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NT

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231117-B018

Ballast type: AC

Test No: 20231117-C018

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): 2837.79, Efficiency(%): 91.22% , Luminous Efficacy(lm/W): 112.96

Central intensity(cd): 4778.123, Maximum intensity(cd): 4778.123

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=47.4

[C90/270]Total=47.4

Field angle(10%Imax): [C0/180]Total=68.6

[C90/270]Total=68.6

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(%): 91.22%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.945%

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	4778.123	0.000	0	0.00%	0.00%
1.0	4769.266	4.568	4.568	0.15%	0.16%
2.0	4745.603	13.657	18.225	0.44%	0.64%
3.0	4714.189	22.625	40.85	0.73%	1.44%
4.0	4666.447	31.400	72.25	1.01%	2.55%
5.0	4605.489	39.887	112.137	1.28%	3.95%
6.0	4530.969	48.015	160.151	1.54%	5.64%
7.0	4456.726	55.786	215.938	1.79%	7.61%
8.0	4379.646	63.240	279.178	2.03%	9.84%
9.0	4306.233	70.394	349.572	2.26%	12.32%
10.0	4229.084	77.242	426.814	2.48%	15.04%
11.0	4145.362	83.678	510.492	2.69%	17.99%
12.0	4050.776	89.596	600.087	2.88%	21.15%
13.0	3952.039	94.973	695.061	3.05%	24.49%
14.0	3851.849	99.889	794.95	3.21%	28.01%
15.0	3750.691	104.371	899.321	3.35%	31.69%
16.0	3633.618	108.201	1007.522	3.48%	35.50%
17.0	3499.801	111.086	1118.608	3.57%	39.42%
18.0	3364.738	113.181	1231.789	3.64%	43.41%
19.0	3225.731	114.661	1346.45	3.69%	47.45%
20.0	3061.054	115.066	1461.516	3.70%	51.50%
21.0	2895.547	114.379	1575.895	3.68%	55.53%
22.0	2710.943	112.665	1688.559	3.62%	59.50%
23.0	2526.961	109.905	1798.465	3.53%	63.38%
24.0	2333.085	106.258	1904.723	3.42%	67.12%
25.0	2132.705	101.542	2006.265	3.26%	70.70%
26.0	1915.304	95.554	2101.819	3.07%	74.07%
27.0	1676.467	87.873	2189.692	2.82%	77.16%
28.0	1445.352	79.038	2268.73	2.54%	79.95%
29.0	1239.699	70.249	2338.979	2.26%	82.42%
30.0	1093.704	63.001	2401.98	2.03%	84.64%
31.0	918.143	55.987	2457.967	1.80%	86.62%
32.0	768.958	48.333	2506.3	1.55%	88.32%
33.0	625.039	41.068	2547.368	1.32%	89.77%
34.0	506.056	34.230	2581.598	1.10%	90.97%
35.0	408.323	28.397	2609.995	0.91%	91.97%
36.0	329.845	23.503	2633.499	0.76%	92.80%
37.0	270.575	19.582	2653.081	0.63%	93.49%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	233.046	16.810	2669.891	0.54%	94.08%
39.0	181.283	14.142	2684.034	0.45%	94.58%
40.0	137.844	11.130	2695.164	0.36%	94.97%
41.0	108.638	8.777	2703.941	0.28%	95.28%
42.0	91.562	7.274	2711.214	0.23%	95.54%
43.0	79.363	6.332	2717.546	0.20%	95.76%
44.0	70.341	5.650	2723.196	0.18%	95.96%
45.0	63.331	5.137	2728.333	0.17%	96.14%
46.0	57.699	4.733	2733.067	0.15%	96.31%
47.0	52.793	4.395	2737.461	0.14%	96.46%
48.0	49.016	4.116	2741.577	0.13%	96.61%
49.0	45.805	3.894	2745.471	0.13%	96.75%
50.0	42.844	3.696	2749.167	0.12%	96.88%
51.0	40.339	3.519	2752.686	0.11%	97.00%
52.0	38.229	3.371	2756.057	0.11%	97.12%
53.0	36.499	3.251	2759.308	0.10%	97.23%
54.0	34.748	3.140	2762.448	0.10%	97.35%
55.0	33.233	3.035	2765.483	0.10%	97.45%
56.0	31.960	2.946	2768.429	0.09%	97.56%
57.0	30.749	2.867	2771.296	0.09%	97.66%
58.0	29.642	2.793	2774.089	0.09%	97.76%
59.0	28.645	2.725	2776.814	0.09%	97.85%
60.0	27.753	2.664	2779.478	0.09%	97.95%
61.0	26.909	2.609	2782.087	0.08%	98.04%
62.0	26.155	2.557	2784.644	0.08%	98.13%
63.0	25.435	2.509	2787.153	0.08%	98.22%
64.0	24.715	2.461	2789.613	0.08%	98.30%
65.0	24.120	2.417	2792.03	0.08%	98.39%
66.0	23.511	2.377	2794.407	0.08%	98.47%
67.0	22.882	2.333	2796.74	0.07%	98.55%
68.0	22.287	2.288	2799.028	0.07%	98.63%
69.0	21.706	2.244	2801.272	0.07%	98.71%
70.0	21.145	2.201	2803.473	0.07%	98.79%
71.0	20.578	2.156	2805.629	0.07%	98.87%
72.0	20.017	2.111	2807.74	0.07%	98.94%
73.0	19.450	2.064	2809.804	0.07%	99.01%
74.0	18.938	2.018	2811.822	0.06%	99.08%
75.0	18.357	1.971	2813.792	0.06%	99.15%

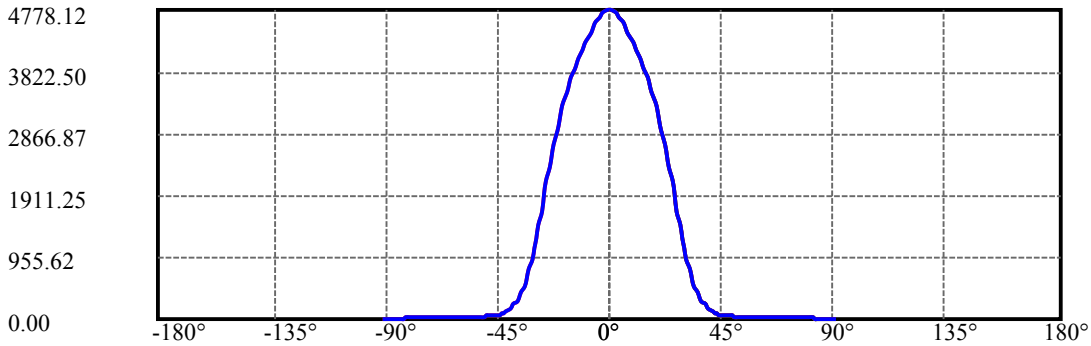
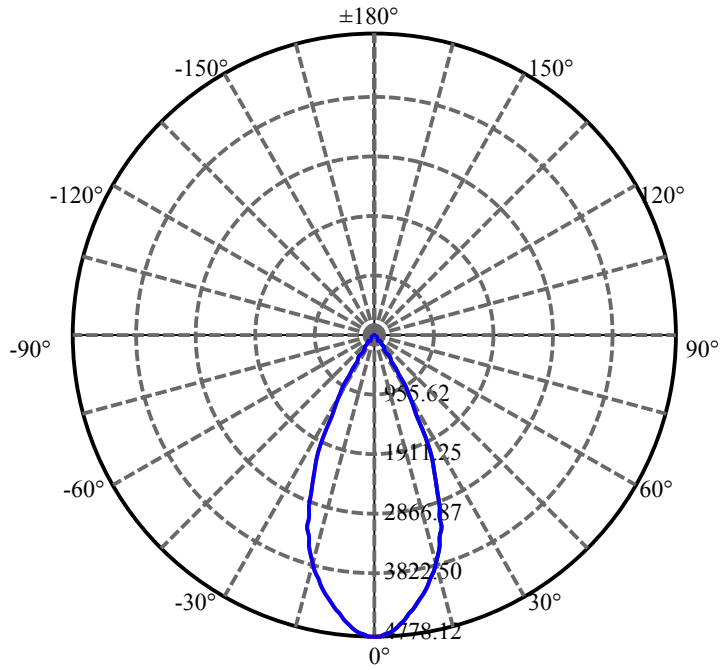
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.824	1.921	2815.713	0.06%	99.22%
77.0	17.305	1.873	2817.586	0.06%	99.29%
78.0	16.772	1.824	2819.41	0.06%	99.35%
79.0	16.253	1.774	2821.185	0.06%	99.41%
80.0	15.707	1.723	2822.908	0.06%	99.48%
81.0	15.264	1.675	2824.582	0.05%	99.53%
82.0	14.772	1.629	2826.211	0.05%	99.59%
83.0	14.316	1.581	2827.793	0.05%	99.65%
84.0	13.887	1.536	2829.329	0.05%	99.70%
85.0	13.486	1.494	2830.823	0.05%	99.75%
86.0	13.140	1.455	2832.278	0.05%	99.81%
87.0	12.835	1.422	2833.7	0.05%	99.86%
88.0	12.510	1.388	2835.088	0.04%	99.90%
89.0	12.288	1.359	2836.447	0.04%	99.95%
90.0	12.178	1.341	2837.789	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2401.98	77.21%	84.64%
0-40	2695.16	86.63%	94.97%
0-60	2779.48	89.34%	97.95%
0-90	2836.45	91.18%	99.95%
0-120	2836.45	91.18%	99.95%
0-180	2837.79	91.22%	100.00%
60-90	56.97	1.83%	2.01%
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%
0-28.02	2270.23	72.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	426.81
10-20	1034.70
20-30	940.46
30-40	293.18
40-50	54.00
50-60	30.31
60-70	23.99
70-80	19.43
80-90	13.54
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: ———

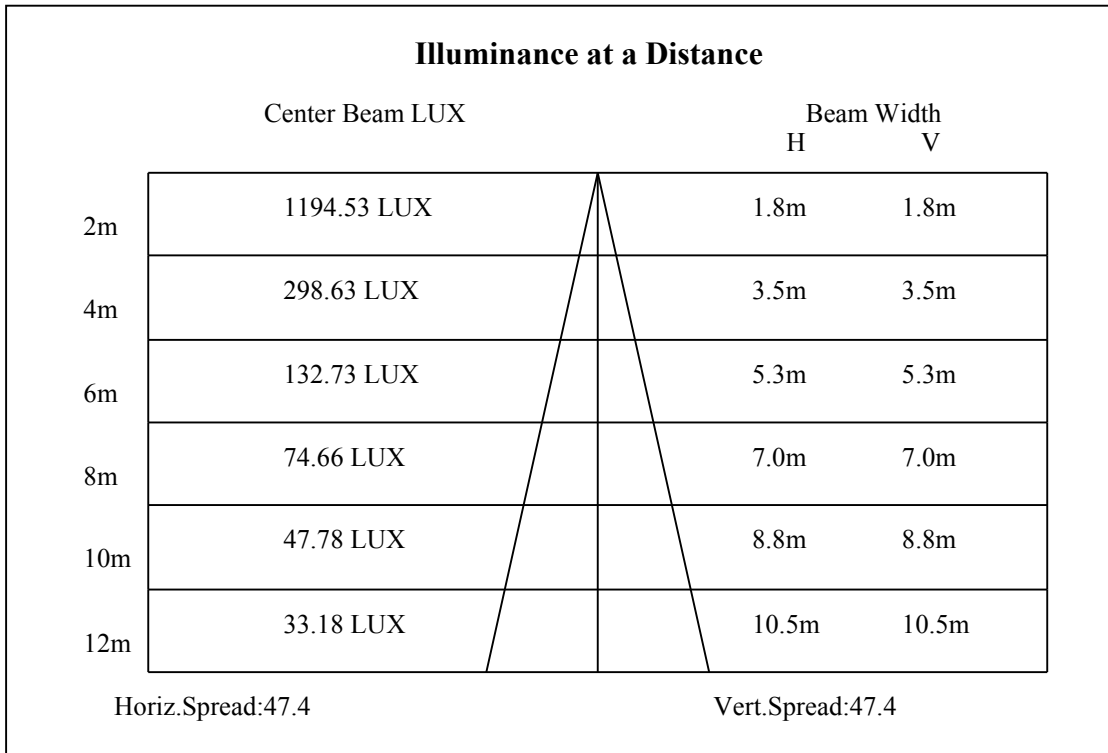
C90/C270: ———

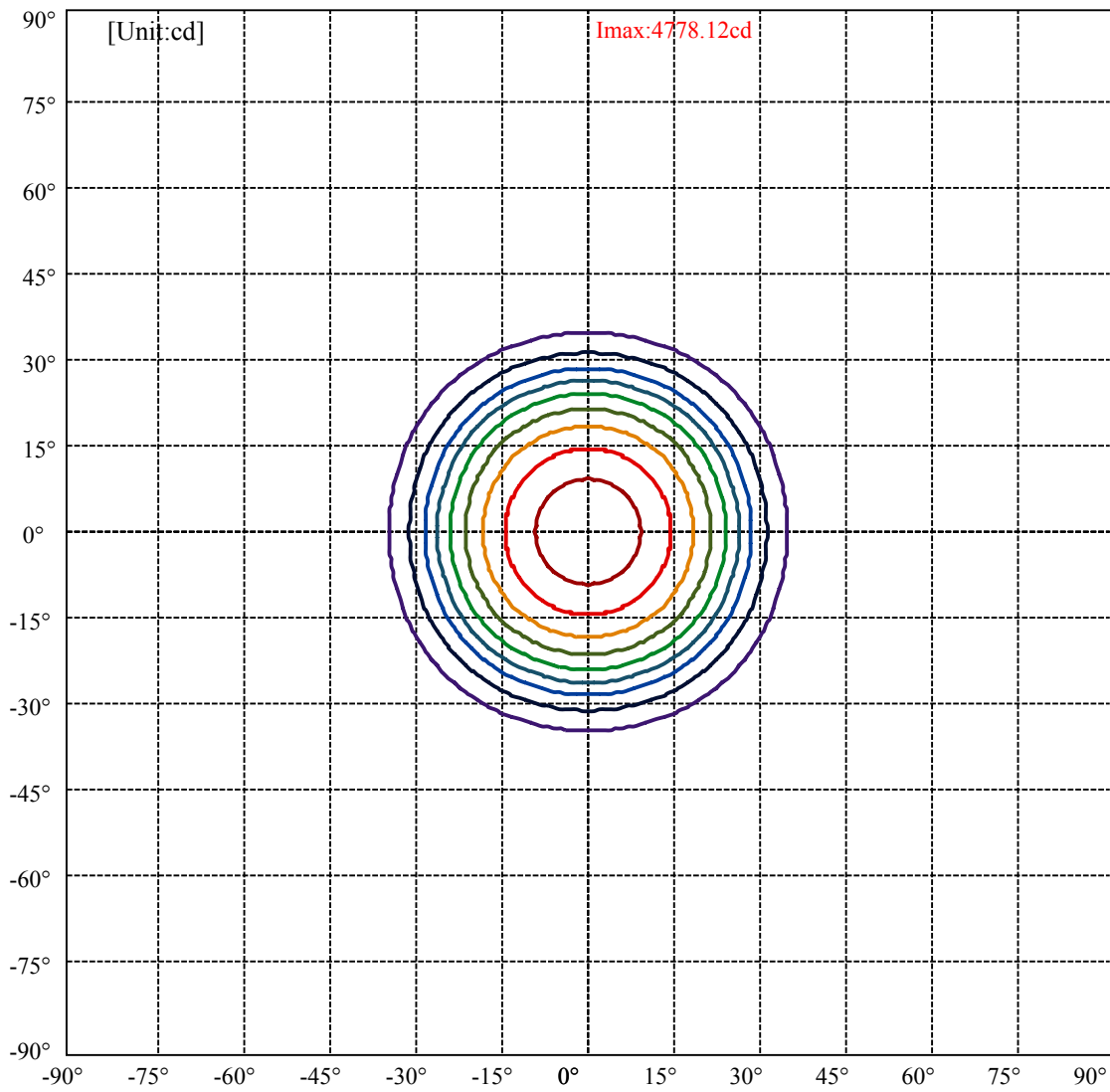
Field angle(10%Imax):C0/180Left:34.3 Right:34.3

:C90/270Left:34.3 Right:34.3

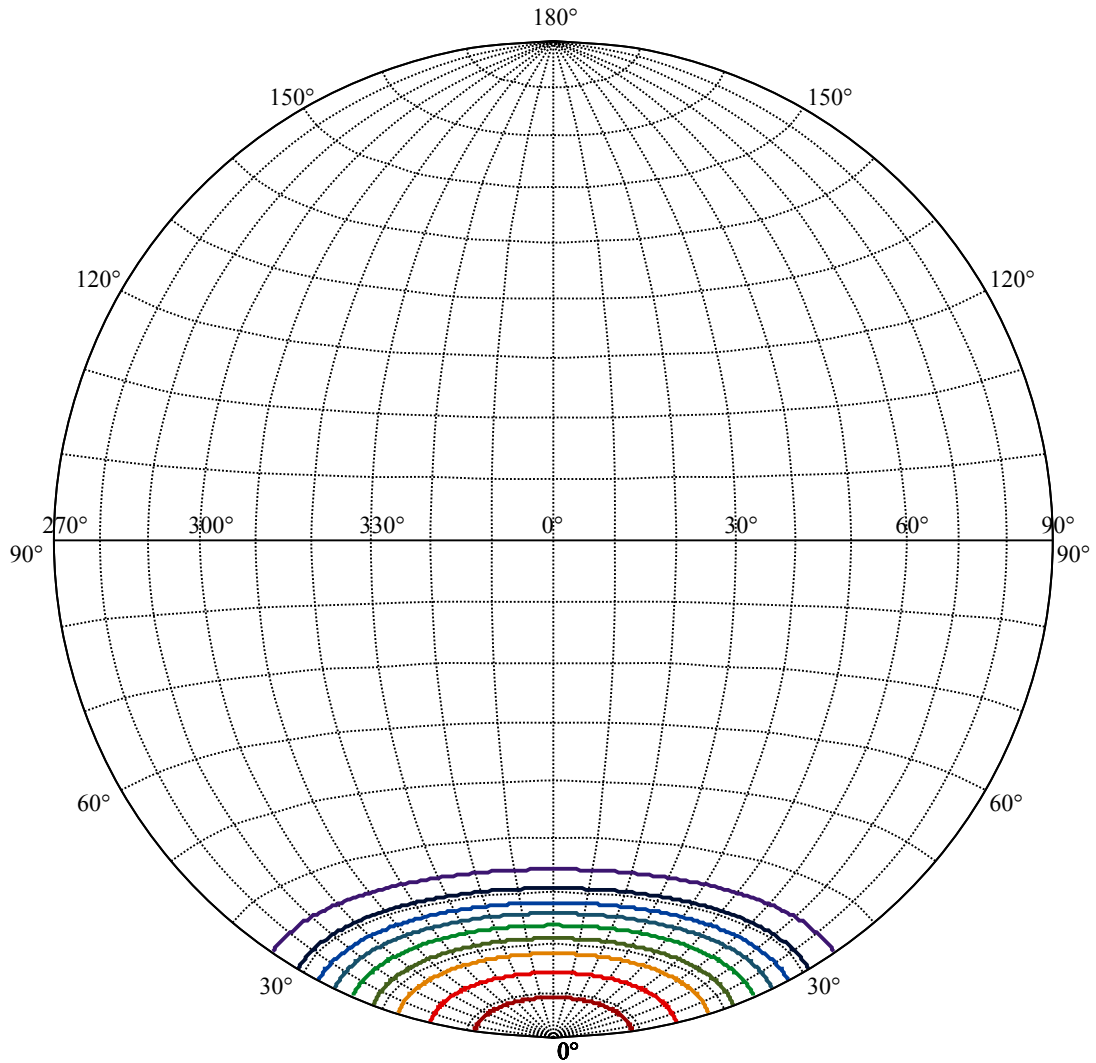
Beam Angle(50%Imax):C0/180Left:23.7 Right:23.7

:C90/270Left:23.7 Right:23.7





(10%Imax) 477.812	—
(20%Imax) 955.625	—
(30%Imax) 1433.44	—
(40%Imax) 1911.25	—
(50%Imax) 2389.06	—
(60%Imax) 2866.87	—
(70%Imax) 3344.69	—
(80%Imax) 3822.5	—
(90%Imax) 4300.31	—



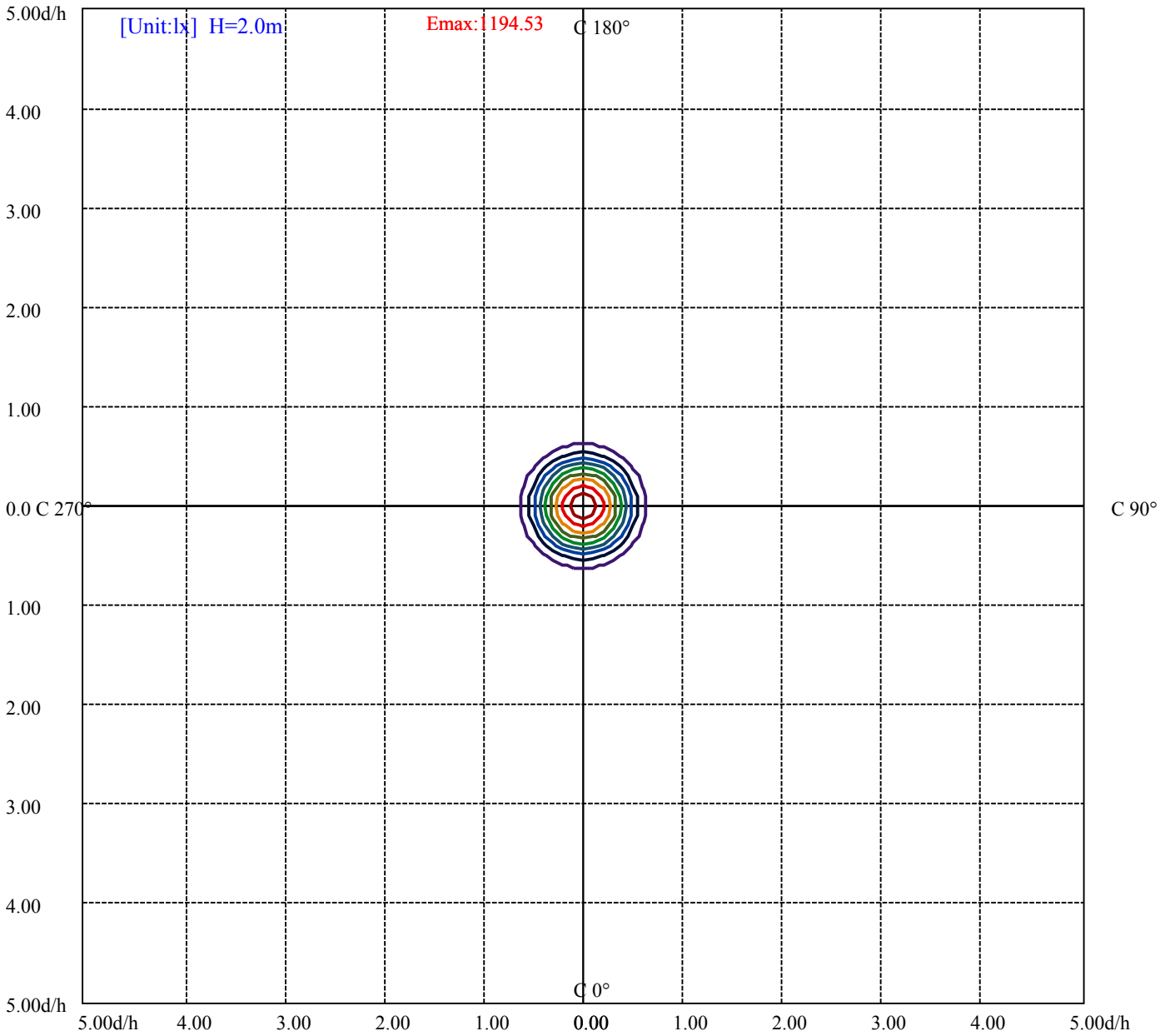
House

[Unit:cd]

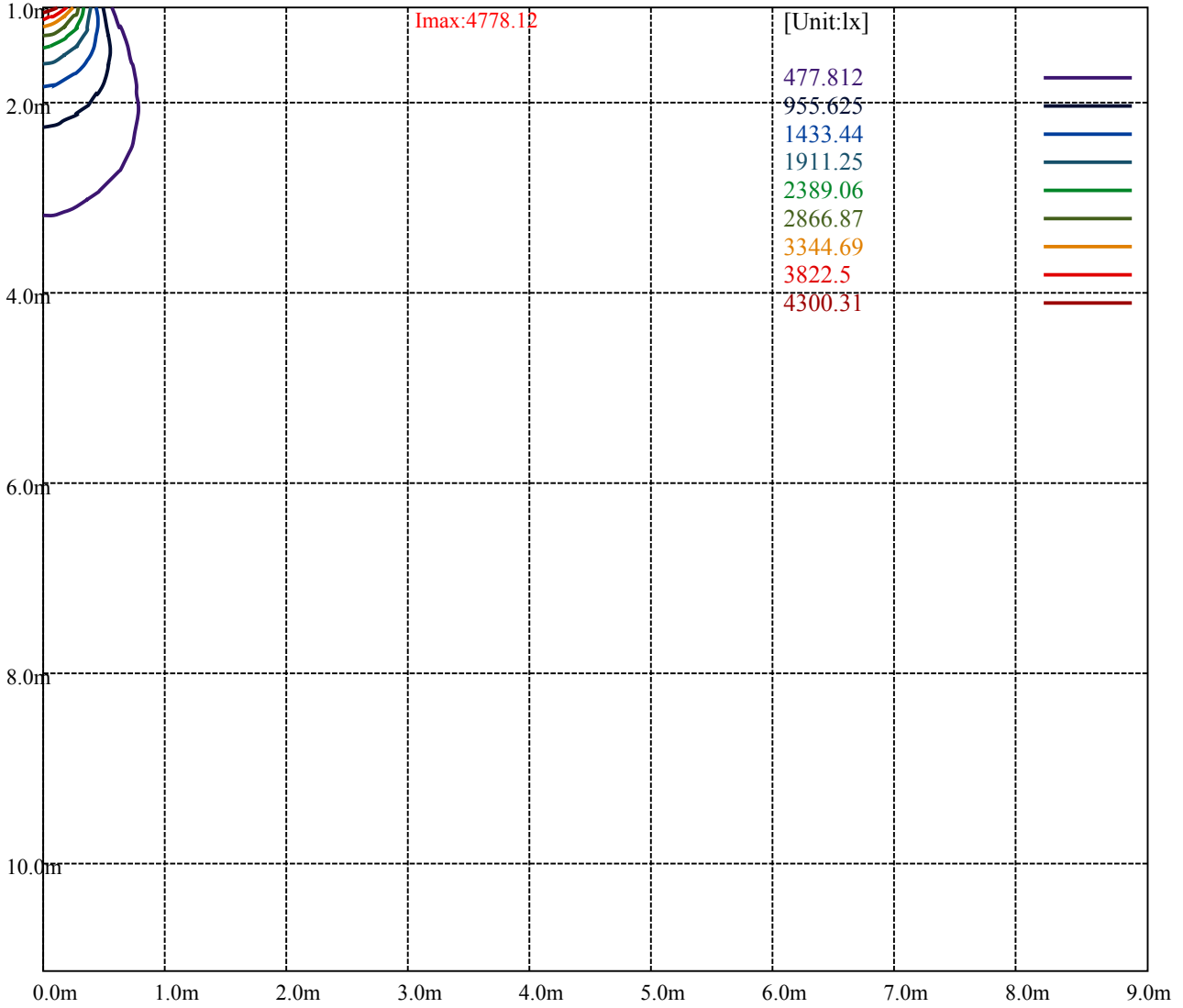
Road

Imax:4778.12

(10%Imax)	477.812	—
(20%Imax)	955.625	—
(30%Imax)	1433.44	—
(40%Imax)	1911.25	—
(50%Imax)	2389.06	—
(60%Imax)	2866.87	—
(70%Imax)	3344.69	—
(80%Imax)	3822.5	—
(90%Imax)	4300.31	—



- (10%Emax) 119.453
- (20%Emax) 238.906
- (30%Emax) 358.36
- (40%Emax) 477.8125
- (50%Emax) 597.265
- (60%Emax) 716.7175
- (70%Emax) 836.17
- (80%Emax) 955.625
- (90%Emax) 1075.078



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

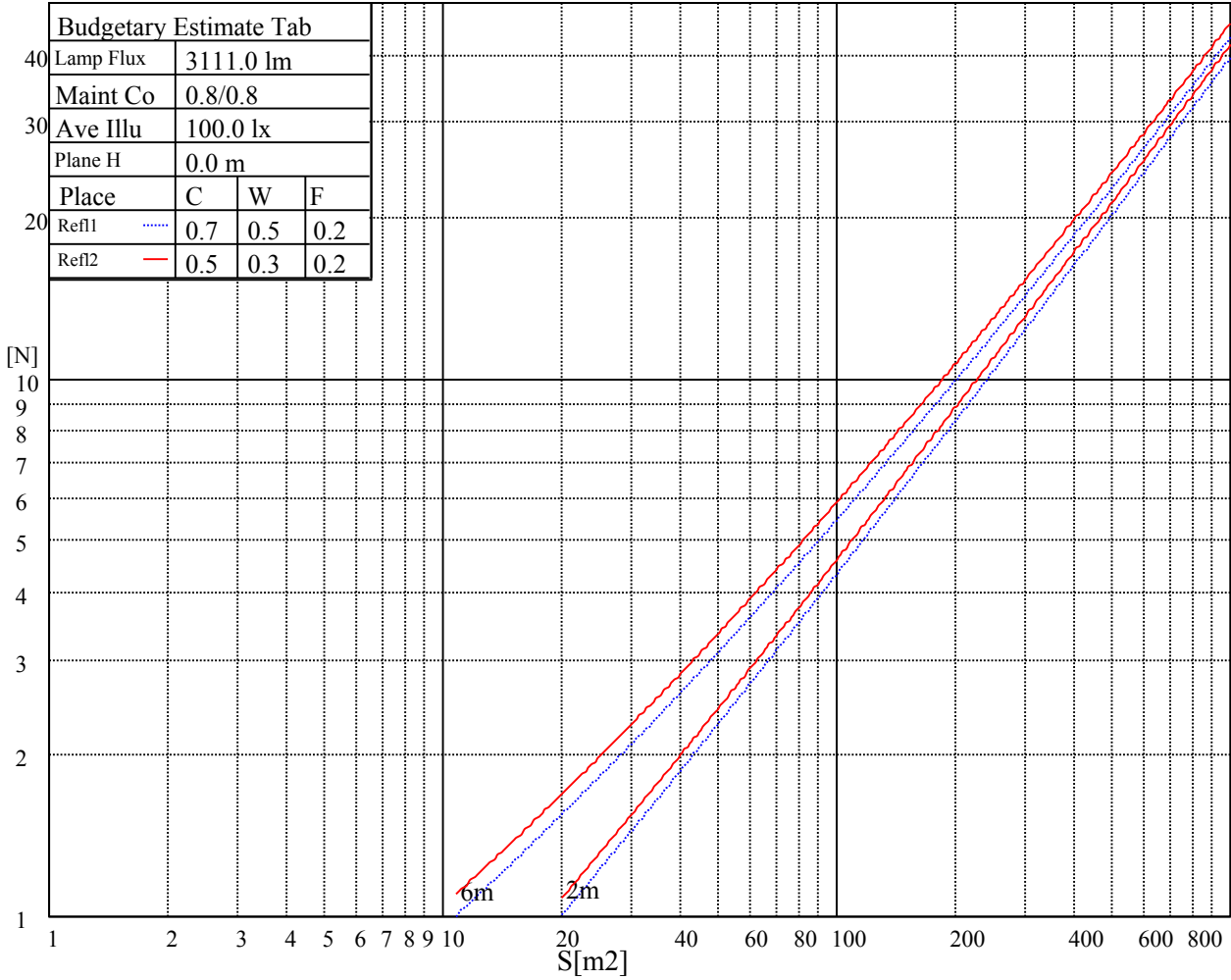
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

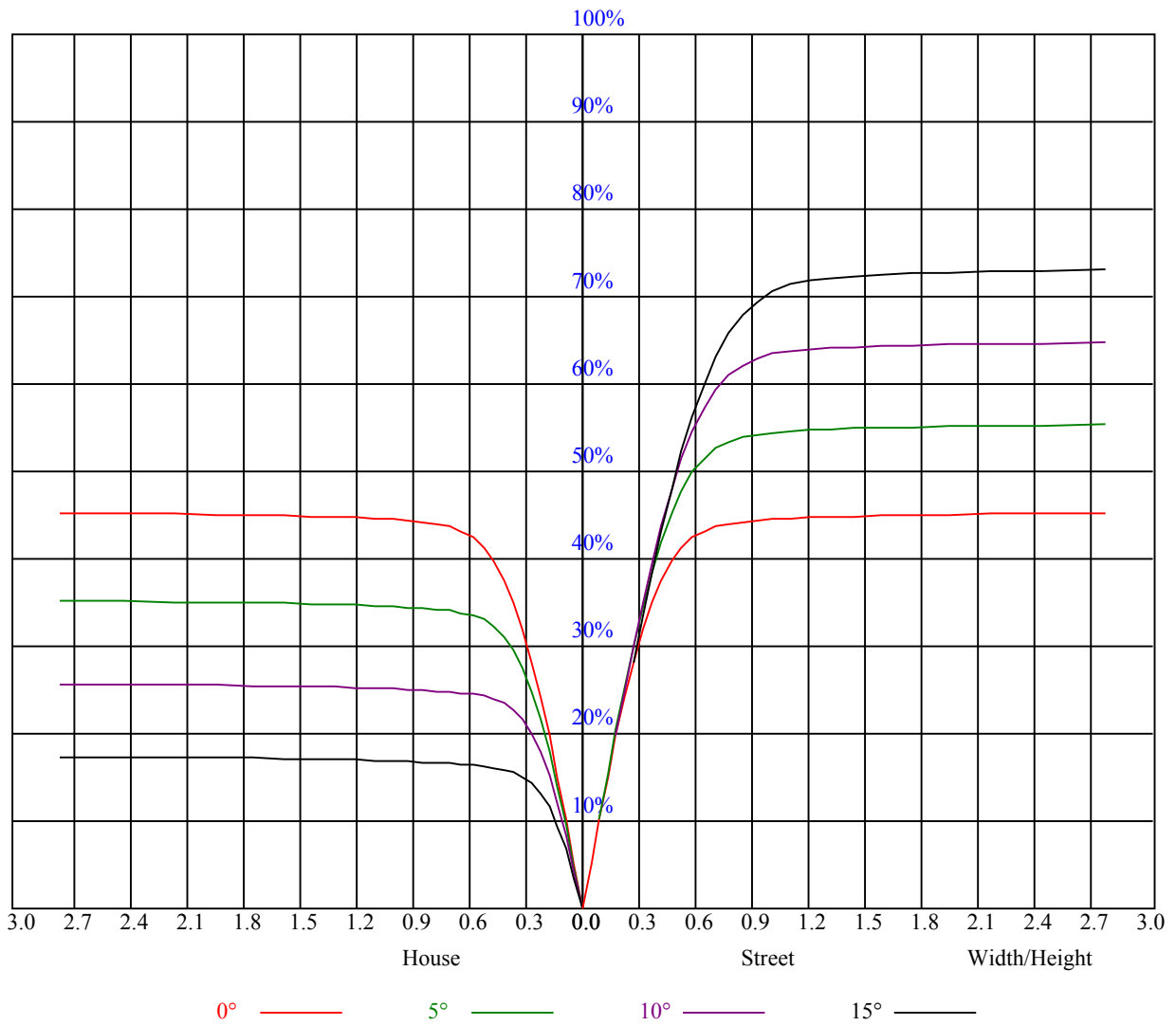


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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 RHOFC=20 CU															
0	1.09	1.09	1.09	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	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.82	0.80	0.83	0.81	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	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	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.64
7	0.72	0.67	0.63	0.71	0.67	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	4743.80	4720.56	4681.25	4631.44	4542.87	4469.25	4400.06	4321.46	4249.50
45.0	4799.71	4749.89	4727.75	4691.22	4635.86	4554.49	4480.87	4401.16	4324.78
90.0	4763.73	4731.63	4707.82	4659.67	4591.58	4511.87	4413.90	4345.81	4285.48
135.0	4805.25	4786.43	4746.02	4727.20	4687.90	4622.58	4548.96	4451.54	4386.77
180.0	4743.80	4797.50	4797.50	4766.50	4738.82	4710.59	4658.01	4593.80	4501.91
225.0	4799.71	4791.96	4760.96	4752.11	4717.79	4654.68	4574.42	4504.68	4437.70
270.0	4763.73	4800.82	4794.73	4760.96	4743.25	4706.16	4651.92	4587.15	4488.62
315.0	4805.25	4775.36	4748.79	4724.43	4673.50	4614.28	4519.62	4448.22	4362.42
360.0	4743.80	4720.56	4681.25	4631.44	4542.87	4469.25	4400.06	4321.46	4249.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4174.77	4072.36	3984.91	3883.61	3760.72	3655.00	3537.65	3410.34	3237.08
45.0	4253.37	4183.63	4093.95	3984.35	3895.23	3801.13	3698.73	3554.25	3436.91
90.0	4192.48	4108.90	4015.90	3935.09	3813.31	3714.78	3610.72	3508.31	3357.20
135.0	4321.46	4242.30	4160.38	4055.76	3967.19	3878.63	3782.31	3638.95	3521.60
180.0	4437.14	4380.13	4310.38	4230.68	4122.18	4034.72	3945.05	3855.93	3718.10
225.0	4366.29	4294.33	4216.28	4119.41	4035.83	3925.68	3824.38	3705.37	3583.59
270.0	4421.65	4345.81	4286.58	4186.95	4103.36	4000.96	3906.30	3808.33	3665.52
315.0	4282.71	4205.21	4094.51	4010.37	3918.48	3803.90	3700.39	3587.47	3478.42
360.0	4174.77	4072.36	3984.91	3883.61	3760.72	3655.00	3537.65	3410.34	3237.08
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3092.61	2938.17	2778.75	2569.51	2389.06	2200.31	1965.05	1782.39	1547.69
45.0	3317.89	3177.85	2988.54	2828.57	2628.19	2458.25	2265.62	2028.71	1836.08
90.0	3222.69	3076.00	2893.33	2746.09	2577.26	2349.76	2162.11	1973.36	1729.25
135.0	3394.28	3256.45	3062.16	2911.05	2748.86	2531.87	2348.65	2159.34	1914.13
180.0	3584.15	3449.64	3303.50	3149.07	2939.28	2768.79	2555.12	2387.40	2196.98
225.0	3420.85	3283.58	3133.01	2979.13	2773.77	2605.49	2428.92	2241.27	2001.03
270.0	3559.24	3441.89	3300.74	3112.53	2963.08	2801.45	2623.76	2408.44	2211.38
315.0	3326.20	3182.28	3028.40	2868.42	2668.04	2499.77	2315.44	2080.74	1885.90
360.0	3092.61	2938.17	2778.75	2569.51	2389.06	2200.31	1965.05	1782.39	1547.69
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1081.17	1081.17	999.08	810.87	676.75	559.90	458.77	353.65	284.85
45.0	1640.13	1444.18	1204.49	1027.36	866.84	724.03	570.14	469.95	383.60
90.0	1524.99	1081.50	1081.50	907.69	752.26	617.47	503.39	385.15	309.09
135.0	1720.94	1479.60	1289.19	1102.64	932.71	779.38	614.98	504.82	411.28
180.0	1951.21	1770.76	1583.11	1341.77	1156.34	984.19	831.41	666.46	555.75
225.0	1811.17	1616.33	1086.54	1086.54	957.62	803.96	669.89	553.04	430.65
270.0	2036.46	1777.96	1589.20	1388.27	1125.89	952.08	746.17	614.98	502.61
315.0	1645.66	1311.33	1084.49	1084.49	876.75	730.67	605.57	500.40	388.75
360.0	1081.17	1081.17	999.08	810.87	676.75	559.90	458.77	353.65	284.85
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	228.44	183.55	140.54	116.35	94.38	82.09	72.90	64.15	58.62
45.0	295.59	280.64	280.64	144.81	118.90	95.65	82.98	73.29	65.98
90.0	248.93	190.75	154.05	121.28	102.18	88.01	77.55	69.63	61.77
135.0	332.68	282.30	282.30	162.19	127.48	106.50	88.29	77.55	69.52
180.0	459.43	376.40	290.61	290.61	221.86	138.94	113.86	92.27	80.15
225.0	350.55	284.74	230.94	176.80	143.37	117.90	95.76	83.20	73.90
270.0	409.06	312.75	281.20	281.20	165.06	131.19	111.09	95.60	83.86
315.0	314.08	253.46	204.09	157.04	129.53	108.83	90.06	79.21	68.92
360.0	228.44	183.55	140.54	116.35	94.38	82.09	72.90	64.15	58.62

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	53.97	49.26	46.05	43.40	41.07	38.53	36.81	35.20	33.88
45.0	60.06	54.25	50.26	46.83	43.23	40.80	38.75	36.53	34.98
90.0	56.79	52.53	48.10	45.17	42.57	39.80	37.86	35.76	34.26
135.0	63.21	56.90	52.75	49.15	45.94	42.62	40.30	38.25	36.59
180.0	71.41	64.60	58.01	53.80	50.21	47.00	43.67	41.29	39.19
225.0	65.04	59.67	55.13	49.98	46.72	43.90	40.91	38.75	36.92
270.0	73.45	66.65	59.39	54.74	50.81	46.83	44.06	41.68	39.52
315.0	62.72	57.73	52.64	49.04	45.89	43.29	40.35	38.36	36.64
360.0	53.97	49.26	46.05	43.40	41.07	38.53	36.81	35.20	33.88
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	32.27	31.16	30.17	29.01	28.12	27.18	26.46	25.74	25.13
45.0	33.60	32.05	30.89	29.89	28.73	27.84	27.01	26.29	25.46
90.0	32.94	31.66	30.56	29.34	28.40	27.57	26.79	25.96	25.30
135.0	34.76	33.43	31.88	30.89	29.89	28.78	27.90	27.12	26.24
180.0	36.98	35.37	33.93	32.33	31.22	30.17	29.06	28.23	27.46
225.0	35.20	33.43	32.16	31.00	30.00	28.84	27.95	27.01	26.29
270.0	37.14	35.43	33.99	32.60	31.11	30.06	29.12	28.01	27.18
315.0	35.09	33.32	32.11	30.94	29.67	28.73	27.73	26.90	26.18
360.0	32.27	31.16	30.17	29.01	28.12	27.18	26.46	25.74	25.13
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	24.41	23.80	23.25	22.69	22.03	21.48	20.98	20.43	19.82
45.0	24.80	24.24	23.69	23.19	22.53	21.92	21.26	20.76	20.26
90.0	24.69	23.91	23.41	22.69	22.14	21.59	20.92	20.37	19.87
135.0	25.57	24.91	24.36	23.64	23.08	22.53	21.92	21.26	20.76
180.0	26.57	25.85	25.19	24.58	23.86	23.25	22.69	22.14	21.48
225.0	25.57	24.80	24.19	23.58	23.03	22.36	21.81	21.26	20.76
270.0	26.40	25.52	24.85	24.19	23.47	22.92	22.36	21.81	21.09
315.0	25.46	24.69	24.02	23.53	22.92	22.25	21.70	21.15	20.59
360.0	24.41	23.80	23.25	22.69	22.03	21.48	20.98	20.43	19.82
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.32	18.71	18.21	17.71	17.10	16.66	16.16	15.61	15.11
45.0	19.65	19.15	18.65	18.05	17.60	17.10	16.66	16.05	15.61
90.0	19.37	18.76	18.27	17.77	17.27	16.66	16.16	15.72	15.11
135.0	20.26	19.60	19.10	18.43	17.93	17.44	16.94	16.33	15.83
180.0	20.92	20.26	19.82	19.26	18.60	18.10	17.60	17.10	16.50
225.0	20.04	19.60	19.10	18.43	17.93	17.44	16.77	16.27	15.72
270.0	20.59	20.04	19.54	18.88	18.32	17.88	17.21	16.72	16.16
315.0	19.98	19.48	18.82	18.32	17.82	17.16	16.66	16.22	15.61
360.0	19.32	18.71	18.21	17.71	17.10	16.66	16.16	15.61	15.11
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.72	14.28	13.84	13.45	13.12	12.79	12.51	12.18	12.23
45.0	15.17	14.61	14.23	13.78	13.28	13.01	12.68	12.34	12.12
90.0	14.72	14.28	13.84	13.45	13.12	12.79	12.57	12.29	12.12
135.0	15.39	14.83	14.34	13.84	13.51	13.17	12.90	12.51	12.23
180.0	16.00	15.44	14.95	14.50	14.00	13.62	13.28	12.90	12.62
225.0	15.28	14.89	14.39	13.95	13.56	13.17	12.90	12.57	12.34
270.0	15.67	15.17	14.67	14.28	13.84	13.45	13.06	12.79	12.45
315.0	15.17	14.67	14.28	13.84	13.45	13.12	12.79	12.51	12.18
360.0	14.72	14.28	13.84	13.45	13.12	12.79	12.51	12.18	12.23

Intensity data(cd)

C/γ(°)	90.0
0.0	12.23
45.0	12.18
90.0	12.12
135.0	12.18
180.0	12.23
225.0	12.18
270.0	12.12
315.0	12.18
360.0	12.23