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NATA

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231008-B008

Ballast type: AC

Test No: 20231008-C008

Voltage(V): 35.980

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.540

Lamp flux(lm): 2889.2

Power (W): 19.429

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2650.62, Efficiency(%): 91.74% , Luminous Efficacy(lm/W): 136.43

Central intensity(cd): 4692.823, Maximum intensity(cd): 4692.823

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.6

[C90/270]Total=46.6

Field angle(10%Imax): [C0/180]Total=66.4

[C90/270]Total=66.4

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

Maximum s/h(1/4): C0_180=0.71 C90_270=0.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.74%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.069%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4692.823	0.000	0	0.00%	0.00%
1.0	4683.759	4.487	4.487	0.16%	0.17%
2.0	4649.094	13.395	17.882	0.46%	0.67%
3.0	4603.012	22.128	40.01	0.77%	1.51%
4.0	4547.520	30.630	70.64	1.06%	2.67%
5.0	4488.845	38.874	109.514	1.35%	4.13%
6.0	4420.898	46.823	156.337	1.62%	5.90%
7.0	4345.894	54.415	210.752	1.88%	7.95%
8.0	4267.292	61.643	272.395	2.13%	10.28%
9.0	4191.665	68.555	340.95	2.37%	12.86%
10.0	4103.584	75.069	416.019	2.60%	15.70%
11.0	4020.207	81.173	497.193	2.81%	18.76%
12.0	3923.269	86.834	584.026	3.01%	22.03%
13.0	3824.394	91.945	675.971	3.18%	25.50%
14.0	3715.071	96.504	772.476	3.34%	29.14%
15.0	3599.382	100.416	872.892	3.48%	32.93%
16.0	3470.754	103.597	976.489	3.59%	36.84%
17.0	3336.314	106.004	1082.493	3.67%	40.84%
18.0	3198.276	107.741	1190.235	3.73%	44.90%
19.0	3035.951	108.463	1298.697	3.75%	49.00%
20.0	2882.968	108.333	1407.03	3.75%	53.08%
21.0	2717.876	107.548	1514.578	3.72%	57.14%
22.0	2554.167	105.944	1620.522	3.67%	61.14%
23.0	2401.184	103.977	1724.498	3.60%	65.06%
24.0	2216.926	100.968	1825.467	3.49%	68.87%
25.0	2050.380	97.029	1922.496	3.36%	72.53%
26.0	1852.422	92.126	2014.622	3.19%	76.01%
27.0	1570.769	83.749	2098.371	2.90%	79.17%
28.0	1372.693	74.522	2172.893	2.58%	81.98%
29.0	1188.843	67.017	2239.91	2.32%	84.51%
30.0	1030.470	59.921	2299.831	2.07%	86.77%
31.0	836.635	51.959	2351.79	1.80%	88.73%
32.0	651.159	42.624	2394.414	1.48%	90.33%
33.0	498.681	33.875	2428.288	1.17%	91.61%
34.0	363.493	26.092	2454.38	0.90%	92.60%
35.0	274.713	19.820	2474.201	0.69%	93.34%
36.0	232.810	16.160	2490.36	0.56%	93.95%
37.0	181.006	13.496	2503.857	0.47%	94.46%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	126.670	10.270	2514.126	0.36%	94.85%
39.0	107.953	8.008	2522.135	0.28%	95.15%
40.0	93.520	7.027	2529.161	0.24%	95.42%
41.0	81.231	6.223	2535.384	0.22%	95.65%
42.0	72.174	5.573	2540.958	0.19%	95.86%
43.0	64.148	5.050	2546.007	0.17%	96.05%
44.0	58.004	4.610	2550.618	0.16%	96.23%
45.0	52.960	4.264	2554.882	0.15%	96.39%
46.0	48.926	3.985	2558.867	0.14%	96.54%
47.0	45.570	3.758	2562.625	0.13%	96.68%
48.0	42.429	3.557	2566.182	0.12%	96.81%
49.0	39.841	3.378	2569.561	0.12%	96.94%
50.0	37.578	3.228	2572.789	0.11%	97.06%
51.0	35.551	3.094	2575.883	0.11%	97.18%
52.0	33.731	2.973	2578.856	0.10%	97.29%
53.0	32.084	2.863	2581.719	0.10%	97.40%
54.0	30.631	2.764	2584.483	0.10%	97.50%
55.0	29.330	2.677	2587.159	0.09%	97.61%
56.0	28.085	2.594	2589.754	0.09%	97.70%
57.0	26.971	2.517	2592.271	0.09%	97.80%
58.0	25.989	2.449	2594.72	0.08%	97.89%
59.0	25.082	2.388	2597.108	0.08%	97.98%
60.0	24.259	2.331	2599.439	0.08%	98.07%
61.0	23.511	2.280	2601.719	0.08%	98.15%
62.0	22.792	2.231	2603.95	0.08%	98.24%
63.0	22.135	2.185	2606.135	0.08%	98.32%
64.0	21.505	2.141	2608.276	0.07%	98.40%
65.0	20.896	2.098	2610.374	0.07%	98.48%
66.0	20.329	2.057	2612.431	0.07%	98.56%
67.0	19.789	2.017	2614.449	0.07%	98.64%
68.0	19.277	1.979	2616.428	0.07%	98.71%
69.0	18.744	1.940	2618.367	0.07%	98.78%
70.0	18.301	1.903	2620.27	0.07%	98.85%
71.0	17.810	1.866	2622.136	0.06%	98.93%
72.0	17.346	1.828	2623.964	0.06%	98.99%
73.0	16.911	1.791	2625.756	0.06%	99.06%
74.0	16.475	1.755	2627.511	0.06%	99.13%
75.0	16.032	1.718	2629.228	0.06%	99.19%

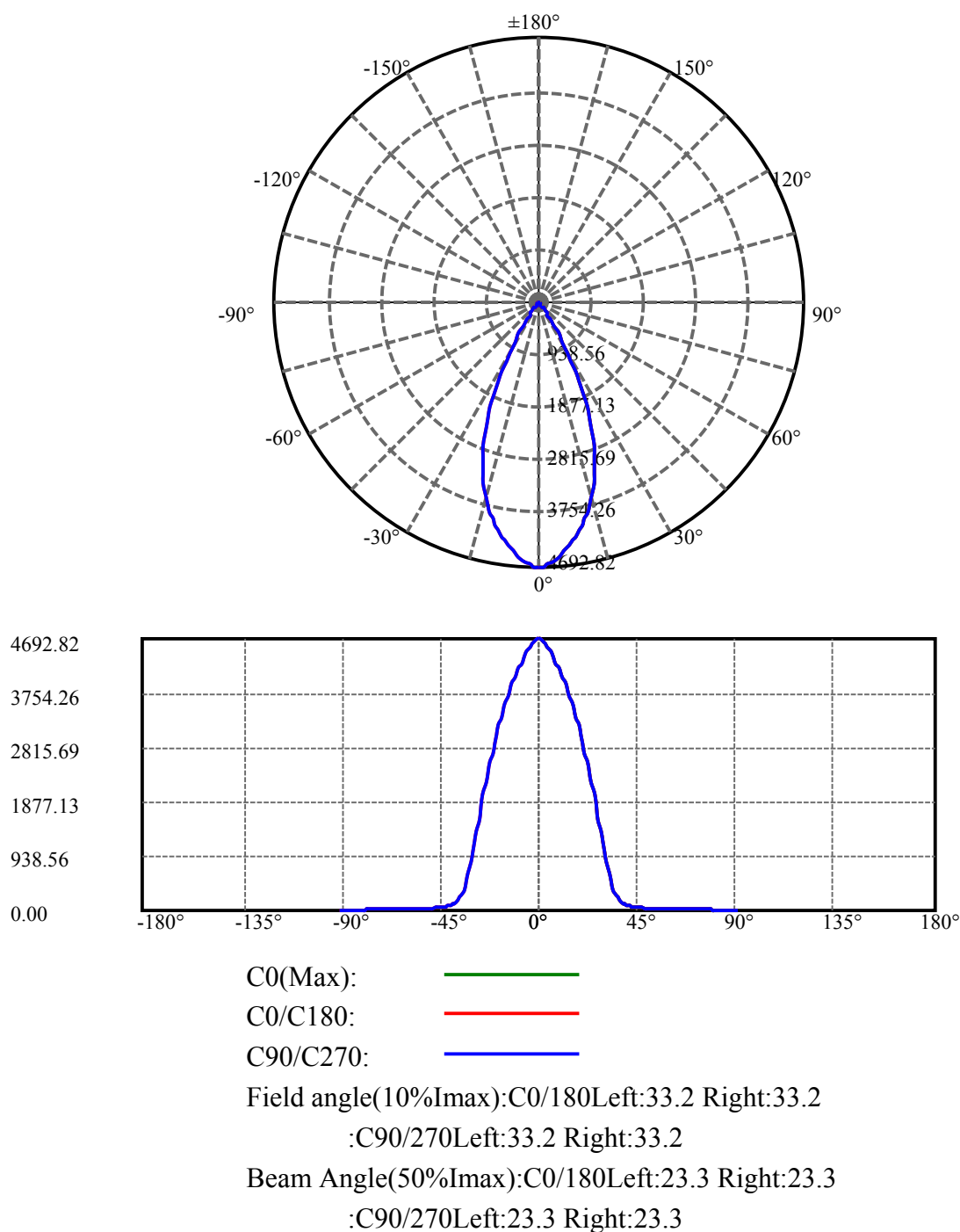
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.568	1.677	2630.906	0.06%	99.26%
77.0	15.167	1.639	2632.544	0.06%	99.32%
78.0	14.724	1.600	2634.144	0.06%	99.38%
79.0	14.295	1.559	2635.704	0.05%	99.44%
80.0	13.908	1.520	2637.224	0.05%	99.49%
81.0	13.520	1.483	2638.707	0.05%	99.55%
82.0	13.181	1.448	2640.155	0.05%	99.61%
83.0	12.821	1.414	2641.569	0.05%	99.66%
84.0	12.489	1.379	2642.948	0.05%	99.71%
85.0	12.185	1.347	2644.294	0.05%	99.76%
86.0	11.922	1.318	2645.612	0.05%	99.81%
87.0	11.652	1.290	2646.902	0.04%	99.86%
88.0	11.389	1.262	2648.164	0.04%	99.91%
89.0	11.181	1.237	2649.401	0.04%	99.95%
90.0	11.119	1.223	2650.624	0.04%	100.00%

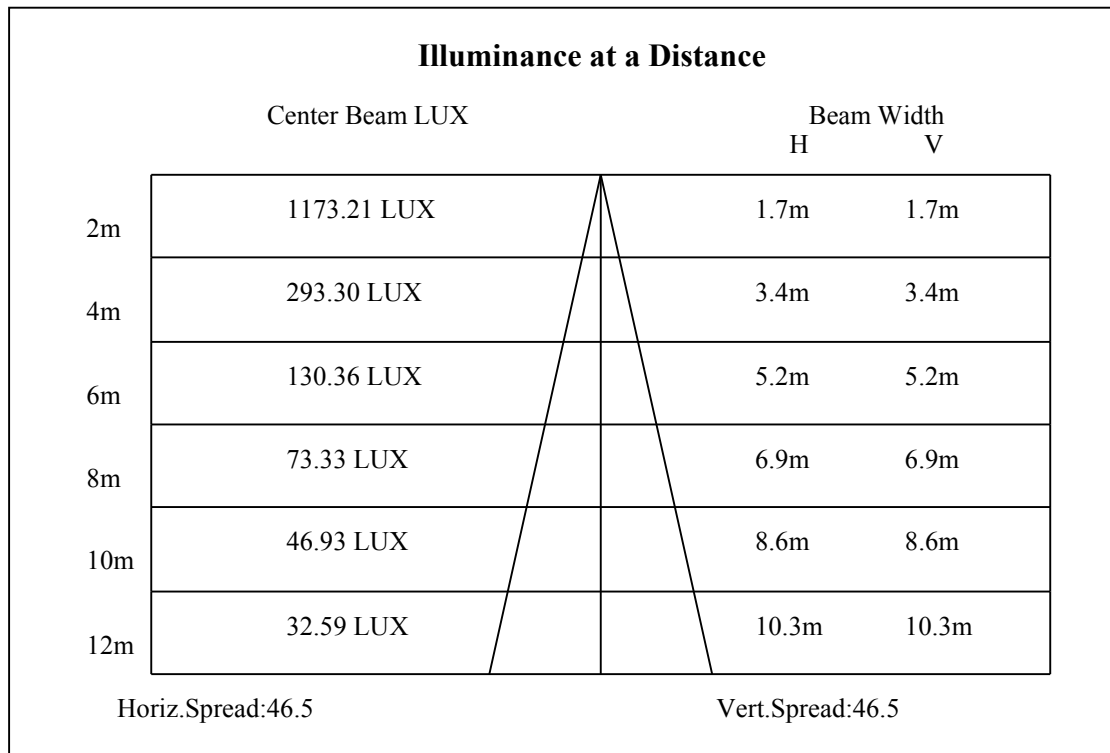
ZONAL LUMEN SUMMARY

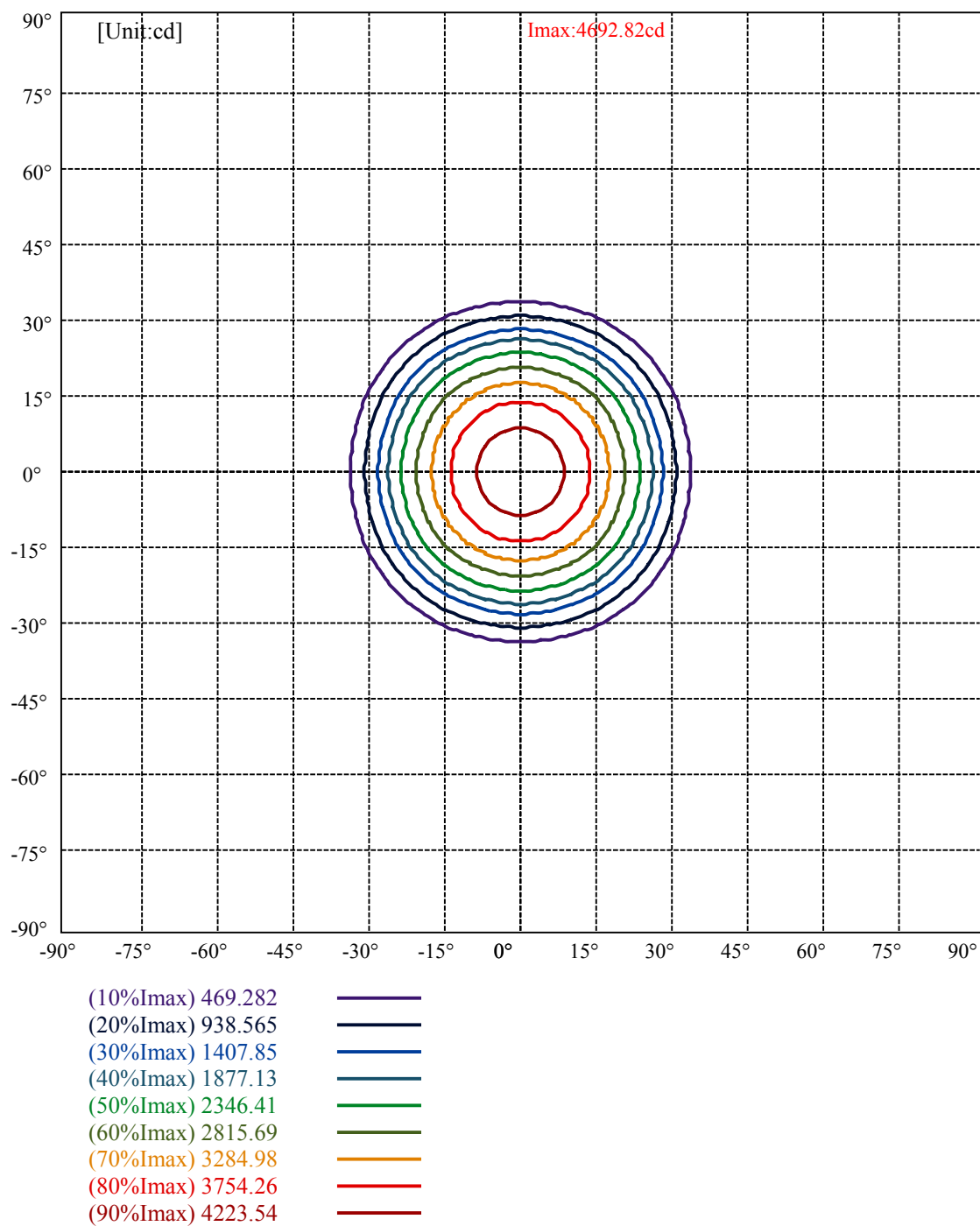
Zone	Lumens	%Lamp	%Fixt
0-30	2299.83	79.60%	86.77%
0-40	2529.16	87.54%	95.42%
0-60	2599.44	89.97%	98.07%
0-90	2649.40	91.70%	99.95%
0-120	2649.40	91.70%	99.95%
0-180	2650.62	91.74%	100.00%
60-90	49.96	1.73%	1.88%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.30	2120.50	73.39%	80.00%

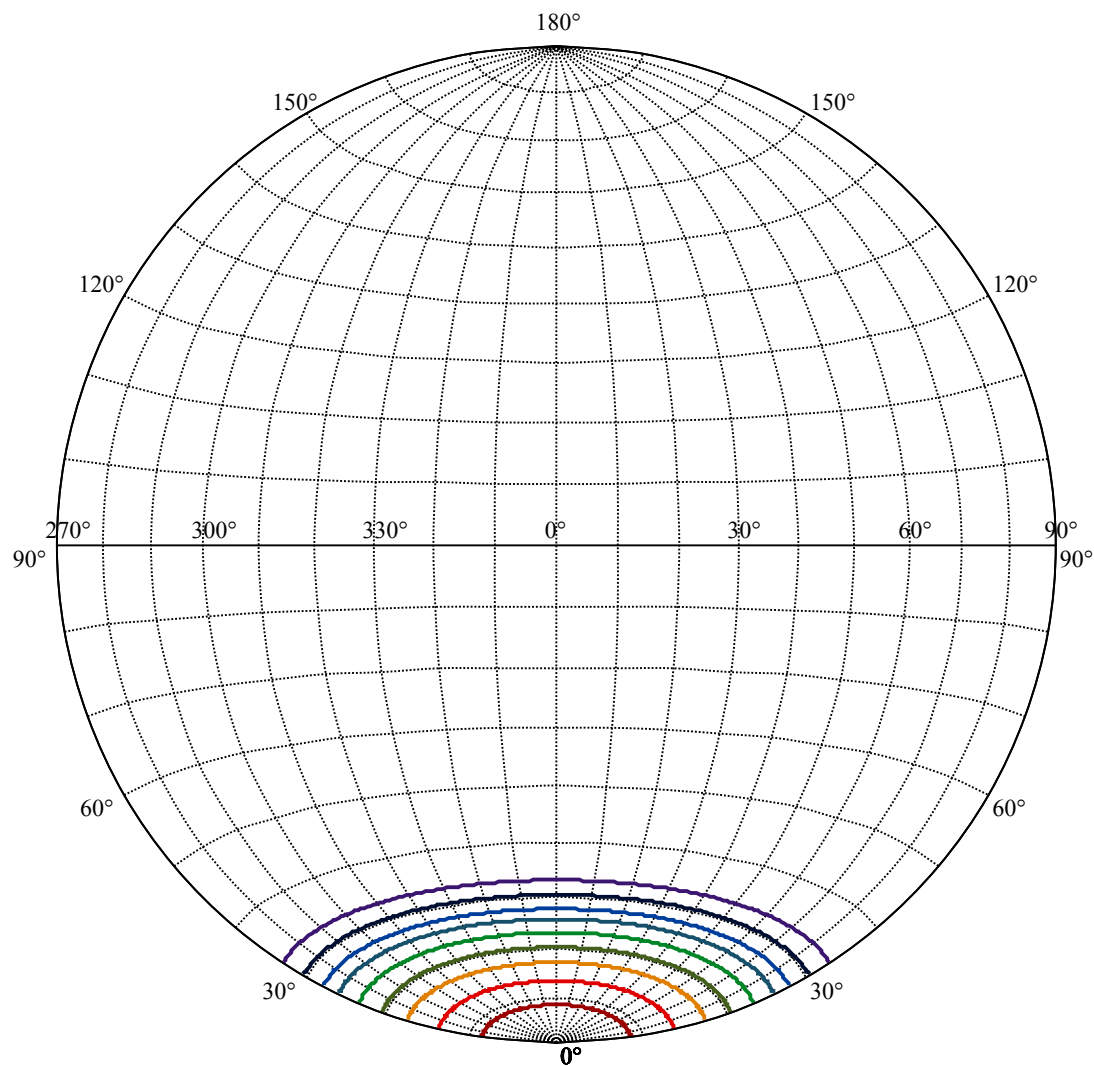
ZONAL LUMEN SUMMARY

0-10	416.02
10-20	991.01
20-30	892.80
30-40	229.33
40-50	43.63
50-60	26.65
60-70	20.83
70-80	16.95
80-90	12.18
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







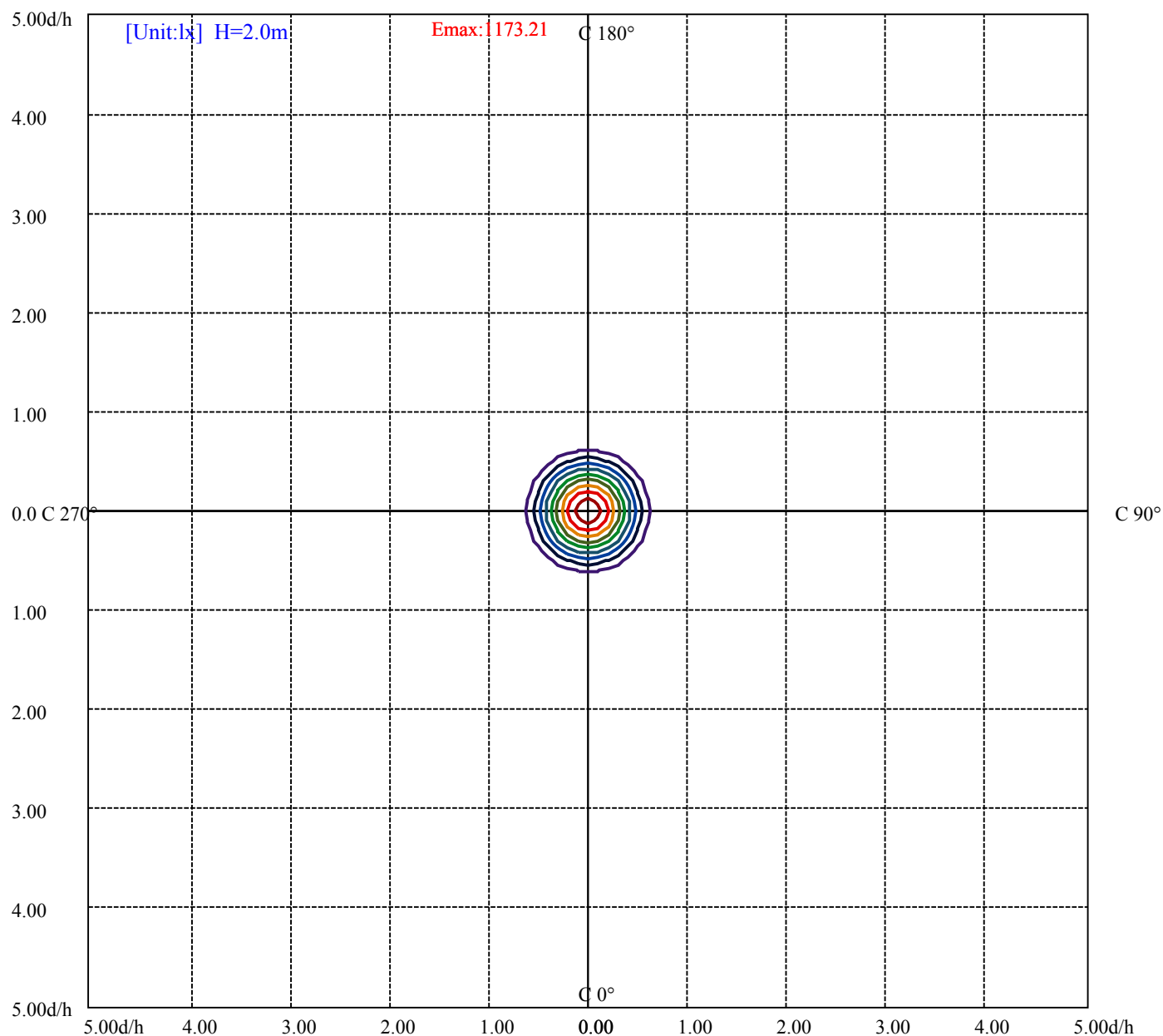


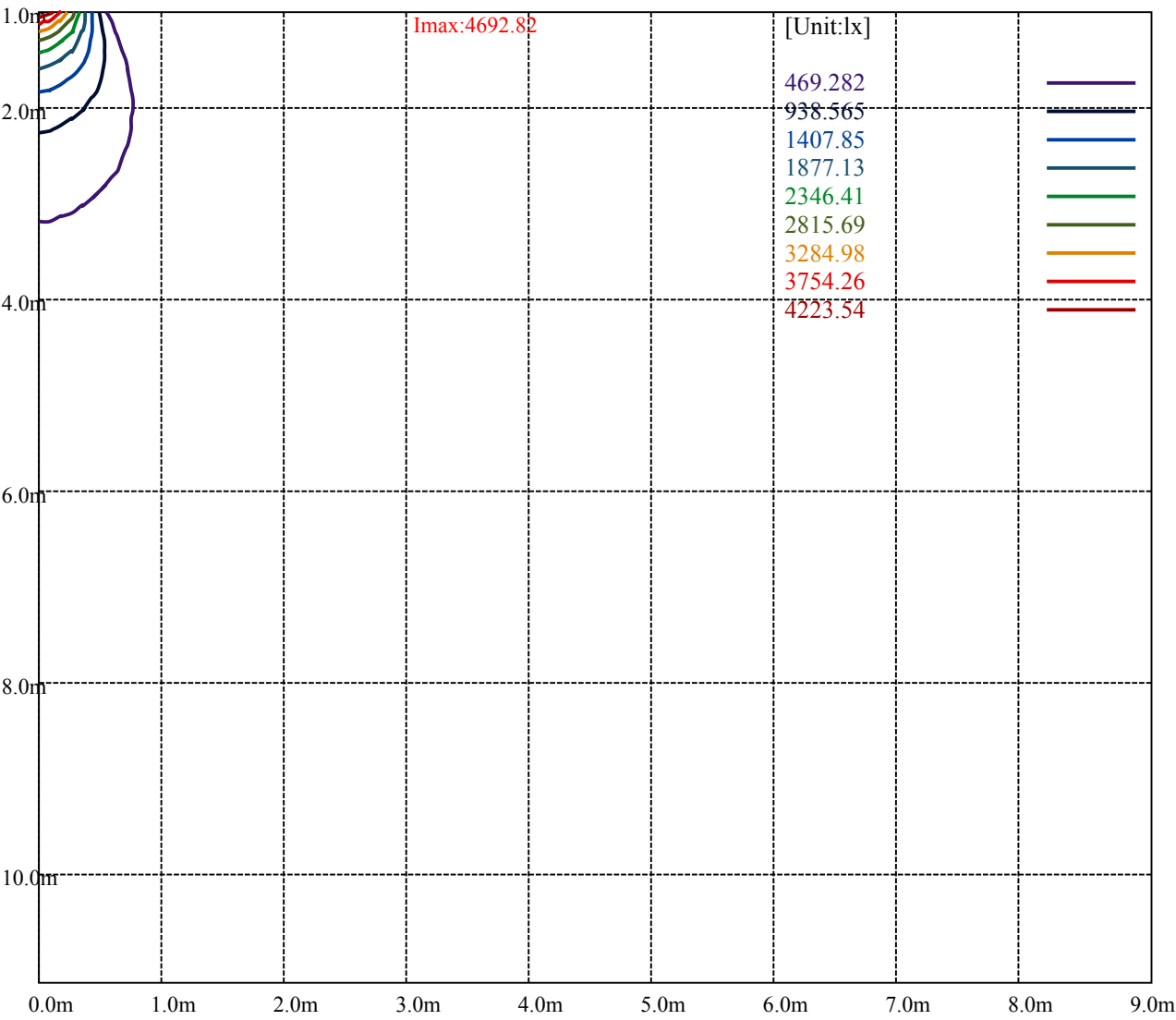
House

[Unit:cd]

Road

Imax:4692.82	
(10%Imax) 469.282	
(20%Imax) 938.565	
(30%Imax) 1407.85	
(40%Imax) 1877.13	
(50%Imax) 2346.41	
(60%Imax) 2815.69	
(70%Imax) 3284.98	
(80%Imax) 3754.26	
(90%Imax) 4223.54	

(10%E_{max}) 117.3205(20%E_{max}) 234.641(30%E_{max}) 351.9625(40%E_{max}) 469.2825(50%E_{max}) 586.6025(60%E_{max}) 703.9225(70%E_{max}) 821.245(80%E_{max}) 938.565(90%E_{max}) 1055.885



Luminance Table

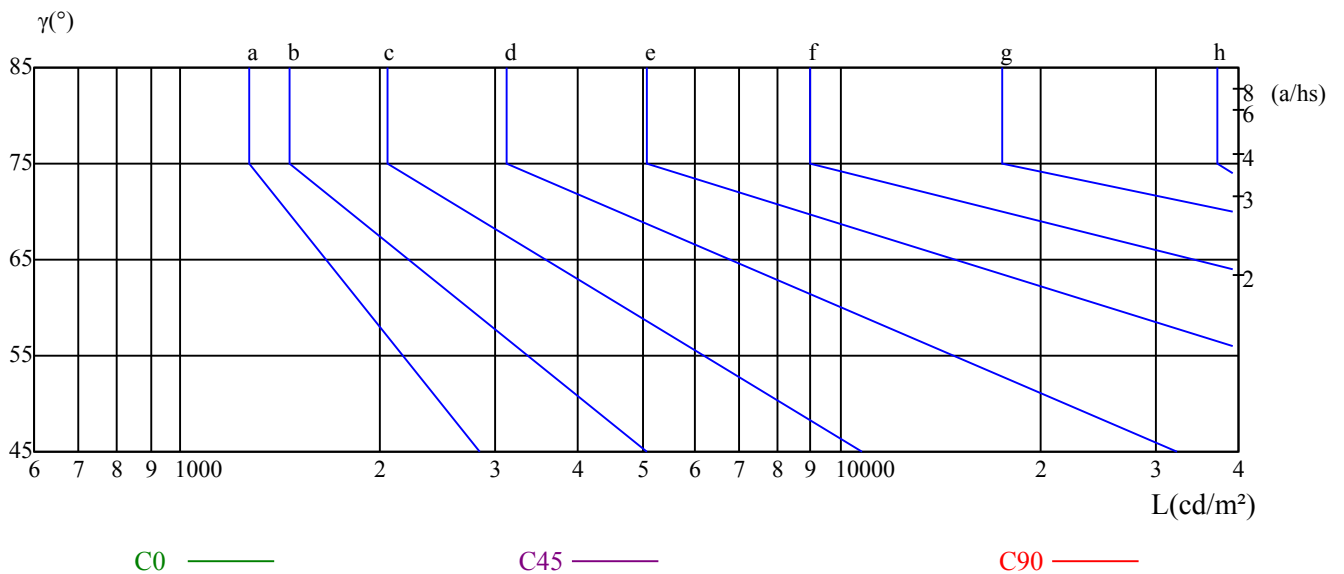
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

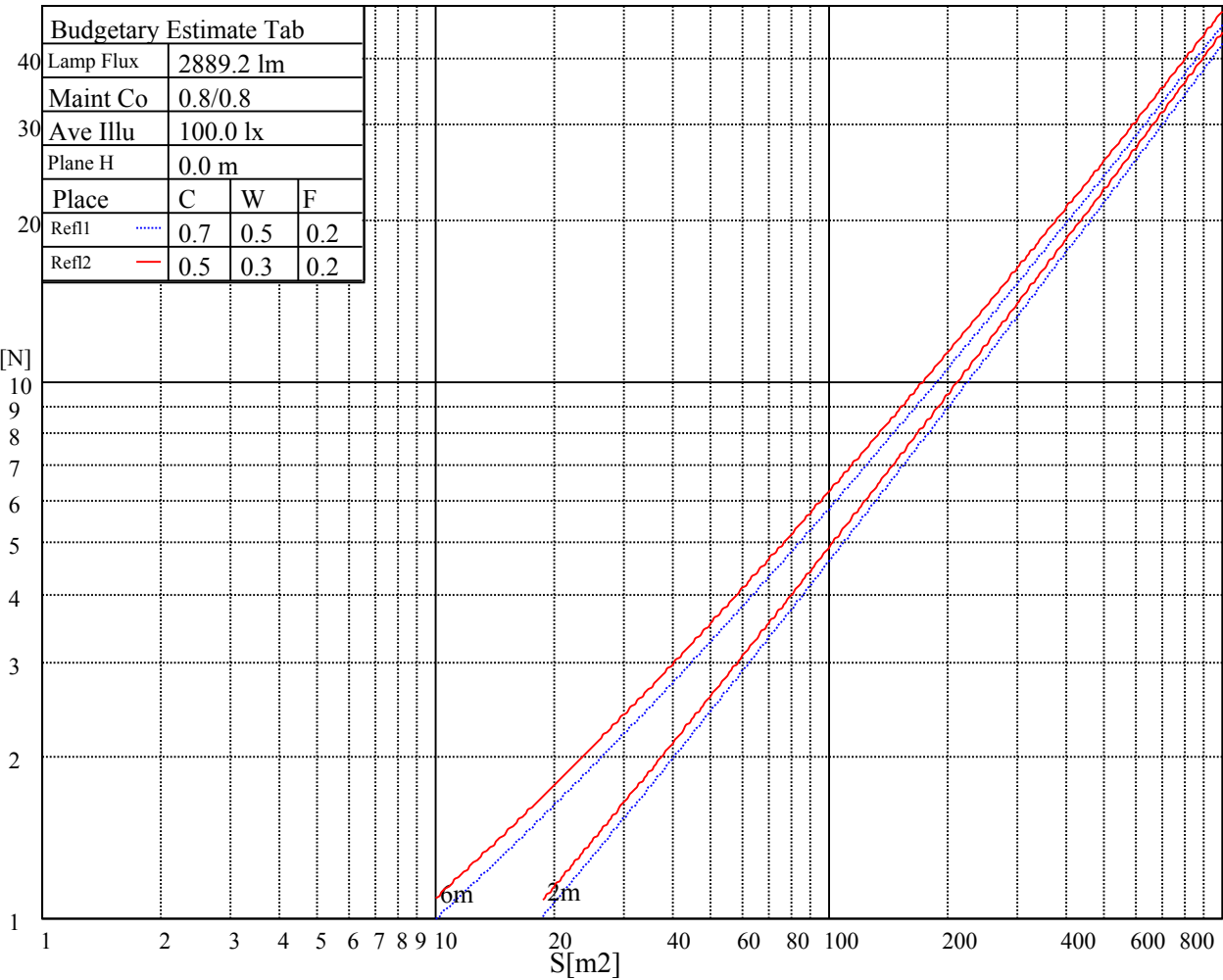
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

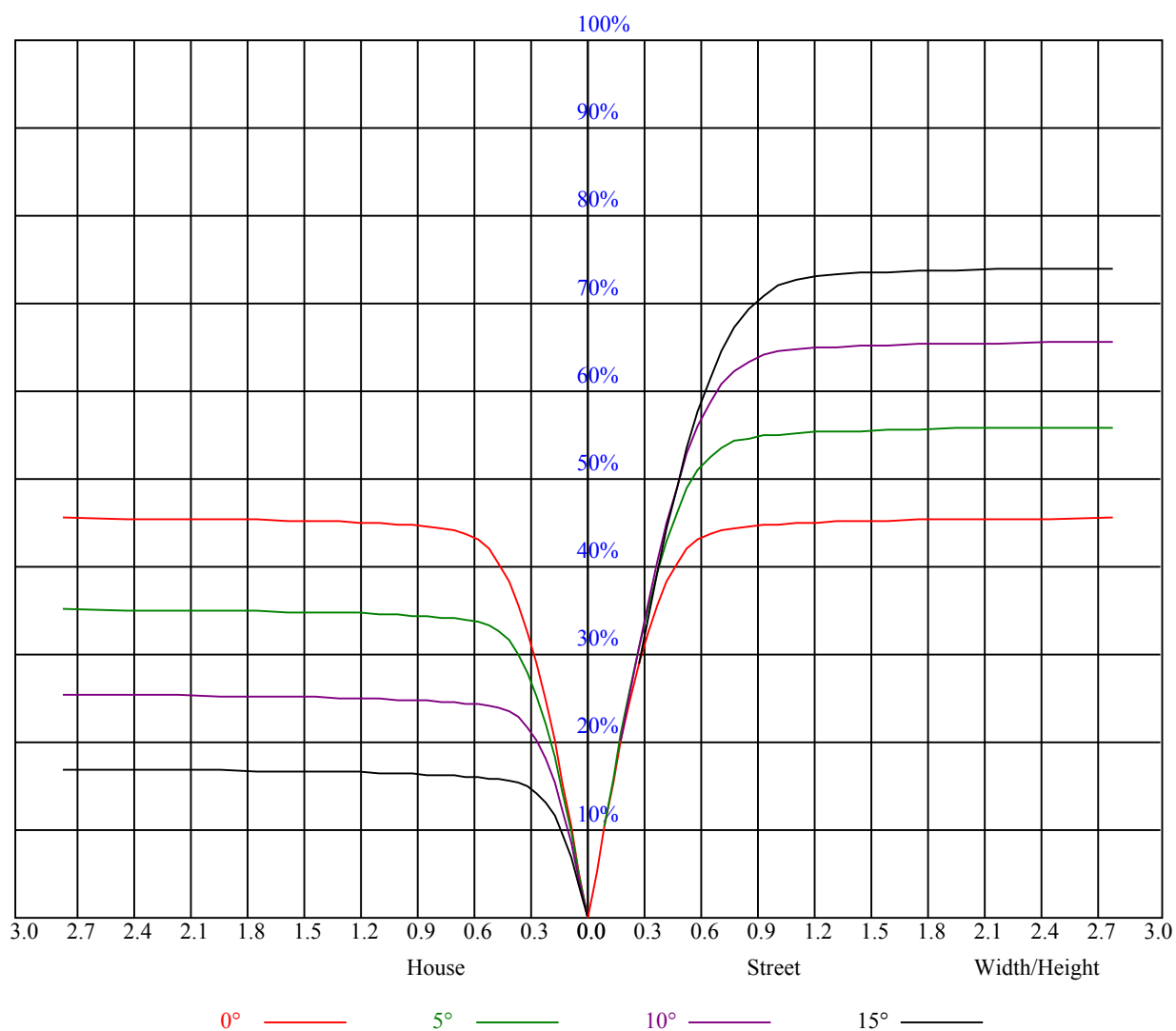


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.09	1.09	1.09	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	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.88	0.86	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.83	0.89	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
9	0.66	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54



Intensity data(cd)

Appendix Page: 17 Total:19

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	4695.04	4665.70	4627.51	4587.10	4510.71	4450.93	4396.68	4300.92	4214.01
45.0	4700.57	4689.50	4666.81	4620.31	4583.22	4525.65	4435.98	4373.99	4281.55
90.0	4688.39	4641.34	4589.31	4531.19	4470.30	4402.77	4317.53	4245.57	4181.36
135.0	4695.04	4678.98	4616.99	4562.19	4505.17	4448.16	4375.65	4289.30	4228.96
180.0	4695.04	4701.13	4681.20	4640.24	4584.33	4526.76	4470.30	4398.90	4318.08
225.0	4700.57	4681.75	4639.68	4586.54	4532.85	4477.50	4401.11	4329.70	4260.51
270.0	4672.90	4705.55	4698.91	4662.38	4608.13	4558.31	4507.94	4442.62	4353.51
315.0	4695.04	4706.11	4672.34	4634.15	4585.44	4520.67	4462.00	4386.16	4300.37
360.0	4695.04	4665.70	4627.51	4587.10	4510.71	4450.93	4396.68	4300.92	4214.01
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4132.64	4019.17	3923.96	3825.99	3689.82	3575.79	3450.13	3323.37	3157.87
45.0	4204.60	4137.07	4045.74	3931.16	3829.86	3724.69	3613.43	3455.12	3317.84
90.0	4111.61	4019.72	3937.25	3848.13	3749.04	3620.62	3506.04	3345.52	3212.11
135.0	4159.21	4068.43	3990.94	3896.84	3801.63	3700.89	3601.25	3451.80	3320.05
180.0	4251.10	4165.30	4085.04	4001.46	3916.77	3792.77	3692.58	3591.84	3472.28
225.0	4166.96	4079.50	3998.14	3889.64	3794.99	3696.46	3556.41	3435.19	3308.98
270.0	4279.88	4214.57	4144.82	4040.76	3958.83	3867.50	3743.51	3642.77	3500.51
315.0	4227.30	4124.89	4035.78	3952.19	3854.22	3741.85	3631.69	3520.43	3400.87
360.0	4132.64	4019.17	3923.96	3825.99	3689.82	3575.79	3450.13	3323.37	3157.87
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3015.61	2868.37	2721.68	2539.01	2390.11	2235.12	2025.33	1845.43	1604.65
45.0	3182.22	3001.77	2844.01	2687.36	2494.18	2334.21	2139.36	1972.75	1791.74
90.0	3068.75	2887.74	2742.16	2590.49	2397.31	2240.10	2061.31	1875.32	1626.23
135.0	3185.54	3046.61	2872.24	2723.34	2580.53	2433.29	2237.89	2072.38	1836.58
180.0	3311.75	3173.37	3010.07	2830.73	2677.40	2512.44	2315.94	2165.38	2010.39
225.0	3165.06	2978.52	2829.07	2674.08	2486.98	2342.51	2196.38	2046.37	1847.65
270.0	3386.48	3244.22	3101.41	2931.47	2780.91	2630.90	2472.59	2290.48	2135.49
315.0	3270.79	3087.01	2943.10	2766.52	2625.92	2480.89	2286.60	2134.93	1966.66
360.0	3015.61	2868.37	2721.68	2539.01	2390.11	2235.12	2025.33	1845.43	1604.65
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1099.21	1099.21	1005.11	779.71	611.66	462.76	314.85	230.60	179.46
45.0	1595.24	1349.47	1157.94	974.72	801.46	598.87	457.17	338.16	288.34
90.0	1070.76	1070.76	1023.54	839.88	628.76	477.54	350.50	237.69	184.27
135.0	1636.20	1431.39	1182.85	990.22	809.21	599.42	453.29	332.62	282.80
180.0	1798.94	1616.27	1429.73	1192.26	1000.18	816.41	648.69	467.13	348.12
225.0	1676.05	1103.86	1103.86	1055.21	870.27	653.73	503.27	375.52	254.07
270.0	1958.91	1775.13	1527.70	1331.75	1080.45	890.03	712.35	514.73	381.88
315.0	1730.85	1535.45	1080.00	1080.00	891.08	710.52	549.33	411.50	278.76
360.0	1099.21	1099.21	1005.11	779.71	611.66	462.76	314.85	230.60	179.46
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	149.18	121.89	106.28	93.88	83.36	72.46	65.48	58.45	53.86
45.0	288.34	144.03	121.50	101.52	89.29	79.04	68.64	62.05	56.68
90.0	144.36	122.17	105.23	89.29	79.04	70.52	63.66	56.68	52.14
135.0	282.80	139.82	117.85	101.68	88.90	76.17	68.20	61.44	54.97
180.0	298.30	298.30	143.20	120.50	103.62	87.62	77.38	67.14	60.50
225.0	191.30	154.27	129.42	110.98	93.88	82.53	73.29	63.93	58.23
270.0	298.85	298.85	154.60	129.97	112.26	95.32	84.19	75.11	67.37
315.0	209.35	168.72	135.28	115.80	97.81	86.19	76.55	68.36	60.28
360.0	149.18	121.89	106.28	93.88	83.36	72.46	65.48	58.45	53.86

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	50.04	46.00	43.23	40.80	38.53	36.15	34.54	33.05	31.72
45.0	51.26	47.60	44.56	41.85	38.91	36.87	34.98	33.38	31.61
90.0	48.55	45.33	42.57	39.58	37.42	35.04	33.38	31.83	30.11
135.0	50.76	46.44	43.51	40.91	38.03	36.09	34.26	32.66	30.89
180.0	55.41	51.20	46.83	43.95	41.46	39.30	36.81	34.98	33.32
225.0	52.64	48.93	45.89	42.51	40.13	37.92	35.98	33.82	32.27
270.0	59.84	55.02	50.81	46.50	43.56	40.91	38.08	36.04	34.21
315.0	55.19	50.87	47.16	43.34	40.68	38.36	36.37	34.10	32.55
360.0	50.04	46.00	43.23	40.80	38.53	36.15	34.54	33.05	31.72
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.22	29.12	28.06	26.96	26.07	25.19	24.24	23.58	22.92
45.0	30.33	29.23	27.90	26.96	25.91	25.13	24.36	23.69	22.86
90.0	28.84	27.73	26.40	25.52	24.63	23.69	22.97	22.31	21.75
135.0	29.61	28.45	27.34	26.07	25.19	24.36	23.47	22.75	22.09
180.0	31.83	30.17	28.95	27.57	26.63	25.68	24.69	23.97	23.25
225.0	30.89	29.61	28.17	27.23	26.24	25.19	24.47	23.75	22.92
270.0	32.22	30.78	29.45	28.34	27.01	26.07	25.24	24.36	23.53
315.0	31.11	29.56	28.40	27.12	26.24	25.35	24.63	23.69	23.03
360.0	30.22	29.12	28.06	26.96	26.07	25.19	24.24	23.58	22.92
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.14	21.53	20.98	20.43	19.76	19.26	18.76	18.27	17.71
45.0	22.25	21.70	21.15	20.48	19.98	19.54	18.93	18.43	17.99
90.0	21.20	20.54	20.04	19.48	18.93	18.43	17.88	17.49	17.05
135.0	21.42	20.87	20.37	19.76	19.32	18.88	18.27	17.88	17.44
180.0	22.58	21.81	21.26	20.70	20.20	19.60	19.10	18.65	18.16
225.0	22.31	21.70	20.98	20.43	19.93	19.43	18.88	18.43	17.99
270.0	22.81	22.14	21.37	20.81	20.15	19.65	19.21	18.76	18.21
315.0	22.36	21.75	21.03	20.54	20.04	19.43	18.93	18.49	17.93
360.0	22.14	21.53	20.98	20.43	19.76	19.26	18.76	18.27	17.71
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.21	16.72	16.27	15.83	15.28	14.89	14.45	13.95	13.56
45.0	17.44	16.99	16.61	16.05	15.67	15.28	14.78	14.34	13.95
90.0	16.55	16.16	15.78	15.39	14.89	14.56	14.17	13.78	13.40
135.0	17.05	16.66	16.16	15.78	15.33	14.95	14.56	14.12	13.73
180.0	17.71	17.33	16.83	16.50	16.00	15.61	15.22	14.83	14.34
225.0	17.55	17.05	16.66	16.16	15.72	15.33	14.83	14.39	14.06
270.0	17.77	17.38	16.94	16.44	16.00	15.61	15.06	14.67	14.28
315.0	17.49	16.99	16.55	16.11	15.67	15.11	14.72	14.28	13.95
360.0	17.21	16.72	16.27	15.83	15.28	14.89	14.45	13.95	13.56
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.28	12.90	12.62	12.29	12.01	11.79	11.51	11.18	11.29
45.0	13.56	13.23	12.84	12.45	12.12	11.85	11.62	11.40	11.07
90.0	13.06	12.73	12.40	12.12	11.79	11.57	11.35	11.07	10.96
135.0	13.34	13.06	12.68	12.40	12.07	11.79	11.51	11.29	11.02
180.0	13.95	13.56	13.23	12.90	12.57	12.23	11.96	11.68	11.46
225.0	13.62	13.28	12.95	12.57	12.29	12.07	11.73	11.46	11.18
270.0	13.84	13.51	13.06	12.73	12.40	12.12	11.85	11.57	11.35
315.0	13.51	13.17	12.79	12.45	12.23	11.96	11.68	11.46	11.13
360.0	13.28	12.90	12.62	12.29	12.01	11.79	11.51	11.18	11.29

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	11.40
45.0	11.13
90.0	11.02
135.0	10.96
180.0	11.13
225.0	11.07
270.0	11.02
315.0	11.24
360.0	11.40