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NT

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231117-B017

Ballast type: AC

Test No: 20231117-C017

Voltage(V): 35.890

LampCAT: P2141-036-1206-P3090-1

Current(A): 0.700

Lamp flux(lm): 3111.0

Power (W): 25.123

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2830.61, Efficiency(%): 90.99% , Luminous Efficacy(lm/W): 112.67

Central intensity(cd): 4774.248, Maximum intensity(cd): 4774.248

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=47.8

[C90/270]Total=47.8

Field angle(10%Imax): [C0/180]Total=67.4

[C90/270]Total=67.4

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

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.99%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.909%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4774.248	0.000	0	0.00%	0.00%
1.0	4764.976	4.564	4.564	0.15%	0.16%
2.0	4739.444	13.642	18.206	0.44%	0.64%
3.0	4708.170	22.596	40.802	0.73%	1.44%
4.0	4662.641	31.367	72.169	1.01%	2.55%
5.0	4605.765	39.872	112.041	1.28%	3.96%
6.0	4534.290	48.033	160.074	1.54%	5.66%
7.0	4456.311	55.805	215.879	1.79%	7.63%
8.0	4386.150	63.284	279.163	2.03%	9.86%
9.0	4309.416	70.473	349.635	2.27%	12.35%
10.0	4235.865	77.332	426.967	2.49%	15.08%
11.0	4151.866	83.811	510.778	2.69%	18.04%
12.0	4061.017	89.779	600.556	2.89%	21.22%
13.0	3963.249	95.228	695.784	3.06%	24.58%
14.0	3864.650	100.196	795.981	3.22%	28.12%
15.0	3759.755	104.671	900.652	3.36%	31.82%
16.0	3643.789	108.483	1009.134	3.49%	35.65%
17.0	3508.311	111.377	1120.512	3.58%	39.59%
18.0	3374.771	113.487	1233.999	3.65%	43.59%
19.0	3222.064	114.771	1348.77	3.69%	47.65%
20.0	3066.036	115.090	1463.86	3.70%	51.72%
21.0	2896.308	114.489	1578.349	3.68%	55.76%
22.0	2727.756	113.018	1691.367	3.63%	59.75%
23.0	2556.714	110.882	1802.249	3.56%	63.67%
24.0	2368.027	107.672	1909.922	3.46%	67.47%
25.0	2184.668	103.518	2013.44	3.33%	71.13%
26.0	1977.646	98.252	2111.692	3.16%	74.60%
27.0	1723.926	90.560	2202.252	2.91%	77.80%
28.0	1478.806	81.086	2283.338	2.61%	80.67%
29.0	1262.941	71.732	2355.07	2.31%	83.20%
30.0	1112.884	64.147	2419.217	2.06%	85.47%
31.0	922.399	56.639	2475.856	1.82%	87.47%
32.0	743.966	47.739	2523.595	1.53%	89.15%
33.0	577.912	38.943	2562.538	1.25%	90.53%
34.0	432.478	30.577	2593.116	0.98%	91.61%
35.0	328.579	23.636	2616.751	0.76%	92.44%
36.0	259.788	18.734	2635.485	0.60%	93.11%
37.0	214.315	15.463	2650.948	0.50%	93.65%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	182.252	13.237	2664.185	0.43%	94.12%
39.0	134.198	10.801	2674.986	0.35%	94.50%
40.0	116.941	8.759	2683.745	0.28%	94.81%
41.0	102.722	7.822	2691.567	0.25%	95.09%
42.0	91.465	7.055	2698.622	0.23%	95.34%
43.0	82.069	6.428	2705.05	0.21%	95.56%
44.0	73.994	5.890	2710.94	0.19%	95.77%
45.0	67.414	5.434	2716.375	0.17%	95.96%
46.0	62.003	5.061	2721.436	0.16%	96.14%
47.0	57.402	4.749	2726.185	0.15%	96.31%
48.0	53.361	4.478	2730.663	0.14%	96.47%
49.0	49.970	4.243	2734.906	0.14%	96.62%
50.0	46.698	4.030	2738.936	0.13%	96.76%
51.0	44.006	3.838	2742.774	0.12%	96.90%
52.0	41.474	3.668	2746.442	0.12%	97.03%
53.0	39.329	3.515	2749.957	0.11%	97.15%
54.0	37.412	3.382	2753.339	0.11%	97.27%
55.0	35.620	3.260	2756.599	0.10%	97.39%
56.0	34.119	3.151	2759.751	0.10%	97.50%
57.0	32.610	3.051	2762.802	0.10%	97.60%
58.0	31.316	2.956	2765.758	0.10%	97.71%
59.0	30.085	2.871	2768.628	0.09%	97.81%
60.0	29.019	2.792	2771.421	0.09%	97.91%
61.0	27.981	2.720	2774.141	0.09%	98.01%
62.0	27.082	2.653	2776.794	0.09%	98.10%
63.0	26.168	2.590	2779.384	0.08%	98.19%
64.0	25.393	2.530	2781.914	0.08%	98.28%
65.0	24.667	2.477	2784.391	0.08%	98.37%
66.0	23.927	2.425	2786.816	0.08%	98.45%
67.0	23.207	2.370	2789.186	0.08%	98.54%
68.0	22.612	2.321	2791.507	0.07%	98.62%
69.0	21.934	2.273	2793.78	0.07%	98.70%
70.0	21.353	2.223	2796.003	0.07%	98.78%
71.0	20.758	2.176	2798.179	0.07%	98.85%
72.0	20.204	2.130	2800.309	0.07%	98.93%
73.0	19.623	2.083	2802.392	0.07%	99.00%
74.0	19.069	2.034	2804.426	0.07%	99.08%
75.0	18.530	1.987	2806.412	0.06%	99.15%

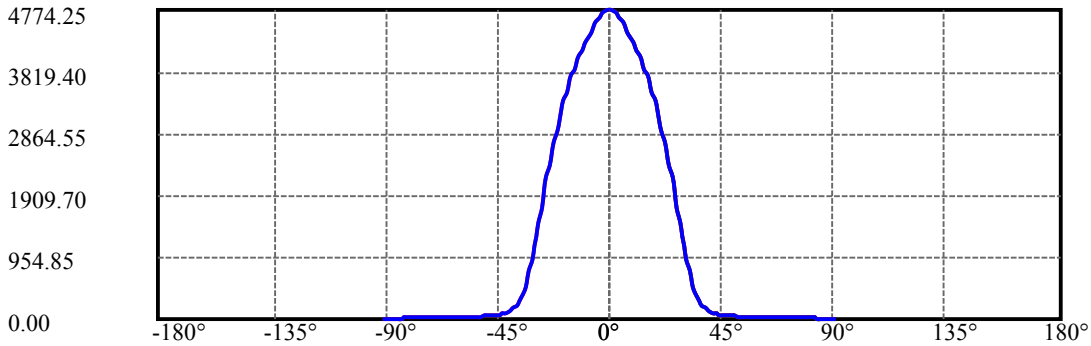
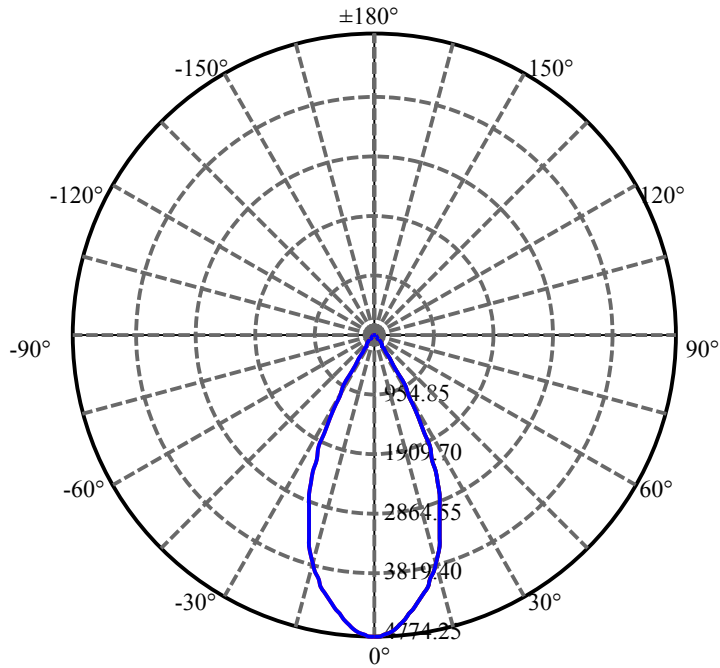
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.962	1.937	2808.35	0.06%	99.21%
77.0	17.423	1.887	2810.236	0.06%	99.28%
78.0	16.862	1.835	2812.071	0.06%	99.35%
79.0	16.343	1.784	2813.855	0.06%	99.41%
80.0	15.838	1.735	2815.59	0.06%	99.47%
81.0	15.354	1.687	2817.277	0.05%	99.53%
82.0	14.876	1.639	2818.917	0.05%	99.59%
83.0	14.447	1.594	2820.511	0.05%	99.64%
84.0	14.018	1.551	2822.061	0.05%	99.70%
85.0	13.624	1.509	2823.57	0.05%	99.75%
86.0	13.292	1.471	2825.041	0.05%	99.80%
87.0	13.008	1.439	2826.481	0.05%	99.85%
88.0	12.634	1.405	2827.885	0.05%	99.90%
89.0	12.378	1.371	2829.256	0.04%	99.95%
90.0	12.288	1.352	2830.609	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2419.22	77.76%	85.47%
0-40	2683.74	86.27%	94.81%
0-60	2771.42	89.09%	97.91%
0-90	2829.26	90.94%	99.95%
0-120	2829.26	90.94%	99.95%
0-180	2830.61	90.99%	100.00%
60-90	57.84	1.86%	2.04%
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%
0-27.77	2264.49	72.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	426.97
10-20	1036.89
20-30	955.36
30-40	264.53
40-50	55.19
50-60	32.48
60-70	24.58
70-80	19.59
80-90	13.67
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: —————

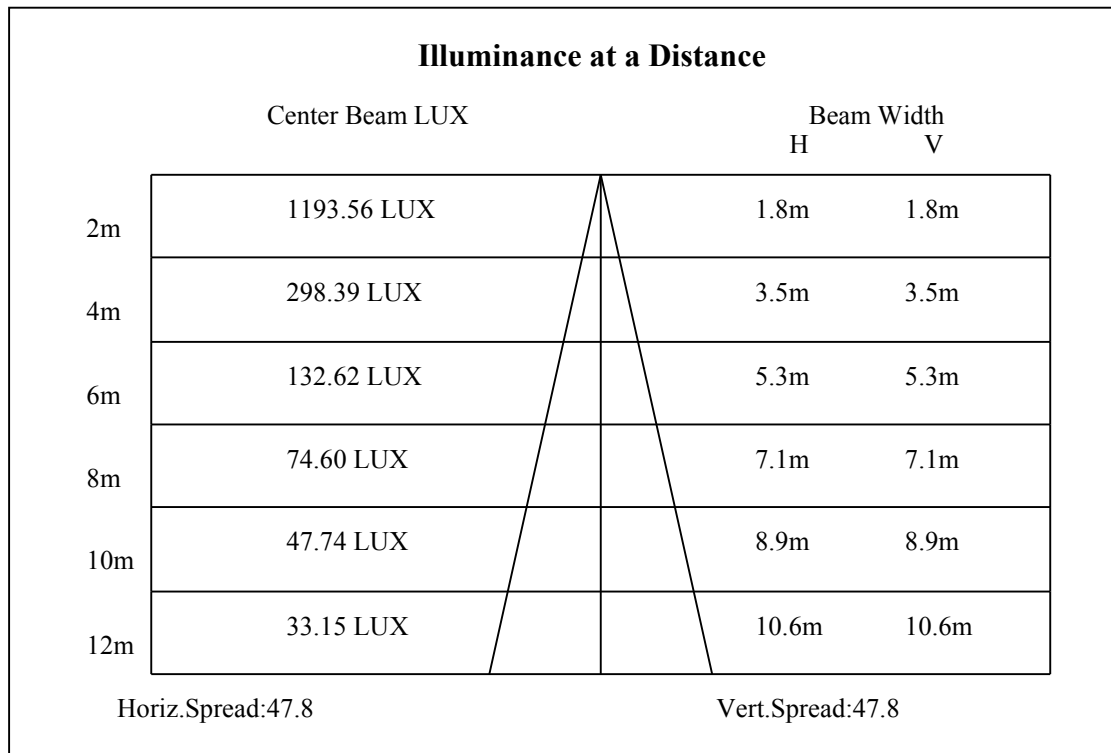
C90/C270: —————

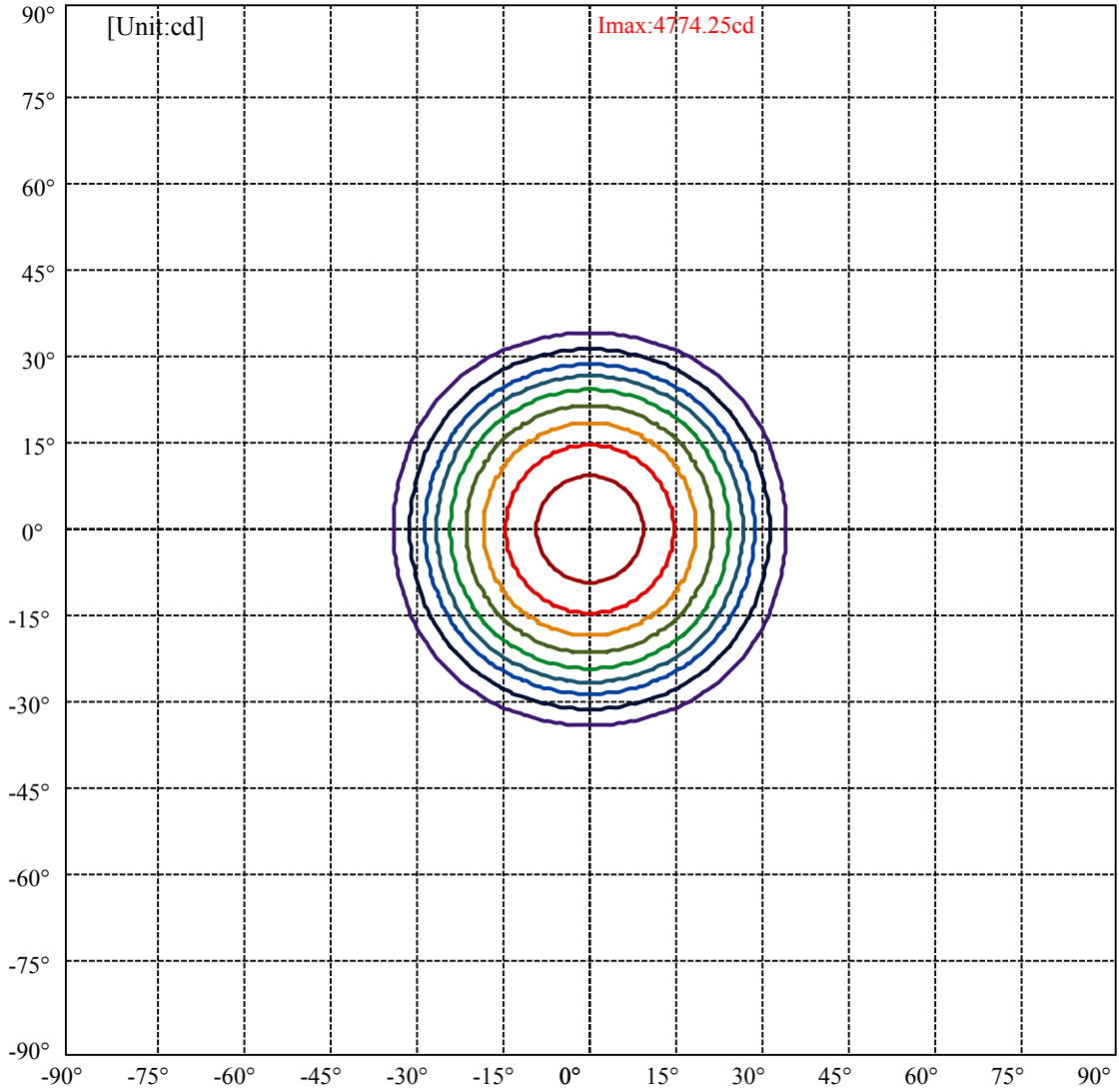
Field angle(10%Imax):C0/180Left:33.7 Right:33.7

:C90/270Left:33.7 Right:33.7

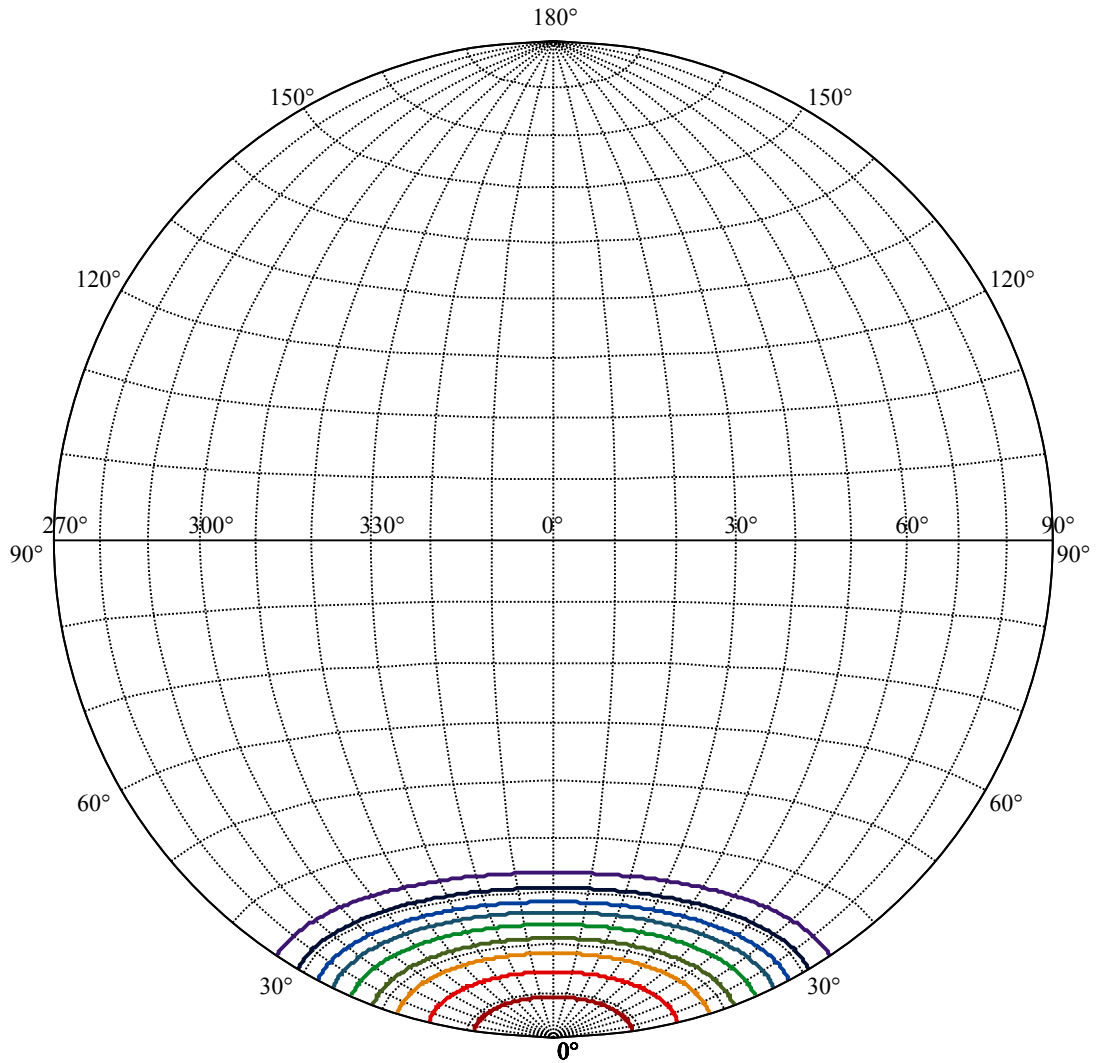
Beam Angle(50%Imax):C0/180Left:23.9 Right:23.9

:C90/270Left:23.9 Right:23.9





(10%Imax) 477.425	—
(20%Imax) 954.85	—
(30%Imax) 1432.27	—
(40%Imax) 1909.7	—
(50%Imax) 2387.12	—
(60%Imax) 2864.55	—
(70%Imax) 3341.97	—
(80%Imax) 3819.4	—
(90%Imax) 4296.82	—



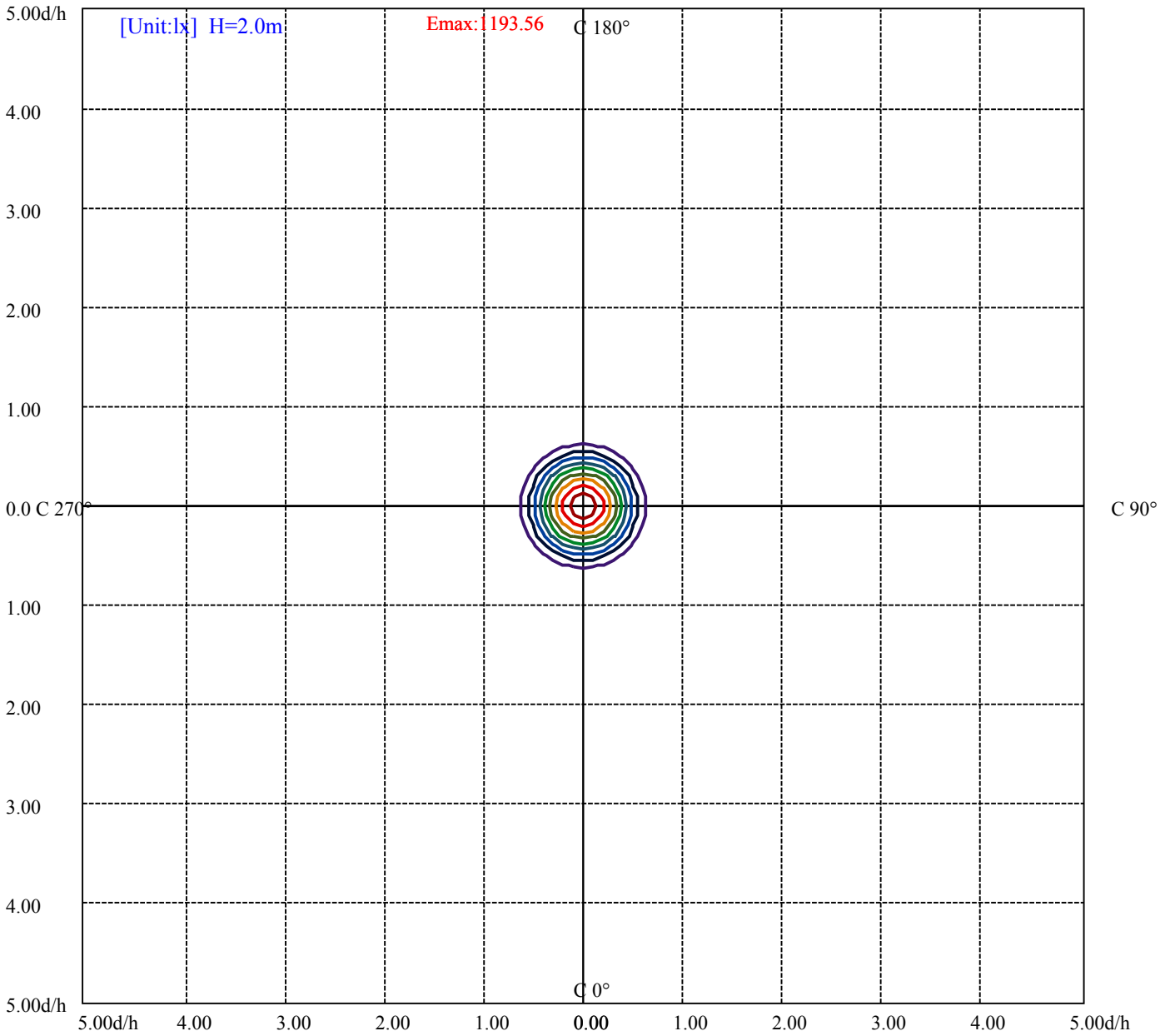
House

[Unit:cd]

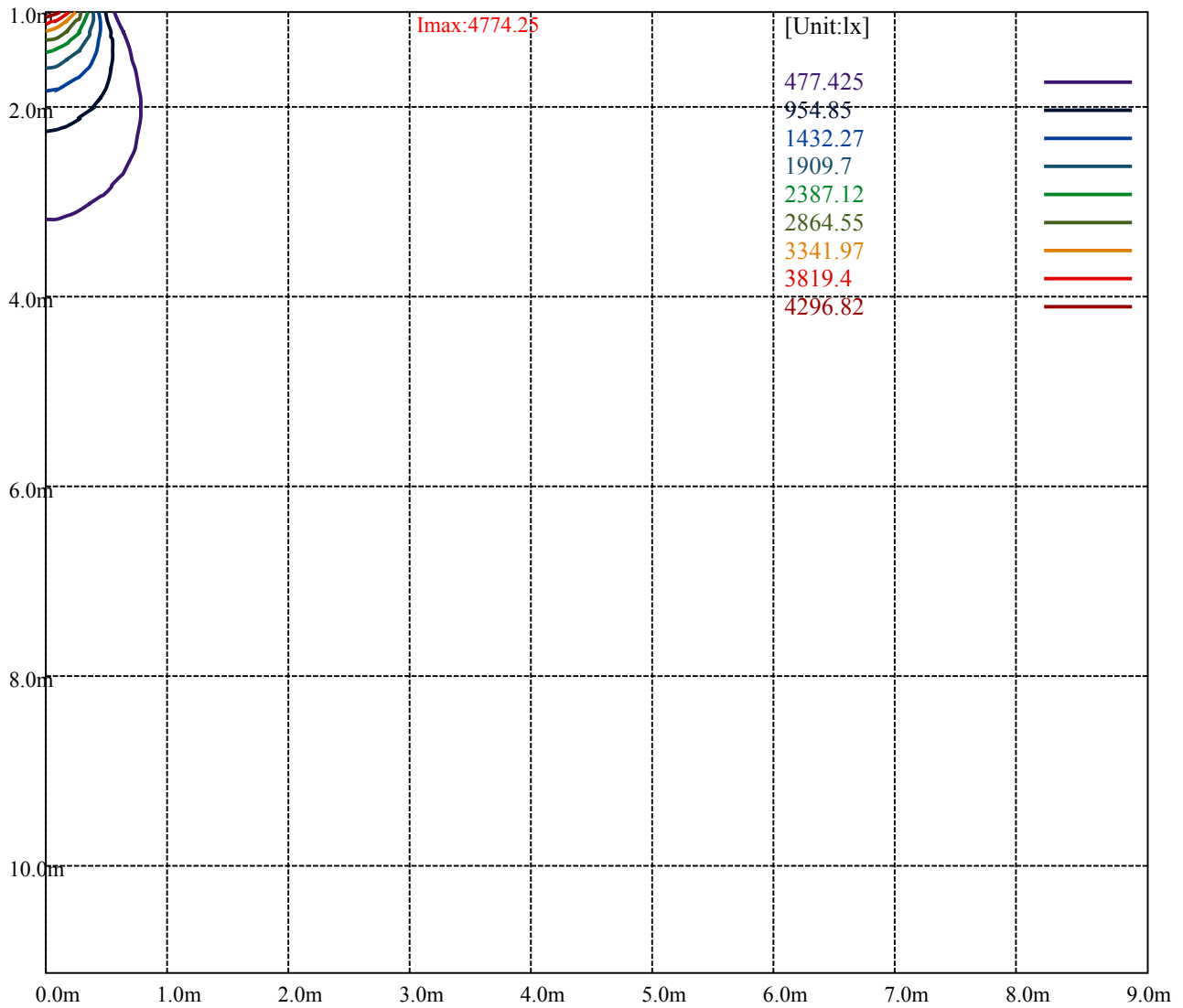
Road

Imax:4774.25

(10%Imax) 477.425	—
(20%Imax) 954.85	—
(30%Imax) 1432.27	—
(40%Imax) 1909.7	—
(50%Imax) 2387.12	—
(60%Imax) 2864.55	—
(70%Imax) 3341.97	—
(80%Imax) 3819.4	—
(90%Imax) 4296.82	—



- (10%Emax) 119.3562
- (20%Emax) 238.7122
- (30%Emax) 358.0675
- (40%Emax) 477.425
- (50%Emax) 596.78
- (60%Emax) 716.1375
- (70%Emax) 835.4925
- (80%Emax) 954.85
- (90%Emax) 1074.205



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

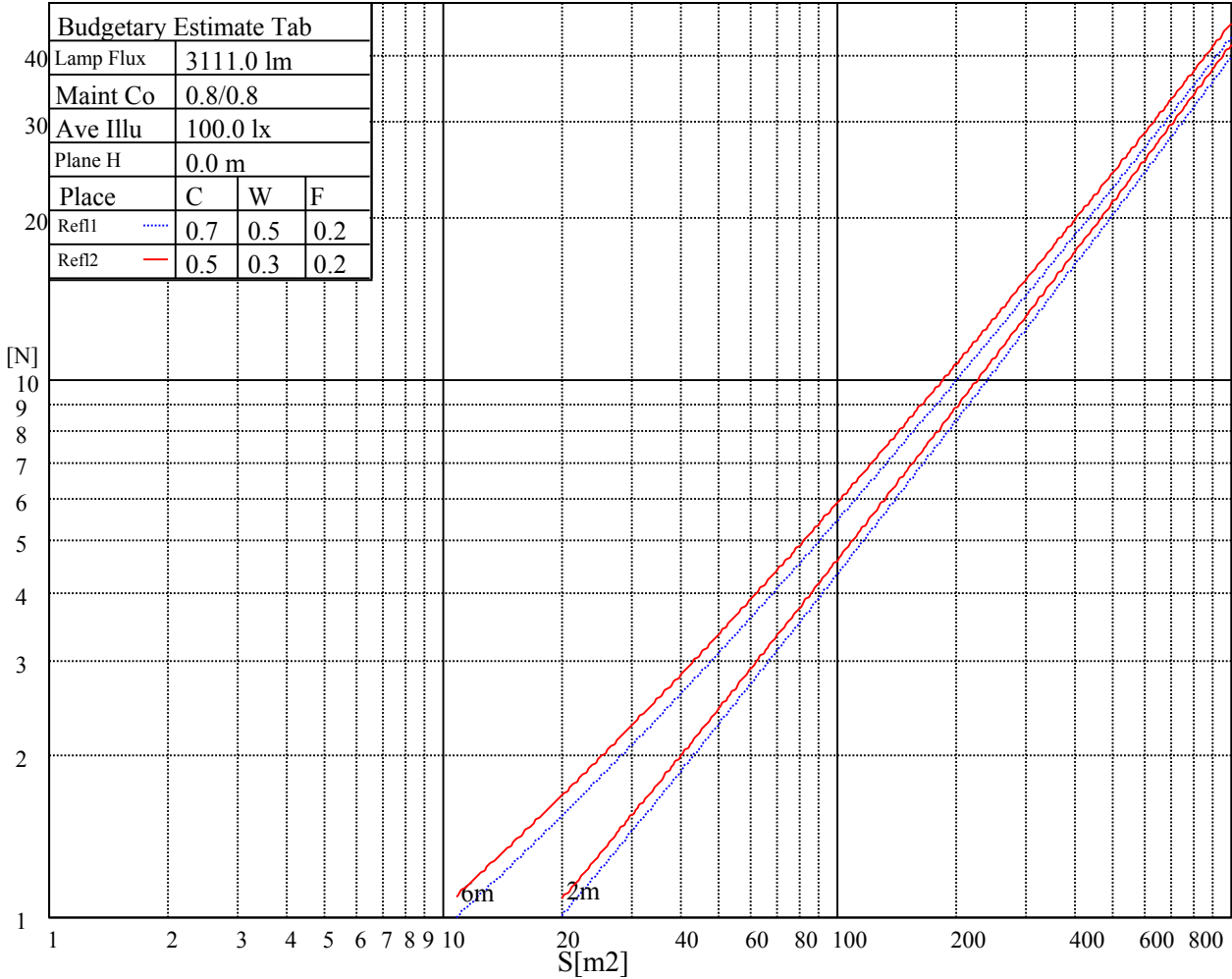
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

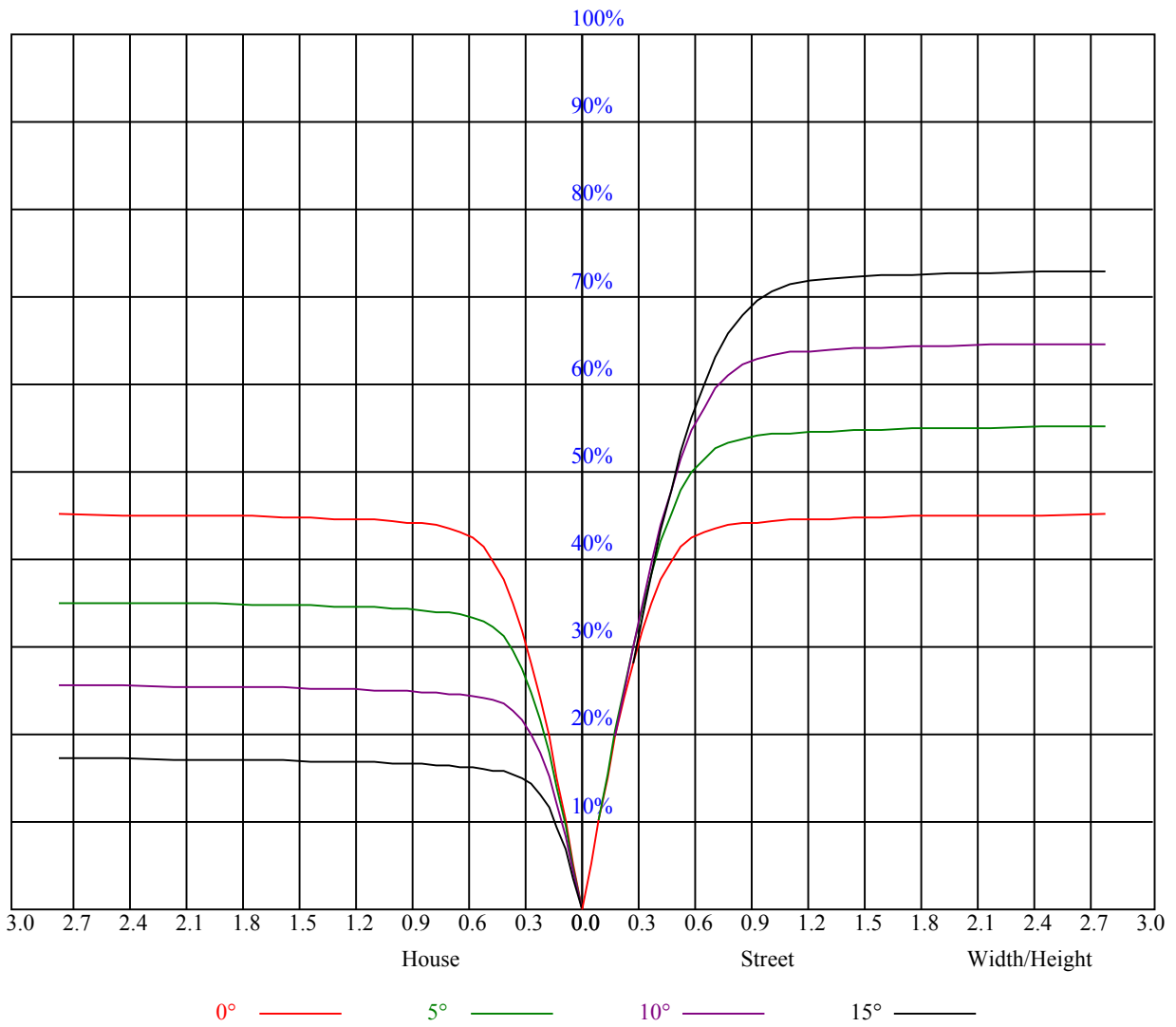


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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
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	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	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	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	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 RHOF=20 CU															
0	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.55
10	0.62	0.58	0.54	0.62	0.57	0.54	0.61	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	4748.23	4712.25	4677.38	4628.67	4560.58	4468.70	4403.93	4332.53	4252.82
45.0	4789.75	4749.34	4713.91	4685.13	4622.58	4563.90	4493.61	4405.04	4339.72
90.0	4763.18	4722.77	4696.20	4656.90	4581.62	4515.19	4431.06	4351.90	4286.58
135.0	4795.84	4787.53	4744.36	4715.57	4677.93	4622.03	4536.78	4462.05	4373.49
180.0	4748.23	4786.43	4790.85	4758.75	4731.63	4698.41	4649.15	4574.42	4506.89
225.0	4789.75	4789.19	4755.98	4731.07	4708.38	4645.27	4575.53	4497.48	4433.82
270.0	4763.18	4793.62	4792.51	4772.03	4733.84	4712.25	4660.77	4578.85	4506.34
315.0	4795.84	4778.68	4744.36	4717.23	4684.58	4620.36	4523.50	4448.22	4389.54
360.0	4748.23	4712.25	4677.38	4628.67	4560.58	4468.70	4403.93	4332.53	4252.82
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4161.48	4083.99	3995.42	3877.52	3776.22	3648.91	3539.86	3413.66	3235.42
45.0	4267.21	4198.57	4090.08	4005.94	3911.84	3823.27	3702.60	3585.81	3457.94
90.0	4228.46	4119.97	4031.40	3936.19	3819.40	3716.99	3614.04	3501.67	3355.54
135.0	4310.38	4242.85	4168.68	4064.06	3970.51	3884.72	3789.51	3656.11	3536.54
180.0	4418.32	4369.06	4307.06	4235.66	4141.00	4050.78	3959.44	3867.56	3728.62
225.0	4369.61	4295.44	4209.09	4135.47	4059.63	3947.82	3855.38	3712.01	3593.56
270.0	4437.14	4367.40	4279.39	4206.87	4100.04	4010.37	3917.37	3812.20	3679.91
315.0	4282.71	4209.64	4133.81	4026.42	3927.34	3834.34	3699.83	3601.31	3478.97
360.0	4161.48	4083.99	3995.42	3877.52	3776.22	3648.91	3539.86	3413.66	3235.42
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3093.71	2940.94	2779.30	2582.80	2418.95	2250.68	2059.71	1813.38	1613.00
45.0	3298.52	3159.58	2966.40	2804.21	2652.54	2498.66	2292.75	2107.87	1907.49
90.0	3215.49	3076.00	2933.74	2754.40	2604.39	2441.65	2217.47	2018.75	1761.91
135.0	3407.57	3236.52	3082.64	2926.54	2732.25	2566.19	2360.28	2184.25	1988.30
180.0	3596.88	3464.03	3292.99	3133.01	2917.13	2744.43	2578.37	2418.40	2210.82
225.0	3467.35	3283.58	3133.01	2976.36	2815.28	2612.69	2454.93	2284.44	2096.24
270.0	3567.54	3444.65	3316.79	3123.60	2960.31	2813.07	2617.12	2460.47	2291.64
315.0	3351.11	3171.21	3023.41	2869.53	2721.18	2526.34	2363.60	2189.79	1951.77
360.0	3093.71	2940.94	2779.30	2582.80	2418.95	2250.68	2059.71	1813.38	1613.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1072.81	1072.81	983.08	811.15	610.55	467.90	345.19	239.57	194.57
45.0	1697.69	1444.18	1248.22	1055.59	835.29	673.10	529.18	375.30	300.02
90.0	1550.45	1091.79	1091.79	898.00	720.26	559.85	421.57	288.50	221.25
135.0	1781.83	1526.10	1331.25	1141.39	952.08	734.54	577.34	440.61	327.69
180.0	2025.94	1834.42	1645.66	1402.11	1210.03	1022.93	805.39	646.53	500.95
225.0	1850.47	1655.63	1099.10	1099.10	1001.79	816.35	650.90	468.51	349.34
270.0	2059.15	1860.99	1601.93	1393.25	1182.91	981.97	752.81	590.62	448.92
315.0	1753.05	1344.54	1102.48	1102.48	866.28	695.08	540.92	410.17	285.90
360.0	1072.81	1072.81	983.08	811.15	610.55	467.90	345.19	239.57	194.57
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	164.95	142.81	122.11	109.16	98.20	88.73	78.88	72.24	66.54
45.0	300.02	166.56	141.98	123.60	106.11	94.60	85.41	77.33	69.19
90.0	180.51	151.78	126.04	111.04	98.58	86.19	78.05	69.80	64.21
135.0	280.64	280.64	153.61	127.92	112.64	97.15	87.46	78.99	72.07
180.0	350.94	301.12	301.12	162.57	139.60	122.11	104.62	93.27	83.58
225.0	242.17	196.67	165.84	142.48	120.78	106.89	95.21	85.36	75.61
270.0	332.68	286.18	286.18	160.86	139.16	118.62	105.50	94.49	83.20
315.0	226.40	188.76	161.13	135.95	120.45	107.50	96.59	85.08	77.55
360.0	164.95	142.81	122.11	109.16	98.20	88.73	78.88	72.24	66.54

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	60.56	56.41	52.81	48.88	46.00	43.51	40.80	38.80	37.09
45.0	63.66	59.06	54.97	50.65	47.55	44.12	41.79	39.69	37.42
90.0	59.45	55.52	51.09	47.99	45.28	42.84	40.19	38.30	36.53
135.0	64.93	60.11	55.96	52.42	48.32	45.45	42.95	40.74	38.30
180.0	75.78	68.03	62.83	58.45	54.74	50.65	47.71	44.50	42.18
225.0	69.36	64.10	58.51	54.86	51.48	47.77	45.17	42.18	40.13
270.0	75.89	68.20	63.05	58.51	54.74	50.65	47.71	45.00	42.57
315.0	69.69	64.60	60.00	55.13	51.64	48.60	45.72	42.57	40.41
360.0	60.56	56.41	52.81	48.88	46.00	43.51	40.80	38.80	37.09
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.43	33.65	32.33	31.11	30.00	28.73	27.84	26.74	25.96
45.0	35.76	34.21	32.88	31.33	30.22	29.17	28.17	27.07	26.24
90.0	34.60	33.21	31.88	30.44	29.39	28.40	27.29	26.51	25.74
135.0	36.64	34.71	33.27	31.99	30.56	29.45	28.51	27.57	26.57
180.0	40.19	37.92	36.26	34.71	33.38	31.88	30.78	29.72	28.84
225.0	38.30	36.59	34.98	33.27	31.99	30.83	29.84	28.56	27.68
270.0	39.91	37.97	36.26	34.71	32.99	31.66	30.28	29.23	28.29
315.0	38.47	36.70	35.09	33.32	31.99	30.56	29.45	28.45	27.34
360.0	35.43	33.65	32.33	31.11	30.00	28.73	27.84	26.74	25.96
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.24	24.30	23.69	23.03	22.25	21.70	21.09	20.59	19.93
45.0	25.46	24.80	23.97	23.36	22.64	22.09	21.48	20.76	20.31
90.0	24.85	24.13	23.58	22.97	22.20	21.64	21.09	20.54	19.93
135.0	25.79	25.13	24.47	23.69	23.14	22.53	21.75	21.20	20.70
180.0	27.73	26.90	26.13	25.19	24.47	23.80	23.03	22.42	21.81
225.0	26.63	25.85	25.13	24.24	23.58	22.97	22.25	21.64	21.03
270.0	27.18	26.35	25.57	24.85	23.97	23.36	22.75	22.20	21.42
315.0	26.46	25.68	24.80	24.08	23.41	22.81	22.03	21.48	20.92
360.0	25.24	24.30	23.69	23.03	22.25	21.70	21.09	20.59	19.93
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.43	18.93	18.43	17.82	17.33	16.83	16.22	15.78	15.28
45.0	19.82	19.26	18.65	18.21	17.71	17.21	16.72	16.22	15.78
90.0	19.43	18.82	18.32	17.82	17.21	16.77	16.27	15.78	15.28
135.0	20.04	19.54	18.93	18.43	17.93	17.44	16.83	16.33	15.94
180.0	21.15	20.54	20.04	19.54	18.82	18.38	17.82	17.21	16.66
225.0	20.54	19.87	19.32	18.76	18.21	17.49	16.99	16.50	15.89
270.0	20.87	20.31	19.65	19.10	18.54	17.88	17.33	16.72	16.16
315.0	20.37	19.71	19.21	18.54	17.93	17.38	16.72	16.22	15.72
360.0	19.43	18.93	18.43	17.82	17.33	16.83	16.22	15.78	15.28
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.78	14.45	14.00	13.67	13.23	12.90	12.62	12.18	12.29
45.0	15.28	14.83	14.34	13.95	13.51	13.12	12.90	12.51	12.18
90.0	14.89	14.39	14.06	13.62	13.28	12.95	12.68	12.34	12.18
135.0	15.39	14.95	14.50	14.00	13.62	13.28	13.01	12.68	12.34
180.0	16.11	15.55	15.06	14.56	14.12	13.73	13.45	13.06	12.79
225.0	15.44	14.89	14.50	14.12	13.73	13.40	13.12	12.79	12.40
270.0	15.72	15.17	14.72	14.34	13.95	13.62	13.28	12.90	12.62
315.0	15.22	14.78	14.39	13.89	13.56	13.34	13.01	12.62	12.23
360.0	14.78	14.45	14.00	13.67	13.23	12.90	12.62	12.18	12.29

Intensity data(cd)

C/ γ (°)	90.0
0.0	12.40
45.0	12.18
90.0	12.12
135.0	12.18
180.0	12.34
225.0	12.34
270.0	12.34
315.0	12.40
360.0	12.40