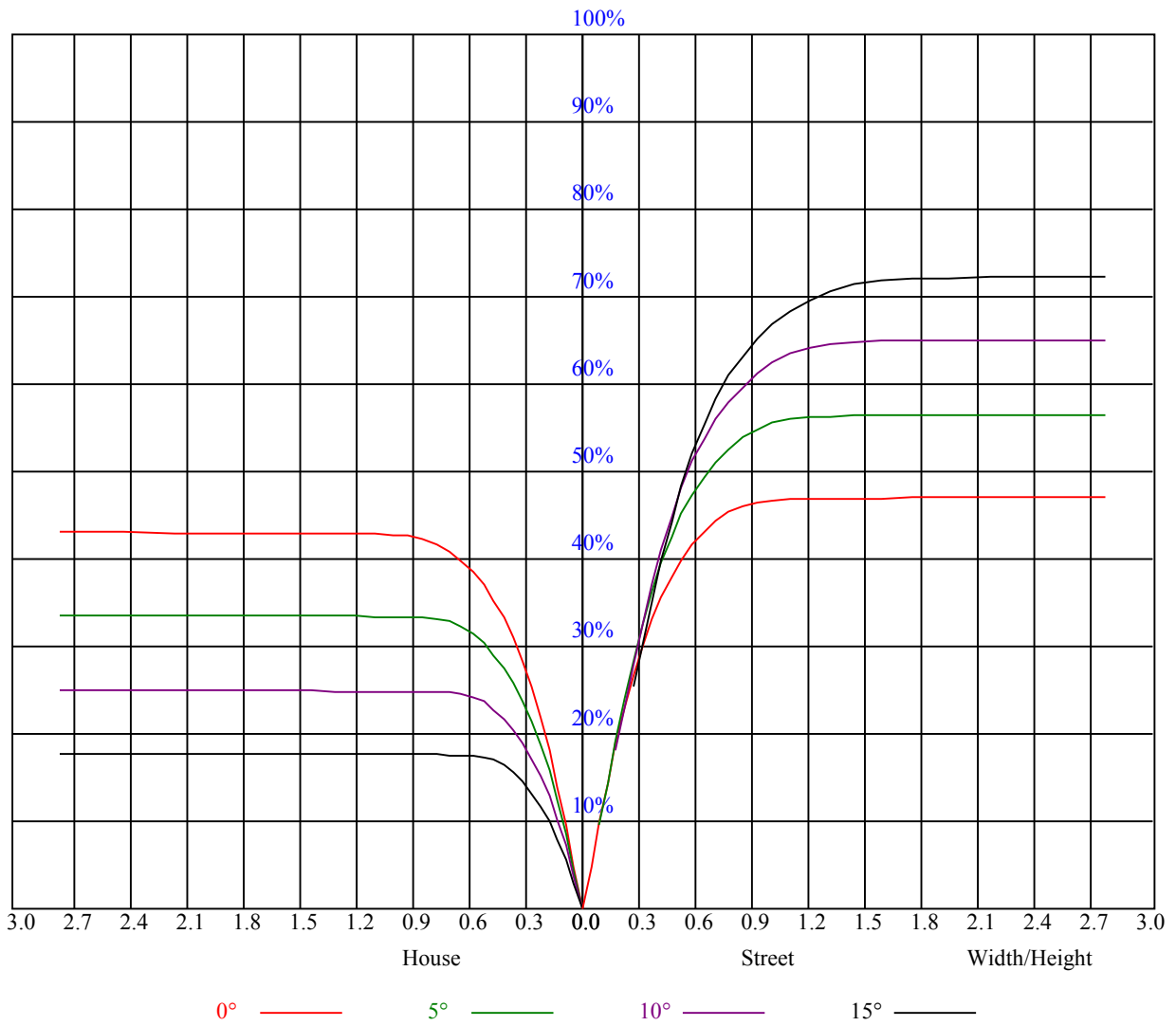
Luminance Limiting Curve



Illuminatin assessment according 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	13.8	14.6	14.0	14.8	15.0	13.2	14.1	13.5	14.3	14.5
	3H	13.6	14.3	13.9	14.6	14.8	13.1	13.8	13.4	14.0	14.3
	4H	13.4	14.0	13.8	14.3	14.7	12.9	13.5	13.2	13.8	14.1
	6H	13.4	14.0	13.8	14.3	14.7	12.9	13.5	13.2	13.8	14.1
	8H	13.4	14.0	13.8	14.3	14.7	12.9	13.5	13.2	13.8	14.1
	12H	13.2	13.7	13.7	14.1	14.5	12.7	13.2	13.1	13.5	13.9
4H	2H	13.4	14.0	13.8	14.3	14.6	12.9	13.5	13.2	13.8	14.1
	3H	13.2	13.7	13.7	14.1	14.5	12.7	13.2	13.1	13.5	13.9
	4H	13.2	13.7	13.7	14.1	14.5	12.7	13.2	13.1	13.5	13.9
	6H	13.2	13.7	13.7	14.1	14.5	12.7	13.2	13.1	13.5	13.9
	8H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
	12H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
8H	4H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
	6H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
	8H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
	12H	13.0	13.3	13.5	13.8	14.3	12.5	12.8	13.0	13.2	13.7
12H	4H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
	6H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
	8H	13.0	13.3	13.5	13.8	14.3	12.5	12.7	13.0	13.2	13.7
Variation with the observer position at spacings:											
S = 1.0H	3.9/-15.8					4.4/-16.1					
S = 1.5H	6.6/-16.5					6.8/-16.9					
S = 2.0H	8.6/-17.0					8.8/-17.3					
Standard tables:	BK0					BK0					
Uncorrected UGR	0.4					-0.2					



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	1.07	1.07	1.07	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.84	0.87	0.84	0.83	0.84	0.82	0.81	0.79
3	0.88	0.83	0.80	0.86	0.83	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.74
4	0.82	0.78	0.74	0.81	0.77	0.73	0.79	0.76	0.73	0.78	0.74	0.72	0.76	0.73	0.71	0.70
5	0.77	0.72	0.69	0.77	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.65
6	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.63	0.61
7	0.69	0.64	0.60	0.68	0.64	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
8	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55
9	0.62	0.57	0.54	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52
10	0.59	0.54	0.51	0.59	0.54	0.51	0.58	0.53	0.50	0.57	0.53	0.50	0.57	0.53	0.50	0.49



Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	4942.93	4911.38	4861.26	4793.98	4709.06	4606.51	4487.25	4352.68	4202.80
45.0	4932.72	4931.79	4912.30	4875.18	4819.50	4747.11	4657.09	4551.29	4431.57
90.0	4919.73	4908.59	4878.89	4832.49	4768.92	4689.57	4594.44	4481.68	4354.07
135.0	4888.17	4908.13	4910.45	4894.21	4860.33	4809.75	4740.61	4655.23	4595.83
180.0	4942.93	4956.39	4954.07	4935.97	4889.57	4844.56	4773.56	4684.00	4576.81
225.0	4932.72	4915.55	4879.82	4825.99	4753.14	4663.12	4557.32	4436.21	4300.24
270.0	4919.73	4912.30	4885.85	4840.84	4778.66	4716.48	4624.14	4514.63	4389.34
315.0	4888.17	4849.66	4793.51	4719.27	4626.92	4517.88	4394.91	4258.95	4109.06
360.0	4942.93	4911.38	4861.26	4793.98	4709.06	4606.51	4487.25	4352.68	4202.80
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4040.85	3867.77	3685.40	3494.22	3299.79	3103.97	2910.00	2718.82	2533.21
45.0	4298.39	4152.68	4058.48	3893.75	3720.67	3540.16	3355.01	3165.68	2976.82
90.0	4213.01	4057.55	3889.57	3710.92	3526.24	3339.70	3151.76	3039.93	2783.32
135.0	4437.60	4307.67	4222.75	4007.44	3908.60	3737.84	3557.79	3370.32	3183.32
180.0	4452.45	4313.24	4161.03	3994.91	3816.72	3631.11	3439.93	3245.96	3051.07
225.0	4212.54	4053.84	3813.94	3706.28	3520.20	3328.56	3134.13	2941.55	2753.62
270.0	4247.81	4091.43	3922.52	3742.01	3552.22	3357.33	3163.36	2969.86	2781.00
315.0	4013.47	3844.10	3592.59	3480.30	3290.97	3097.93	2904.90	2716.96	2534.13
360.0	4040.85	3867.77	3685.40	3494.22	3299.79	3103.97	2910.00	2718.82	2533.21
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2357.34	2191.21	2034.37	1946.20	1808.85	1636.69	1572.19	1475.21	1392.61
45.0	2791.21	2610.70	2434.83	2267.78	2109.08	1963.37	1826.48	1702.12	1589.83
90.0	2677.06	2505.36	2279.84	2187.50	2040.87	1904.90	1778.69	1664.53	1562.91
135.0	2995.85	2811.63	2630.65	2454.78	2289.59	2132.28	1986.57	1849.22	1723.93
180.0	2857.10	2669.63	2489.59	2318.82	2220.45	2004.21	1919.75	1786.58	1667.32
225.0	2570.79	2394.92	2227.41	2071.03	1925.79	1791.68	1669.64	1560.59	1467.32
270.0	2596.78	2421.37	2256.18	2100.26	1954.56	1871.96	1743.88	1587.04	1491.45
315.0	2360.12	2193.53	2036.23	1890.98	1758.27	1638.08	1530.89	1438.55	1358.27
360.0	2357.34	2191.21	2034.37	1946.20	1808.85	1636.69	1572.19	1475.21	1392.61
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1320.69	1259.43	1205.14	1158.74	1117.90	1082.17	1050.15	1020.92	900.27
45.0	1492.84	1408.85	1334.61	1282.17	1213.49	1164.31	1129.97	1091.45	1056.65
90.0	1471.96	1394.00	1324.40	1263.61	1209.32	1161.06	1119.30	1081.71	1048.76
135.0	1611.63	1513.26	1427.41	1351.78	1284.49	1226.49	1185.65	1131.36	1099.34
180.0	1560.59	1467.78	1388.90	1320.22	1259.43	1207.00	1159.67	1118.83	1082.17
225.0	1385.65	1313.73	1262.68	1196.32	1148.99	1116.05	1078.92	1045.05	995.40
270.0	1439.48	1361.52	1292.84	1233.45	1181.48	1135.54	1095.17	1059.44	1027.88
315.0	1287.74	1226.95	1183.80	1128.11	1088.67	1060.36	1027.88	906.54	906.54
360.0	1320.69	1259.43	1205.14	1158.74	1117.90	1082.17	1050.15	1020.92	900.27
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	900.27	796.33	689.46	602.55	495.12	366.54	279.81	176.38	85.66
45.0	1019.06	970.80	901.66	812.10	710.48	589.37	464.08	349.93	242.74
90.0	913.12	868.81	843.80	734.61	604.50	517.68	447.56	334.80	196.29
135.0	1063.61	1026.95	980.09	912.80	822.78	722.55	606.54	481.25	366.17
180.0	1050.15	1020.46	966.16	869.18	763.85	655.26	545.75	438.09	375.45
225.0	912.89	883.57	797.91	687.98	565.75	440.32	322.97	226.40	137.45
270.0	988.90	920.69	809.78	673.36	558.74	483.11	397.26	271.97	271.97
315.0	863.24	774.80	662.73	540.46	416.01	302.87	208.82	121.90	81.16
360.0	900.27	796.33	689.46	602.55	495.12	366.54	279.81	176.38	85.66

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	33.92	24.78	22.64	20.79	19.21	17.63	16.24	15.03	14.01
45.0	242.74	91.60	62.88	34.29	23.62	22.41	20.60	19.03	17.49
90.0	99.91	46.54	29.14	26.59	24.32	22.27	20.46	18.84	17.31
135.0	258.98	258.98	101.39	70.81	32.58	27.19	24.64	22.60	20.84
180.0	269.65	269.65	67.80	30.21	27.24	24.92	22.97	21.11	19.35
225.0	73.83	41.72	31.37	25.01	22.09	21.02	19.40	17.77	16.47
270.0	135.13	35.64	26.40	23.99	22.00	20.19	18.51	17.03	15.73
315.0	34.76	23.53	22.27	19.77	18.70	17.26	15.92	14.66	13.55
360.0	33.92	24.78	22.64	20.79	19.21	17.63	16.24	15.03	14.01
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.99	12.02	11.09	10.35	9.84	9.14	8.21	7.80	7.24
45.0	16.10	14.94	13.87	12.81	11.79	10.95	10.16	9.33	8.58
90.0	16.01	14.90	14.15	12.71	12.16	11.23	10.12	9.70	8.91
135.0	19.21	17.63	16.29	15.13	14.01	12.95	11.93	11.04	10.21
180.0	17.87	16.57	15.41	14.15	13.13	12.53	11.28	10.44	9.98
225.0	15.22	14.06	12.99	11.97	11.09	10.21	9.37	8.58	7.93
270.0	14.57	13.46	12.44	11.46	10.63	9.84	9.10	8.68	7.80
315.0	12.58	11.60	10.67	9.93	9.19	8.40	7.70	7.15	6.54
360.0	12.99	12.02	11.09	10.35	9.84	9.14	8.21	7.80	7.24
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.73	6.22	5.66	5.24	4.87	4.41	3.99	3.67	3.39
45.0	7.93	7.33	6.64	6.08	5.66	5.10	4.64	4.27	3.81
90.0	8.21	7.61	7.05	6.50	5.94	5.48	5.01	4.55	4.18
135.0	9.37	8.58	7.93	7.29	6.77	6.08	5.57	5.15	4.55
180.0	8.91	8.45	7.84	7.29	6.64	6.08	5.61	5.15	4.73
225.0	7.29	6.68	6.08	5.61	5.01	4.55	4.22	3.76	3.43
270.0	7.15	6.87	6.08	5.61	5.29	4.87	4.41	3.99	3.67
315.0	5.99	5.43	4.97	4.50	4.13	3.71	3.39	3.16	2.69
360.0	6.73	6.22	5.66	5.24	4.87	4.41	3.99	3.67	3.39
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.02	2.74	2.51	2.27	2.00	1.81	1.67	1.53	1.48
45.0	3.57	3.20	2.83	2.55	2.37	2.13	1.90	1.76	1.62
90.0	3.85	3.43	3.11	2.78	2.51	2.32	2.09	1.81	1.67
135.0	4.22	3.76	3.48	3.11	2.78	2.46	2.27	2.04	1.81
180.0	4.27	3.90	3.53	3.20	2.88	2.55	2.32	2.04	1.76
225.0	3.11	2.74	2.46	2.23	2.04	1.81	1.62	1.53	1.48
270.0	3.34	3.02	2.69	2.41	2.18	1.90	1.72	1.58	1.48
315.0	2.51	2.27	2.09	1.86	1.67	1.58	1.48	1.39	1.30
360.0	3.02	2.74	2.51	2.27	2.00	1.81	1.67	1.53	1.48
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.39	1.44	1.35	1.39	1.44	1.39	1.39	1.39	1.35
45.0	1.53	1.44	1.39	1.39	1.35	1.35	1.35	1.44	1.39
90.0	1.44	1.39	1.39	1.35	1.35	1.30	1.44	1.35	1.35
135.0	1.67	1.62	1.48	1.44	1.39	1.39	1.35	1.35	1.39
180.0	1.58	1.48	1.35	1.35	1.35	1.30	1.30	1.30	1.35
225.0	1.39	1.30	1.35	1.25	1.25	1.30	1.25	1.35	1.30
270.0	1.35	1.30	1.25	1.35	1.30	1.30	1.30	1.25	1.35
315.0	1.30	1.30	1.30	1.25	1.30	1.30	1.35	1.30	1.35
360.0	1.39	1.44	1.35	1.39	1.44	1.39	1.39	1.39	1.35

Intensity data(cd)

C/γ(°)	90.0
0.0	1.44
45.0	1.39
90.0	1.35
135.0	1.35
180.0	1.30
225.0	1.30
270.0	1.25
315.0	1.30
360.0	1.44