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NATA

Client:

LumCAT: 2-2642-L

Luminaire: 92.70.412.00

Report No: 20231011-B014

Ballast type: AC

Test No: 20231011-C014

Voltage(V): 34.830

LampCAT: TRIDONIC SLE G7 15MM

Current(A): 0.530

Lamp flux(lm): 3047.8

Power (W): 18.459

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2846.39, Efficiency(%): 93.39% , Luminous Efficacy(lm/W): 154.20

Central intensity(cd): 4491.114, Maximum intensity(cd): 4491.114

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=48.0

[C90/270]Total=48.0

Field angle(10%Imax): [C0/180]Total=72.4

[C90/270]Total=72.4

Maximum s/h(1/2): C0_180=0.76 C90_270=0.76

Maximum s/h(1/4): C0_180=0.75 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.39%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.130%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4491.114	0.000	0	0.00%	0.00%
1.0	4488.969	4.297	4.297	0.14%	0.15%
2.0	4484.956	12.880	17.177	0.42%	0.60%
3.0	4474.647	21.428	38.605	0.70%	1.36%
4.0	4451.952	29.880	68.486	0.98%	2.41%
5.0	4415.280	38.146	106.632	1.25%	3.75%
6.0	4373.488	46.187	152.819	1.52%	5.37%
7.0	4315.989	53.935	206.755	1.77%	7.26%
8.0	4239.048	61.227	267.982	2.01%	9.41%
9.0	4150.690	67.994	335.976	2.23%	11.80%
10.0	4056.450	74.272	410.247	2.44%	14.41%
11.0	3954.392	80.045	490.292	2.63%	17.23%
12.0	3844.930	85.258	575.55	2.80%	20.22%
13.0	3727.235	89.863	665.412	2.95%	23.38%
14.0	3612.584	93.949	759.361	3.08%	26.68%
15.0	3495.580	97.584	856.945	3.20%	30.11%
16.0	3369.581	100.594	957.539	3.30%	33.64%
17.0	3244.620	103.001	1060.54	3.38%	37.26%
18.0	3112.187	104.810	1165.35	3.44%	40.94%
19.0	2989.025	106.149	1271.499	3.48%	44.67%
20.0	2847.458	106.824	1378.323	3.50%	48.42%
21.0	2702.224	106.565	1484.888	3.50%	52.17%
22.0	2557.682	105.700	1590.588	3.47%	55.88%
23.0	2405.944	104.150	1694.738	3.42%	59.54%
24.0	2249.778	101.791	1796.529	3.34%	63.12%
25.0	2103.990	98.995	1895.524	3.25%	66.59%
26.0	1939.106	95.438	1990.962	3.13%	69.95%
27.0	1782.109	91.040	2082.002	2.99%	73.15%
28.0	1589.257	85.356	2167.358	2.80%	76.14%
29.0	1411.074	78.497	2245.855	2.58%	78.90%
30.0	1261.730	72.165	2318.02	2.37%	81.44%
31.0	1121.914	66.333	2384.354	2.18%	83.77%
32.0	979.710	60.209	2444.563	1.98%	85.88%
33.0	833.293	53.412	2497.974	1.75%	87.76%
34.0	697.760	46.334	2544.309	1.52%	89.39%
35.0	569.554	39.358	2583.667	1.29%	90.77%
36.0	466.050	32.974	2616.641	1.08%	91.93%
37.0	371.326	27.310	2643.951	0.90%	92.89%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	300.487	22.424	2666.375	0.74%	93.68%
39.0	239.695	18.438	2684.813	0.60%	94.32%
40.0	202.096	15.408	2700.221	0.51%	94.86%
41.0	152.956	12.643	2712.864	0.41%	95.31%
42.0	116.623	9.794	2722.659	0.32%	95.65%
43.0	96.281	7.887	2730.545	0.26%	95.93%
44.0	81.564	6.712	2737.258	0.22%	96.17%
45.0	70.292	5.836	2743.094	0.19%	96.37%
46.0	62.127	5.179	2748.272	0.17%	96.55%
47.0	55.679	4.685	2752.958	0.15%	96.72%
48.0	50.220	4.281	2757.239	0.14%	96.87%
49.0	45.577	3.934	2761.173	0.13%	97.01%
50.0	41.986	3.651	2764.823	0.12%	97.13%
51.0	39.066	3.429	2768.253	0.11%	97.25%
52.0	36.409	3.239	2771.491	0.11%	97.37%
53.0	34.361	3.078	2774.57	0.10%	97.48%
54.0	32.347	2.940	2777.51	0.10%	97.58%
55.0	30.811	2.819	2780.329	0.09%	97.68%
56.0	29.414	2.721	2783.051	0.09%	97.77%
57.0	28.286	2.638	2785.689	0.09%	97.87%
58.0	27.103	2.561	2788.25	0.08%	97.96%
59.0	26.113	2.488	2790.738	0.08%	98.04%
60.0	25.241	2.426	2793.164	0.08%	98.13%
61.0	24.439	2.371	2795.535	0.08%	98.21%
62.0	23.698	2.320	2797.854	0.08%	98.29%
63.0	23.013	2.272	2800.126	0.07%	98.37%
64.0	22.370	2.227	2802.353	0.07%	98.45%
65.0	21.782	2.185	2804.538	0.07%	98.53%
66.0	21.180	2.143	2806.682	0.07%	98.60%
67.0	20.619	2.102	2808.783	0.07%	98.68%
68.0	20.107	2.063	2810.847	0.07%	98.75%
69.0	19.609	2.026	2812.873	0.07%	98.82%
70.0	19.097	1.988	2814.861	0.07%	98.89%
71.0	18.578	1.947	2816.808	0.06%	98.96%
72.0	18.080	1.906	2818.714	0.06%	99.03%
73.0	17.623	1.867	2820.581	0.06%	99.09%
74.0	17.153	1.828	2822.409	0.06%	99.16%
75.0	16.696	1.788	2824.198	0.06%	99.22%

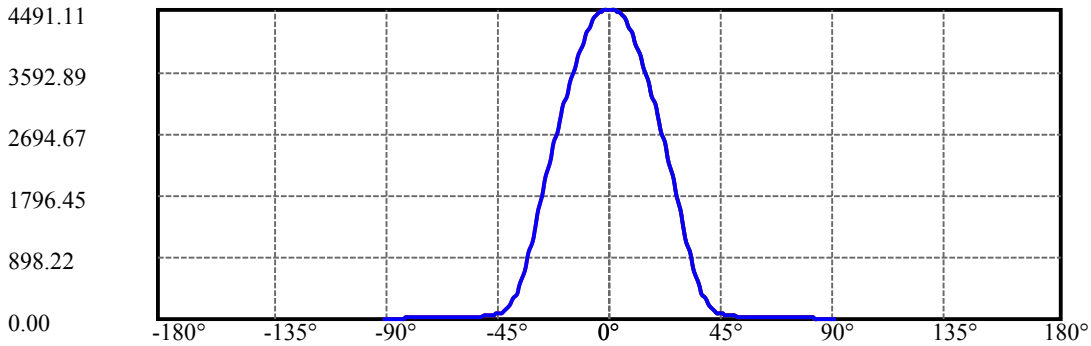
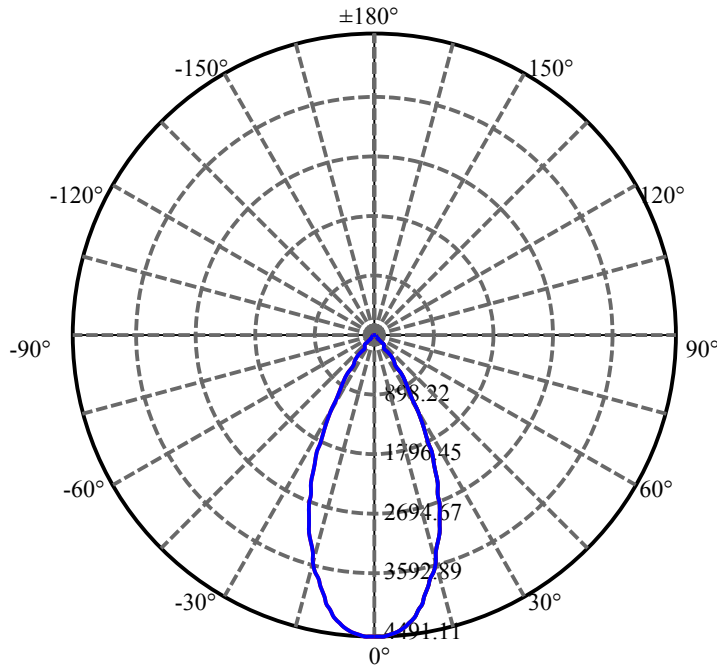
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.212	1.747	2825.944	0.06%	99.28%
77.0	15.762	1.705	2827.649	0.06%	99.34%
78.0	15.319	1.664	2829.313	0.05%	99.40%
79.0	14.849	1.621	2830.934	0.05%	99.46%
80.0	14.420	1.578	2832.512	0.05%	99.51%
81.0	14.032	1.539	2834.05	0.05%	99.57%
82.0	13.610	1.499	2835.549	0.05%	99.62%
83.0	13.230	1.459	2837.008	0.05%	99.67%
84.0	12.877	1.422	2838.431	0.05%	99.72%
85.0	12.593	1.390	2839.821	0.05%	99.77%
86.0	12.323	1.362	2841.183	0.04%	99.82%
87.0	12.060	1.334	2842.517	0.04%	99.86%
88.0	11.839	1.309	2843.826	0.04%	99.91%
89.0	11.673	1.289	2845.115	0.04%	99.96%
90.0	11.603	1.276	2846.391	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2318.02	76.06%	81.44%
0-40	2700.22	88.60%	94.86%
0-60	2793.16	91.65%	98.13%
0-90	2845.11	93.35%	99.96%
0-120	2845.11	93.35%	99.96%
0-180	2846.39	93.39%	100.00%
60-90	51.95	1.70%	1.83%
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%
0-29.43	2277.11	74.71%	80.00%

ZONAL LUMEN SUMMARY

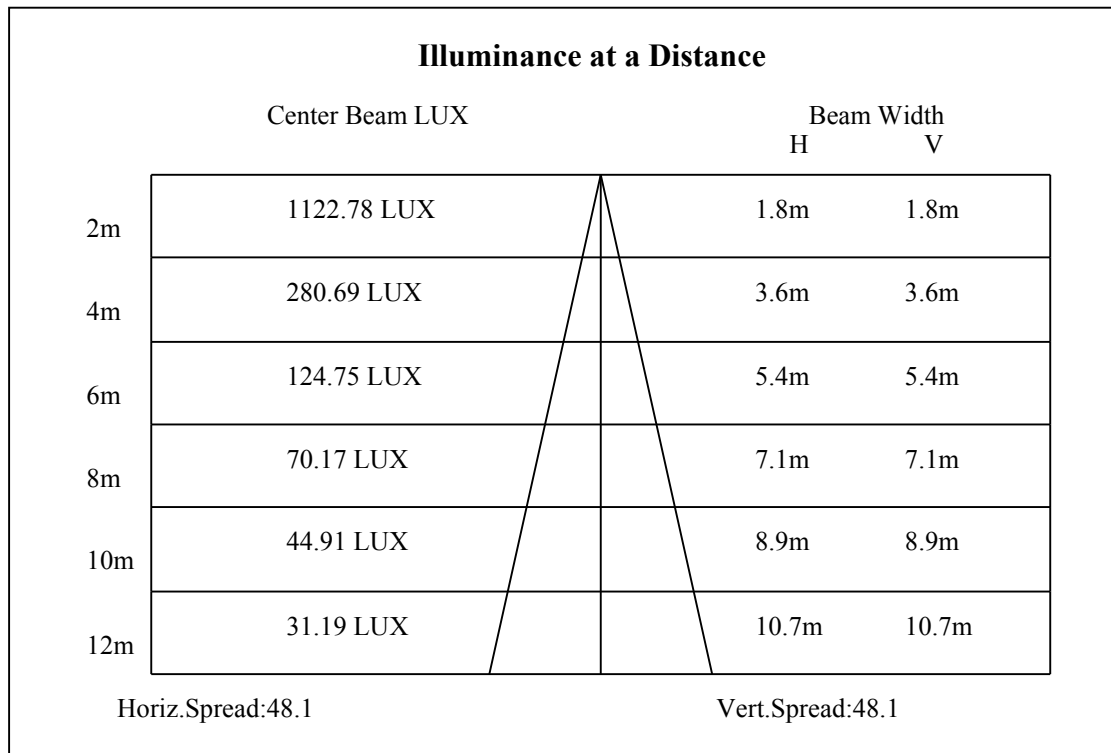
0-10	410.25
10-20	968.08
20-30	939.70
30-40	382.20
40-50	64.60
50-60	28.34
60-70	21.70
70-80	17.65
80-90	12.60
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

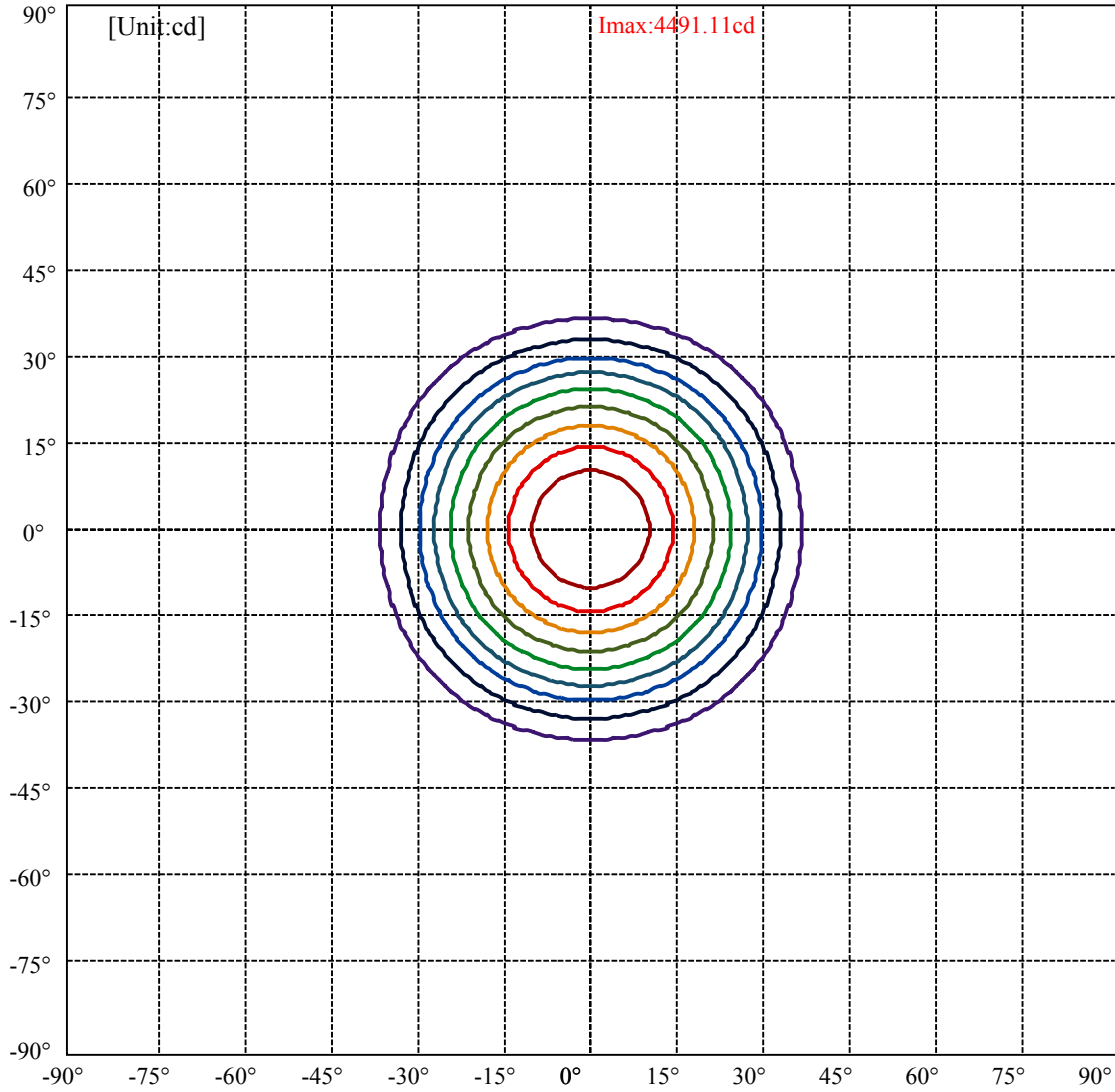


C0(Max): —————
C0/C180: —————
C90/C270: —————

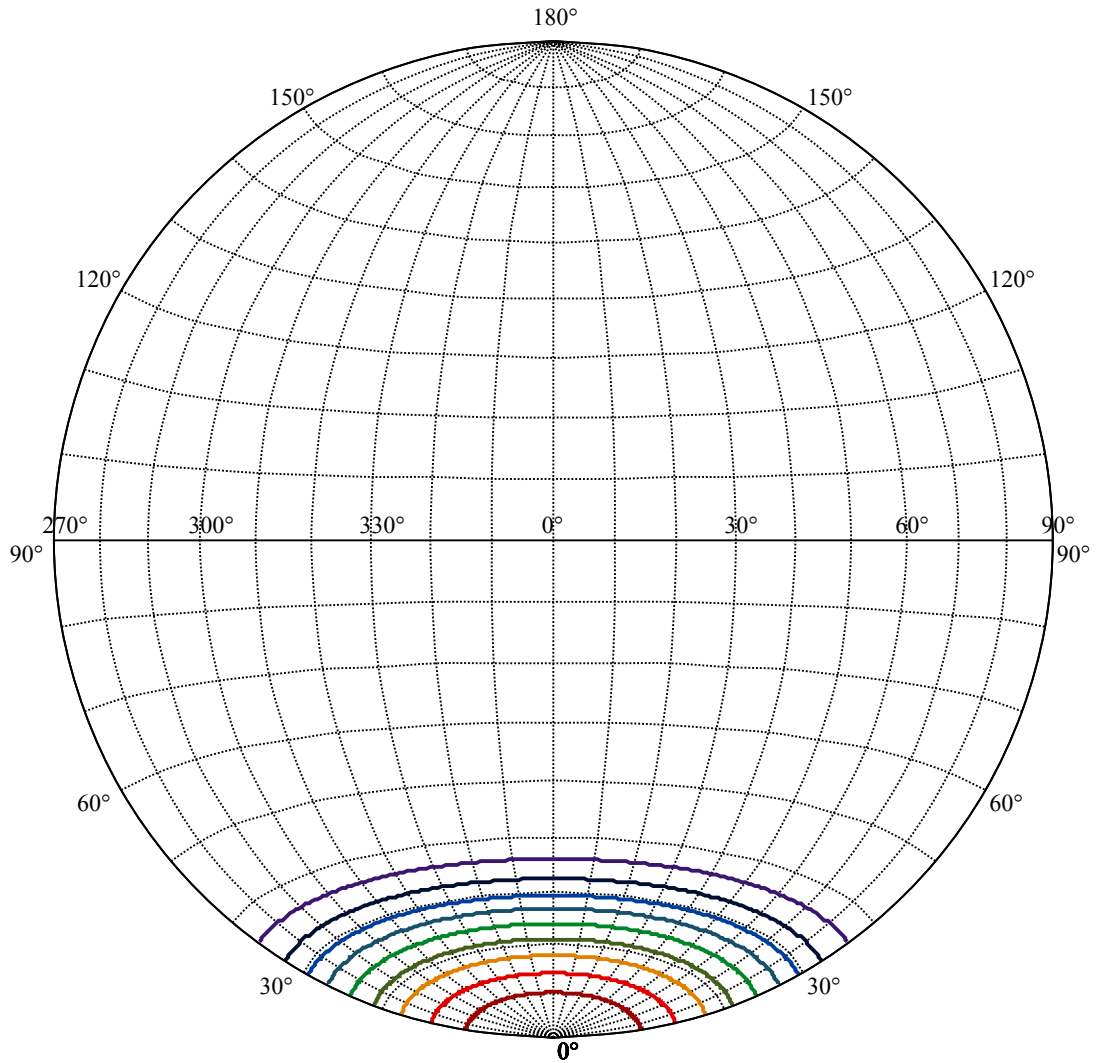
Field angle(10%Imax):C0/180Left:36.2 Right:36.2
:C90/270Left:36.2 Right:36.2

Beam Angle(50%Imax):C0/180Left:24.0 Right:24.0
:C90/270Left:24.0 Right:24.0





(10%Imax) 449.111	—
(20%Imax) 898.223	—
(30%Imax) 1347.33	—
(40%Imax) 1796.45	—
(50%Imax) 2245.56	—
(60%Imax) 2694.67	—
(70%Imax) 3143.78	—
(80%Imax) 3592.89	—
(90%Imax) 4042	—



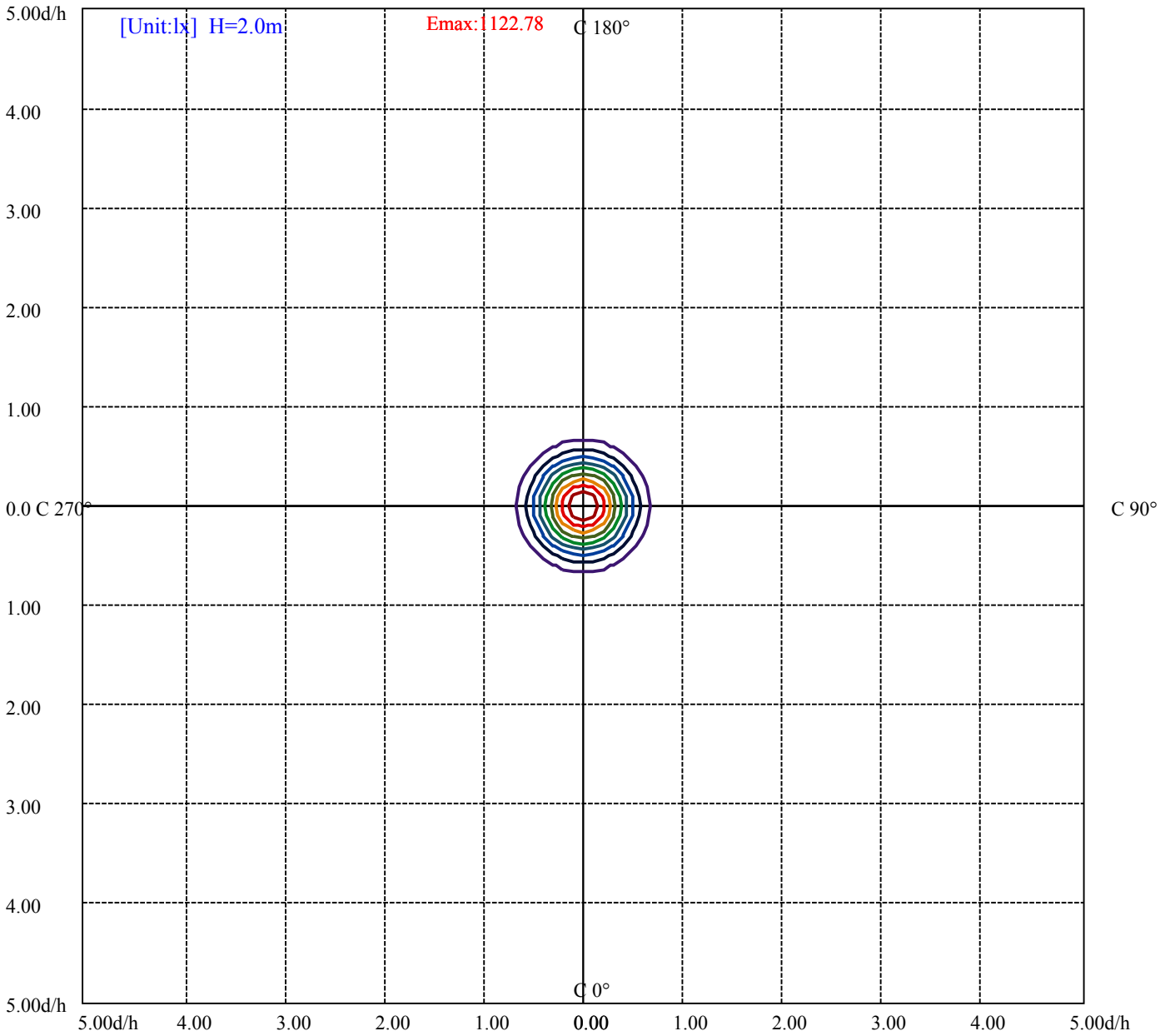
House

[Unit:cd]

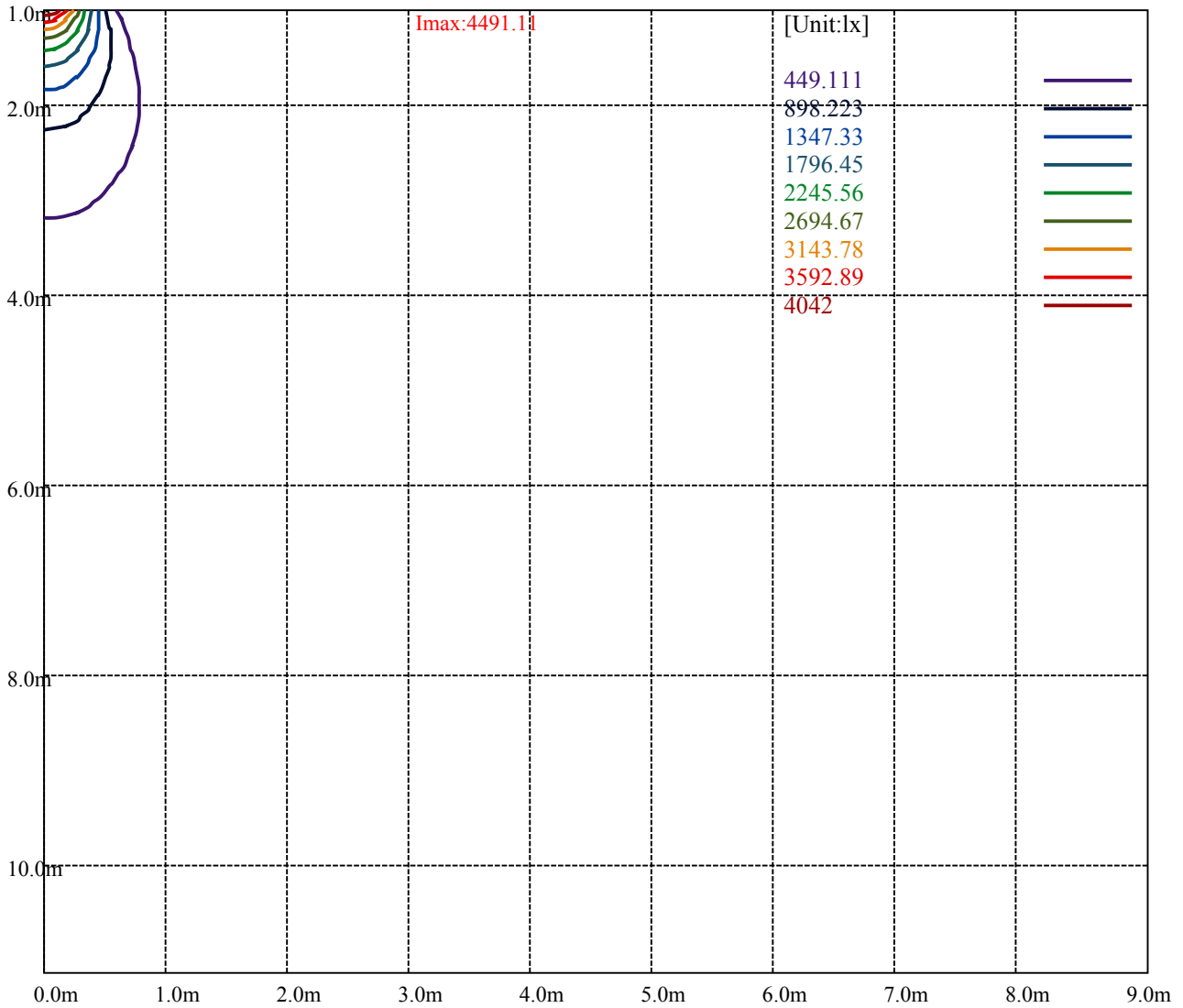
Road

Imax:4491.11

(10%Imax) 449.111	—
(20%Imax) 898.223	—
(30%Imax) 1347.33	—
(40%Imax) 1796.45	—
(50%Imax) 2245.56	—
(60%Imax) 2694.67	—
(70%Imax) 3143.78	—
(80%Imax) 3592.89	—
(90%Imax) 4042	—



- (10%Emax) 112.2777
- (20%Emax) 224.5558
- (30%Emax) 336.8325
- (40%Emax) 449.1125
- (50%Emax) 561.39
- (60%Emax) 673.6675
- (70%Emax) 785.945
- (80%Emax) 898.2225
- (90%Emax) 1010.5



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

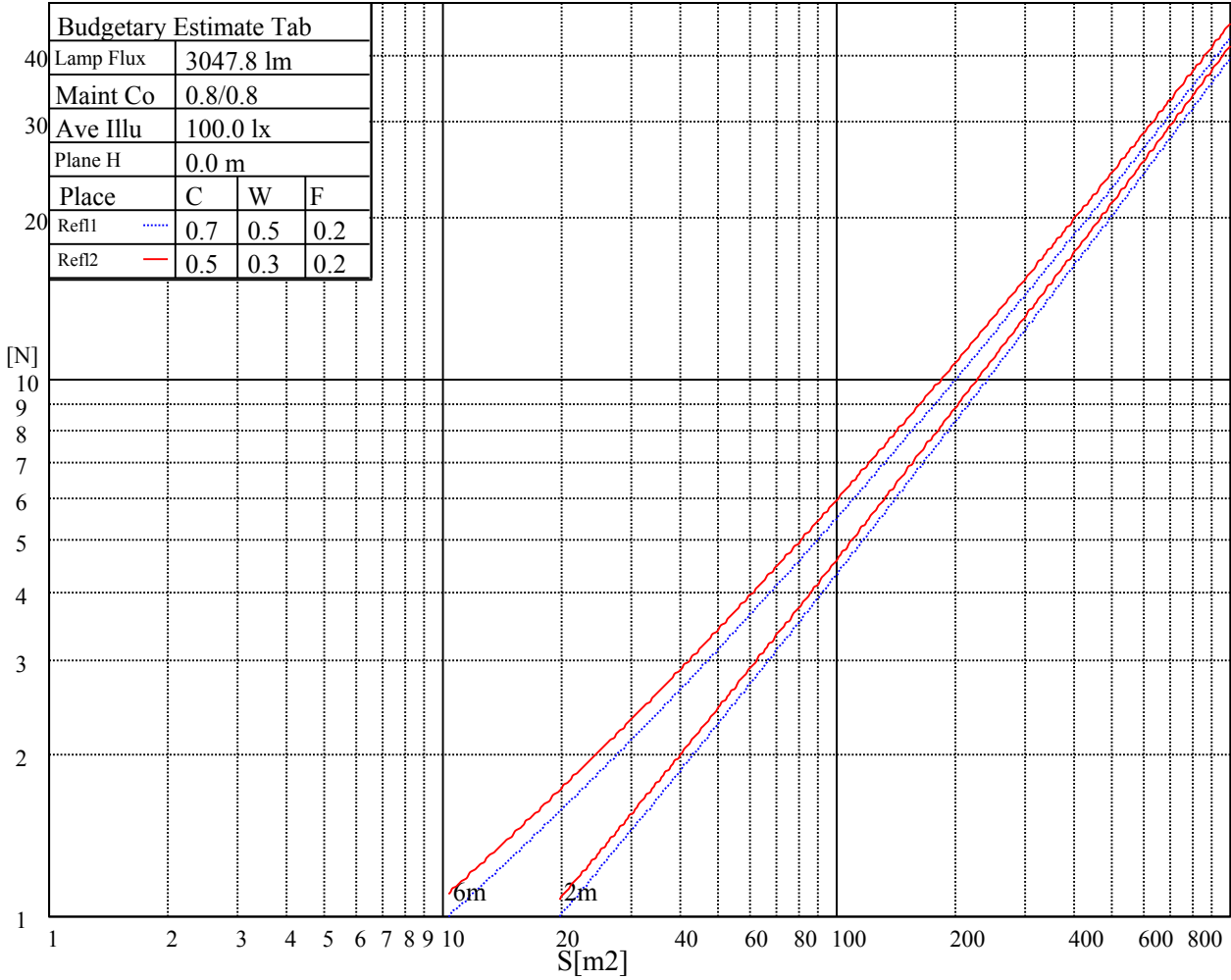
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

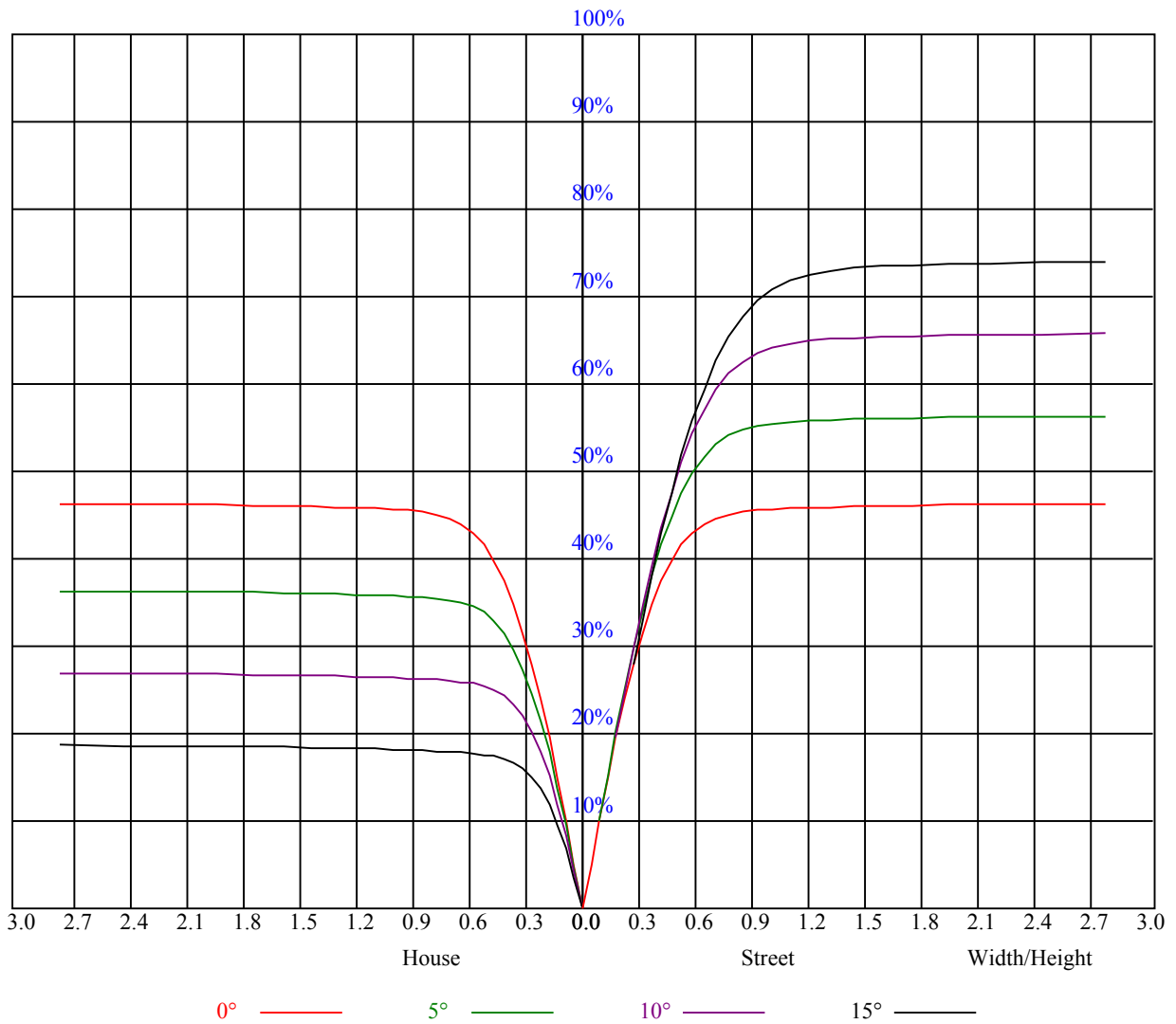


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.01	0.99	1.02	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	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	0.71	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.73	0.67	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
8	0.69	0.64	0.60	0.68	0.64	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.58
9	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.55
10	0.63	0.58	0.54	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.53



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	4469.25	4454.86	4418.88	4371.27	4297.65	4237.32	4179.75	4085.10	3966.64
45.0	4490.84	4475.89	4463.71	4452.09	4423.31	4371.83	4307.06	4227.35	4157.06
90.0	4495.82	4484.75	4479.77	4463.71	4438.81	4375.70	4330.31	4265.55	4181.41
135.0	4508.55	4526.26	4508.55	4518.51	4520.17	4500.80	4481.43	4437.14	4371.27
180.0	4469.25	4486.41	4518.51	4524.60	4533.46	4543.98	4535.67	4510.21	4469.25
225.0	4490.84	4500.80	4515.19	4518.51	4514.64	4490.28	4458.18	4419.98	4357.99
270.0	4495.82	4495.27	4498.03	4496.37	4480.87	4444.89	4423.86	4379.02	4301.53
315.0	4508.55	4487.52	4477.00	4452.09	4406.70	4357.44	4271.64	4203.55	4107.24
360.0	4469.25	4454.86	4418.88	4371.27	4297.65	4237.32	4179.75	4085.10	3966.64
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3870.32	3771.24	3644.48	3539.86	3421.96	3320.11	3201.65	3086.52	2950.35
45.0	4036.94	3949.48	3836.56	3712.57	3603.52	3516.61	3418.08	3278.04	3164.01
90.0	4056.31	3960.00	3859.25	3758.51	3626.77	3523.26	3379.34	3252.58	3133.57
135.0	4311.49	4235.66	4124.40	4020.89	3896.89	3745.78	3631.20	3479.53	3361.62
180.0	4424.41	4344.15	4254.48	4158.72	4025.87	3913.50	3802.79	3674.93	3527.68
225.0	4250.60	4145.98	4059.08	3939.52	3832.68	3715.33	3582.48	3478.42	3356.64
270.0	4227.91	4136.57	4048.56	3924.02	3812.76	3699.83	3584.70	3453.51	3351.66
315.0	4027.53	3908.52	3808.33	3705.37	3597.43	3466.24	3364.39	3253.13	3111.43
360.0	3870.32	3771.24	3644.48	3539.86	3421.96	3320.11	3201.65	3086.52	2950.35
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2829.68	2700.15	2565.64	2399.58	2259.53	2116.17	1940.14	1796.78	1647.88
45.0	3052.20	2932.08	2775.98	2639.26	2511.39	2334.81	2194.77	2050.30	1871.51
90.0	2976.36	2848.50	2715.09	2582.25	2406.77	2252.89	2106.20	1963.95	1778.51
135.0	3238.74	3108.10	2946.47	2803.66	2660.85	2512.50	2330.94	2175.40	2022.62
180.0	3407.57	3289.66	3159.03	3006.25	2874.51	2728.93	2554.57	2416.18	2218.02
225.0	3197.22	3074.34	2946.47	2813.62	2643.69	2500.32	2356.40	2215.25	2040.33
270.0	3204.97	3096.48	2972.49	2804.21	2674.69	2532.98	2385.19	2225.77	2085.17
315.0	2990.76	2862.89	2698.49	2568.96	2430.02	2268.94	2130.01	1988.30	1848.81
360.0	2829.68	2700.15	2565.64	2399.58	2259.53	2116.17	1940.14	1796.78	1647.88
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1454.69	1072.09	1072.09	960.55	821.17	691.98	578.50	450.91	363.84
45.0	1717.07	1527.21	1378.30	1227.74	1077.73	892.30	752.81	627.16	515.90
90.0	1625.74	1472.96	1088.69	1088.69	978.10	834.29	667.29	549.50	419.69
135.0	1869.29	1684.96	1533.85	1386.05	1200.07	1053.38	872.37	740.08	622.17
180.0	2072.44	1929.07	1774.64	1588.09	1434.77	1278.67	1129.21	945.44	810.38
225.0	1891.43	1704.34	1556.54	1287.52	1098.16	1061.46	915.22	776.28	622.73
270.0	1955.64	1796.78	1619.65	1477.94	1325.17	1128.11	984.19	843.59	683.62
315.0	1670.57	1526.65	1264.83	1077.24	1040.15	897.50	766.76	649.13	518.11
360.0	1454.69	1072.09	1072.09	960.55	821.17	691.98	578.50	450.91	363.84
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	292.60	234.87	178.63	145.80	121.00	97.64	83.86	70.91	63.05
45.0	392.46	311.64	293.93	218.04	144.81	119.29	96.54	82.92	72.57
90.0	334.56	265.64	210.40	158.75	128.92	107.66	91.11	76.17	66.98
135.0	517.00	398.55	320.50	285.62	285.62	152.00	124.82	104.29	88.90
180.0	680.85	567.93	440.61	354.82	283.41	283.41	164.18	126.48	104.62
225.0	513.79	416.04	333.78	251.36	199.61	159.42	122.94	101.96	83.14
270.0	572.36	449.47	363.12	291.16	291.16	171.21	138.94	114.31	95.32
315.0	424.78	326.48	262.93	212.00	162.24	133.01	110.60	93.22	77.94
360.0	292.60	234.87	178.63	145.80	121.00	97.64	83.86	70.91	63.05

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	56.85	50.54	46.39	42.84	39.91	36.81	34.82	32.99	31.55
45.0	62.60	56.29	51.20	46.72	42.12	39.19	36.75	34.65	32.49
90.0	59.73	52.64	47.99	44.12	40.13	37.53	35.37	33.10	31.55
135.0	74.84	66.37	59.62	52.75	48.21	43.56	40.52	37.92	35.81
180.0	88.51	76.61	65.54	58.84	52.09	47.66	43.90	40.68	37.97
225.0	72.29	63.93	57.24	50.65	46.39	42.73	39.69	36.48	34.43
270.0	78.60	68.92	61.50	55.63	49.49	45.56	42.12	38.53	36.20
315.0	68.92	61.72	55.96	50.21	46.28	42.84	39.36	36.92	34.87
360.0	56.85	50.54	46.39	42.84	39.91	36.81	34.82	32.99	31.55
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.89	28.67	27.62	26.68	25.57	24.80	23.91	23.25	22.64
45.0	31.05	29.72	28.29	27.29	26.35	25.24	24.52	23.86	23.03
90.0	30.17	28.67	27.62	26.68	25.79	24.85	24.13	23.47	22.86
135.0	33.60	31.99	30.61	29.45	28.01	27.01	26.18	25.13	24.36
180.0	35.20	33.38	31.77	30.44	28.95	27.84	26.68	25.85	25.08
225.0	32.60	31.00	29.39	28.23	27.01	26.07	25.24	24.30	23.64
270.0	33.65	31.94	30.50	29.17	27.84	26.79	25.96	25.13	24.19
315.0	32.60	31.11	29.50	28.34	27.29	26.29	25.30	24.52	23.80
360.0	29.89	28.67	27.62	26.68	25.57	24.80	23.91	23.25	22.64
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.98	21.42	20.87	20.43	19.76	19.32	18.82	18.38	17.82
45.0	22.42	21.92	21.42	20.76	20.26	19.82	19.37	18.82	18.32
90.0	22.20	21.64	21.03	20.54	20.04	19.48	18.99	18.54	18.16
135.0	23.69	22.92	22.36	21.64	21.09	20.65	20.15	19.48	18.99
180.0	24.19	23.53	22.86	22.20	21.64	21.15	20.59	20.04	19.43
225.0	22.97	22.20	21.70	21.15	20.65	20.04	19.54	19.10	18.60
270.0	23.53	22.86	22.25	21.53	20.98	20.37	19.87	19.43	18.82
315.0	23.14	22.47	21.75	21.20	20.54	20.04	19.54	18.99	18.49
360.0	21.98	21.42	20.87	20.43	19.76	19.32	18.82	18.38	17.82
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.33	16.94	16.44	16.00	15.39	15.06	14.61	14.12	13.78
45.0	17.77	17.33	16.99	16.44	16.05	15.61	15.11	14.72	14.28
90.0	17.55	17.16	16.77	16.38	15.83	15.39	15.00	14.39	14.00
135.0	18.54	18.05	17.49	17.05	16.66	16.16	15.72	15.28	14.72
180.0	19.04	18.60	17.99	17.55	16.99	16.55	16.11	15.61	15.11
225.0	18.05	17.60	17.16	16.66	16.22	15.72	15.28	14.89	14.50
270.0	18.38	17.93	17.44	16.94	16.50	16.05	15.61	15.11	14.67
315.0	17.99	17.38	16.94	16.55	16.05	15.55	15.11	14.67	14.28
360.0	17.33	16.94	16.44	16.00	15.39	15.06	14.61	14.12	13.78
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.45	13.06	12.84	12.51	12.29	12.01	11.79	11.62	11.62
45.0	13.95	13.45	13.12	12.73	12.51	12.23	11.96	11.73	11.51
90.0	13.67	13.28	12.95	12.62	12.34	12.12	11.85	11.68	11.57
135.0	14.34	13.95	13.40	13.06	12.73	12.45	12.18	12.01	11.73
180.0	14.72	14.23	13.78	13.45	13.06	12.79	12.40	12.12	11.96
225.0	13.95	13.62	13.28	12.84	12.62	12.34	12.12	11.85	11.68
270.0	14.34	13.84	13.40	13.01	12.68	12.40	12.18	11.96	11.73
315.0	13.84	13.45	13.06	12.79	12.51	12.23	12.01	11.73	11.57
360.0	13.45	13.06	12.84	12.51	12.29	12.01	11.79	11.62	11.62

Intensity data(cd)

C/ γ (°)	90.0
0.0	11.62
45.0	11.57
90.0	11.57
135.0	11.62
180.0	11.73
225.0	11.57
270.0	11.57
315.0	11.57
360.0	11.62