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## NATA

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Client:

LumCAT: 2-2643-L

Luminaire: 92.70.411.00

Report No: 2023718-B010

Ballast type: AC

Test No: 2023718-C010

Voltage(V): 35.520

LampCAT: SLM C 1205 L13 2024 G7 HE+

Current(A): 0.480

Lamp flux(lm): 2636.6

Power (W): 17.049

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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## Photometric Results

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Lumens(lm): 2496.67, Efficiency(%): 94.69% , Luminous Efficacy(lm/W): 146.44

Central intensity(cd): 15270.400, Maximum intensity(cd): 15270.400

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=16.4

[C90/270]Total=16.4

Field angle(10%Imax): [C0/180]Total=42.2

[C90/270]Total=42.2

Maximum s/h(1/2): C0\_180=0.28 C90\_270=0.28

Maximum s/h(1/4): C0\_180=0.30 C90\_270=0.30

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.69%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.002%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15270.398	0.000	0	0.00%	0.00%
1.0	15137.549	14.550	14.55	0.55%	0.58%
2.0	14652.513	42.758	57.307	1.62%	2.30%
3.0	13452.502	67.218	124.525	2.55%	4.99%
4.0	12557.220	87.063	211.588	3.30%	8.47%
5.0	11427.792	103.182	314.77	3.91%	12.61%
6.0	10427.207	114.854	429.624	4.36%	17.21%
7.0	9127.227	121.374	550.998	4.60%	22.07%
8.0	7920.173	122.005	673.003	4.63%	26.96%
9.0	6700.110	118.489	791.493	4.49%	31.70%
10.0	5680.843	112.043	903.536	4.25%	36.19%
11.0	4873.649	105.461	1008.997	4.00%	40.41%
12.0	4136.616	98.495	1107.492	3.74%	44.36%
13.0	3625.080	92.112	1199.604	3.49%	48.05%
14.0	3187.440	87.200	1286.803	3.31%	51.54%
15.0	2862.861	83.061	1369.864	3.15%	54.87%
16.0	2632.866	80.528	1450.392	3.05%	58.09%
17.0	2342.454	77.479	1527.871	2.94%	61.20%
18.0	2151.408	74.094	1601.965	2.81%	64.16%
19.0	1881.898	70.171	1672.137	2.66%	66.97%
20.0	1700.753	65.572	1737.709	2.49%	69.60%
21.0	1546.455	62.353	1800.062	2.36%	72.10%
22.0	1378.249	58.773	1858.835	2.23%	74.45%
23.0	1239.104	54.919	1913.754	2.08%	76.65%
24.0	1147.937	52.189	1965.944	1.98%	78.74%
25.0	1075.015	50.545	2016.489	1.92%	80.77%
26.0	986.595	48.665	2065.153	1.85%	82.72%
27.0	895.642	46.049	2111.203	1.75%	84.56%
28.0	802.032	42.982	2154.184	1.63%	86.28%
29.0	698.113	39.248	2193.432	1.49%	87.85%
30.0	596.871	34.964	2228.396	1.33%	89.25%
31.0	489.257	30.225	2258.622	1.15%	90.47%
32.0	394.761	25.326	2283.948	0.96%	91.48%
33.0	307.240	20.681	2304.629	0.78%	92.31%
34.0	248.517	16.819	2321.448	0.64%	92.98%
35.0	200.601	13.948	2335.396	0.53%	93.54%
36.0	169.756	11.792	2347.188	0.45%	94.01%
37.0	121.785	9.508	2356.697	0.36%	94.39%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	109.040	7.705	2364.401	0.29%	94.70%
39.0	97.464	7.049	2371.45	0.27%	94.98%
40.0	87.258	6.442	2377.892	0.24%	95.24%
41.0	78.014	5.885	2383.777	0.22%	95.48%
42.0	69.919	5.375	2389.152	0.20%	95.69%
43.0	63.442	4.940	2394.092	0.19%	95.89%
44.0	57.533	4.566	2398.658	0.17%	96.07%
45.0	52.448	4.227	2402.885	0.16%	96.24%
46.0	48.220	3.937	2406.822	0.15%	96.40%
47.0	44.760	3.698	2410.52	0.14%	96.55%
48.0	41.564	3.490	2414.009	0.13%	96.69%
49.0	38.865	3.303	2417.312	0.13%	96.82%
50.0	36.706	3.151	2420.463	0.12%	96.95%
51.0	34.665	3.020	2423.483	0.11%	97.07%
52.0	32.839	2.897	2426.379	0.11%	97.18%
53.0	31.213	2.786	2429.165	0.11%	97.30%
54.0	29.974	2.697	2431.862	0.10%	97.40%
55.0	28.715	2.620	2434.482	0.10%	97.51%
56.0	27.711	2.550	2437.032	0.10%	97.61%
57.0	26.888	2.496	2439.528	0.09%	97.71%
58.0	26.161	2.453	2441.981	0.09%	97.81%
59.0	25.594	2.420	2444.401	0.09%	97.91%
60.0	25.089	2.394	2446.795	0.09%	98.00%
61.0	24.577	2.370	2449.166	0.09%	98.10%
62.0	23.975	2.340	2451.505	0.09%	98.19%
63.0	23.380	2.303	2453.808	0.09%	98.28%
64.0	22.688	2.261	2456.069	0.09%	98.37%
65.0	21.872	2.205	2458.274	0.08%	98.46%
66.0	21.021	2.140	2460.414	0.08%	98.55%
67.0	20.176	2.071	2462.486	0.08%	98.63%
68.0	19.360	2.003	2464.488	0.08%	98.71%
69.0	18.578	1.935	2466.424	0.07%	98.79%
70.0	17.782	1.867	2468.291	0.07%	98.86%
71.0	17.111	1.803	2470.095	0.07%	98.94%
72.0	16.530	1.749	2471.844	0.07%	99.01%
73.0	16.011	1.702	2473.546	0.06%	99.07%
74.0	15.513	1.657	2475.203	0.06%	99.14%
75.0	15.029	1.614	2476.817	0.06%	99.20%

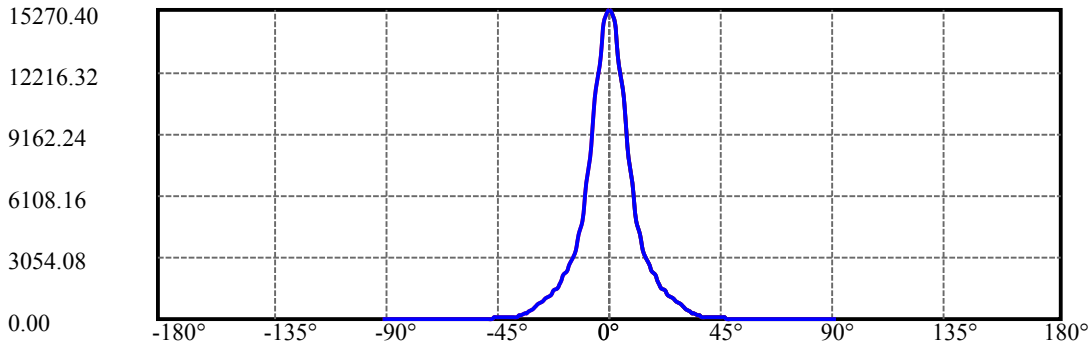
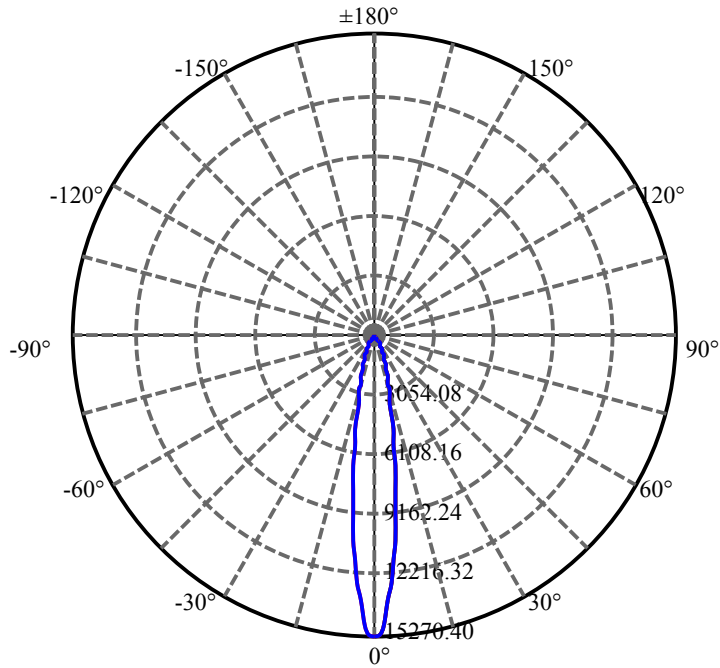
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.620	1.574	2478.39	0.06%	99.27%
77.0	14.184	1.536	2479.926	0.06%	99.33%
78.0	13.762	1.496	2481.422	0.06%	99.39%
79.0	13.333	1.456	2482.878	0.06%	99.45%
80.0	12.960	1.418	2484.295	0.05%	99.50%
81.0	12.545	1.379	2485.675	0.05%	99.56%
82.0	12.178	1.341	2487.015	0.05%	99.61%
83.0	11.818	1.304	2488.32	0.05%	99.67%
84.0	11.507	1.271	2489.59	0.05%	99.72%
85.0	11.209	1.240	2490.83	0.05%	99.77%
86.0	10.939	1.211	2492.041	0.05%	99.81%
87.0	10.711	1.185	2493.226	0.04%	99.86%
88.0	10.510	1.162	2494.388	0.04%	99.91%
89.0	10.393	1.146	2495.534	0.04%	99.95%
90.0	10.358	1.138	2496.672	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2228.40	84.52%	89.25%
0-40	2377.89	90.19%	95.24%
0-60	2446.80	92.80%	98.00%
0-90	2495.53	94.65%	99.95%
0-120	2495.53	94.65%	99.95%
0-180	2496.67	94.69%	100.00%
60-90	48.74	1.85%	1.95%
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%
0-24.62	1997.34	75.75%	80.00%

ZONAL LUMEN SUMMARY

0-10	903.54
10-20	834.17
20-30	490.69
30-40	149.50
40-50	42.57
50-60	26.33
60-70	21.50
70-80	16.00
80-90	11.24
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



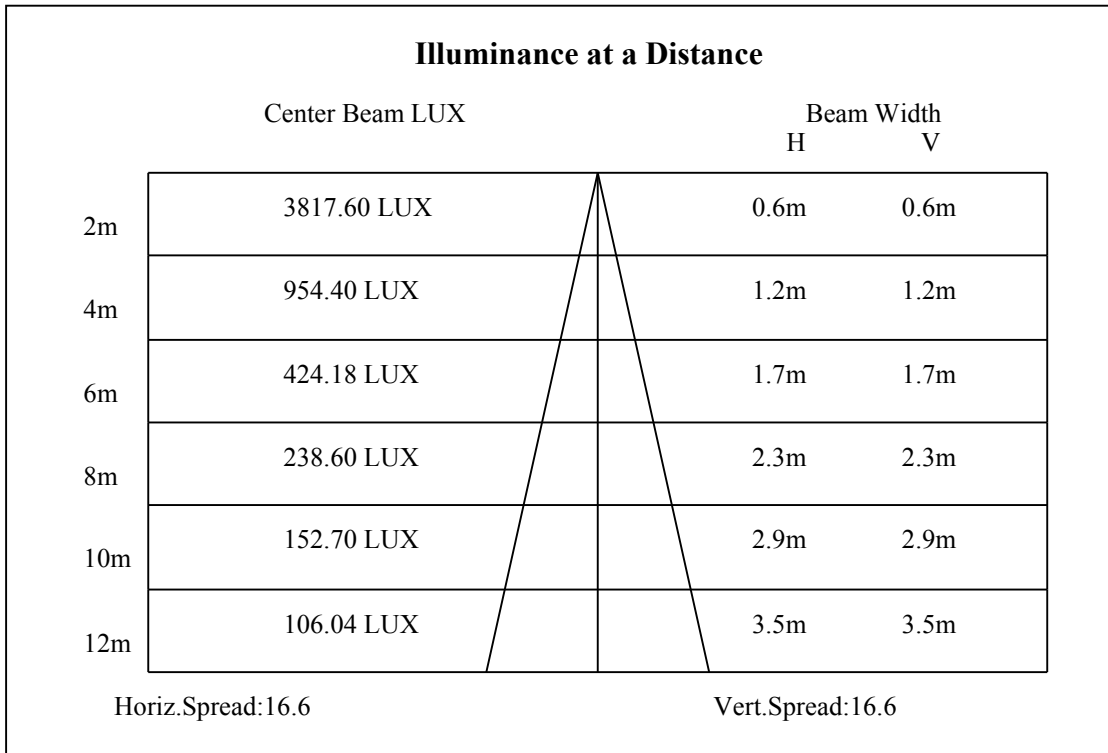
C0(Max): —————

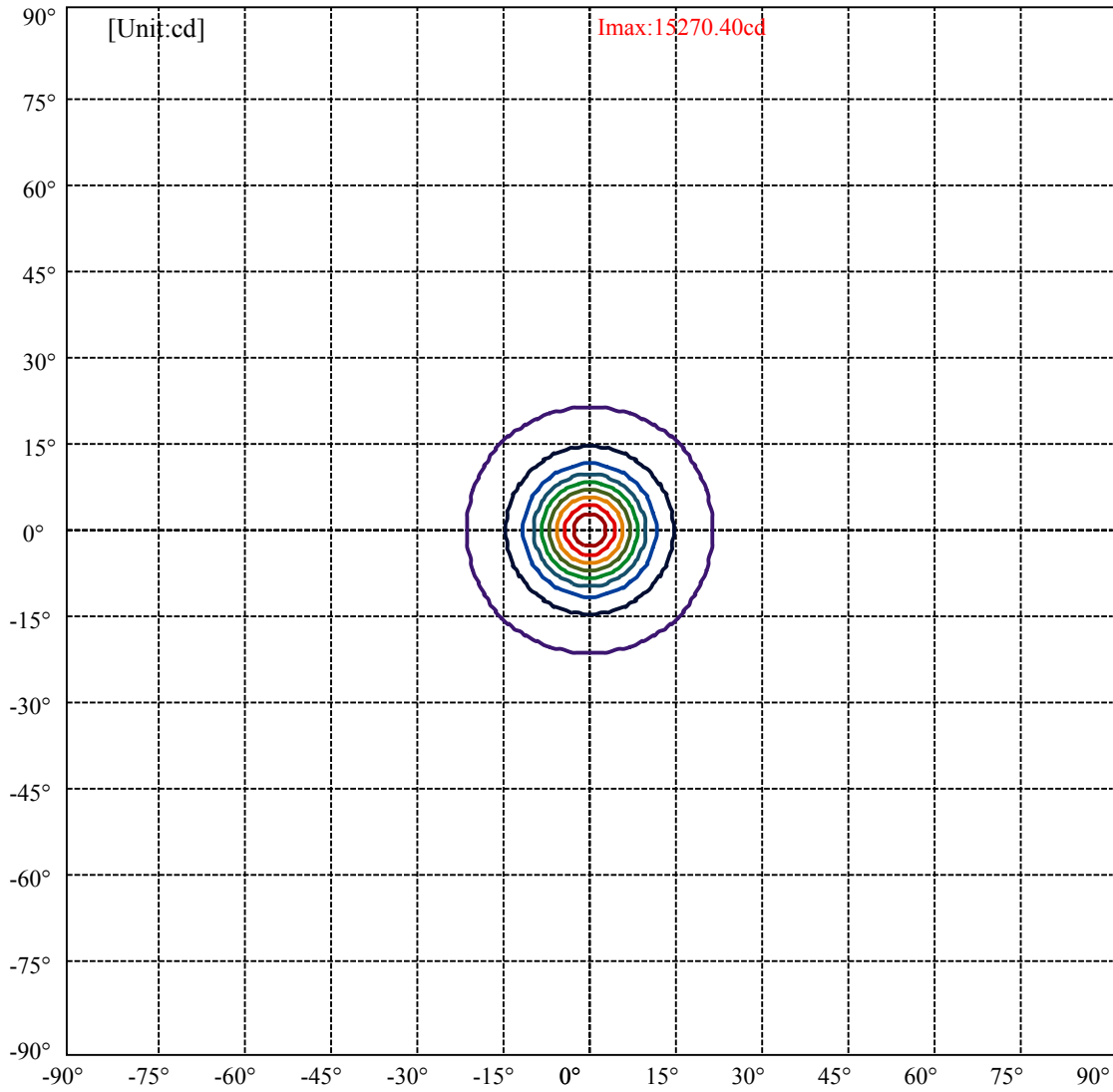
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:21.1 Right:21.1  
:C90/270Left:21.1 Right:21.1

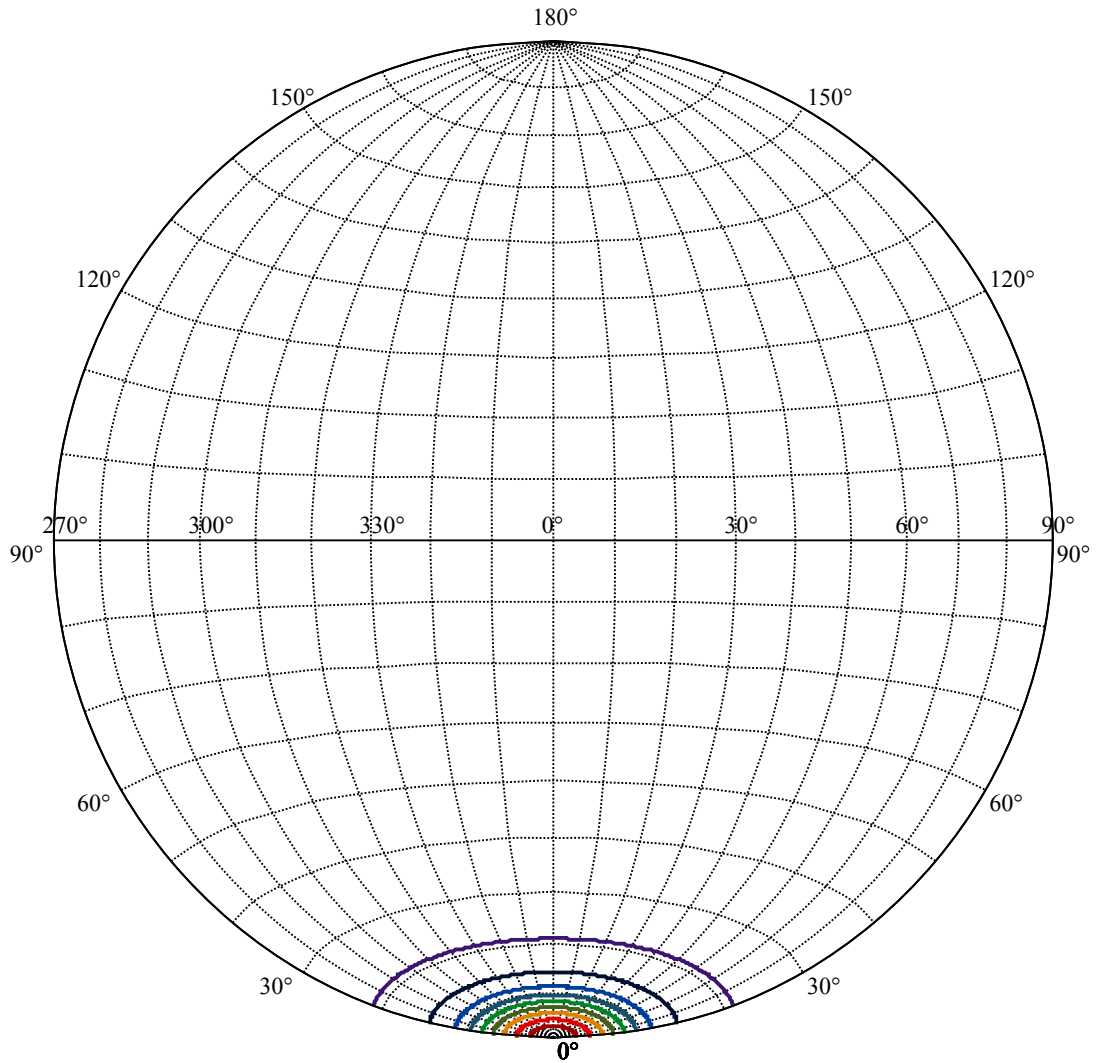
Beam Angle(50%Imax):C0/180Left:8.2 Right:8.2  
:C90/270Left:8.2 Right:8.2





(10%Imax) 1527.04	—
(20%Imax) 3054.08	—
(30%Imax) 4581.12	—
(40%Imax) 6108.16	—
(50%Imax) 7635.2	—
(60%Imax) 9162.24	—
(70%Imax) 10689.3	—
(80%Imax) 12216.3	—
(90%Imax) 13743.4	—





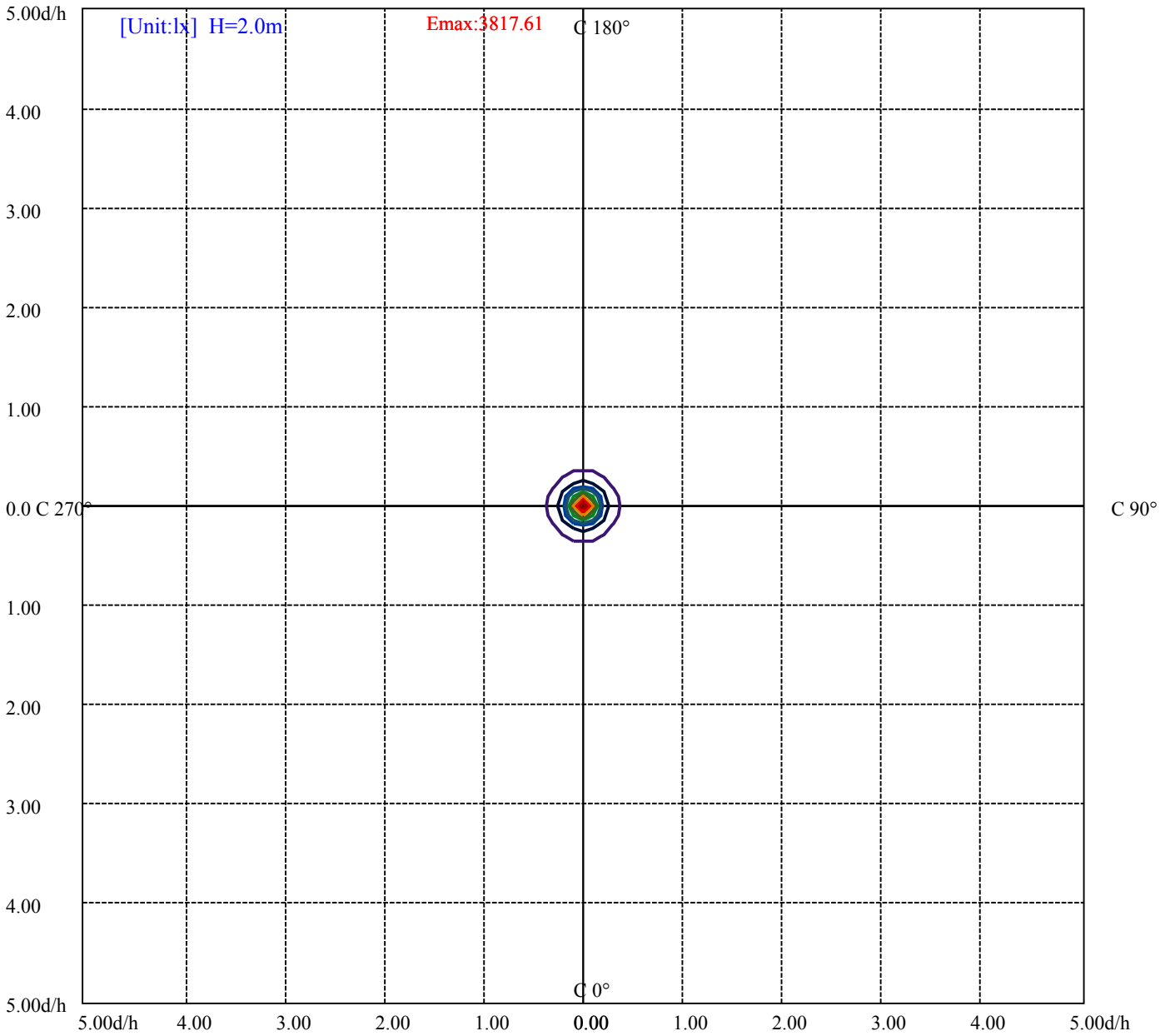
House

[Unit:cd]

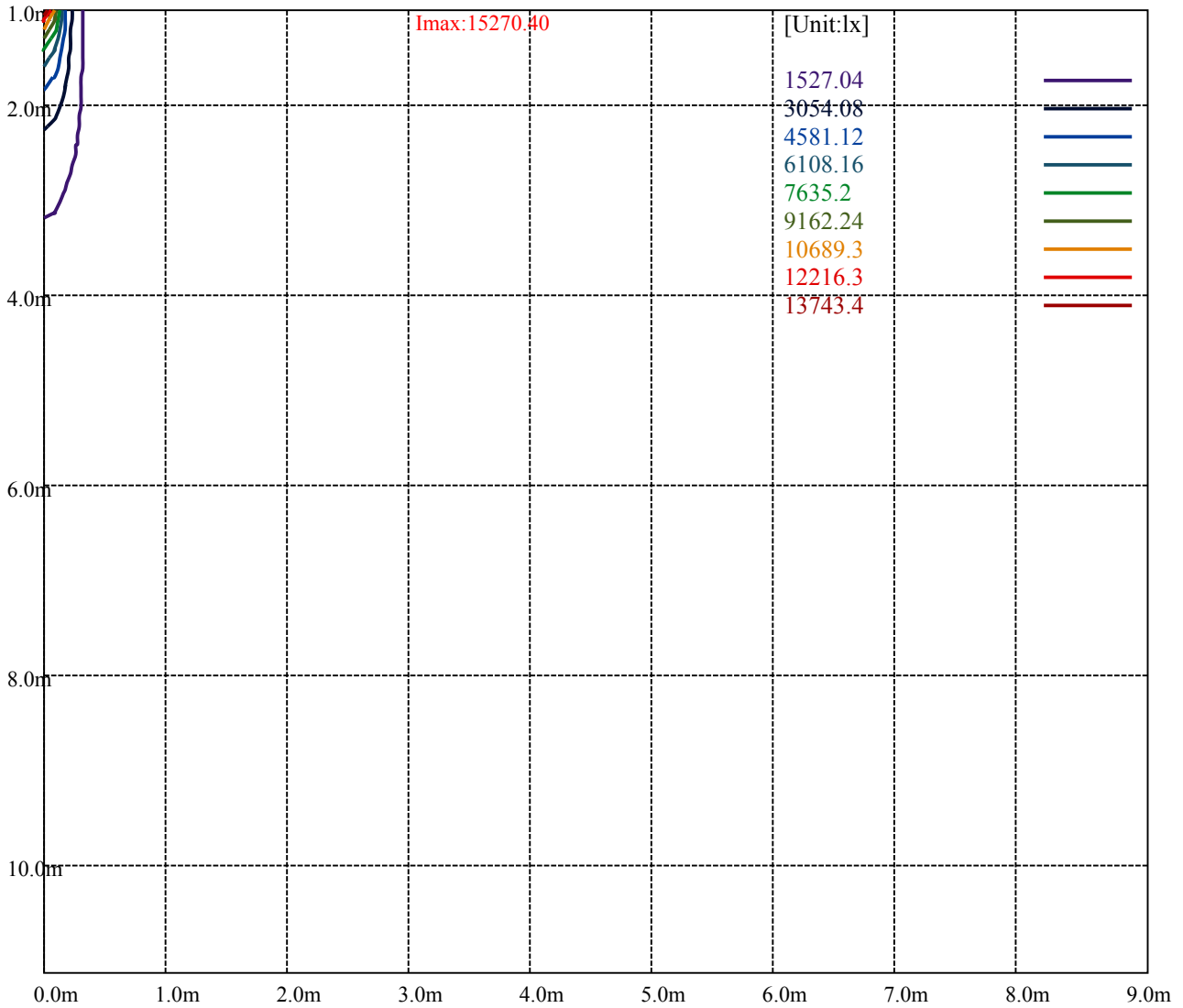
Road

Imax:15270.40

(10%Imax)	1527.04	—
(20%Imax)	3054.08	—
(30%Imax)	4581.12	—
(40%Imax)	6108.16	—
(50%Imax)	7635.2	—
(60%Imax)	9162.24	—
(70%Imax)	10689.3	—
(80%Imax)	12216.3	—
(90%Imax)	13743.4	—



(10%Emax) 381.76	—
(20%Emax) 763.52	—
(30%Emax) 1145.277	—
(40%Emax) 1527.037	—
(50%Emax) 1908.797	—
(60%Emax) 2290.558	—
(70%Emax) 2672.325	—
(80%Emax) 3054.075	—
(90%Emax) 3435.825	—



Luminance Table

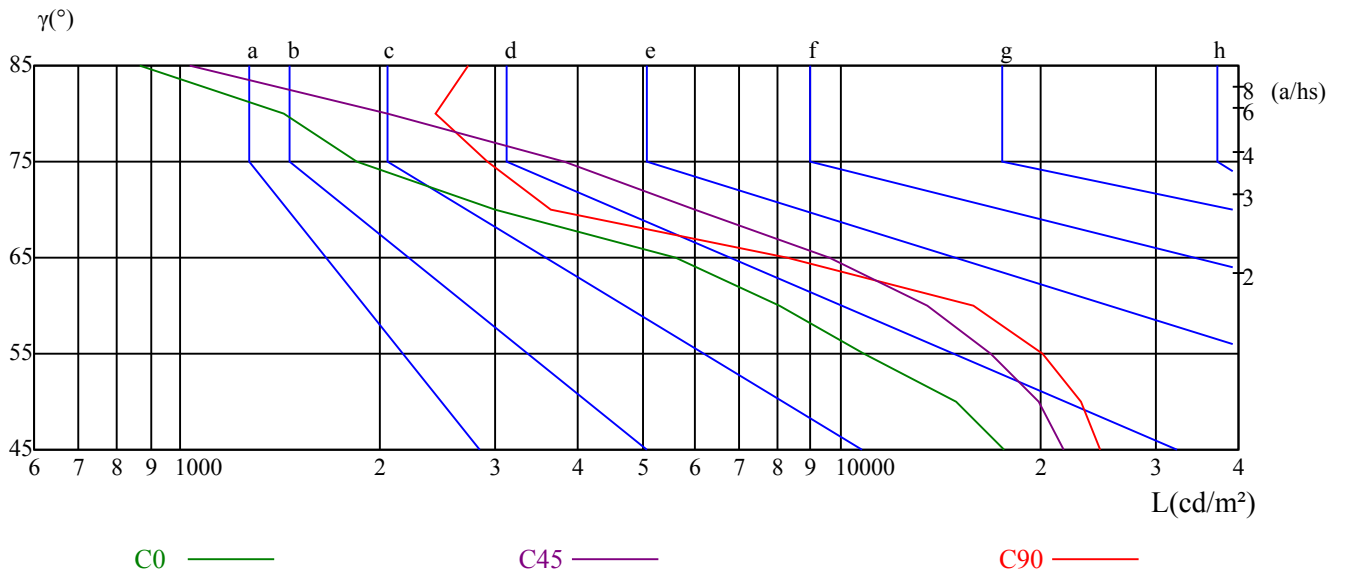
$\gamma$	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

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

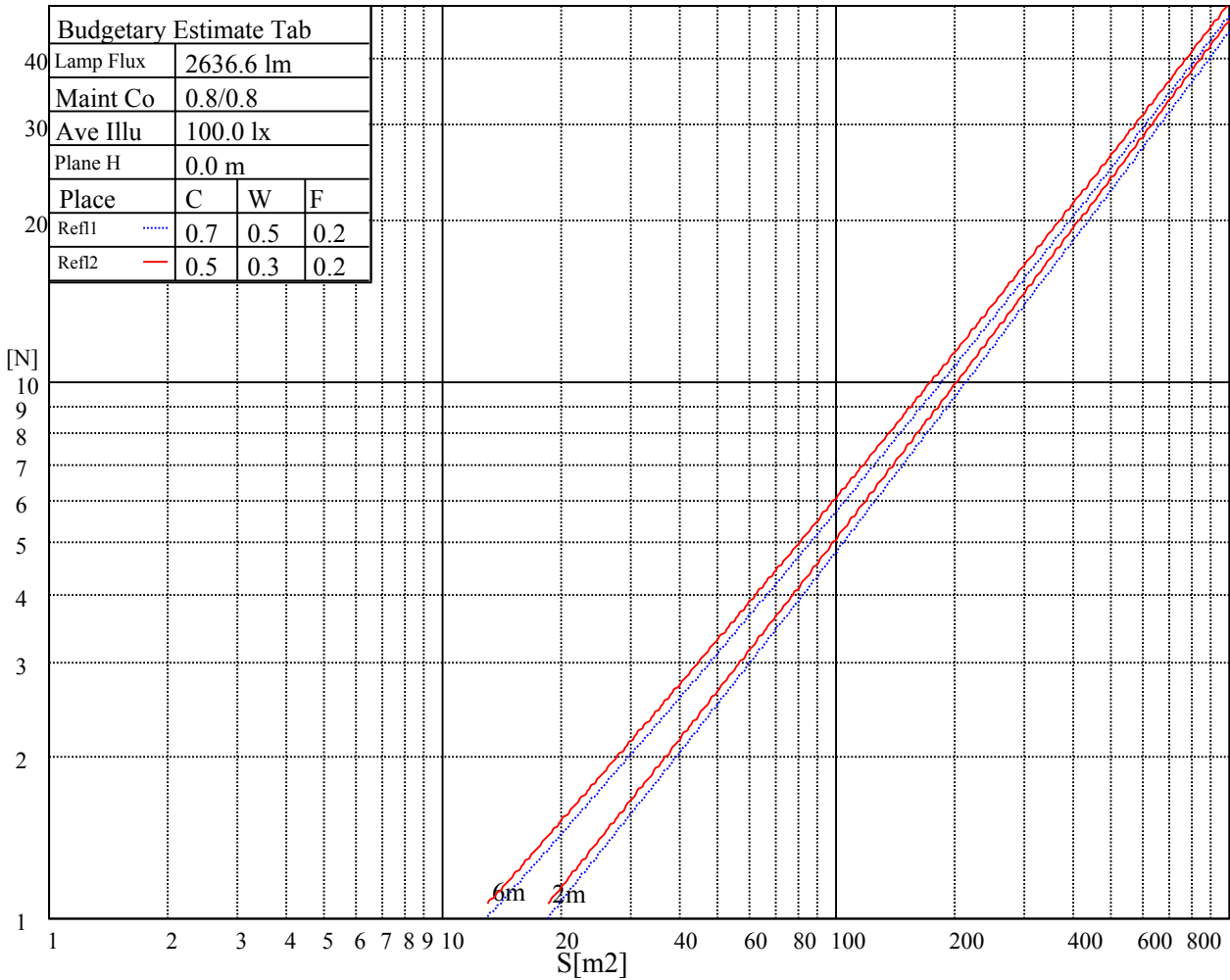
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

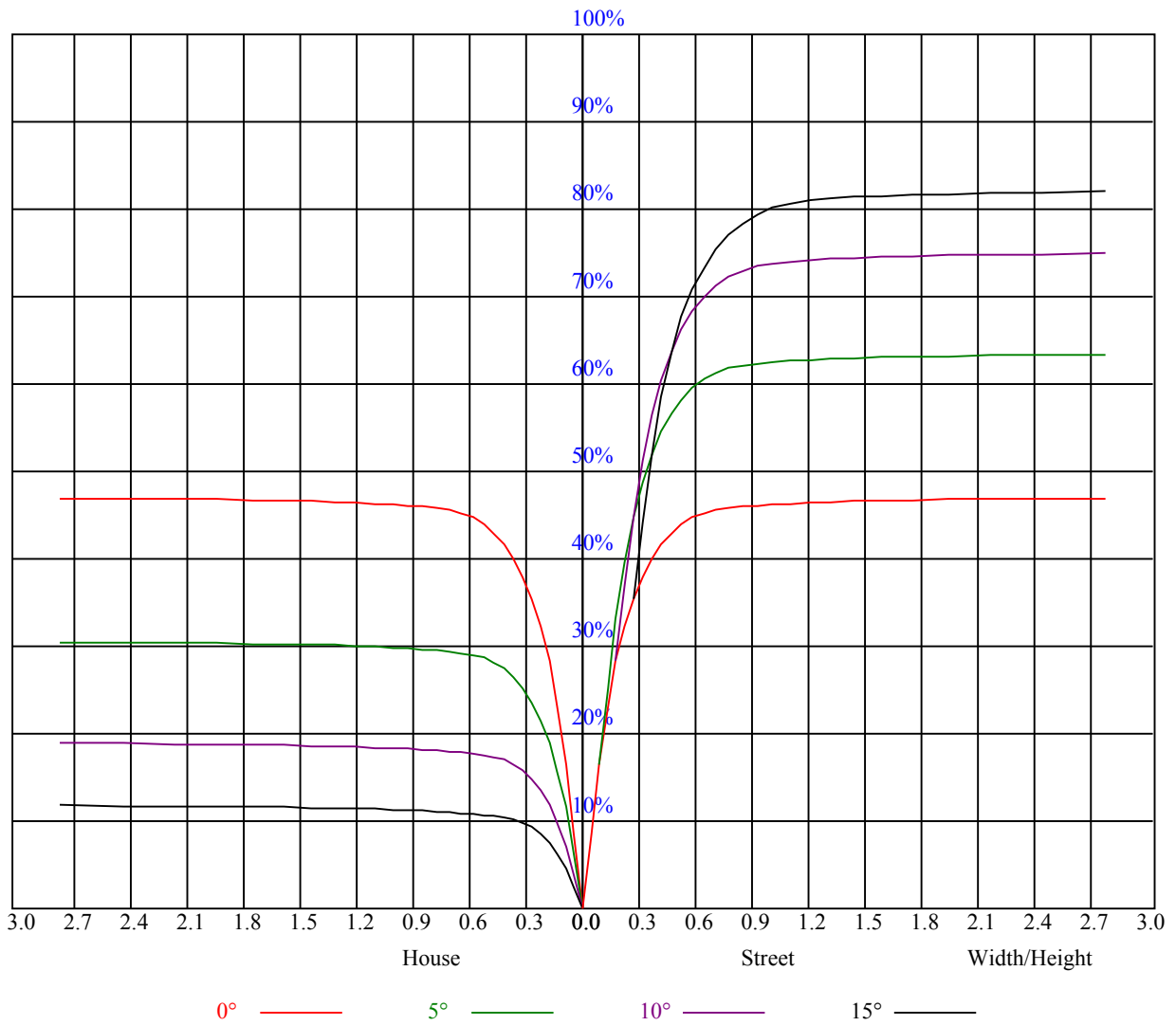


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	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	
8H	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 RHOFc=20 CU															
0	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.01	0.97	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.91	0.90	0.91	0.89	0.88	0.86
3	0.96	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.83
4	0.92	0.87	0.84	0.91	0.87	0.84	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.80
5	0.88	0.84	0.81	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.77
6	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.78	0.76	0.74
7	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
8	0.79	0.75	0.72	0.78	0.74	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.70
9	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.68
10	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66





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	15068.36	14492.68	13457.57	10880.80	10880.80	9648.08	8452.44	7285.03	6228.33
45.0	15389.41	15057.29	14437.33	13363.47	12261.93	11071.83	9837.44	8298.61	7147.26
90.0	15167.99	14664.28	13673.45	10812.72	10812.72	9880.56	8652.27	7449.43	6110.43
135.0	15455.83	15334.05	14963.19	14088.60	13097.77	11951.95	10402.05	9145.52	7927.74
180.0	15068.36	15439.23	15428.16	15129.25	14581.25	13518.46	12422.45	11210.21	9975.83
225.0	15389.41	15428.16	15151.39	14437.33	13579.35	10971.03	10971.03	9708.41	8468.49
270.0	15167.99	15422.62	15383.87	14918.90	14265.73	13402.21	12322.82	10811.67	9588.35
315.0	15455.83	15262.09	14725.16	13988.96	10978.22	10978.22	10357.16	9108.93	7914.96
360.0	15068.36	14492.68	13457.57	10880.80	10880.80	9648.08	8452.44	7285.03	6228.33
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5136.21	4445.95	3885.77	3430.76	2984.61	2691.24	2423.88	2149.32	1961.68
45.0	6123.22	5254.16	4540.10	3837.11	3399.82	2945.92	2868.42	2868.42	2132.72
90.0	5233.07	4507.94	3818.79	3386.48	3026.13	2724.45	2407.83	2190.84	2004.85
135.0	6527.30	5586.29	4805.80	4047.46	3576.95	3183.94	2862.89	2862.89	2286.60
180.0	8420.39	7213.68	6134.29	5032.75	4335.29	3803.90	3278.04	2923.78	2851.82
225.0	7255.14	5920.57	5068.12	4385.61	3839.82	3309.54	2968.00	2677.40	2423.88
270.0	8403.78	6964.59	5940.55	4922.04	4268.87	3748.55	3322.32	2890.56	2818.61
315.0	6501.78	5553.57	4795.78	4050.72	3569.14	3092.00	2771.50	2499.71	2259.48
360.0	5136.21	4445.95	3885.77	3430.76	2984.61	2691.24	2423.88	2149.32	1961.68
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1799.49	1616.82	1476.78	1341.72	1102.92	1102.92	1033.89	957.45	843.92
45.0	1951.71	1797.83	1611.29	1471.80	1335.63	1218.83	1109.23	1042.25	964.20
90.0	1835.47	1643.95	1501.13	1329.54	1091.74	1091.74	1056.98	962.82	876.63
135.0	2086.22	1903.55	1701.51	1553.17	1411.46	1249.83	1158.50	1084.32	989.67
180.0	2558.39	2135.49	1945.07	1747.46	1602.98	1461.28	1318.47	1182.85	1092.62
225.0	2152.09	1965.55	1759.08	1611.84	1471.80	1219.38	1102.53	1102.53	1032.73
270.0	2818.61	2153.20	1917.95	1761.30	1623.47	1474.56	1309.61	1191.71	1103.70
315.0	2009.28	1838.79	1693.21	1554.83	1386.00	1094.29	1094.29	1076.18	989.28
360.0	1799.49	1616.82	1476.78	1341.72	1102.92	1102.92	1033.89	957.45	843.92
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	746.72	651.73	559.85	446.76	358.08	274.06	202.04	145.14	125.21
45.0	875.64	754.41	655.88	556.25	435.58	344.24	282.80	282.80	149.07
90.0	755.30	652.95	547.83	446.87	329.96	251.97	192.46	155.99	135.23
135.0	897.78	802.57	685.78	595.00	503.11	412.88	304.39	283.91	283.91
180.0	1021.77	944.28	830.25	733.38	637.06	521.38	430.04	343.69	283.91
225.0	942.51	854.88	758.46	661.48	535.10	437.57	344.91	243.22	182.50
270.0	1019.56	942.06	854.05	737.81	635.40	529.13	401.26	311.03	290.55
315.0	905.86	813.37	692.81	597.43	479.75	386.87	300.02	222.36	154.44
360.0	746.72	651.73	559.85	446.76	358.08	274.06	202.04	145.14	125.21
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	110.21	98.81	88.40	77.44	69.80	63.38	56.52	52.14	48.16
45.0	131.96	116.80	104.51	93.71	84.36	74.34	67.70	61.61	56.57
90.0	123.44	111.81	100.69	88.57	80.26	71.52	65.37	60.28	54.52
135.0	146.08	129.31	116.69	105.01	92.16	83.20	75.56	67.42	61.72
180.0	283.91	146.96	127.26	115.02	103.40	92.77	80.65	72.62	65.70
225.0	144.20	123.11	112.42	101.91	89.78	80.82	72.73	65.87	58.56
270.0	290.55	133.07	119.34	108.49	97.92	86.02	77.22	69.69	61.94
315.0	127.70	114.42	103.01	89.56	80.37	72.07	63.60	57.90	53.08
360.0	110.21	98.81	88.40	77.44	69.80	63.38	56.52	52.14	48.16

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	44.23	40.74	38.42	36.09	34.10	32.33	30.83	29.23	28.23
45.0	50.93	46.94	44.06	40.74	37.92	35.81	33.77	31.99	30.33
90.0	50.37	47.33	44.39	40.63	38.36	36.42	34.04	32.38	31.11
135.0	55.96	51.70	47.77	44.78	41.40	38.97	37.03	35.09	32.99
180.0	59.62	53.75	49.82	46.00	42.40	39.97	37.86	35.43	33.71
225.0	53.75	49.71	45.11	42.18	39.97	37.75	35.26	33.60	31.72
270.0	56.52	51.09	47.27	43.73	40.57	38.30	35.98	34.15	32.22
315.0	48.21	44.50	41.24	38.36	36.20	34.10	32.55	30.83	29.39
360.0	44.23	40.74	38.42	36.09	34.10	32.33	30.83	29.23	28.23
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.46	26.35	25.74	25.24	24.91	24.36	23.97	23.64	23.08
45.0	29.39	28.56	27.51	26.68	26.24	25.85	25.24	24.74	24.30
90.0	30.11	28.62	27.73	27.12	26.57	25.91	25.57	25.13	24.02
135.0	31.55	30.22	28.78	27.73	27.07	26.46	25.68	25.13	24.58
180.0	32.11	30.33	29.17	28.06	26.90	26.13	25.52	25.02	24.36
225.0	30.28	29.12	27.95	27.07	26.29	25.74	25.24	24.63	24.13
270.0	30.56	29.23	28.23	27.46	26.24	25.63	25.19	24.69	23.97
315.0	28.34	27.29	26.57	25.74	25.08	24.69	24.30	23.64	23.36
360.0	27.46	26.35	25.74	25.24	24.91	24.36	23.97	23.64	23.08
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.20	21.59	20.81	19.82	19.10	18.38	17.38	16.83	16.27
45.0	23.64	22.53	21.86	21.03	19.93	19.21	18.43	17.49	16.88
90.0	23.19	22.53	21.31	20.43	19.65	18.82	17.82	17.21	16.55
135.0	23.97	23.25	22.53	21.53	20.54	19.82	19.04	17.99	17.33
180.0	23.91	23.58	22.81	22.03	21.37	20.31	19.54	18.82	17.88
225.0	23.75	22.97	22.09	21.37	20.37	19.60	18.93	18.05	17.33
270.0	23.47	23.14	22.31	21.37	20.70	19.87	19.21	18.38	17.71
315.0	22.92	21.92	21.26	20.59	19.76	18.88	18.27	17.49	16.94
360.0	22.20	21.59	20.81	19.82	19.10	18.38	17.38	16.83	16.27
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.67	15.22	14.83	14.39	13.95	13.56	13.23	12.84	12.45
45.0	16.33	15.83	15.28	14.83	14.45	14.06	13.56	13.17	12.84
90.0	16.00	15.61	15.06	14.61	14.17	13.73	13.28	12.90	12.51
135.0	16.83	16.11	15.61	15.06	14.67	14.28	13.89	13.34	12.95
180.0	17.21	16.66	16.16	15.55	15.17	14.78	14.34	13.89	13.51
225.0	16.83	16.22	15.72	15.28	14.89	14.39	14.00	13.62	13.23
270.0	17.05	16.61	16.05	15.61	15.22	14.72	14.28	13.78	13.40
315.0	16.33	15.83	15.39	14.89	14.45	13.95	13.51	13.12	12.79
360.0	15.67	15.22	14.83	14.39	13.95	13.56	13.23	12.84	12.45
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.18	11.79	11.51	11.24	10.96	10.74	10.57	10.41	10.41
45.0	12.40	12.07	11.62	11.35	11.07	10.79	10.57	10.46	10.30
90.0	12.07	11.68	11.35	11.07	10.85	10.63	10.46	10.19	10.35
135.0	12.51	12.18	11.79	11.46	11.18	10.90	10.63	10.46	10.24
180.0	13.01	12.73	12.23	11.96	11.57	11.29	11.02	10.79	10.57
225.0	12.79	12.34	12.01	11.68	11.40	11.07	10.85	10.63	10.52
270.0	13.01	12.62	12.23	11.90	11.51	11.24	10.90	10.68	10.46
315.0	12.40	12.01	11.79	11.40	11.13	10.85	10.68	10.46	10.30
360.0	12.18	11.79	11.51	11.24	10.96	10.74	10.57	10.41	10.41

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	10.41
45.0	10.30
90.0	10.30
135.0	10.46
180.0	10.57
225.0	10.30
270.0	10.30
315.0	10.24
360.0	10.41