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NATA

Client:

LumCAT: 2-2641-L

Luminaire: 92.70.411.00

Report No: 2023718-B005

Ballast type: AC

Test No: 2023718-C005

Voltage(V): 34.750

LampCAT: SLM C 1208 L15 2024 G7 HE+

Current(A): 0.500

Lamp flux(lm): 3273.2

Power (W): 20.155

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3016.94, Efficiency(%): 92.17% , Luminous Efficacy(lm/W): 149.69

Central intensity(cd): 6580.104, Maximum intensity(cd): 6580.104

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.4

[C90/270]Total=37.4

Field angle(10%Imax): [C0/180]Total=65.4

[C90/270]Total=65.4

Maximum s/h(1/2): C0_180=0.61 C90_270=0.61

Maximum s/h(1/4): C0_180=0.62 C90_270=0.62

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.17%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.993%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6580.104	0.000	0	0.00%	0.00%
1.0	6568.687	6.291	6.291	0.19%	0.21%
2.0	6523.851	18.792	25.083	0.57%	0.83%
3.0	6460.886	31.055	56.138	0.95%	1.86%
4.0	6371.490	42.954	99.092	1.31%	3.28%
5.0	6260.852	54.344	153.436	1.66%	5.09%
6.0	6127.173	65.102	218.538	1.99%	7.24%
7.0	5971.975	75.099	293.638	2.29%	9.73%
8.0	5796.089	84.222	377.859	2.57%	12.52%
9.0	5605.189	92.401	470.261	2.82%	15.59%
10.0	5399.688	99.590	569.851	3.04%	18.89%
11.0	5178.758	105.700	675.551	3.23%	22.39%
12.0	4949.248	110.714	786.265	3.38%	26.06%
13.0	4716.487	114.708	900.973	3.50%	29.86%
14.0	4481.026	117.727	1018.7	3.60%	33.77%
15.0	4232.904	119.629	1138.329	3.65%	37.73%
16.0	3970.251	120.199	1258.528	3.67%	41.72%
17.0	3731.192	119.932	1378.46	3.66%	45.69%
18.0	3470.685	118.743	1497.203	3.63%	49.63%
19.0	3203.188	116.112	1613.315	3.55%	53.48%
20.0	2948.008	112.584	1725.899	3.44%	57.21%
21.0	2698.709	108.428	1834.327	3.31%	60.80%
22.0	2473.143	103.931	1938.258	3.18%	64.25%
23.0	2245.640	99.013	2037.271	3.02%	67.53%
24.0	2058.960	94.114	2131.385	2.88%	70.65%
25.0	1867.575	89.281	2220.666	2.73%	73.61%
26.0	1695.841	84.115	2304.781	2.57%	76.39%
27.0	1467.888	77.401	2382.182	2.36%	78.96%
28.0	1283.380	69.656	2451.838	2.13%	81.27%
29.0	1139.122	63.379	2515.218	1.94%	83.37%
30.0	1018.050	58.243	2573.461	1.78%	85.30%
31.0	875.895	52.706	2626.167	1.61%	87.05%
32.0	741.738	46.343	2672.51	1.42%	88.58%
33.0	621.337	40.157	2712.667	1.23%	89.91%
34.0	517.957	34.478	2747.145	1.05%	91.06%
35.0	414.875	28.970	2776.115	0.89%	92.02%
36.0	331.720	23.772	2799.887	0.73%	92.81%
37.0	268.237	19.567	2819.454	0.60%	93.45%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	217.055	16.198	2835.653	0.49%	93.99%
39.0	173.845	13.342	2848.995	0.41%	94.43%
40.0	122.712	10.343	2859.338	0.32%	94.78%
41.0	107.199	8.187	2867.525	0.25%	95.05%
42.0	97.007	7.419	2874.944	0.23%	95.29%
43.0	89.105	6.894	2881.838	0.21%	95.52%
44.0	82.193	6.465	2888.304	0.20%	95.74%
45.0	76.180	6.086	2894.39	0.19%	95.94%
46.0	70.804	5.748	2900.138	0.18%	96.13%
47.0	65.843	5.435	2905.573	0.17%	96.31%
48.0	61.429	5.145	2910.718	0.16%	96.48%
49.0	57.000	4.863	2915.582	0.15%	96.64%
50.0	53.575	4.610	2920.192	0.14%	96.79%
51.0	50.123	4.387	2924.579	0.13%	96.94%
52.0	47.037	4.169	2928.748	0.13%	97.08%
53.0	44.207	3.969	2932.717	0.12%	97.21%
54.0	41.778	3.790	2936.507	0.12%	97.33%
55.0	39.647	3.635	2940.142	0.11%	97.45%
56.0	37.578	3.490	2943.631	0.11%	97.57%
57.0	35.869	3.358	2946.99	0.10%	97.68%
58.0	34.215	3.241	2950.231	0.10%	97.79%
59.0	32.804	3.133	2953.364	0.10%	97.89%
60.0	31.406	3.034	2956.397	0.09%	97.99%
61.0	30.188	2.939	2959.337	0.09%	98.09%
62.0	29.026	2.853	2962.19	0.09%	98.19%
63.0	27.954	2.771	2964.961	0.08%	98.28%
64.0	26.971	2.695	2967.656	0.08%	98.37%
65.0	26.044	2.624	2970.28	0.08%	98.45%
66.0	25.110	2.552	2972.832	0.08%	98.54%
67.0	24.293	2.484	2975.316	0.08%	98.62%
68.0	23.449	2.418	2977.735	0.07%	98.70%
69.0	22.695	2.354	2980.089	0.07%	98.78%
70.0	21.892	2.290	2982.379	0.07%	98.85%
71.0	21.187	2.227	2984.605	0.07%	98.93%
72.0	20.495	2.167	2986.773	0.07%	99.00%
73.0	19.830	2.109	2988.881	0.06%	99.07%
74.0	19.159	2.050	2990.931	0.06%	99.14%
75.0	18.543	1.992	2992.923	0.06%	99.20%

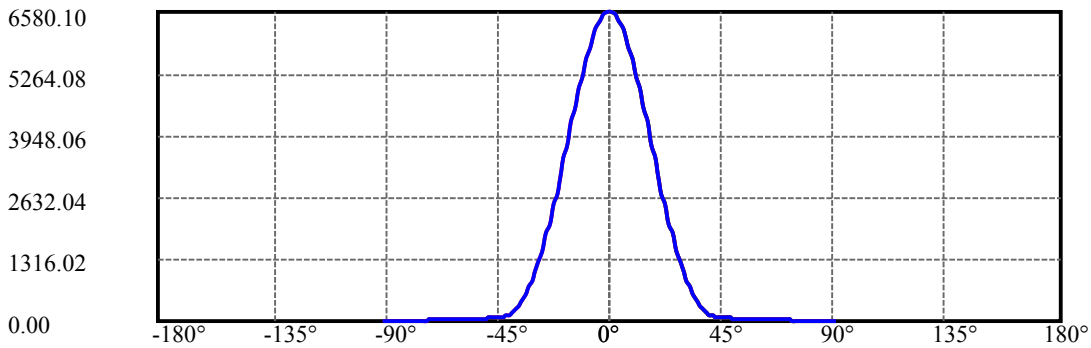
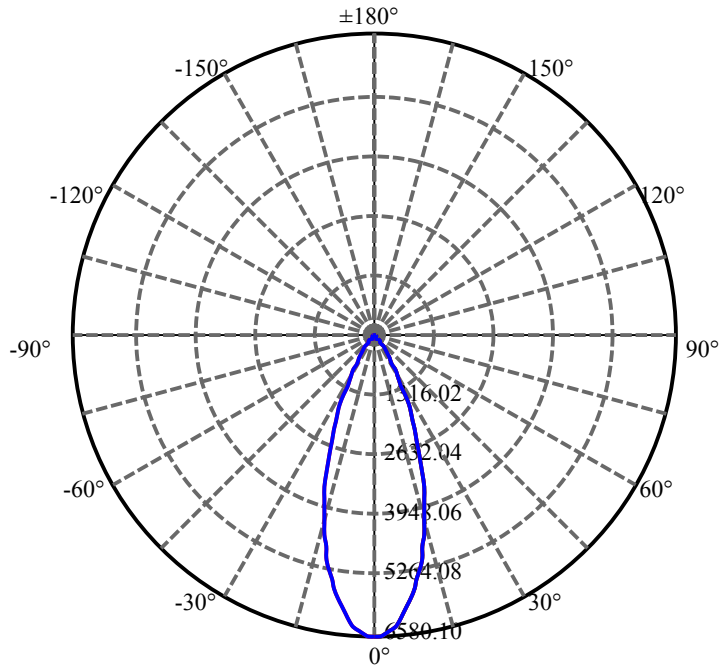
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.935	1.936	2994.86	0.06%	99.27%
77.0	17.319	1.880	2996.739	0.06%	99.33%
78.0	16.751	1.824	2998.563	0.06%	99.39%
79.0	16.205	1.771	3000.334	0.05%	99.45%
80.0	15.714	1.721	3002.055	0.05%	99.51%
81.0	15.174	1.670	3003.725	0.05%	99.56%
82.0	14.669	1.618	3005.343	0.05%	99.62%
83.0	14.198	1.569	3006.912	0.05%	99.67%
84.0	13.811	1.526	3008.438	0.05%	99.72%
85.0	13.458	1.488	3009.927	0.05%	99.77%
86.0	13.160	1.455	3011.382	0.04%	99.82%
87.0	12.877	1.425	3012.807	0.04%	99.86%
88.0	12.634	1.397	3014.204	0.04%	99.91%
89.0	12.448	1.375	3015.579	0.04%	99.95%
90.0	12.365	1.360	3016.939	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2573.46	78.62%	85.30%
0-40	2859.34	87.35%	94.78%
0-60	2956.40	90.32%	97.99%
0-90	3015.58	92.13%	99.95%
0-120	3015.58	92.13%	99.95%
0-180	3016.94	92.17%	100.00%
60-90	59.18	1.81%	1.96%
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%
0-27.45	2413.55	73.74%	80.00%

ZONAL LUMEN SUMMARY

0-10	569.85
10-20	1156.05
20-30	847.56
30-40	285.88
40-50	60.85
50-60	36.21
60-70	25.98
70-80	19.68
80-90	13.52
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



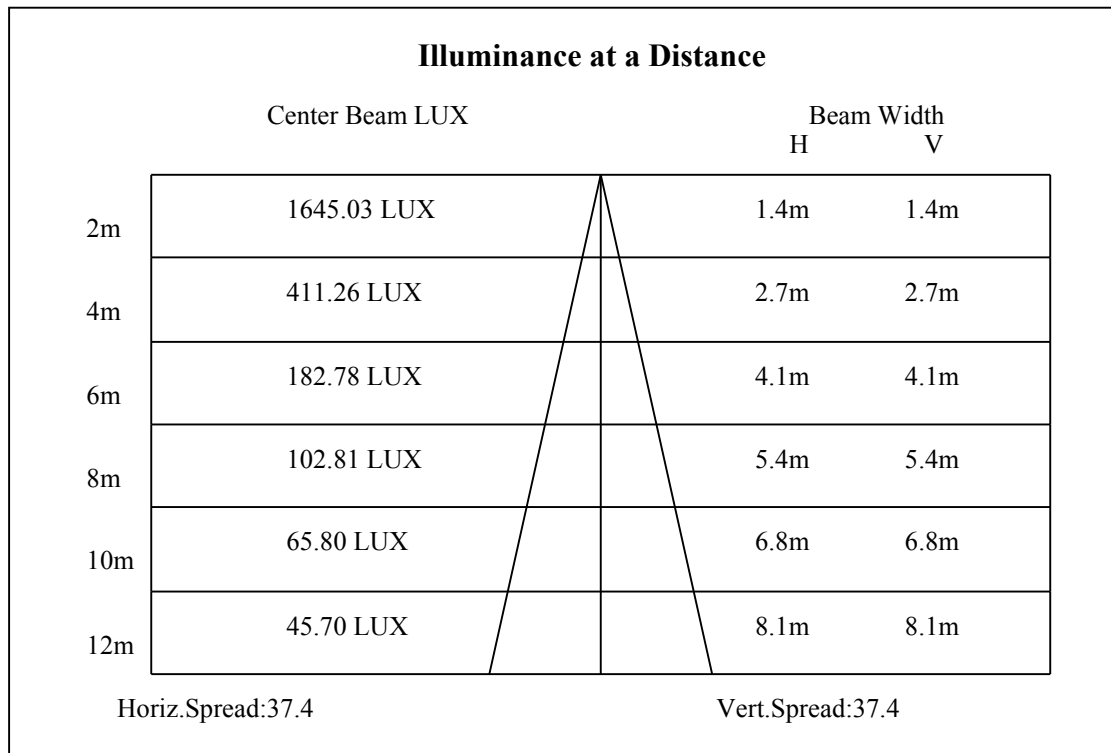
C0(Max): —————

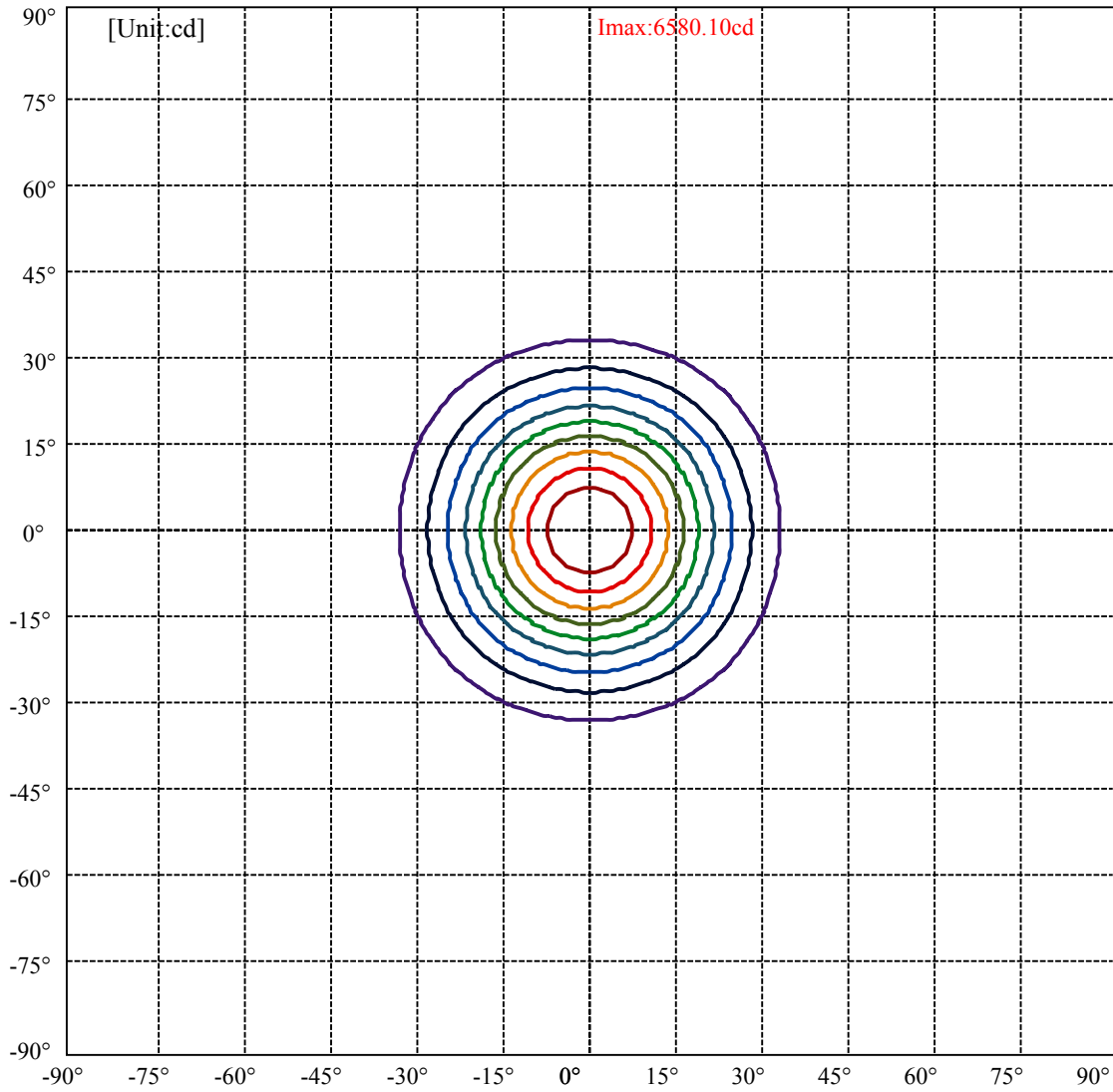
C0/C180: —————

C90/C270: —————

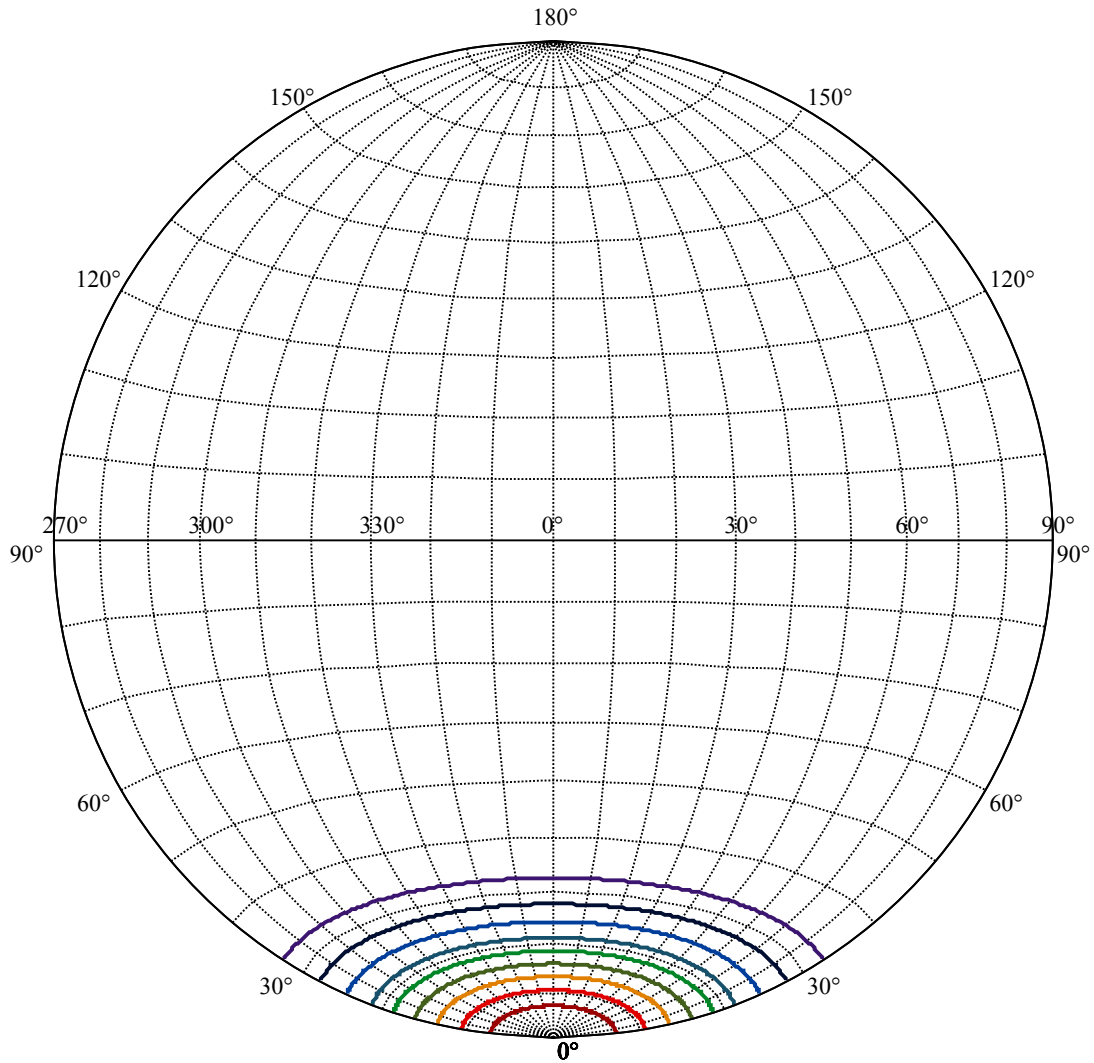
Field angle(10%Imax):C0/180Left:32.7 Right:32.7
:C90/270Left:32.7 Right:32.7

Beam Angle(50%Imax):C0/180Left:18.7 Right:18.7
:C90/270Left:18.7 Right:18.7





(10%Imax) 658.01	—
(20%Imax) 1316.02	—
(30%Imax) 1974.03	—
(40%Imax) 2632.04	—
(50%Imax) 3290.05	—
(60%Imax) 3948.06	—
(70%Imax) 4606.07	—
(80%Imax) 5264.08	—
(90%Imax) 5922.09	—



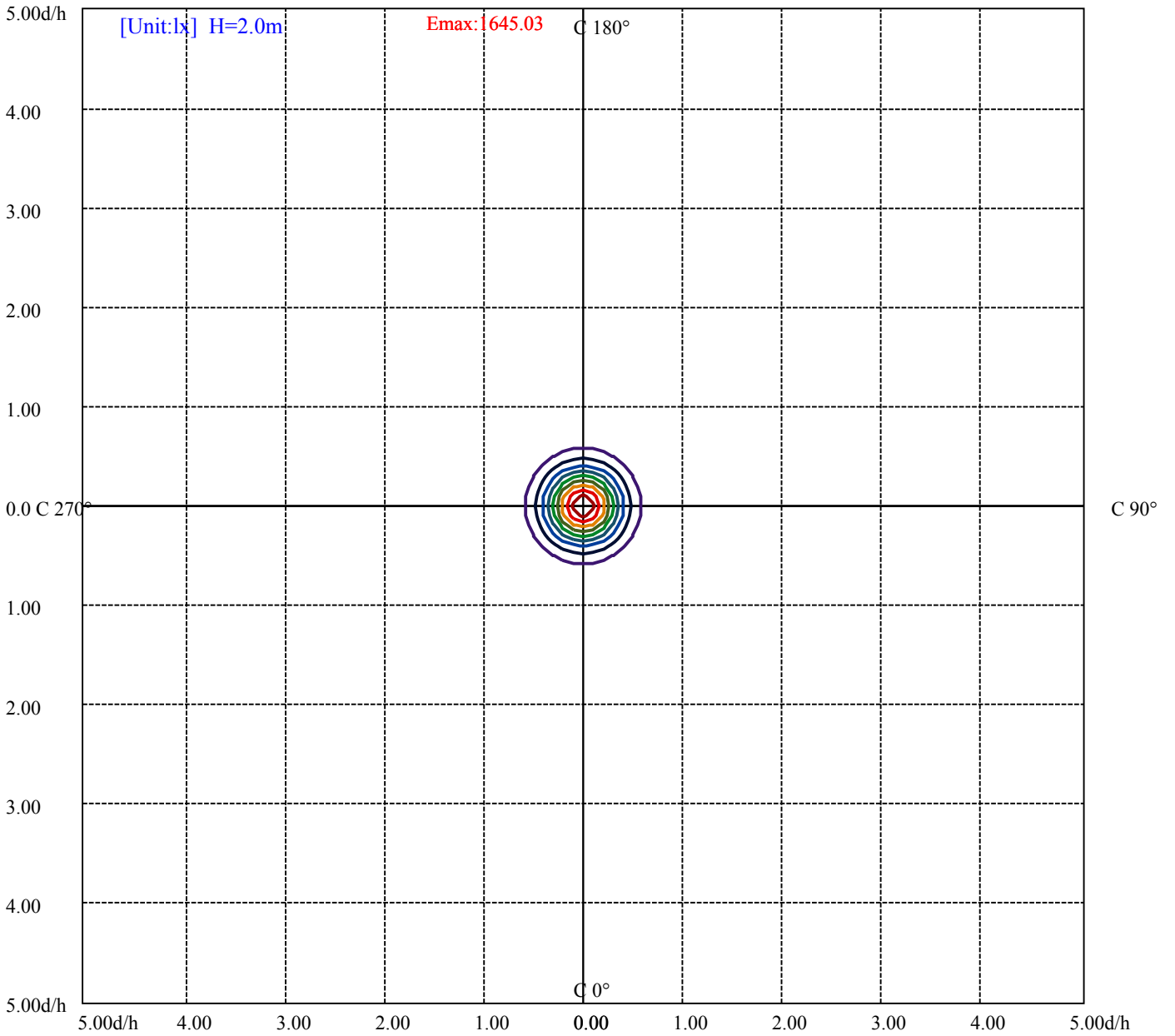
House

[Unit:cd]

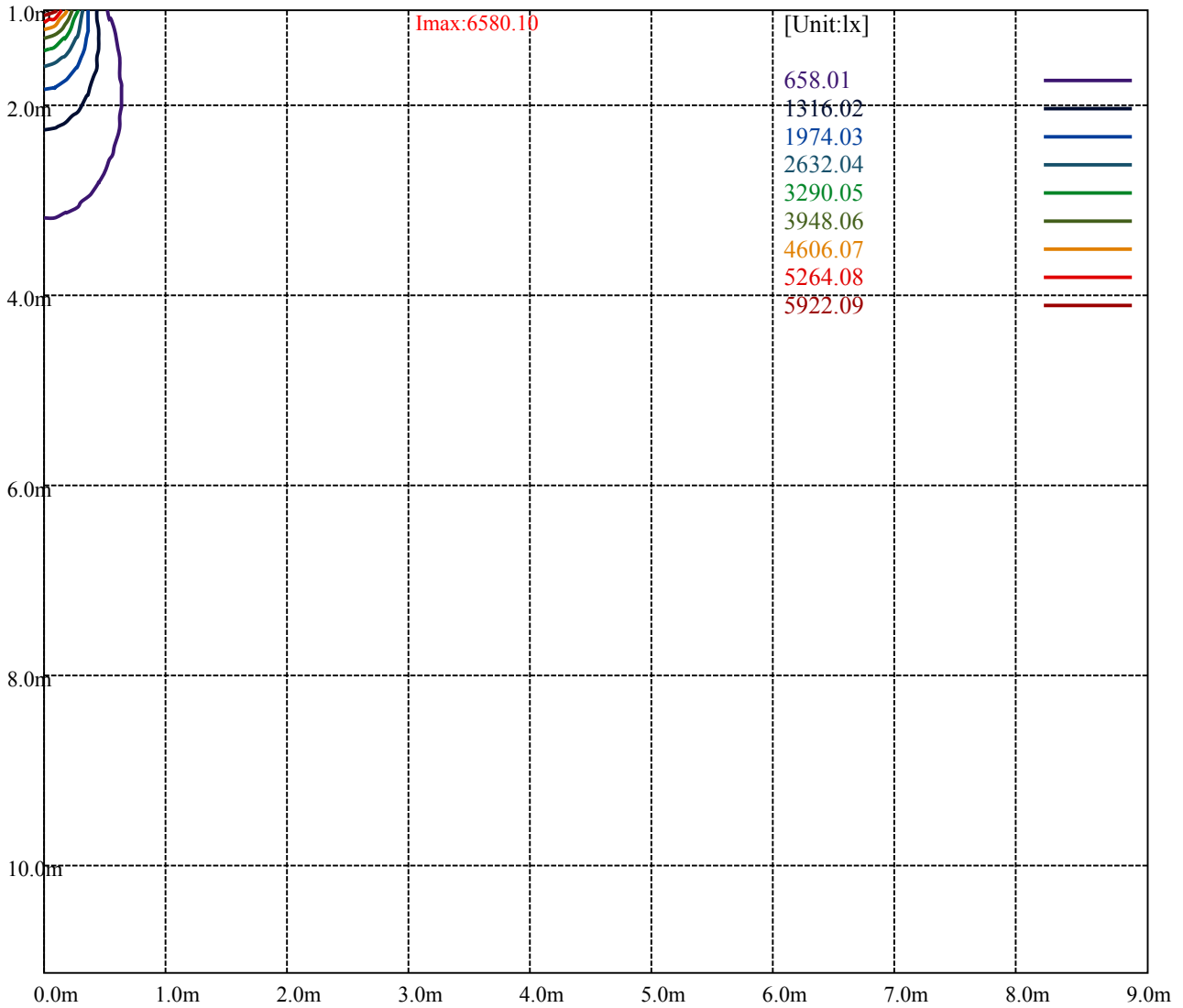
Road

Imax:6580.10

(10%Imax) 658.01	—
(20%Imax) 1316.02	—
(30%Imax) 1974.03	—
(40%Imax) 2632.04	—
(50%Imax) 3290.05	—
(60%Imax) 3948.06	—
(70%Imax) 4606.07	—
(80%Imax) 5264.08	—
(90%Imax) 5922.09	—



(10%Emax) 164.5025	—
(20%Emax) 329.005	—
(30%Emax) 493.5075	—
(40%Emax) 658.01	—
(50%Emax) 822.5125	—
(60%Emax) 987.015	—
(70%Emax) 1151.517	—
(80%Emax) 1316.02	—
(90%Emax) 1480.522	—



Luminance Table

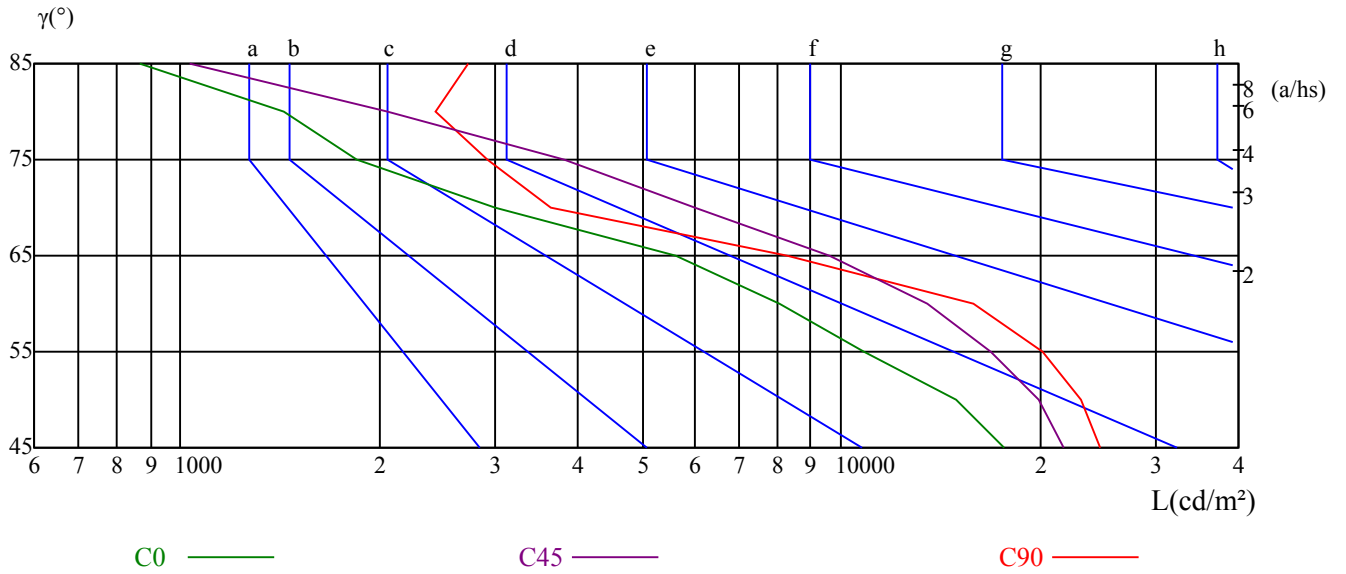
γ	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10642	10437	15758	4678	3676	7686	4962	3969	5458

Glare Table

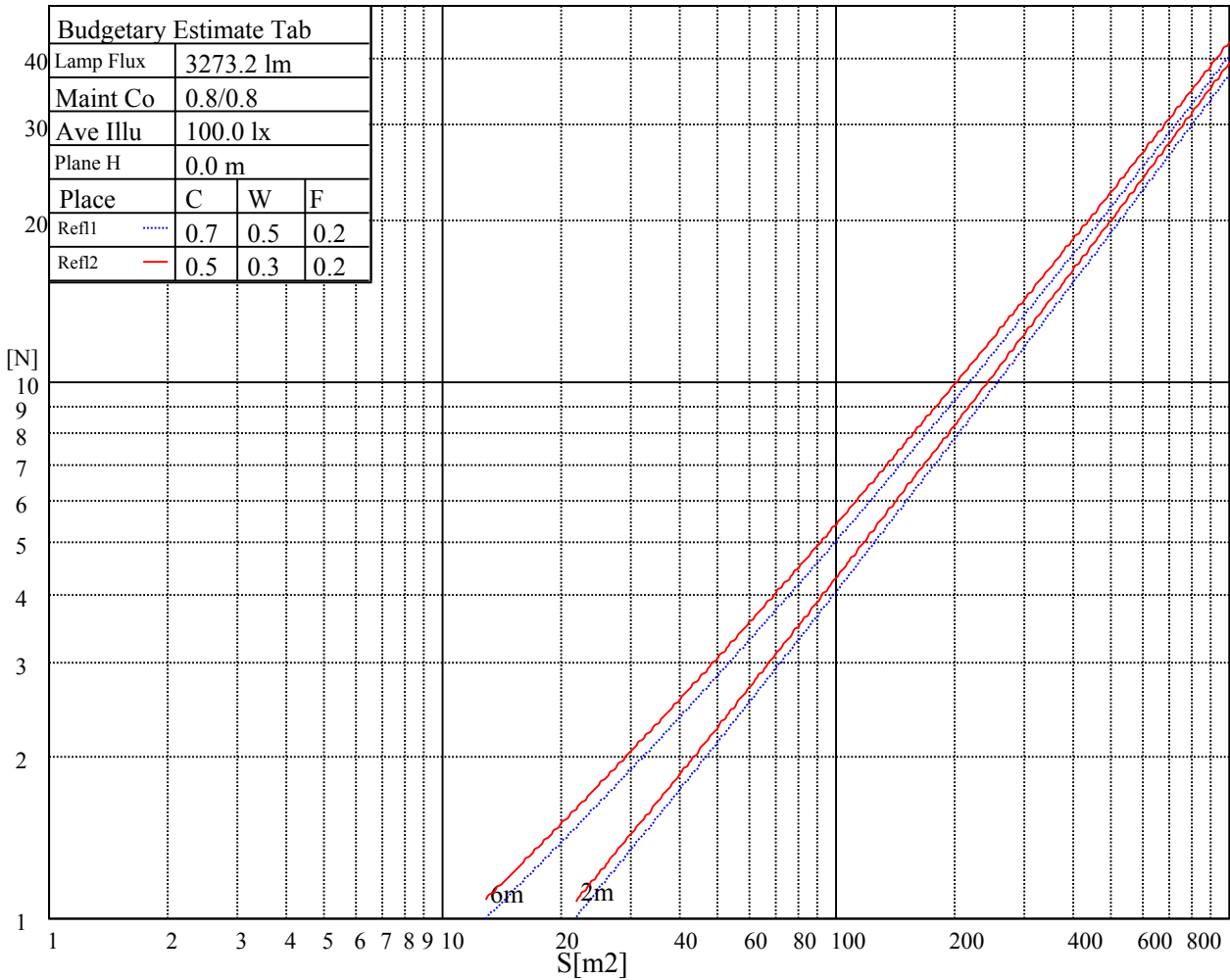
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

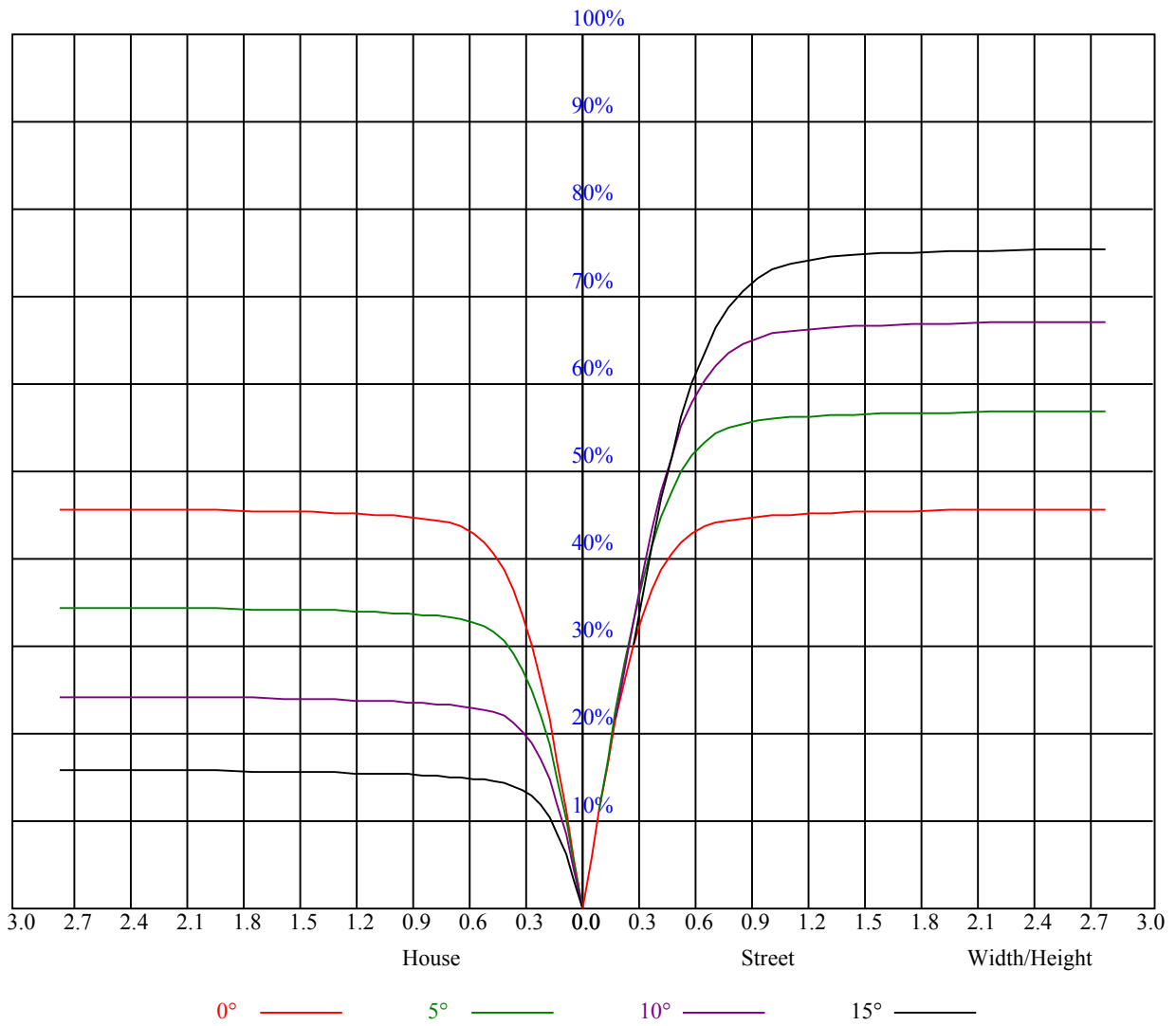


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOF=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.91	0.87	0.83	0.90	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.82	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.70
6	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61
9	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56



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	6562.67	6505.10	6408.78	6311.36	6198.44	6030.72	5879.05	5710.22	5473.31
45.0	6585.36	6558.79	6505.65	6410.45	6306.38	6190.69	6048.99	5866.87	5687.53
90.0	6572.63	6516.17	6432.59	6346.23	6226.12	6105.45	5918.35	5752.29	5556.89
135.0	6599.75	6595.33	6556.58	6503.99	6404.36	6298.63	6174.64	6003.04	5830.89
180.0	6562.67	6593.67	6592.56	6569.31	6527.24	6427.60	6340.15	6229.99	6098.80
225.0	6585.36	6595.88	6566.54	6521.15	6428.71	6340.15	6229.44	6057.29	5900.08
270.0	6572.63	6599.75	6592.56	6560.45	6505.65	6425.39	6313.58	6196.23	6026.29
315.0	6599.75	6584.81	6535.54	6464.14	6375.02	6268.19	6113.20	5959.87	5794.91
360.0	6562.67	6505.10	6408.78	6311.36	6198.44	6030.72	5879.05	5710.22	5473.31
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5270.16	5057.60	4832.87	4558.87	4334.13	4106.07	3878.02	3576.34	3336.11
45.0	5503.20	5305.03	5041.00	4822.90	4562.19	4340.22	4109.95	3816.02	3580.22
90.0	5309.46	5091.92	4878.26	4612.56	4382.84	4165.30	3869.71	3625.05	3384.26
135.0	5653.76	5456.70	5189.90	4979.55	4759.25	4532.30	4242.80	4003.67	3760.11
180.0	5906.73	5739.56	5543.61	5346.55	5069.78	4850.03	4572.71	4338.56	4102.20
225.0	5719.63	5489.36	5289.53	5089.15	4871.06	4598.72	4385.06	4160.87	3924.51
270.0	5869.64	5694.72	5504.31	5248.57	5040.44	4822.35	4598.17	4320.29	4081.72
315.0	5608.92	5362.60	5180.60	4935.83	4712.20	4433.21	4206.82	3921.19	3680.41
360.0	5270.16	5057.60	4832.87	4558.87	4334.13	4106.07	3878.02	3576.34	3336.11
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3098.64	2806.37	2577.76	2322.03	2133.83	1962.78	1803.36	1602.98	1436.37
45.0	3338.32	3098.64	2804.71	2572.23	2371.29	2181.98	1967.77	1803.36	1638.96
90.0	3144.03	2842.35	2612.63	2396.20	2207.45	1983.26	1824.40	1622.91	1453.53
135.0	3457.33	3214.33	2967.45	2675.74	2453.22	2256.16	2069.62	1863.15	1705.39
180.0	3814.36	3552.54	3305.66	3071.52	2757.11	2511.89	2309.85	2120.54	1901.89
225.0	3616.75	3366.55	3114.14	2813.01	2576.10	2315.94	2124.42	1947.84	1784.54
270.0	3864.73	3610.11	3308.98	3072.07	2832.94	2539.57	2334.21	2105.60	1929.02
315.0	3431.31	3134.62	2892.72	2666.88	2453.22	2213.54	2038.06	1874.22	1717.01
360.0	3098.64	2806.37	2577.76	2322.03	2133.83	1962.78	1803.36	1602.98	1436.37
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1074.52	1074.52	933.70	804.90	687.49	577.39	455.34	366.94	271.68
45.0	1421.43	1253.15	1099.27	926.56	800.91	685.22	557.36	463.81	376.90
90.0	1092.18	1092.18	951.53	826.93	681.62	576.56	479.69	391.13	293.21
135.0	1539.88	1333.97	1180.08	1039.49	906.64	758.29	648.69	547.39	430.04
180.0	1748.01	1591.91	1389.32	1231.56	1080.45	912.73	789.29	649.24	548.50
225.0	1581.40	1289.13	1093.51	1093.51	919.26	794.93	680.19	576.95	461.82
270.0	1769.60	1562.58	1395.96	1227.13	1070.48	893.91	766.59	654.78	553.48
315.0	1516.08	1069.60	1069.60	994.32	860.31	734.87	593.56	493.42	383.38
360.0	1074.52	1074.52	933.70	804.90	687.49	577.39	455.34	366.94	271.68
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	209.02	160.80	124.27	110.49	101.74	93.82	85.19	79.54	74.23
45.0	298.85	281.14	201.43	127.15	111.65	100.85	93.27	86.41	79.38
90.0	226.62	172.65	133.85	110.04	100.41	91.94	83.20	77.33	70.80
135.0	345.35	287.23	287.23	143.09	118.51	104.56	95.93	88.79	82.31
180.0	453.84	368.60	291.66	291.66	156.76	126.26	110.60	99.25	91.83
225.0	377.90	283.30	218.48	167.06	126.43	110.82	101.74	91.78	84.80
270.0	438.90	355.87	297.75	297.75	149.12	122.17	107.61	98.70	91.33
315.0	303.28	236.30	181.78	143.53	117.07	107.16	98.53	91.06	82.86
360.0	209.02	160.80	124.27	110.49	101.74	93.82	85.19	79.54	74.23

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	69.36	63.66	59.73	56.02	51.92	48.82	46.11	43.07	40.80
45.0	74.34	69.80	64.38	60.56	55.96	52.81	49.82	47.22	44.23
90.0	66.09	61.61	57.68	53.25	49.98	47.11	44.50	41.63	39.47
135.0	75.28	70.30	65.70	60.34	56.52	52.97	48.99	46.16	43.07
180.0	84.91	77.66	72.62	67.97	62.44	58.62	54.19	50.98	47.94
225.0	78.93	73.68	67.75	63.27	59.23	55.52	51.37	48.21	45.50
270.0	83.09	77.38	72.35	67.75	62.33	58.56	55.08	51.92	48.16
315.0	77.44	72.35	66.54	62.27	57.62	54.19	50.93	47.11	44.50
360.0	69.36	63.66	59.73	56.02	51.92	48.82	46.11	43.07	40.80
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.42	36.64	35.09	33.54	31.94	30.78	29.61	28.62	27.46
45.0	42.01	40.08	38.25	36.26	34.76	33.38	31.77	30.61	29.50
90.0	37.59	35.92	33.99	31.05	29.95	28.84	27.68	26.79	26.79
135.0	40.85	38.91	37.09	35.48	33.65	32.27	31.05	29.61	28.56
180.0	45.33	42.35	40.35	38.47	36.87	34.98	33.60	32.27	30.83
225.0	42.40	40.30	37.97	36.31	34.76	33.32	31.72	30.50	29.45
270.0	45.56	43.07	40.41	38.53	36.42	34.93	33.43	32.22	30.67
315.0	42.07	39.91	37.47	35.76	34.26	32.82	31.22	30.00	28.95
360.0	38.42	36.64	35.09	33.54	31.94	30.78	29.61	28.62	27.46
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.57	25.74	24.91	23.97	23.25	22.31	21.64	20.98	20.26
45.0	28.17	27.23	26.40	25.35	24.52	23.80	23.03	22.03	21.37
90.0	25.96	25.02	24.19	23.53	22.81	21.92	21.31	20.65	20.09
135.0	27.62	26.74	25.74	24.85	23.91	23.25	22.47	21.59	20.92
180.0	29.72	28.67	27.46	26.57	25.68	24.63	23.86	23.14	22.20
225.0	28.34	27.18	26.29	25.41	24.58	23.69	22.92	22.09	21.42
270.0	29.56	28.45	27.51	26.35	25.52	24.69	23.91	22.92	22.20
315.0	27.68	26.74	25.85	24.85	24.08	23.30	22.42	21.75	21.03
360.0	26.57	25.74	24.91	23.97	23.25	22.31	21.64	20.98	20.26
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.60	19.04	18.43	17.77	17.21	16.72	16.22	15.61	15.11
45.0	20.65	19.98	19.21	18.65	18.05	17.33	16.83	16.16	15.67
90.0	19.32	18.76	18.21	17.55	17.05	16.44	15.94	15.50	15.00
135.0	20.31	19.71	18.88	18.38	17.82	17.27	16.66	16.16	15.72
180.0	21.53	20.87	20.20	19.60	18.76	18.21	17.55	16.99	16.44
225.0	20.76	19.98	19.32	18.71	18.16	17.44	16.88	16.38	15.94
270.0	21.37	20.70	20.04	19.26	18.60	18.05	17.33	16.83	16.27
315.0	20.43	19.60	18.99	18.43	17.82	17.10	16.61	16.00	15.55
360.0	19.60	19.04	18.43	17.77	17.21	16.72	16.22	15.61	15.11
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.67	14.23	13.78	13.45	13.17	12.90	12.62	12.51	12.45
45.0	15.11	14.56	14.12	13.78	13.40	13.06	12.84	12.57	12.40
90.0	14.45	14.00	13.73	13.34	13.06	12.84	12.62	12.34	12.29
135.0	15.17	14.67	14.12	13.78	13.40	13.12	12.84	12.57	12.34
180.0	15.83	15.39	14.78	14.34	13.89	13.56	13.23	13.01	12.68
225.0	15.33	14.78	14.34	13.95	13.67	13.34	13.01	12.79	12.51
270.0	15.78	15.22	14.67	14.17	13.73	13.40	13.06	12.79	12.57
315.0	15.06	14.50	14.06	13.67	13.34	13.06	12.79	12.51	12.34
360.0	14.67	14.23	13.78	13.45	13.17	12.90	12.62	12.51	12.45

Intensity data(cd)

C/γ(°)	90.0
0.0	12.45
45.0	12.40
90.0	12.29
135.0	12.29
180.0	12.45
225.0	12.40
270.0	12.34
315.0	12.29
360.0	12.45