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## NATA

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Client:

LumCAT: 2-2645-L

Luminaire: 92.70.412.00

Report No: 20231008-B006

Ballast type: AC

Test No: 20231008-C006

Voltage(V): 35.970

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.540

Lamp flux(lm): 2889.2

Power (W): 19.423

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): 2729.89, Efficiency(%): 94.49% , Luminous Efficacy(lm/W): 140.55

Central intensity(cd): 6056.459, Maximum intensity(cd): 6056.459

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

Beam Angle(50%Imax): [C0/180]Total=39.0

[C90/270]Total=39.0

Field angle(10%Imax): [C0/180]Total=62.4

[C90/270]Total=62.4

Maximum s/h(1/2): C0\_180=0.64 C90\_270=0.64

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(%): 94.49%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.168%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6056.459	0.000	0	0.00%	0.00%
1.0	6042.136	5.789	5.789	0.20%	0.21%
2.0	6004.980	17.291	23.08	0.60%	0.85%
3.0	5947.897	28.587	51.667	0.99%	1.89%
4.0	5877.805	39.584	91.252	1.37%	3.34%
5.0	5785.226	50.174	141.426	1.74%	5.18%
6.0	5681.715	60.262	201.687	2.09%	7.39%
7.0	5565.680	69.812	271.5	2.42%	9.95%
8.0	5439.128	78.759	350.259	2.73%	12.83%
9.0	5303.442	87.063	437.322	3.01%	16.02%
10.0	5162.221	94.710	532.032	3.28%	19.49%
11.0	5018.579	101.727	633.759	3.52%	23.22%
12.0	4837.365	107.740	741.499	3.73%	27.16%
13.0	4657.189	112.676	854.175	3.90%	31.29%
14.0	4444.008	116.495	970.67	4.03%	35.56%
15.0	4223.701	118.994	1089.664	4.12%	39.92%
16.0	3982.636	120.246	1209.91	4.16%	44.32%
17.0	3712.303	119.831	1329.741	4.15%	48.71%
18.0	3457.953	118.222	1447.963	4.09%	53.04%
19.0	3171.152	115.333	1563.296	3.99%	57.27%
20.0	2904.417	111.200	1674.495	3.85%	61.34%
21.0	2631.247	106.296	1780.791	3.68%	65.23%
22.0	2359.046	100.282	1881.073	3.47%	68.91%
23.0	2129.744	94.187	1975.26	3.26%	72.36%
24.0	1898.089	88.063	2063.323	3.05%	75.58%
25.0	1653.357	80.752	2144.075	2.79%	78.54%
26.0	1434.945	72.900	2216.975	2.52%	81.21%
27.0	1228.981	65.174	2282.149	2.26%	83.60%
28.0	1095.254	58.845	2340.993	2.04%	85.75%
29.0	929.920	52.984	2393.978	1.83%	87.70%
30.0	781.980	46.221	2440.198	1.60%	89.39%
31.0	629.758	39.287	2479.485	1.36%	90.83%
32.0	502.618	32.441	2511.926	1.12%	92.02%
33.0	381.110	26.035	2537.961	0.90%	92.97%
34.0	290.115	20.313	2558.274	0.70%	93.71%
35.0	231.821	16.209	2574.484	0.56%	94.31%
36.0	170.752	12.818	2587.302	0.44%	94.78%
37.0	125.424	9.660	2596.962	0.33%	95.13%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.629	7.579	2604.54	0.26%	95.41%
39.0	87.867	6.468	2611.008	0.22%	95.65%
40.0	78.222	5.793	2616.801	0.20%	95.86%
41.0	69.739	5.269	2622.07	0.18%	96.05%
42.0	62.923	4.820	2626.889	0.17%	96.23%
43.0	56.412	4.421	2631.31	0.15%	96.39%
44.0	51.562	4.075	2635.385	0.14%	96.54%
45.0	47.410	3.804	2639.189	0.13%	96.68%
46.0	43.951	3.573	2642.762	0.12%	96.81%
47.0	40.934	3.376	2646.138	0.12%	96.93%
48.0	38.312	3.204	2649.341	0.11%	97.05%
49.0	36.097	3.056	2652.397	0.11%	97.16%
50.0	34.132	2.928	2655.325	0.10%	97.27%
51.0	32.375	2.814	2658.139	0.10%	97.37%
52.0	30.770	2.710	2660.849	0.09%	97.47%
53.0	29.420	2.618	2663.467	0.09%	97.57%
54.0	28.147	2.537	2666.004	0.09%	97.66%
55.0	26.930	2.459	2668.463	0.09%	97.75%
56.0	26.002	2.392	2670.855	0.08%	97.84%
57.0	25.089	2.336	2673.191	0.08%	97.92%
58.0	24.238	2.281	2675.472	0.08%	98.01%
59.0	23.463	2.230	2677.702	0.08%	98.09%
60.0	22.799	2.186	2679.887	0.08%	98.17%
61.0	22.148	2.145	2682.032	0.07%	98.25%
62.0	21.519	2.104	2684.136	0.07%	98.32%
63.0	20.972	2.067	2686.203	0.07%	98.40%
64.0	20.398	2.030	2688.233	0.07%	98.47%
65.0	19.934	1.996	2690.229	0.07%	98.55%
66.0	19.408	1.963	2692.192	0.07%	98.62%
67.0	18.938	1.928	2694.12	0.07%	98.69%
68.0	18.467	1.895	2696.015	0.07%	98.76%
69.0	18.011	1.861	2697.876	0.06%	98.83%
70.0	17.596	1.829	2699.704	0.06%	98.89%
71.0	17.146	1.796	2701.5	0.06%	98.96%
72.0	16.744	1.762	2703.262	0.06%	99.02%
73.0	16.392	1.733	2704.995	0.06%	99.09%
74.0	16.025	1.704	2706.699	0.06%	99.15%
75.0	15.679	1.675	2708.374	0.06%	99.21%

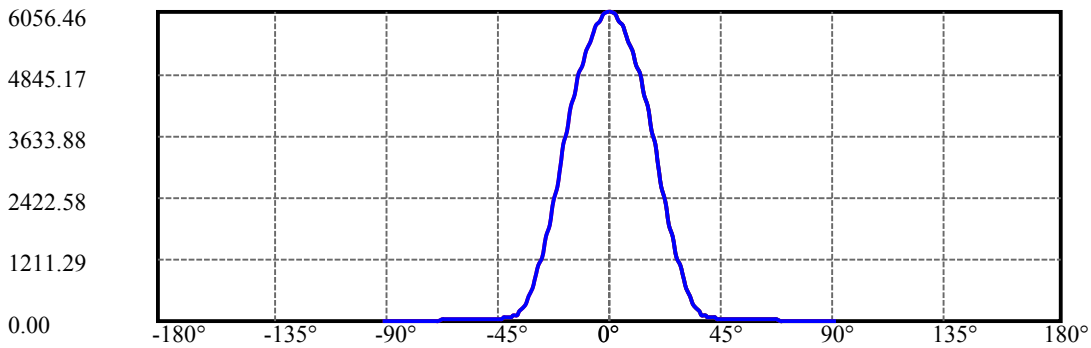
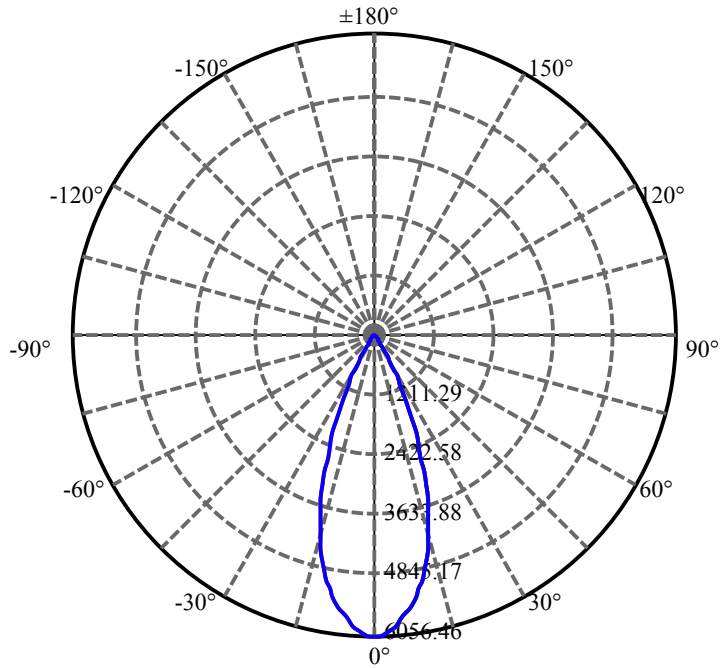
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.305	1.645	2710.019	0.06%	99.27%
77.0	14.932	1.612	2711.631	0.06%	99.33%
78.0	14.572	1.579	2713.211	0.05%	99.39%
79.0	14.212	1.547	2714.757	0.05%	99.45%
80.0	13.873	1.514	2716.271	0.05%	99.50%
81.0	13.555	1.483	2717.754	0.05%	99.56%
82.0	13.257	1.454	2719.208	0.05%	99.61%
83.0	12.939	1.424	2720.632	0.05%	99.66%
84.0	12.641	1.394	2722.026	0.05%	99.71%
85.0	12.378	1.366	2723.392	0.05%	99.76%
86.0	12.136	1.340	2724.732	0.05%	99.81%
87.0	11.929	1.317	2726.049	0.05%	99.86%
88.0	11.707	1.295	2727.343	0.04%	99.91%
89.0	11.610	1.278	2728.621	0.04%	99.95%
90.0	11.514	1.268	2729.889	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2440.20	84.46%	89.39%
0-40	2616.80	90.57%	95.86%
0-60	2679.89	92.76%	98.17%
0-90	2728.62	94.44%	99.95%
0-120	2728.62	94.44%	99.95%
0-180	2729.89	94.49%	100.00%
60-90	48.73	1.69%	1.79%
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%
0-25.55	2183.91	75.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	532.03
10-20	1142.46
20-30	765.70
30-40	176.60
40-50	38.52
50-60	24.56
60-70	19.82
70-80	16.57
80-90	12.35
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



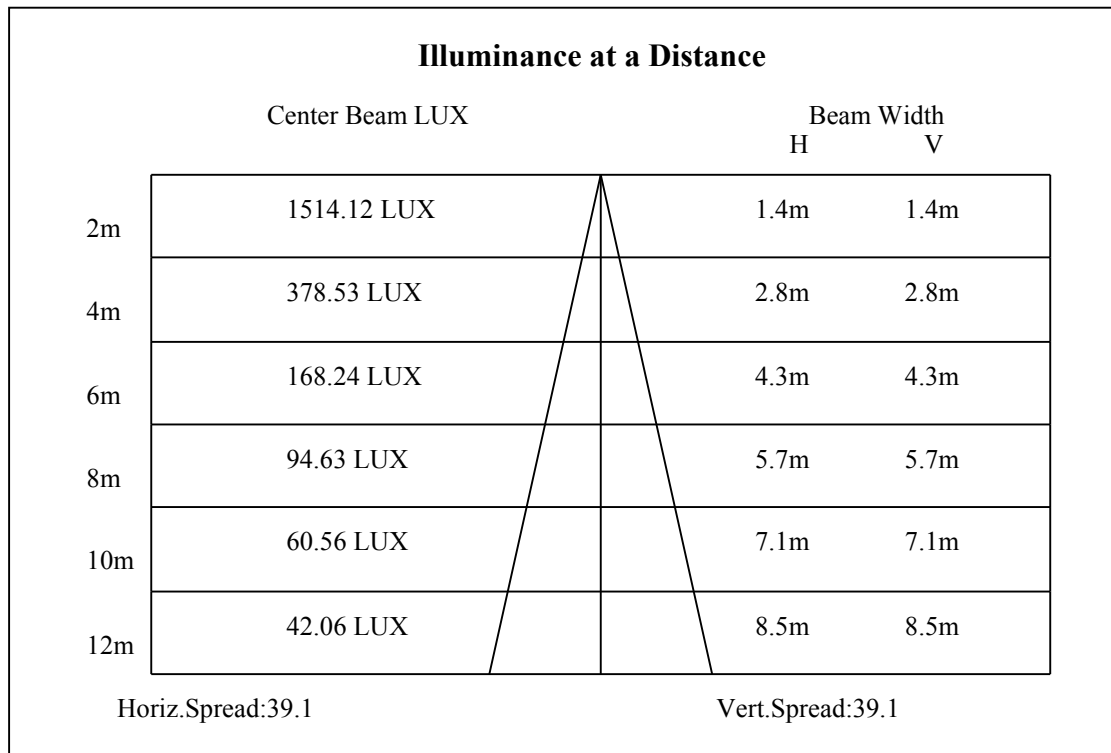
C0(Max): —————

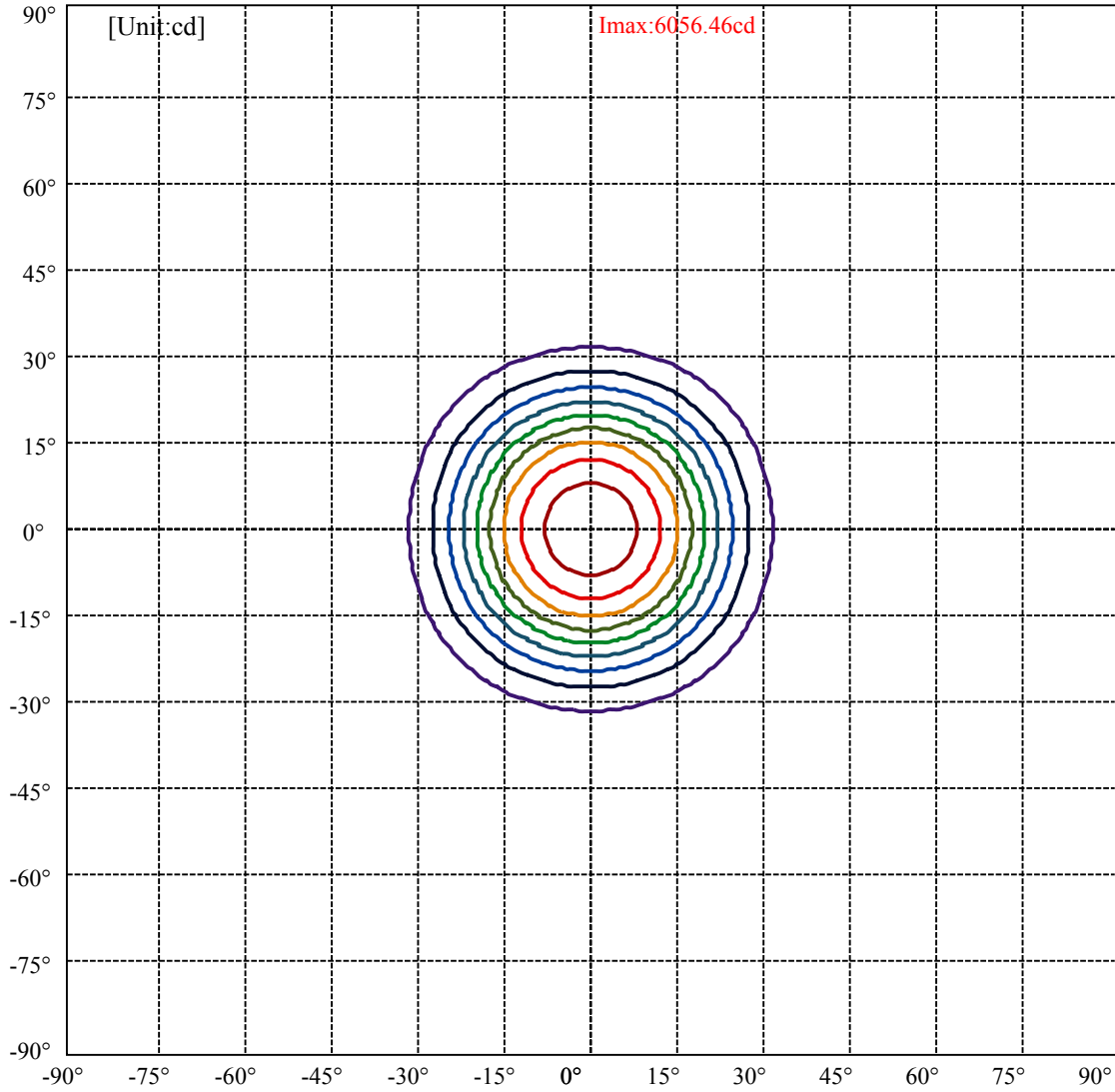
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:31.2 Right:31.2  
:C90/270Left:31.2 Right:31.2

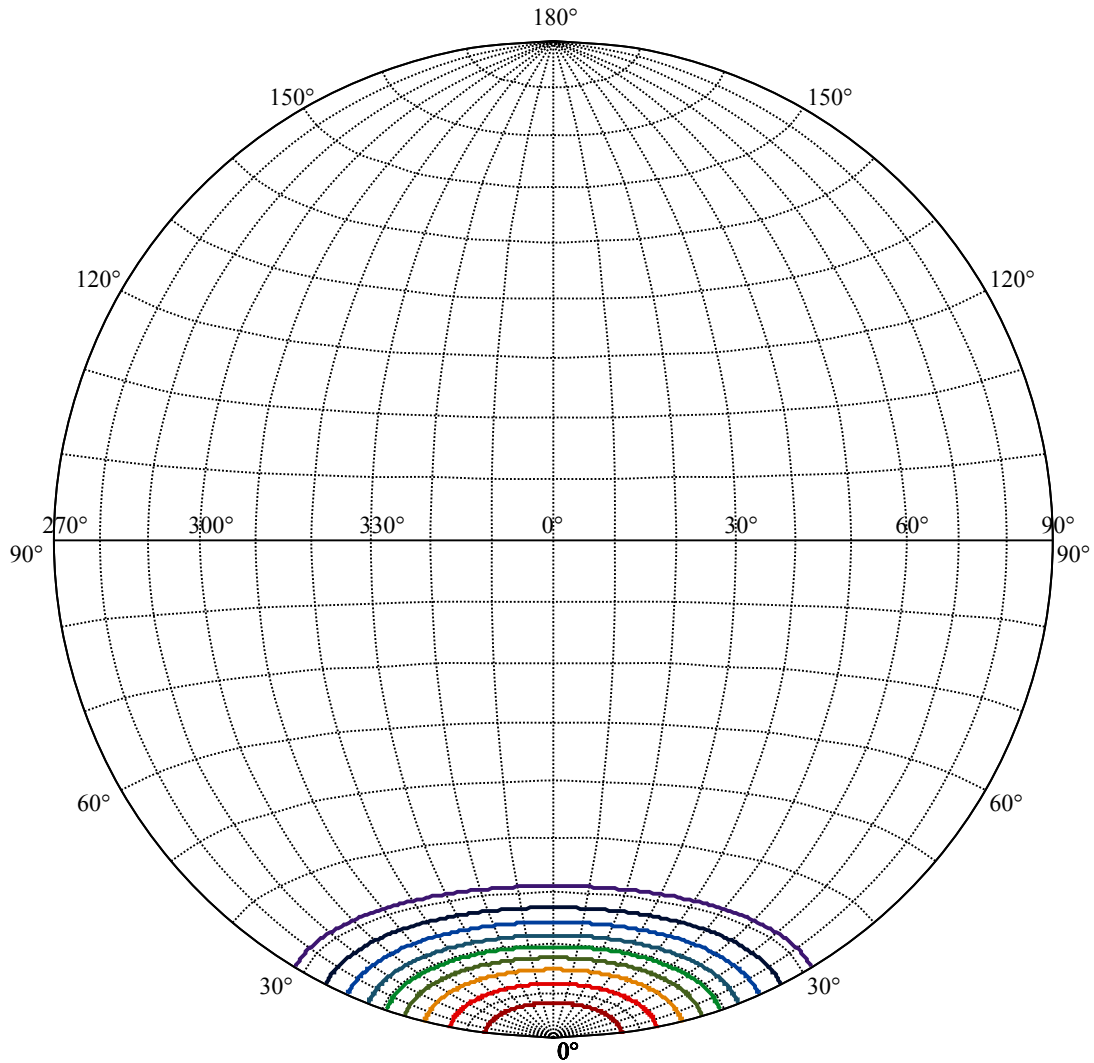
Beam Angle(50%Imax):C0/180Left:19.5 Right:19.5  
:C90/270Left:19.5 Right:19.5





(10%Imax) 605.646	—
(20%Imax) 1211.29	—
(30%Imax) 1816.94	—
(40%Imax) 2422.58	—
(50%Imax) 3028.23	—
(60%Imax) 3633.88	—
(70%Imax) 4239.52	—
(80%Imax) 4845.17	—
(90%Imax) 5450.81	—





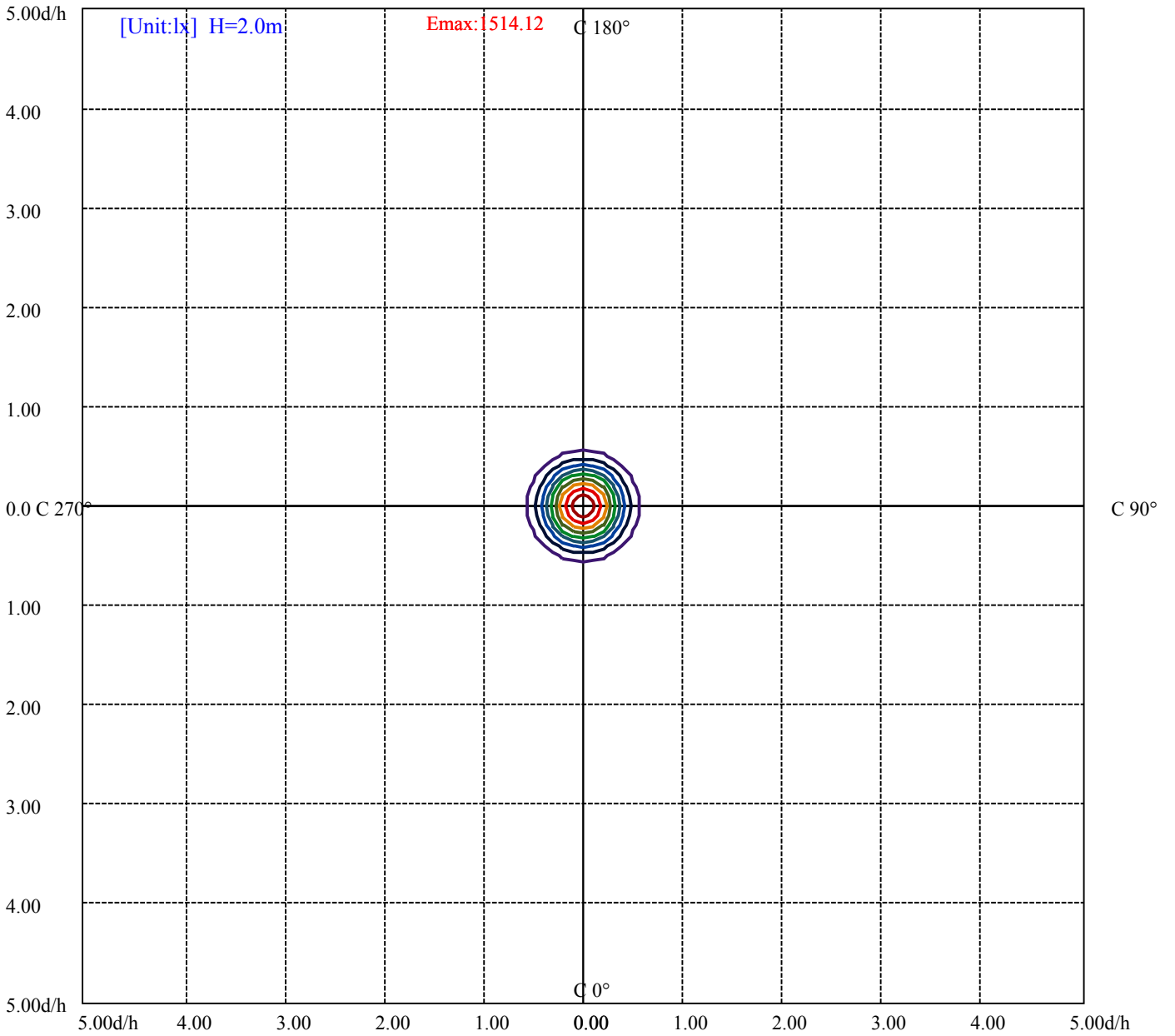
House

[Unit:cd]

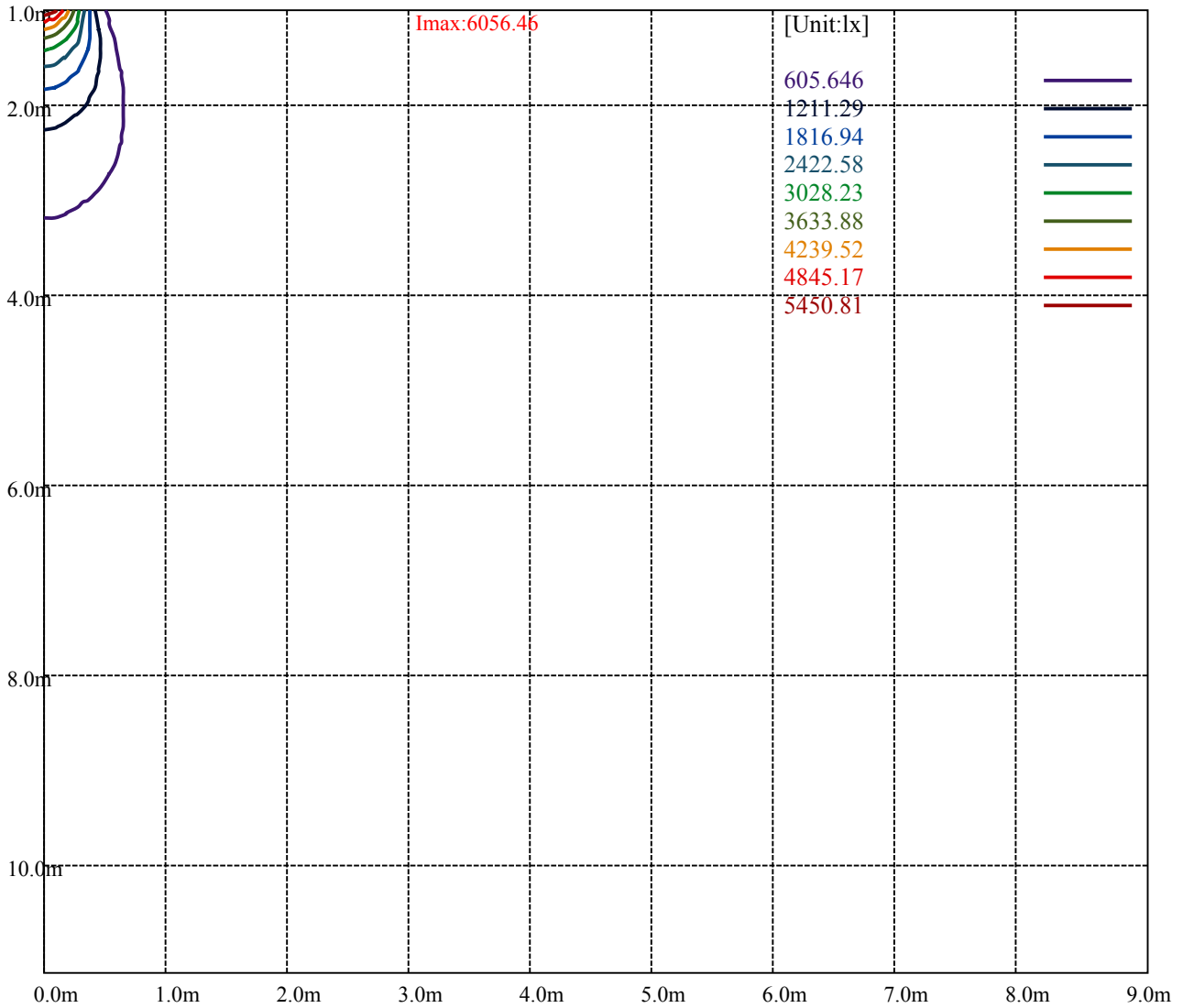
Road

Imax:6056.46

(10%Imax)	605.646	—
(20%Imax)	1211.29	—
(30%Imax)	1816.94	—
(40%Imax)	2422.58	—
(50%Imax)	3028.23	—
(60%Imax)	3633.88	—
(70%Imax)	4239.52	—
(80%Imax)	4845.17	—
(90%Imax)	5450.81	—



- (10%E<sub>max</sub>) 151.4115
- (20%E<sub>max</sub>) 302.8225
- (30%E<sub>max</sub>) 454.235
- (40%E<sub>max</sub>) 605.645
- (50%E<sub>max</sub>) 757.0575
- (60%E<sub>max</sub>) 908.4675
- (70%E<sub>max</sub>) 1059.88
- (80%E<sub>max</sub>) 1211.292
- (90%E<sub>max</sub>) 1362.703



Luminance Table

$\gamma$	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

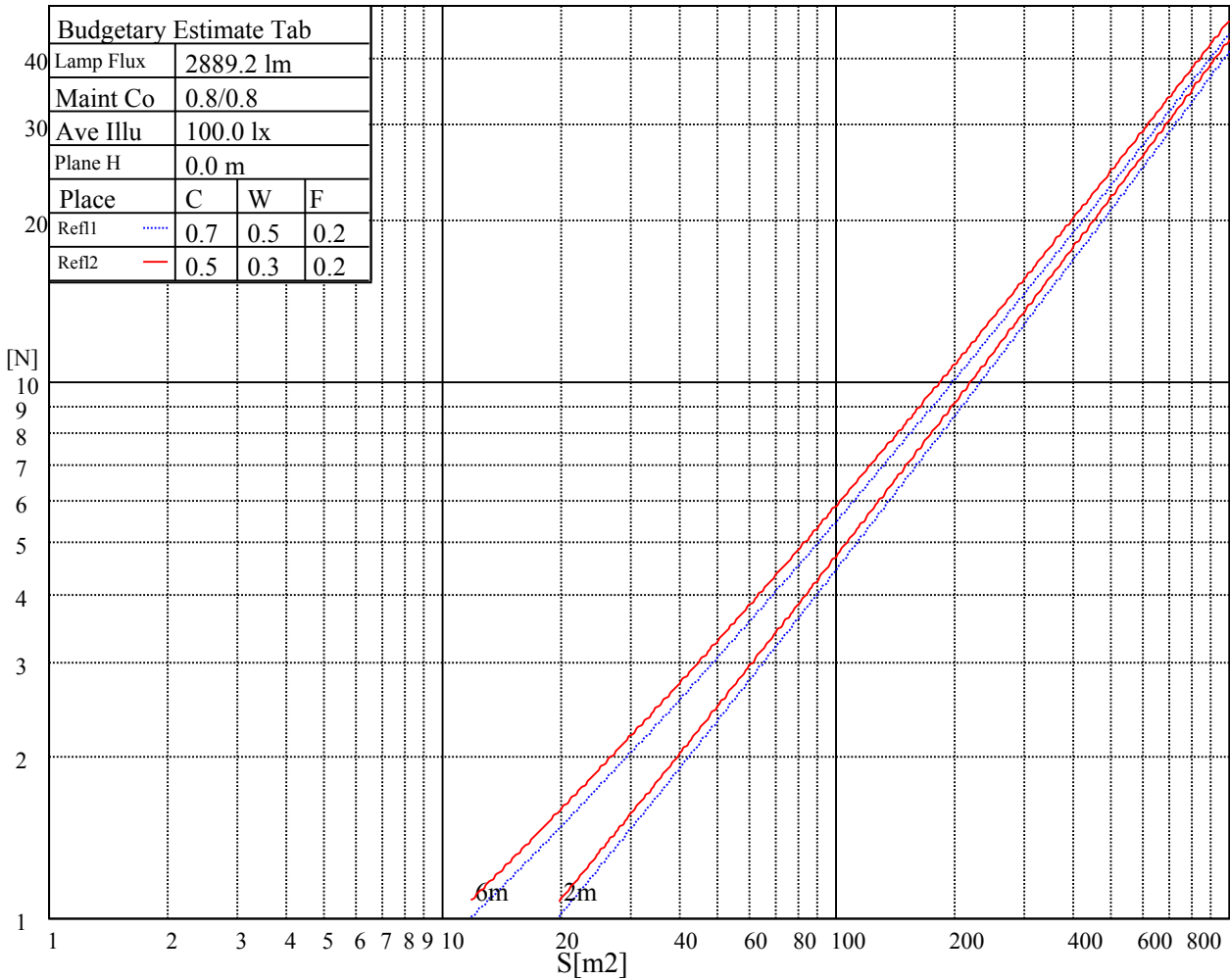
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

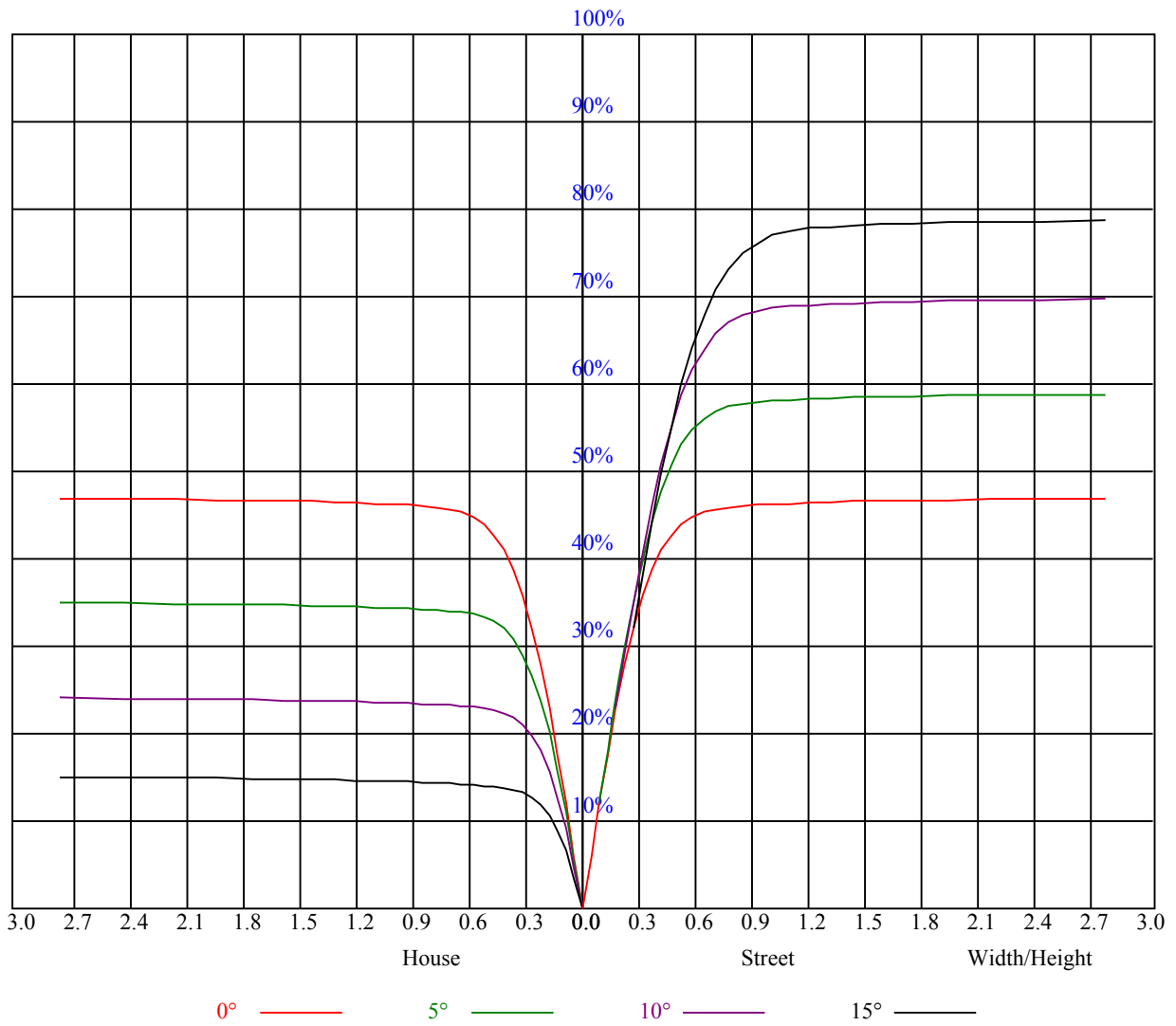


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.86	0.93	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.70
7	0.77	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.67
8	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
9	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.61
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.59





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	6048.43	6002.49	5949.90	5877.39	5772.77	5666.49	5553.57	5438.44	5286.77
45.0	6075.56	6042.90	6009.68	5943.81	5853.03	5768.90	5656.53	5543.05	5388.06
90.0	6036.81	5993.63	5913.92	5832.00	5737.35	5608.92	5487.15	5329.39	5204.29
135.0	6065.04	6041.24	5998.61	5927.76	5854.14	5726.83	5616.12	5505.97	5354.30
180.0	6048.43	6071.68	6058.95	6017.43	5970.94	5898.42	5818.72	5711.88	5606.16
225.0	6075.56	6048.43	6024.08	5973.15	5912.26	5839.75	5732.36	5623.87	5523.68
270.0	6036.81	6078.32	6056.74	6029.06	6001.38	5934.96	5855.80	5746.20	5635.49
315.0	6065.04	6058.40	6027.95	5982.56	5920.57	5837.54	5733.47	5626.64	5514.27
360.0	6048.43	6002.49	5949.90	5877.39	5772.77	5666.49	5553.57	5438.44	5286.77
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5149.49	5001.14	4835.64	4623.63	4432.66	4156.45	3923.41	3667.12	3352.71
45.0	5269.61	5134.54	4989.52	4799.66	4631.93	4433.77	4170.84	3946.66	3642.21
90.0	5073.66	4904.83	4738.77	4560.53	4372.33	4100.54	3877.46	3633.91	3395.89
135.0	5217.57	5086.39	4939.70	4744.30	4552.78	4359.04	4146.48	3858.09	3615.64
180.0	5466.67	5336.03	5203.18	5044.87	4835.64	4658.50	4468.09	4258.30	3972.12
225.0	5357.07	5217.02	5080.85	4923.65	4745.41	4511.82	4321.40	4102.75	3807.17
270.0	5534.75	5388.62	5257.98	5089.71	4943.02	4771.98	4589.87	4334.13	4103.31
315.0	5358.73	5229.20	5102.99	4912.58	4743.75	4559.97	4292.06	4060.13	3809.38
360.0	5149.49	5001.14	4835.64	4623.63	4432.66	4156.45	3923.41	3667.12	3352.71
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3082.03	2820.21	2568.91	2259.48	2035.85	1826.06	1637.86	1283.59	1081.44
45.0	3388.69	3135.73	2872.80	2561.16	2322.58	2096.19	1843.77	1650.59	1451.87
90.0	3147.35	2835.71	2592.71	2308.74	2087.88	1886.40	1637.86	1290.79	1066.94
135.0	3380.94	3085.91	2842.91	2602.67	2329.22	2117.77	1916.29	1667.20	1465.71
180.0	3747.38	3440.72	3182.22	2932.02	2610.97	2363.54	2137.15	1932.34	1683.25
225.0	3564.16	3237.02	2972.99	2708.40	2404.51	2173.68	1957.80	1752.44	1501.13
270.0	3867.50	3612.32	3271.34	3018.93	2739.95	2468.72	2163.16	1956.69	1759.64
315.0	3485.56	3201.60	2931.47	2658.58	2341.40	2105.60	1890.82	1693.21	1469.58
360.0	3082.03	2820.21	2568.91	2259.48	2035.85	1826.06	1637.86	1283.59	1081.44
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1081.44	898.44	761.06	628.93	471.00	357.97	260.72	172.32	131.63
45.0	1258.13	1089.86	899.99	761.06	599.98	478.20	368.05	292.77	292.77
90.0	1024.93	872.10	731.33	604.52	454.01	345.90	250.70	179.29	130.47
135.0	1269.20	1087.09	882.83	744.45	614.92	494.81	358.08	287.23	287.23
180.0	1487.30	1297.99	1125.84	924.90	777.66	639.83	483.18	375.80	283.91
225.0	1095.28	1095.28	975.50	822.06	653.50	524.48	384.76	288.45	211.51
270.0	1523.28	1328.98	1118.09	963.10	818.62	654.78	533.00	418.42	316.01
315.0	1092.29	1092.29	944.72	806.83	648.36	524.97	410.39	306.66	201.04
360.0	1081.44	898.44	761.06	628.93	471.00	357.97	260.72	172.32	131.63
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	109.43	94.10	81.65	73.56	66.04	59.84	53.08	48.60	44.95
45.0	132.63	109.88	90.95	80.65	72.51	63.49	57.29	52.03	47.71
90.0	110.54	96.20	82.92	74.40	65.15	58.84	53.80	49.49	45.06
135.0	140.60	117.40	101.68	87.62	78.66	68.92	62.44	56.90	52.48
180.0	283.91	151.78	128.09	106.33	93.33	83.81	75.39	66.15	59.95
225.0	150.67	124.66	107.05	90.67	81.26	73.07	65.93	58.45	53.69
270.0	292.21	192.08	119.84	102.74	90.45	79.38	71.35	62.99	57.01
315.0	146.02	117.29	100.85	86.96	78.38	70.58	64.10	56.68	51.64
360.0	109.43	94.10	81.65	73.56	66.04	59.84	53.08	48.60	44.95

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	41.24	38.64	35.92	33.99	32.33	30.78	29.12	27.95	26.96
45.0	43.40	40.52	37.97	35.20	33.32	31.66	29.84	28.56	27.46
90.0	42.07	39.52	37.31	34.87	33.21	31.66	30.33	28.84	27.73
135.0	47.66	44.39	41.63	39.13	36.53	34.76	33.16	31.33	30.06
180.0	55.08	50.81	46.50	43.45	40.96	38.19	36.20	34.37	32.33
225.0	49.71	46.39	42.73	40.19	37.92	35.48	33.71	31.72	30.28
270.0	52.42	47.66	44.50	41.68	38.58	36.48	34.60	32.88	31.33
315.0	47.71	43.67	40.91	37.97	35.92	34.04	32.05	30.50	29.23
360.0	41.24	38.64	35.92	33.99	32.33	30.78	29.12	27.95	26.96
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.96	24.91	24.13	23.41	22.64	22.03	21.48	20.81	20.31
45.0	26.18	25.30	24.52	23.80	22.97	22.36	21.81	21.26	20.59
90.0	26.51	25.63	24.85	23.91	23.25	22.64	22.09	21.42	20.92
135.0	28.89	27.62	26.68	25.74	24.74	24.02	23.36	22.81	22.03
180.0	30.89	29.28	28.06	27.01	26.07	25.02	24.24	23.53	22.86
225.0	29.06	27.62	26.63	25.74	24.85	23.91	23.25	22.58	21.98
270.0	29.61	28.34	27.29	26.07	25.19	24.41	23.47	22.81	22.09
315.0	28.06	26.74	25.85	25.02	24.19	23.30	22.69	21.98	21.37
360.0	25.96	24.91	24.13	23.41	22.64	22.03	21.48	20.81	20.31
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.87	19.32	18.88	18.49	17.99	17.60	17.21	16.88	16.44
45.0	20.15	19.60	19.21	18.76	18.32	17.93	17.55	17.21	16.72
90.0	20.48	19.87	19.43	18.93	18.54	18.05	17.60	17.21	16.77
135.0	21.53	21.03	20.54	19.93	19.48	18.99	18.38	17.93	17.44
180.0	22.09	21.53	20.98	20.43	19.82	19.26	18.76	18.27	17.82
225.0	21.37	20.70	20.26	19.65	19.15	18.71	18.21	17.77	17.33
270.0	21.48	20.92	20.43	19.82	19.37	18.88	18.43	17.93	17.49
315.0	20.81	20.20	19.76	19.26	18.82	18.32	17.93	17.55	17.16
360.0	19.87	19.32	18.88	18.49	17.99	17.60	17.21	16.88	16.44
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.11	15.83	15.50	15.17	14.83	14.50	14.17	13.84	13.45
45.0	16.44	16.11	15.72	15.44	15.17	14.83	14.45	14.17	13.84
90.0	16.38	16.11	15.72	15.39	14.95	14.50	14.23	13.84	13.56
135.0	16.99	16.61	16.16	15.78	15.39	14.95	14.61	14.23	13.89
180.0	17.27	16.88	16.50	16.11	15.72	15.33	14.95	14.50	14.12
225.0	16.88	16.50	16.16	15.83	15.33	14.95	14.61	14.28	13.84
270.0	17.16	16.72	16.38	16.05	15.67	15.39	14.95	14.56	14.28
315.0	16.72	16.38	16.05	15.67	15.39	15.00	14.61	14.28	14.00
360.0	16.11	15.83	15.50	15.17	14.83	14.50	14.17	13.84	13.45
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.23	13.01	12.73	12.40	12.18	11.96	11.79	11.57	11.40
45.0	13.45	13.23	12.84	12.57	12.29	12.07	11.85	11.68	11.40
90.0	13.23	12.90	12.62	12.40	12.12	11.90	11.73	11.40	11.62
135.0	13.56	13.23	12.90	12.57	12.34	12.07	11.85	11.79	11.79
180.0	13.84	13.45	13.17	12.84	12.51	12.34	12.12	11.85	11.79
225.0	13.56	13.28	12.90	12.68	12.40	12.18	11.96	11.73	11.62
270.0	13.95	13.56	13.28	12.95	12.68	12.40	12.12	11.90	11.68
315.0	13.62	13.40	13.06	12.73	12.51	12.18	12.01	11.73	11.57
360.0	13.23	13.01	12.73	12.40	12.18	11.96	11.79	11.57	11.40

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>11.35</b>
<b>45.0</b>	<b>11.35</b>
<b>90.0</b>	<b>11.62</b>
<b>135.0</b>	<b>11.79</b>
<b>180.0</b>	<b>11.73</b>
<b>225.0</b>	<b>11.46</b>
<b>270.0</b>	<b>11.40</b>
<b>315.0</b>	<b>11.40</b>
<b>360.0</b>	<b>11.35</b>