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NATA

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231008-B009

Ballast type: AC

Test No: 20231008-C009

Voltage(V): 35.930

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.540

Lamp flux(lm): 2889.2

Power (W): 19.402

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2655.99, Efficiency(%): 91.93% , Luminous Efficacy(lm/W): 136.89

Central intensity(cd): 4723.683, Maximum intensity(cd): 4723.683

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.0

[C90/270]Total=46.0

Field angle(10%Imax): [C0/180]Total=67.6

[C90/270]Total=67.6

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(%): 91.93%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.227%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4723.682	0.000	0	0.00%	0.00%
1.0	4714.618	4.516	4.516	0.16%	0.17%
2.0	4686.250	13.493	18.009	0.47%	0.68%
3.0	4636.708	22.297	40.307	0.77%	1.52%
4.0	4578.794	30.847	71.154	1.07%	2.68%
5.0	4514.169	39.117	110.271	1.35%	4.15%
6.0	4439.857	47.056	157.327	1.63%	5.92%
7.0	4359.179	54.615	211.942	1.89%	7.98%
8.0	4285.628	61.869	273.812	2.14%	10.31%
9.0	4211.177	68.862	342.674	2.38%	12.90%
10.0	4123.719	75.428	418.101	2.61%	15.74%
11.0	4027.542	81.448	499.549	2.82%	18.81%
12.0	3933.510	87.026	586.575	3.01%	22.08%
13.0	3832.697	92.165	678.74	3.19%	25.56%
14.0	3719.845	96.672	775.412	3.35%	29.19%
15.0	3603.187	100.534	875.946	3.48%	32.98%
16.0	3478.365	103.765	979.711	3.59%	36.89%
17.0	3344.271	106.247	1085.957	3.68%	40.89%
18.0	3204.157	107.969	1193.927	3.74%	44.95%
19.0	3055.117	108.899	1302.825	3.77%	49.05%
20.0	2891.617	108.842	1411.667	3.77%	53.15%
21.0	2725.072	107.852	1519.519	3.73%	57.21%
22.0	2558.942	106.184	1625.703	3.68%	61.21%
23.0	2371.224	103.448	1729.151	3.58%	65.10%
24.0	2175.618	99.410	1828.562	3.44%	68.85%
25.0	1992.397	94.772	1923.333	3.28%	72.41%
26.0	1803.642	89.606	2012.939	3.10%	75.79%
27.0	1525.518	81.449	2094.388	2.82%	78.86%
28.0	1314.440	71.902	2166.289	2.49%	81.56%
29.0	1165.892	64.893	2231.182	2.25%	84.01%
30.0	1010.196	58.754	2289.936	2.03%	86.22%
31.0	840.012	51.489	2341.425	1.78%	88.16%
32.0	688.550	43.792	2385.216	1.52%	89.81%
33.0	557.065	36.696	2421.912	1.27%	91.19%
34.0	444.393	30.307	2452.219	1.05%	92.33%
35.0	352.845	24.759	2476.979	0.86%	93.26%
36.0	285.528	20.326	2497.304	0.70%	94.03%
37.0	242.497	17.221	2514.526	0.60%	94.67%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	186.320	14.313	2528.839	0.50%	95.21%
39.0	128.227	10.736	2539.575	0.37%	95.62%
40.0	101.761	8.021	2547.597	0.28%	95.92%
41.0	81.557	6.528	2554.124	0.23%	96.16%
42.0	68.306	5.445	2559.569	0.19%	96.37%
43.0	58.426	4.695	2564.264	0.16%	96.55%
44.0	50.898	4.126	2568.39	0.14%	96.70%
45.0	45.466	3.703	2572.093	0.13%	96.84%
46.0	41.211	3.390	2575.483	0.12%	96.97%
47.0	37.751	3.141	2578.623	0.11%	97.09%
48.0	34.921	2.938	2581.561	0.10%	97.20%
49.0	32.506	2.769	2584.33	0.10%	97.30%
50.0	30.479	2.626	2586.956	0.09%	97.40%
51.0	28.853	2.510	2589.467	0.09%	97.50%
52.0	27.365	2.412	2591.879	0.08%	97.59%
53.0	26.127	2.327	2594.206	0.08%	97.67%
54.0	25.013	2.254	2596.46	0.08%	97.76%
55.0	24.065	2.191	2598.651	0.08%	97.84%
56.0	23.193	2.135	2600.786	0.07%	97.92%
57.0	22.460	2.087	2602.873	0.07%	98.00%
58.0	21.761	2.045	2604.918	0.07%	98.08%
59.0	21.180	2.007	2606.926	0.07%	98.15%
60.0	20.585	1.973	2608.899	0.07%	98.23%
61.0	20.086	1.941	2610.84	0.07%	98.30%
62.0	19.616	1.913	2612.753	0.07%	98.37%
63.0	19.173	1.887	2614.639	0.07%	98.44%
64.0	18.765	1.862	2616.501	0.06%	98.51%
65.0	18.343	1.836	2618.337	0.06%	98.58%
66.0	17.997	1.813	2620.151	0.06%	98.65%
67.0	17.609	1.790	2621.941	0.06%	98.72%
68.0	17.263	1.767	2623.708	0.06%	98.78%
69.0	16.911	1.743	2625.451	0.06%	98.85%
70.0	16.565	1.719	2627.17	0.06%	98.91%
71.0	16.219	1.694	2628.865	0.06%	98.98%
72.0	15.893	1.670	2630.534	0.06%	99.04%
73.0	15.561	1.645	2632.179	0.06%	99.10%
74.0	15.208	1.618	2633.797	0.06%	99.16%
75.0	14.883	1.590	2635.387	0.06%	99.22%

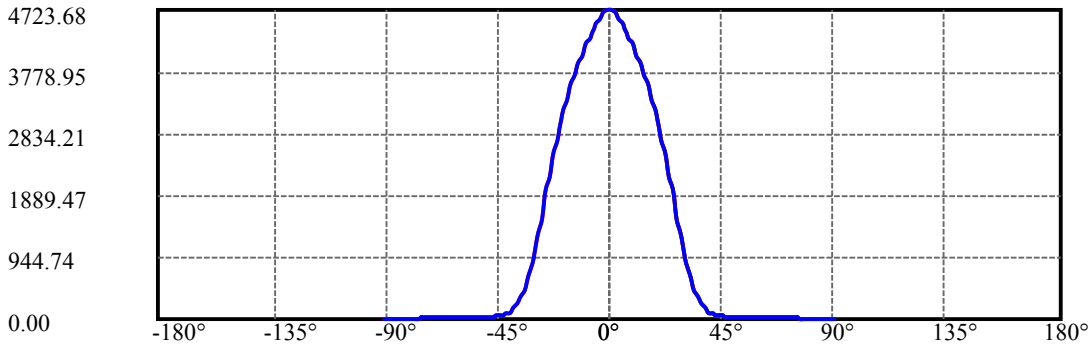
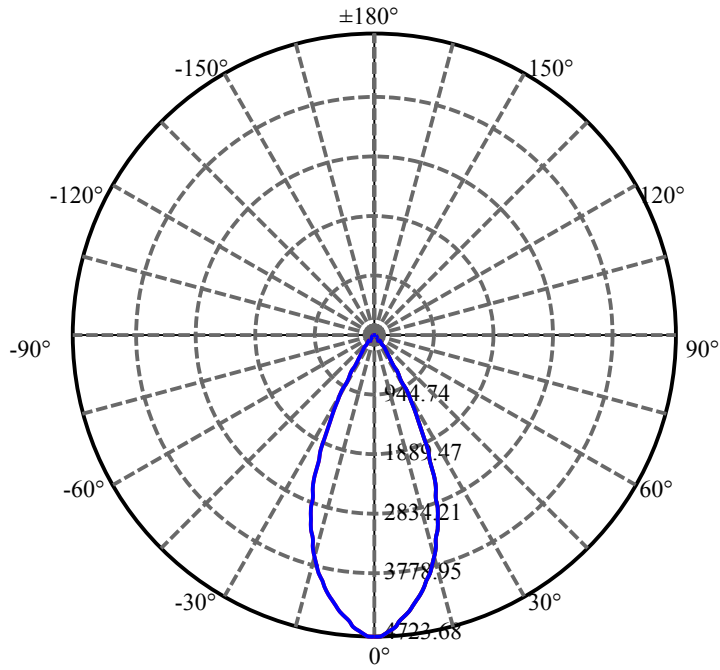
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.565	1.563	2636.95	0.05%	99.28%
77.0	14.226	1.535	2638.485	0.05%	99.34%
78.0	13.921	1.507	2639.992	0.05%	99.40%
79.0	13.610	1.479	2641.471	0.05%	99.45%
80.0	13.299	1.451	2642.922	0.05%	99.51%
81.0	12.994	1.422	2644.344	0.05%	99.56%
82.0	12.704	1.394	2645.737	0.05%	99.61%
83.0	12.427	1.366	2647.103	0.05%	99.67%
84.0	12.157	1.339	2648.442	0.05%	99.72%
85.0	11.901	1.313	2649.756	0.05%	99.77%
86.0	11.666	1.288	2651.044	0.04%	99.81%
87.0	11.458	1.266	2652.309	0.04%	99.86%
88.0	11.251	1.244	2653.553	0.04%	99.91%
89.0	11.105	1.225	2654.779	0.04%	99.95%
90.0	11.036	1.214	2655.993	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2289.94	79.26%	86.22%
0-40	2547.60	88.18%	95.92%
0-60	2608.90	90.30%	98.23%
0-90	2654.78	91.89%	99.95%
0-120	2654.78	91.89%	99.95%
0-180	2655.99	91.93%	100.00%
60-90	45.88	1.59%	1.73%
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%
0-27.42	2124.79	73.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	418.10
10-20	993.57
20-30	878.27
30-40	257.66
40-50	39.36
50-60	21.94
60-70	18.27
70-80	15.75
80-90	11.86
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: ———

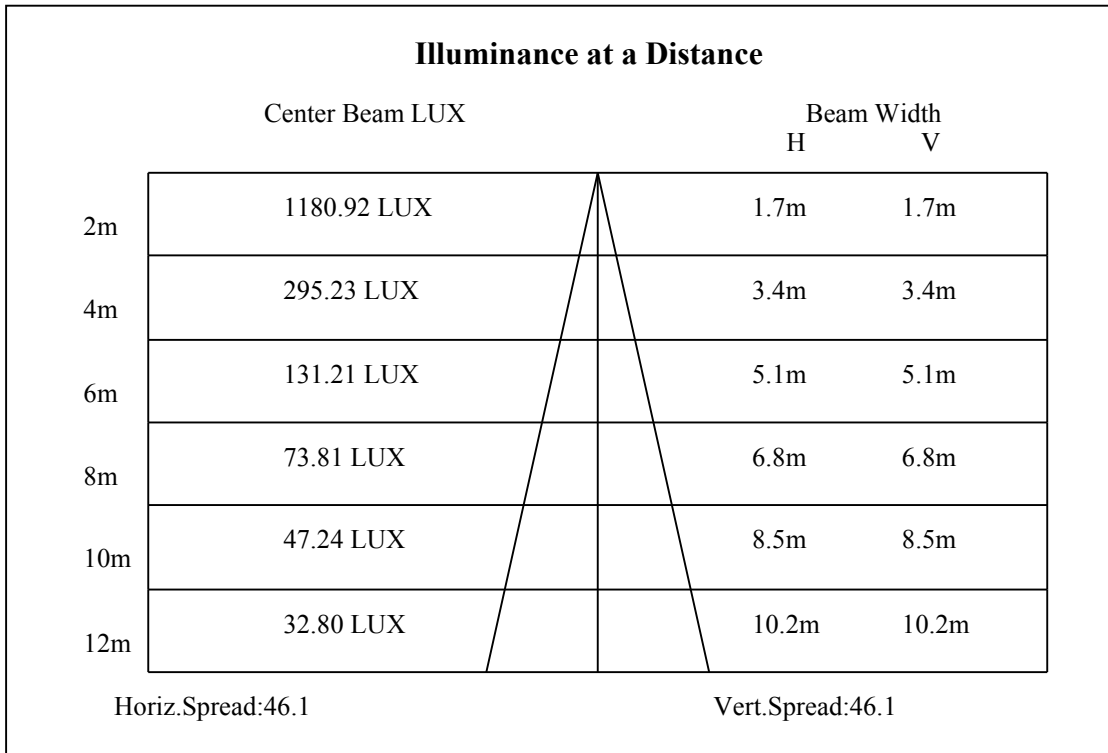
C90/C270: ———

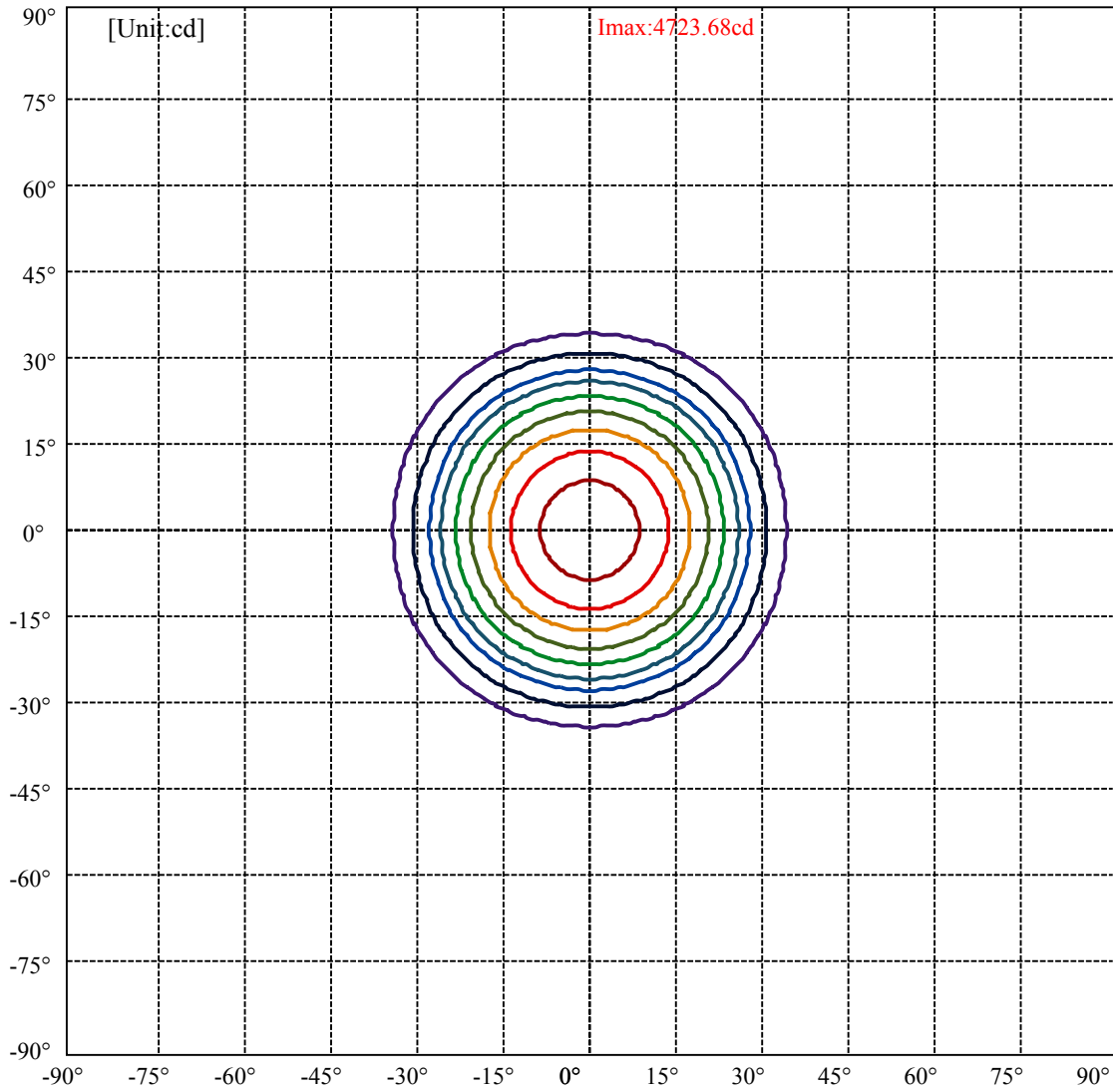
Field angle(10%Imax):C0/180Left:33.8 Right:33.8

:C90/270Left:33.8 Right:33.8

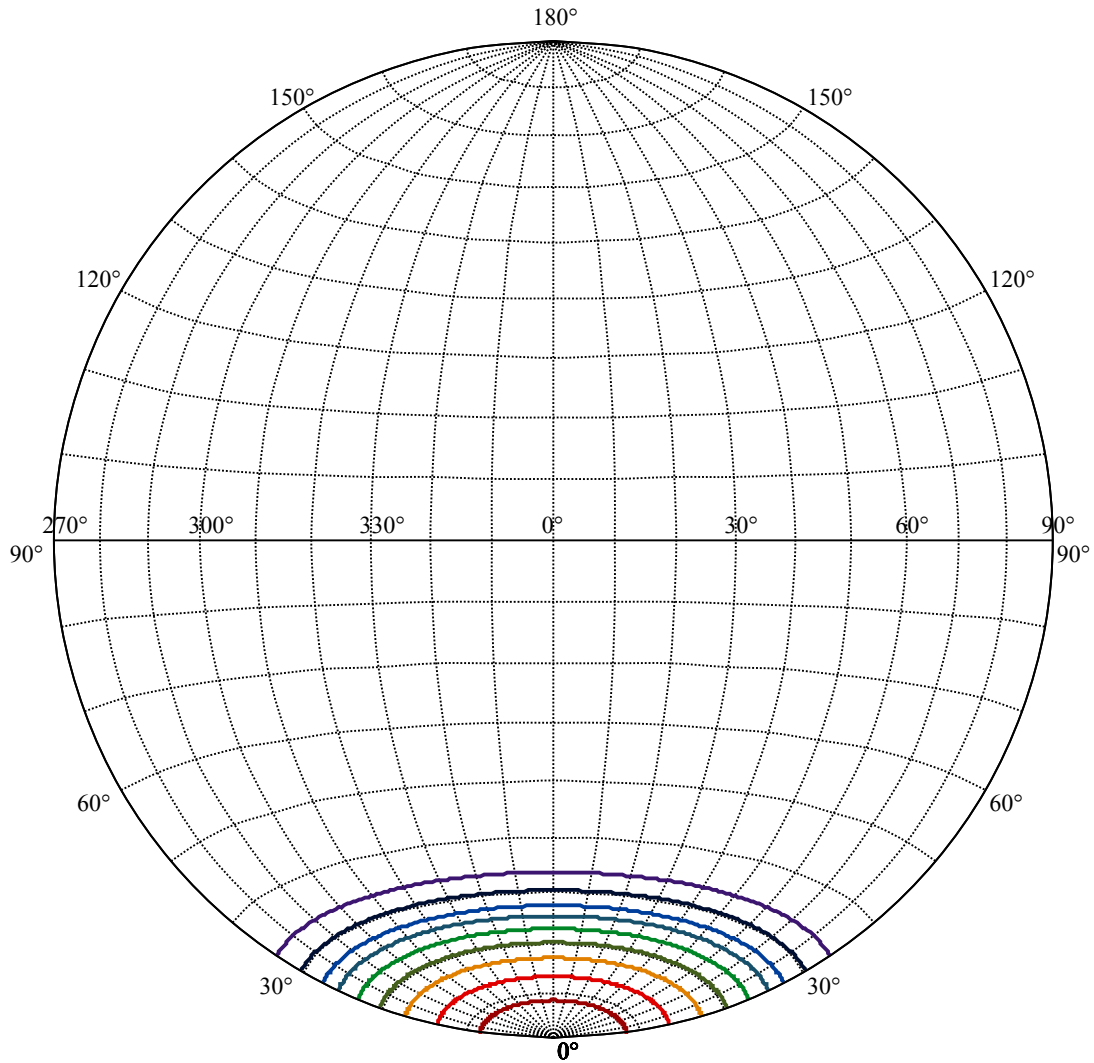
Beam Angle(50%Imax):C0/180Left:23.0 Right:23.0

:C90/270Left:23.0 Right:23.0





(10%Imax) 472.368	—
(20%Imax) 944.737	—
(30%Imax) 1417.1	—
(40%Imax) 1889.47	—
(50%Imax) 2361.84	—
(60%Imax) 2834.21	—
(70%Imax) 3306.58	—
(80%Imax) 3778.95	—
(90%Imax) 4251.31	—



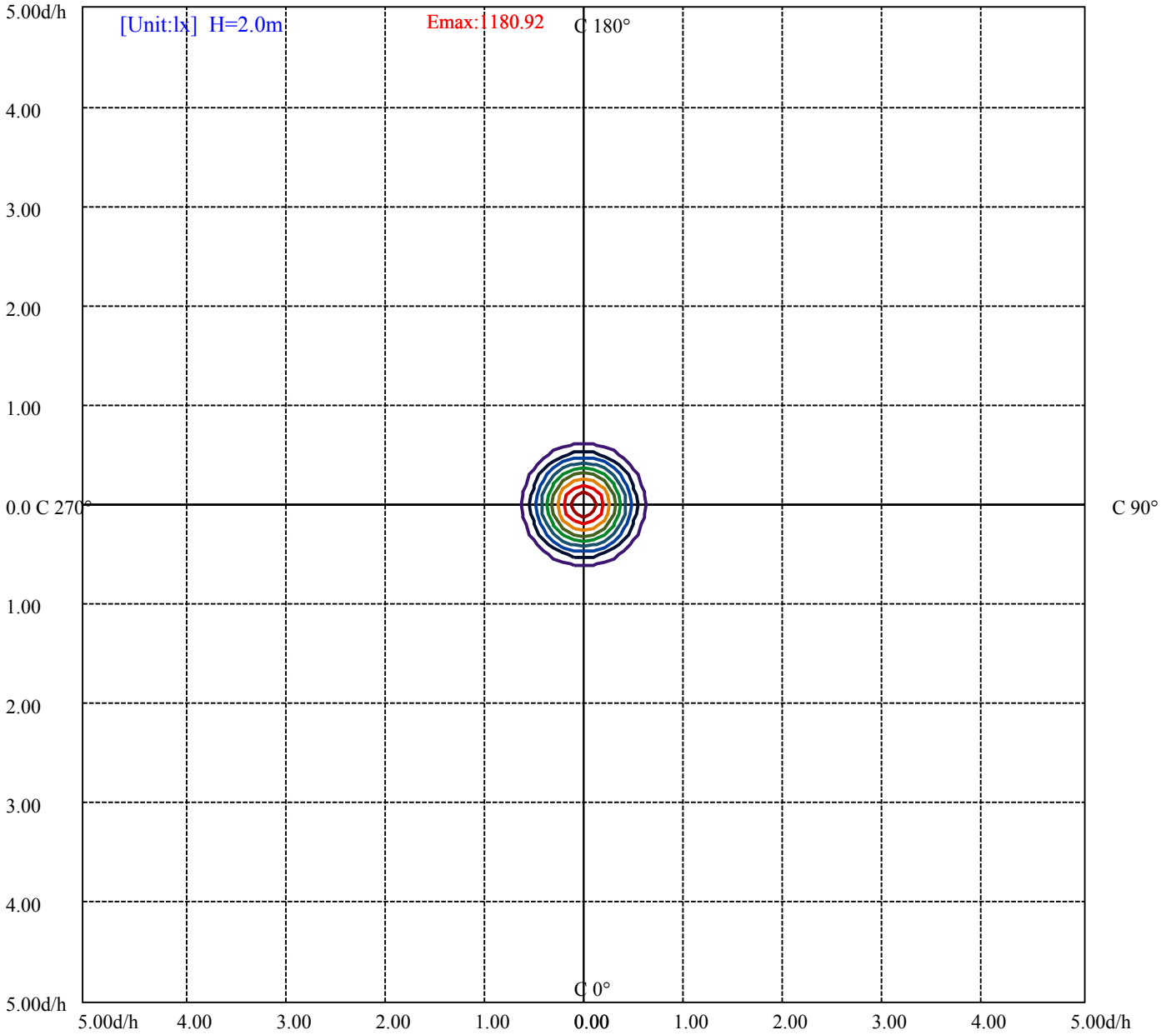
House

[Unit:cd]

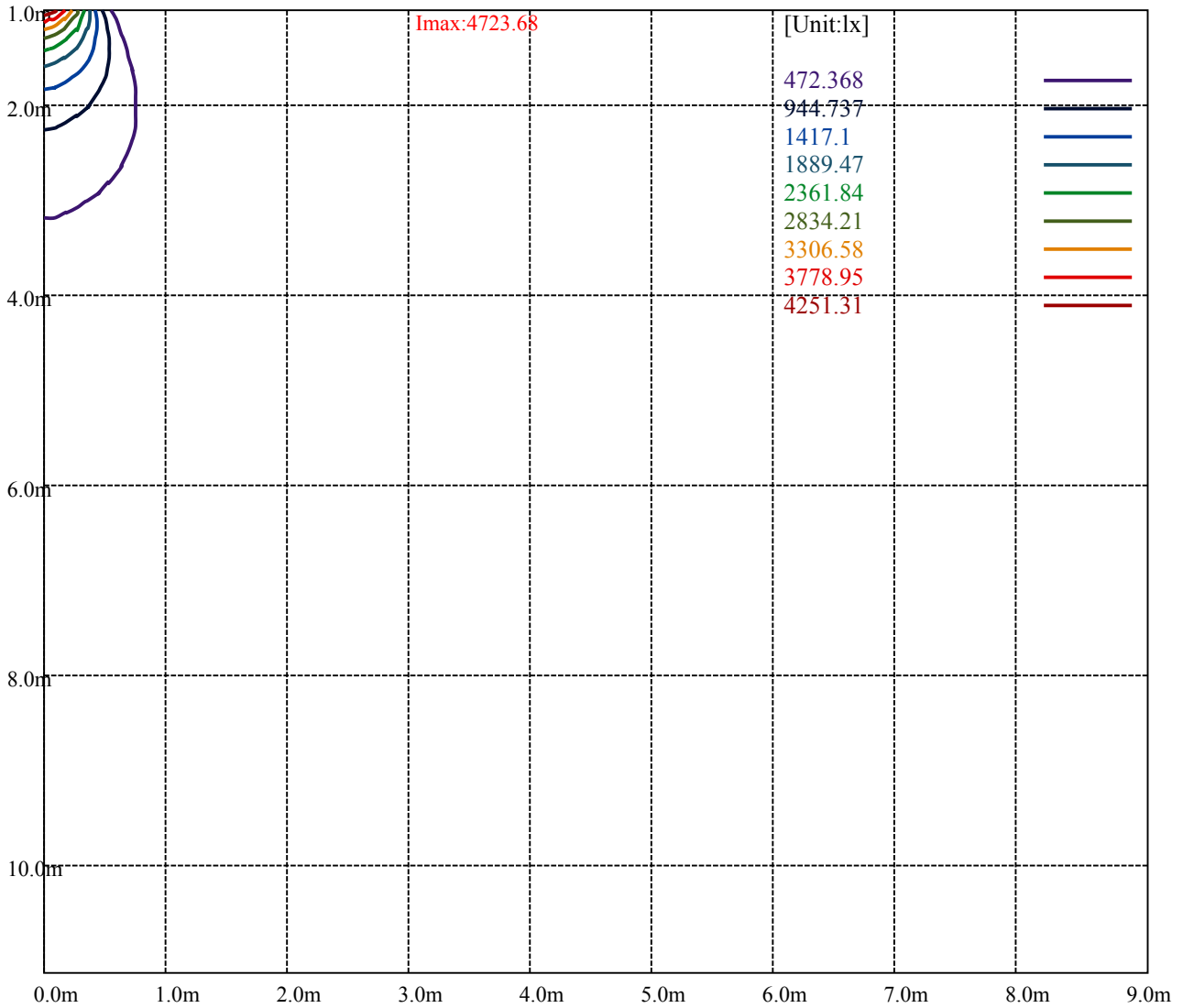
Road

Imax:4723.68

(10%Imax)	472.368	—
(20%Imax)	944.737	—
(30%Imax)	1417.1	—
(40%Imax)	1889.47	—
(50%Imax)	2361.84	—
(60%Imax)	2834.21	—
(70%Imax)	3306.58	—
(80%Imax)	3778.95	—
(90%Imax)	4251.31	—



(10%Emax) 118.092	—
(20%Emax) 236.184	—
(30%Emax) 354.275	—
(40%Emax) 472.3675	—
(50%Emax) 590.46	—
(60%Emax) 708.5525	—
(70%Emax) 826.645	—
(80%Emax) 944.735	—
(90%Emax) 1062.828	—



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

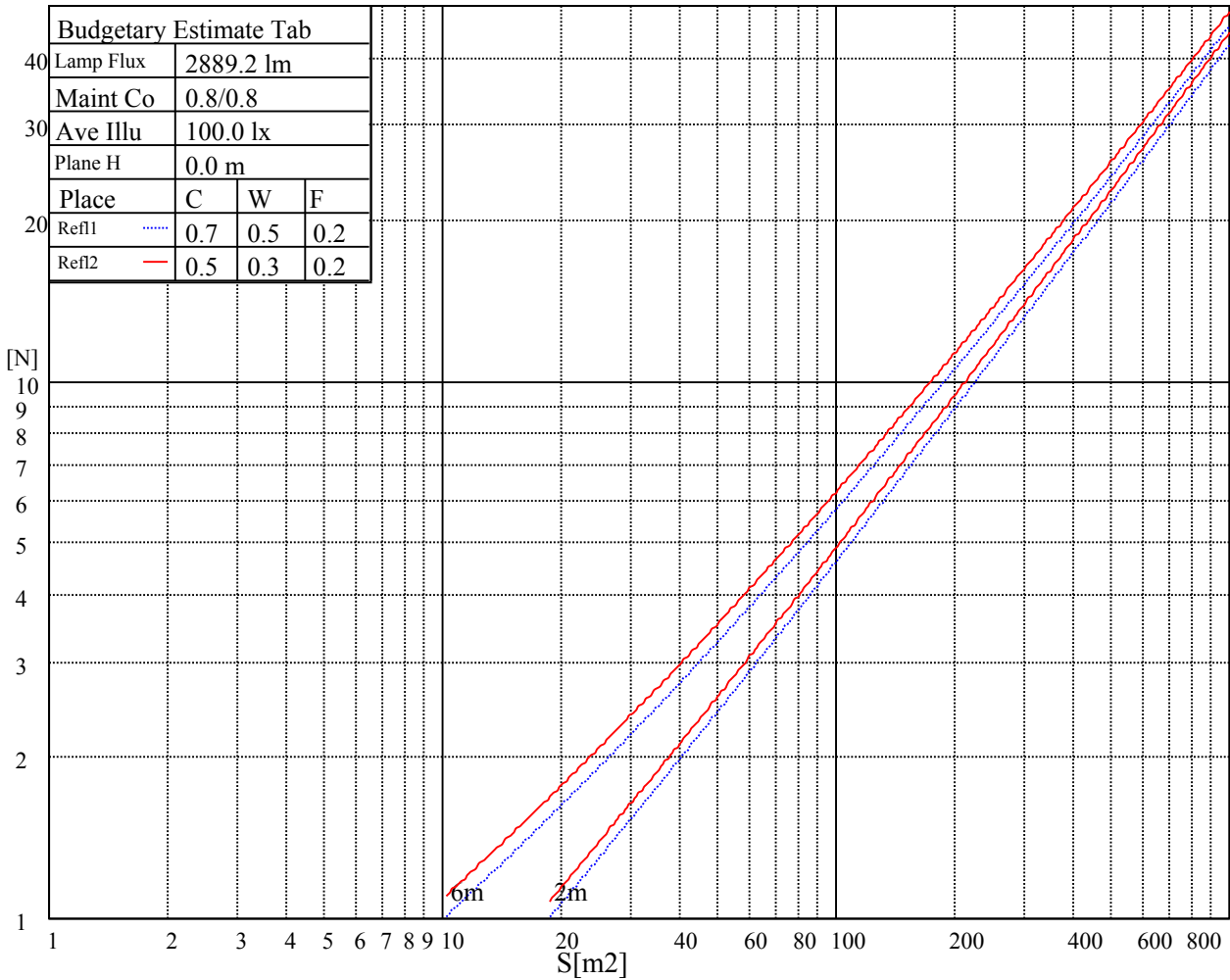
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

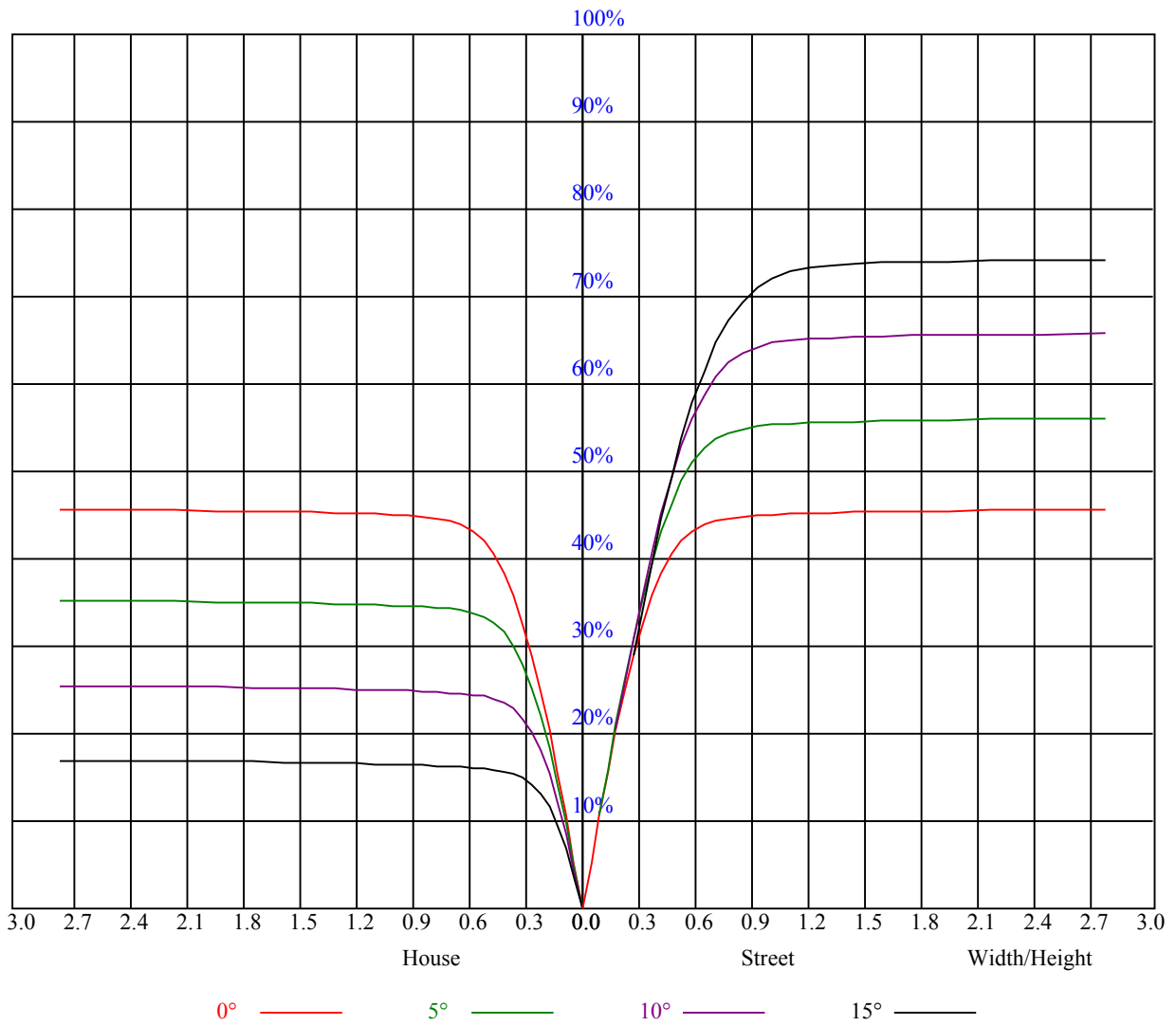


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	1.09	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	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	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	0.81	0.78	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	0.68	0.65	0.73	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.62
8	0.70	0.65	0.61	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.59
9	0.67	0.62	0.58	0.66	0.62	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.54



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	4702.79	4694.48	4654.63	4594.85	4533.40	4454.80	4389.49	4314.76	4223.98
45.0	4742.64	4708.88	4700.57	4652.41	4591.53	4528.42	4448.71	4360.15	4297.60
90.0	4709.98	4671.79	4624.74	4547.80	4478.05	4407.75	4329.15	4255.53	4190.77
135.0	4739.32	4708.32	4674.56	4623.08	4545.03	4469.75	4402.77	4308.12	4245.01
180.0	4702.79	4737.11	4727.14	4674.56	4623.63	4569.94	4495.21	4419.38	4346.86
225.0	4742.64	4724.37	4666.81	4634.70	4579.35	4504.07	4432.66	4356.27	4283.76
270.0	4709.98	4736.55	4739.87	4694.48	4662.38	4616.99	4546.14	4456.46	4380.08
315.0	4739.32	4735.45	4701.68	4671.79	4616.99	4561.63	4474.73	4402.77	4316.97
360.0	4702.79	4694.48	4654.63	4594.85	4533.40	4454.80	4389.49	4314.76	4223.98
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4136.52	4044.08	3934.48	3838.72	3700.33	3580.77	3452.35	3325.04	3160.64
45.0	4227.30	4141.50	4028.03	3937.25	3843.15	3728.01	3583.54	3457.88	3322.27
90.0	4122.13	4020.28	3933.37	3845.91	3739.08	3605.12	3494.97	3377.62	3245.33
135.0	4161.43	4088.92	4005.88	3905.14	3817.13	3716.39	3605.68	3456.22	3332.23
180.0	4277.67	4200.18	4112.72	4018.62	3900.71	3808.83	3707.53	3601.25	3447.92
225.0	4212.91	4104.97	4012.53	3900.71	3808.27	3710.30	3571.36	3449.58	3323.37
270.0	4309.22	4237.26	4142.61	4057.92	3977.10	3861.97	3765.10	3630.03	3504.93
315.0	4242.24	4152.57	4050.72	3963.82	3875.80	3747.38	3644.98	3529.29	3417.48
360.0	4136.52	4044.08	3934.48	3838.72	3700.33	3580.77	3452.35	3325.04	3160.64
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3021.14	2877.78	2728.32	2528.50	2358.01	2182.54	1956.69	1772.37	1586.38
45.0	3186.10	3015.06	2862.83	2667.43	2503.03	2331.44	2105.04	1918.50	1732.51
90.0	3065.43	2917.63	2715.04	2550.64	2380.70	2162.61	1977.73	1792.85	1603.54
135.0	3205.47	3061.00	2874.46	2726.11	2570.01	2356.90	2177.00	1952.27	1766.28
180.0	3317.84	3180.56	3027.23	2831.83	2664.11	2458.20	2301.55	2138.25	1923.48
225.0	3177.24	2993.47	2846.23	2698.43	2543.44	2350.81	2184.75	2007.62	1828.27
270.0	3392.01	3267.47	3101.41	2965.24	2816.34	2654.15	2449.34	2285.49	2106.70
315.0	3268.02	3127.98	2977.41	2832.39	2635.88	2473.14	2252.84	2071.83	1881.97
360.0	3021.14	2877.78	2728.32	2528.50	2358.01	2182.54	1956.69	1772.37	1586.38
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1088.09	1088.09	1004.39	810.38	673.04	550.93	446.54	338.65	267.30
45.0	1542.10	1309.61	1132.48	970.29	819.18	651.46	537.43	436.68	331.51
90.0	1081.89	1081.89	993.38	828.53	653.01	534.33	433.81	329.63	260.99
135.0	1573.65	1382.68	1147.42	971.95	810.32	666.96	516.39	416.76	334.28
180.0	1749.67	1563.68	1382.12	1157.39	984.13	823.61	680.79	531.89	433.92
225.0	1600.22	1096.17	1096.17	1012.09	850.73	674.71	556.91	454.23	367.27
270.0	1918.50	1682.69	1492.28	1252.04	1063.84	890.03	696.29	567.32	458.27
315.0	1650.04	1310.72	1078.90	1078.90	865.84	716.39	588.35	479.97	369.21
360.0	1088.09	1088.09	1004.39	810.38	673.04	550.93	446.54	338.65	267.30
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	210.34	165.18	122.22	97.37	79.49	66.54	55.63	49.43	43.62
45.0	296.09	296.09	147.19	115.58	92.33	71.96	61.00	53.31	47.49
90.0	206.30	153.44	121.45	93.16	77.00	65.37	57.07	50.93	44.73
135.0	282.25	282.25	152.55	121.83	93.77	77.50	65.76	55.69	49.76
180.0	349.78	295.53	295.53	151.23	119.29	94.77	76.66	61.50	53.42
225.0	275.49	216.76	169.99	133.68	100.13	80.87	66.98	57.46	49.32
270.0	366.39	292.21	292.21	170.99	137.55	105.61	87.29	73.84	63.77
315.0	297.58	238.52	189.42	141.98	114.53	89.84	76.06	65.26	55.08
360.0	210.34	165.18	122.22	97.37	79.49	66.54	55.63	49.43	43.62

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	39.91	36.87	33.77	31.72	30.00	28.12	26.90	25.79	24.85
45.0	41.90	38.36	35.43	32.99	30.50	28.84	27.40	25.96	24.96
90.0	40.85	37.70	34.49	32.44	30.67	29.12	27.46	26.18	24.91
135.0	45.11	40.46	37.36	34.76	32.11	30.39	28.84	27.57	26.18
180.0	47.60	43.12	38.80	35.98	33.60	31.11	29.45	27.95	26.63
225.0	44.62	39.85	36.87	34.32	31.61	29.84	28.23	26.63	25.46
270.0	54.47	48.60	44.23	39.80	36.81	33.77	31.72	30.00	28.51
315.0	49.26	44.73	41.07	37.36	34.76	32.66	30.83	28.84	27.51
360.0	39.91	36.87	33.77	31.72	30.00	28.12	26.90	25.79	24.85
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.75	22.97	22.25	21.70	20.98	20.48	19.87	19.48	19.04
45.0	24.08	23.14	22.42	21.70	21.09	20.59	20.15	19.60	19.15
90.0	23.97	23.14	22.25	21.64	21.03	20.54	19.93	19.48	19.10
135.0	25.24	24.36	23.53	22.64	22.03	21.31	20.70	20.26	19.71
180.0	25.30	24.36	23.36	22.64	22.03	21.37	20.81	20.37	19.93
225.0	24.52	23.69	22.69	22.03	21.48	20.98	20.37	19.93	19.43
270.0	26.90	25.74	24.80	23.91	22.97	22.31	21.70	20.98	20.48
315.0	26.35	25.13	24.24	23.41	22.47	21.86	21.15	20.59	20.09
360.0	23.75	22.97	22.25	21.70	20.98	20.48	19.87	19.48	19.04
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.54	18.21	17.82	17.49	17.10	16.77	16.50	16.16	15.78
45.0	18.76	18.43	17.99	17.71	17.38	17.05	16.72	16.38	16.00
90.0	18.71	18.38	17.93	17.60	17.21	16.88	16.50	16.11	15.83
135.0	19.32	18.88	18.54	18.16	17.82	17.44	17.10	16.72	16.38
180.0	19.43	19.04	18.60	18.27	17.82	17.49	17.16	16.83	16.50
225.0	19.04	18.65	18.21	17.88	17.55	17.21	16.77	16.50	16.16
270.0	19.98	19.43	18.99	18.60	18.10	17.77	17.38	16.99	16.66
315.0	19.60	19.10	18.65	18.27	17.88	17.49	17.16	16.83	16.44
360.0	18.54	18.21	17.82	17.49	17.10	16.77	16.50	16.16	15.78
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.50	15.22	14.83	14.56	14.23	13.89	13.62	13.34	13.01
45.0	15.67	15.39	15.06	14.72	14.45	14.17	13.84	13.56	13.28
90.0	15.50	15.11	14.83	14.50	14.23	13.84	13.56	13.28	13.01
135.0	16.05	15.67	15.28	14.89	14.61	14.28	14.00	13.62	13.34
180.0	16.16	15.83	15.50	15.22	14.83	14.56	14.23	13.95	13.56
225.0	15.89	15.50	15.22	14.89	14.50	14.23	13.95	13.51	13.28
270.0	16.33	16.00	15.61	15.28	15.00	14.61	14.23	13.95	13.56
315.0	16.05	15.78	15.33	15.00	14.67	14.23	13.95	13.67	13.34
360.0	15.50	15.22	14.83	14.56	14.23	13.89	13.62	13.34	13.01
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.73	12.45	12.23	12.01	11.73	11.57	11.40	11.18	11.13
45.0	12.95	12.73	12.45	12.18	11.90	11.62	11.46	11.24	11.02
90.0	12.68	12.40	12.12	11.90	11.62	11.40	11.18	11.02	10.96
135.0	13.06	12.68	12.34	12.12	11.85	11.57	11.35	11.18	10.96
180.0	13.28	12.95	12.68	12.34	12.12	11.90	11.68	11.40	11.24
225.0	12.95	12.73	12.45	12.18	11.96	11.73	11.51	11.35	11.18
270.0	13.28	13.01	12.68	12.40	12.12	11.90	11.62	11.40	11.24
315.0	13.01	12.68	12.45	12.12	11.90	11.62	11.46	11.24	11.13
360.0	12.73	12.45	12.23	12.01	11.73	11.57	11.40	11.18	11.13

Intensity data(cd)

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