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NT

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.411.00

Report No: 20231026-B023

Ballast type: AC

Test No: 20231026-C023

Voltage(V): 34.400

LampCAT: LUMILEDS LUXEON 1208

Current(A): 0.576

Lamp flux(lm): 2763.9

Power (W): 19.814

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2509.90, Efficiency(%): 90.81% , Luminous Efficacy(lm/W): 126.67

Central intensity(cd): 4394.522, Maximum intensity(cd): 4394.522

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.4

[C90/270]Total=46.4

Field angle(10%Imax): [C0/180]Total=68.0

[C90/270]Total=68.0

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(%): 90.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.066%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/26
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	4394.522	0.000	0	0.00%	0.00%
1.0	4381.168	4.199	4.199	0.15%	0.17%
2.0	4357.366	12.542	16.741	0.45%	0.67%
3.0	4314.952	20.741	37.483	0.75%	1.49%
4.0	4255.446	28.688	66.171	1.04%	2.64%
5.0	4190.821	36.335	102.506	1.31%	4.08%
6.0	4118.931	43.670	146.176	1.58%	5.82%
7.0	4040.328	50.644	196.82	1.83%	7.84%
8.0	3968.576	57.318	254.139	2.07%	10.13%
9.0	3898.554	63.759	317.897	2.31%	12.67%
10.0	3811.303	69.771	387.669	2.52%	15.45%
11.0	3730.141	75.355	463.023	2.73%	18.45%
12.0	3639.638	80.562	543.585	2.91%	21.66%
13.0	3550.518	85.329	628.914	3.09%	25.06%
14.0	3450.259	89.609	718.524	3.24%	28.63%
15.0	3349.170	93.346	811.869	3.38%	32.35%
16.0	3237.494	96.513	908.382	3.49%	36.19%
17.0	3114.816	98.923	1007.305	3.58%	40.13%
18.0	2988.956	100.638	1107.943	3.64%	44.14%
19.0	2845.590	101.509	1209.452	3.67%	48.19%
20.0	2698.972	101.481	1310.933	3.67%	52.23%
21.0	2542.875	100.654	1411.587	3.64%	56.24%
22.0	2391.414	99.157	1510.744	3.59%	60.19%
23.0	2228.467	96.938	1607.681	3.51%	64.05%
24.0	2038.535	93.292	1700.973	3.38%	67.77%
25.0	1875.726	89.002	1789.975	3.22%	71.32%
26.0	1675.969	83.838	1873.813	3.03%	74.66%
27.0	1448.368	76.438	1950.251	2.77%	77.70%
28.0	1253.455	68.404	2018.655	2.47%	80.43%
29.0	1137.454	62.553	2081.208	2.26%	82.92%
30.0	973.310	56.990	2138.198	2.06%	85.19%
31.0	808.986	49.599	2187.797	1.79%	87.17%
32.0	667.675	42.305	2230.102	1.53%	88.85%
33.0	542.465	35.651	2265.753	1.29%	90.27%
34.0	439.556	29.719	2295.472	1.08%	91.46%
35.0	351.696	24.573	2320.045	0.89%	92.44%
36.0	284.255	20.249	2340.294	0.73%	93.24%
37.0	240.152	17.103	2357.397	0.62%	93.92%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	205.341	14.870	2372.267	0.54%	94.52%
39.0	137.471	11.701	2383.968	0.42%	94.98%
40.0	112.236	8.709	2392.677	0.32%	95.33%
41.0	89.825	7.195	2399.872	0.26%	95.62%
42.0	76.381	6.039	2405.911	0.22%	95.86%
43.0	65.428	5.253	2411.164	0.19%	96.07%
44.0	57.796	4.651	2415.815	0.17%	96.25%
45.0	51.901	4.216	2420.03	0.15%	96.42%
46.0	47.071	3.871	2423.901	0.14%	96.57%
47.0	43.134	3.588	2427.489	0.13%	96.72%
48.0	39.723	3.350	2430.838	0.12%	96.85%
49.0	37.025	3.152	2433.99	0.11%	96.98%
50.0	34.638	2.988	2436.978	0.11%	97.09%
51.0	32.520	2.841	2439.819	0.10%	97.21%
52.0	30.818	2.718	2442.537	0.10%	97.32%
53.0	29.234	2.612	2445.149	0.09%	97.42%
54.0	27.919	2.519	2447.668	0.09%	97.52%
55.0	26.708	2.438	2450.107	0.09%	97.62%
56.0	25.677	2.367	2452.474	0.09%	97.71%
57.0	24.653	2.301	2454.775	0.08%	97.80%
58.0	23.823	2.242	2457.017	0.08%	97.89%
59.0	23.089	2.193	2459.21	0.08%	97.98%
60.0	22.363	2.147	2461.357	0.08%	98.07%
61.0	21.726	2.104	2463.461	0.08%	98.15%
62.0	21.145	2.066	2465.527	0.07%	98.23%
63.0	20.626	2.032	2467.559	0.07%	98.31%
64.0	20.073	1.997	2469.556	0.07%	98.39%
65.0	19.581	1.962	2471.518	0.07%	98.47%
66.0	19.125	1.931	2473.449	0.07%	98.55%
67.0	18.661	1.900	2475.349	0.07%	98.62%
68.0	18.225	1.869	2477.218	0.07%	98.70%
69.0	17.810	1.838	2479.056	0.07%	98.77%
70.0	17.381	1.807	2480.864	0.07%	98.84%
71.0	16.966	1.775	2482.639	0.06%	98.91%
72.0	16.565	1.743	2484.382	0.06%	98.98%
73.0	16.163	1.711	2486.094	0.06%	99.05%
74.0	15.734	1.677	2487.771	0.06%	99.12%
75.0	15.347	1.642	2489.413	0.06%	99.18%

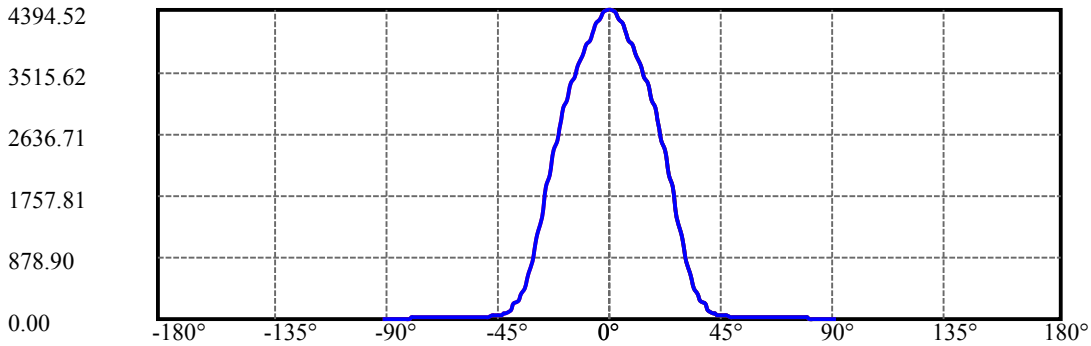
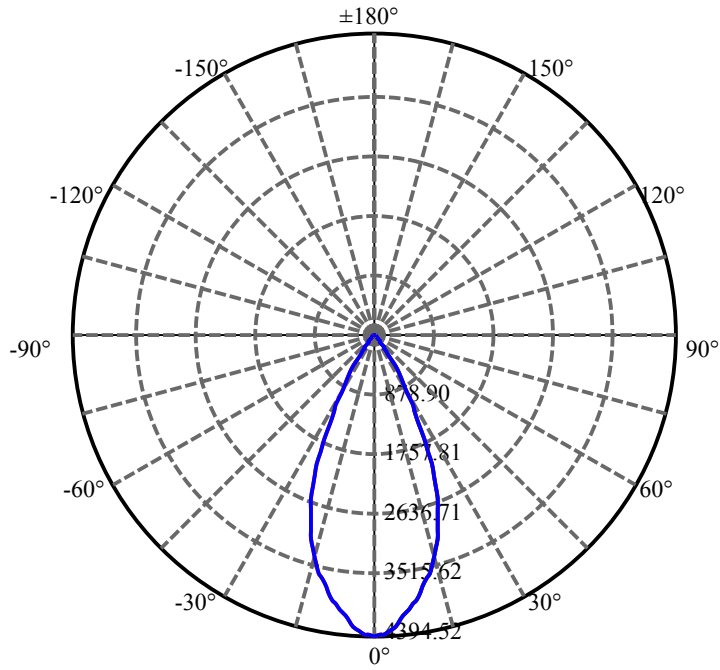
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.932	1.607	2491.02	0.06%	99.25%
77.0	14.523	1.570	2492.591	0.06%	99.31%
78.0	14.115	1.533	2494.124	0.06%	99.37%
79.0	13.735	1.496	2495.62	0.05%	99.43%
80.0	13.333	1.459	2497.079	0.05%	99.49%
81.0	12.987	1.423	2498.503	0.05%	99.55%
82.0	12.634	1.389	2499.892	0.05%	99.60%
83.0	12.302	1.356	2501.248	0.05%	99.66%
84.0	11.998	1.324	2502.572	0.05%	99.71%
85.0	11.700	1.293	2503.865	0.05%	99.76%
86.0	11.403	1.263	2505.128	0.05%	99.81%
87.0	11.133	1.233	2506.361	0.04%	99.86%
88.0	10.849	1.204	2507.565	0.04%	99.91%
89.0	10.635	1.178	2508.743	0.04%	99.95%
90.0	10.538	1.161	2509.904	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2138.20	77.36%	85.19%
0-40	2392.68	86.57%	95.33%
0-60	2461.36	89.05%	98.07%
0-90	2508.74	90.77%	99.95%
0-120	2508.74	90.77%	99.95%
0-180	2509.90	90.81%	100.00%
60-90	47.39	1.71%	1.89%
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%
0-27.84	2007.92	72.65%	80.00%

ZONAL LUMEN SUMMARY

0-10	387.67
10-20	923.26
20-30	827.27
30-40	254.48
40-50	44.30
50-60	24.38
60-70	19.51
70-80	16.22
80-90	11.66
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: —————

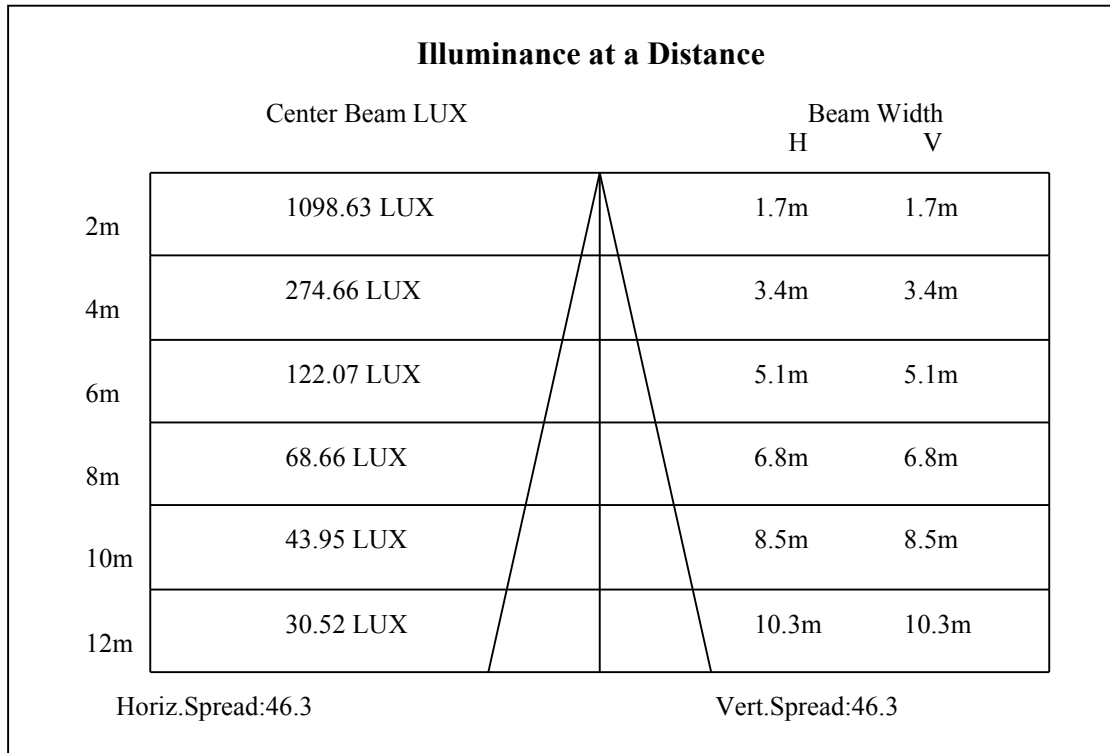
C90/C270: —————

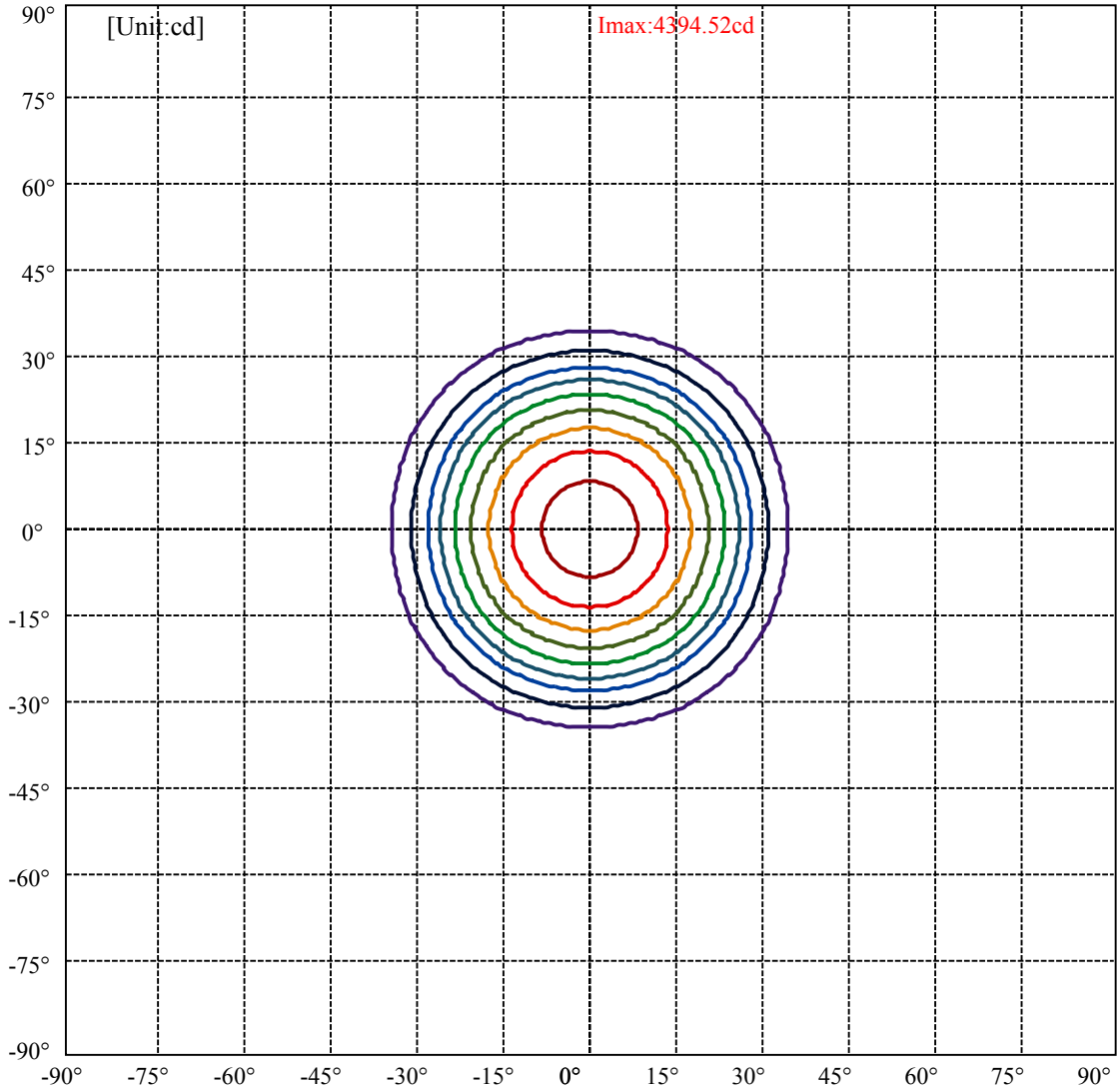
Field angle(10%Imax):C0/180Left:34.0 Right:34.0

:C90/270Left:34.0 Right:34.0

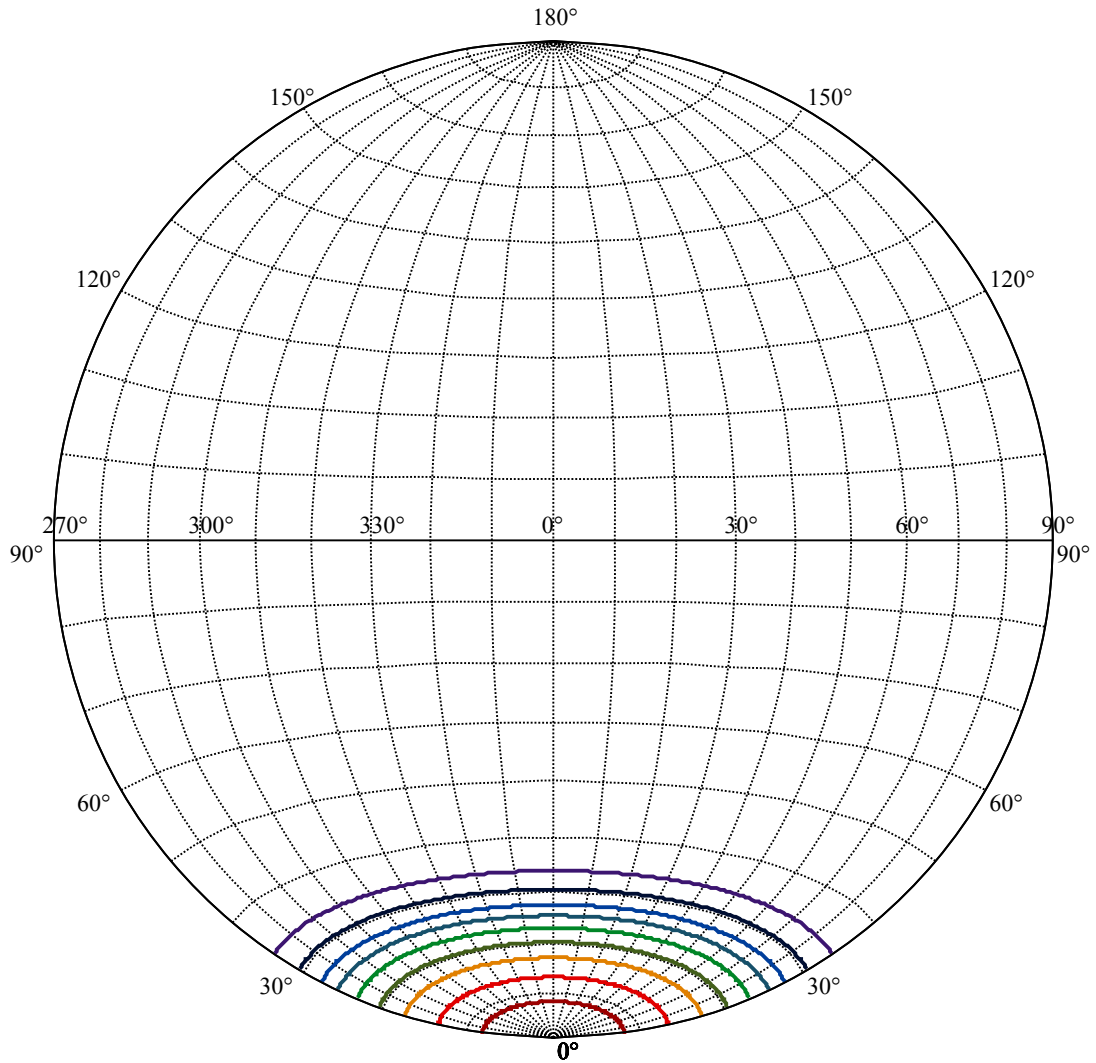
Beam Angle(50%Imax):C0/180Left:23.2 Right:23.2

:C90/270Left:23.2 Right:23.2





(10%Imax) 439.452	—
(20%Imax) 878.904	—
(30%Imax) 1318.36	—
(40%Imax) 1757.81	—
(50%Imax) 2197.26	—
(60%Imax) 2636.71	—
(70%Imax) 3076.17	—
(80%Imax) 3515.62	—
(90%Imax) 3955.07	—



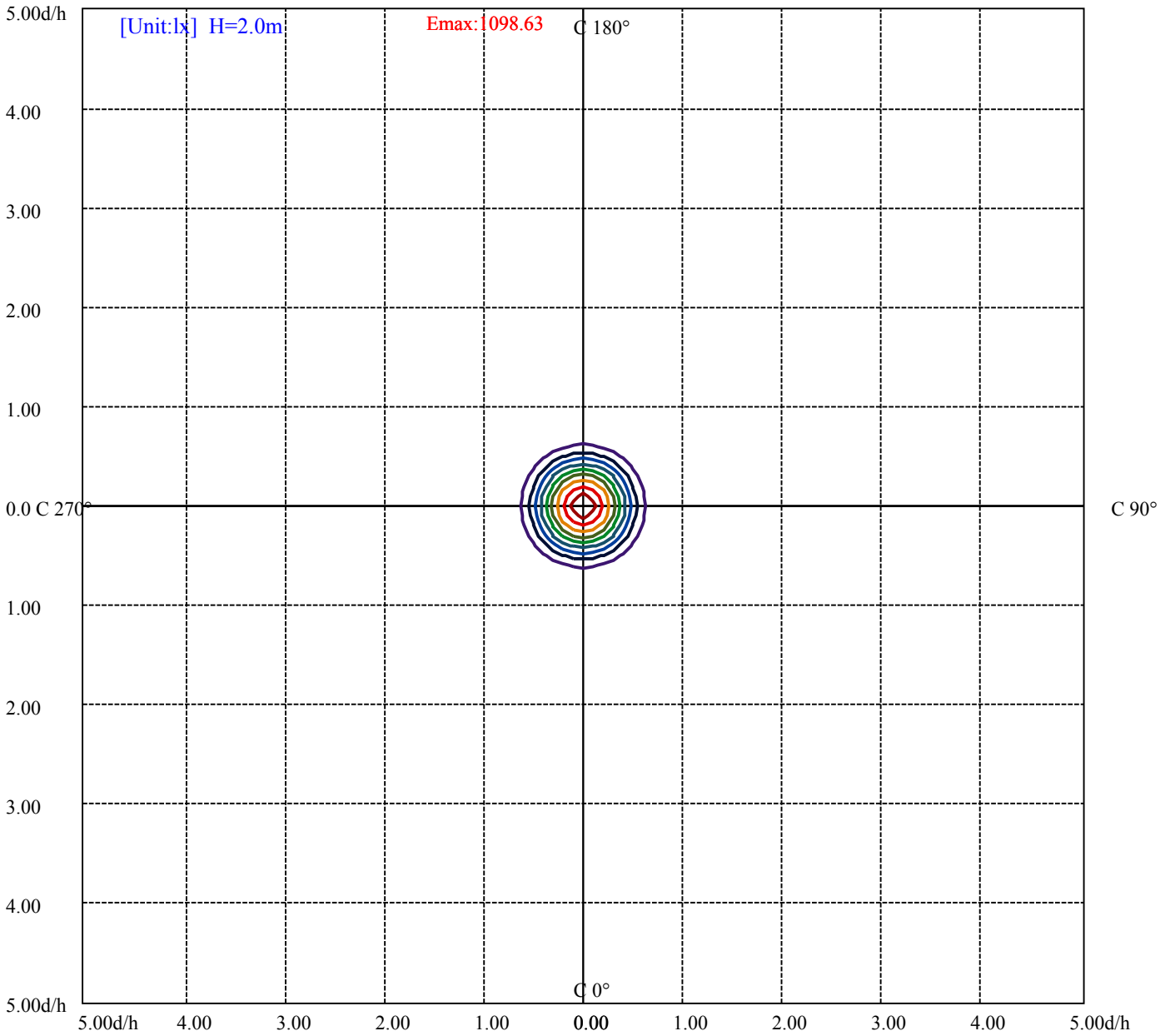
House

[Unit:cd]

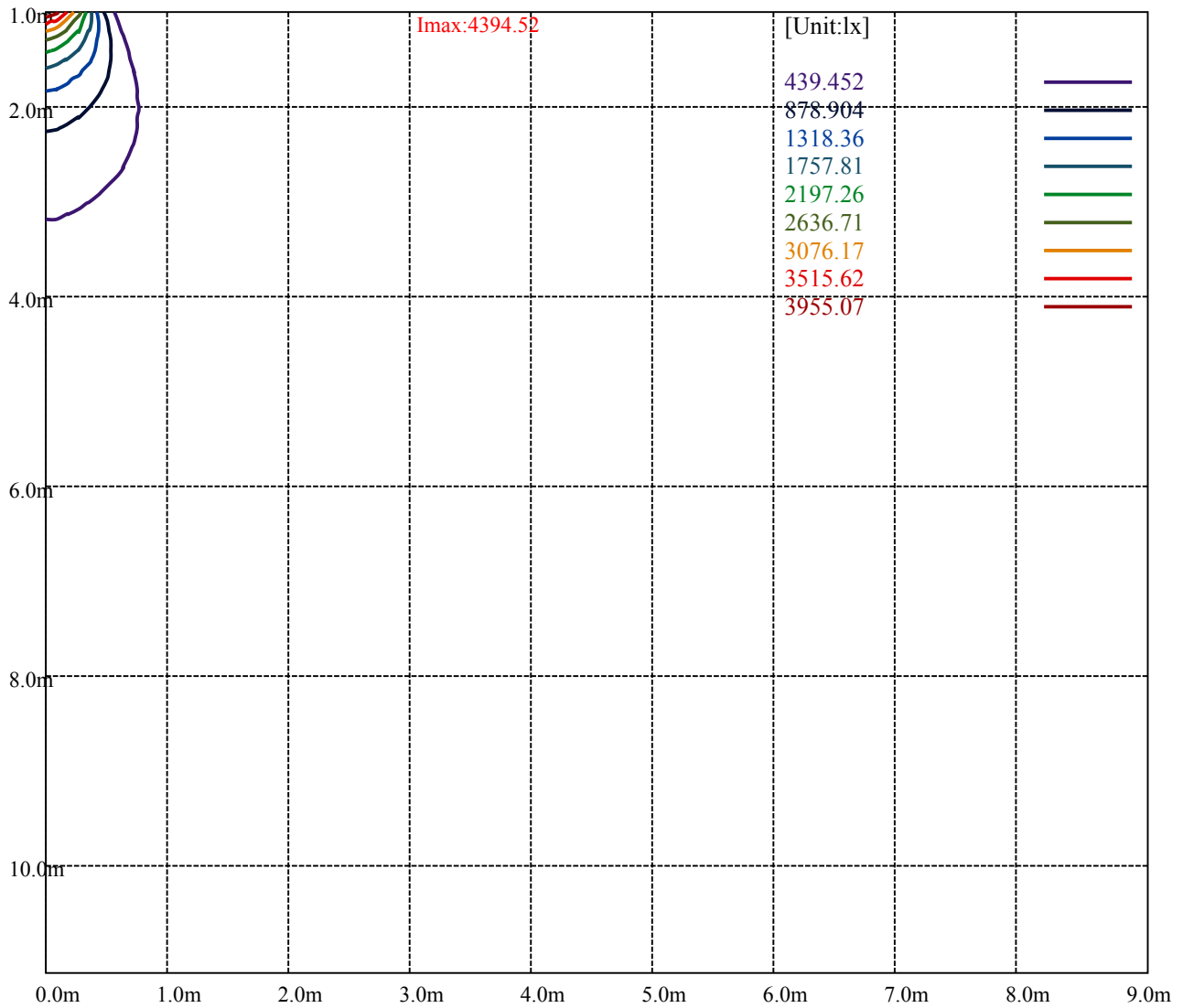
Road

Imax:4394.52

(10%Imax)	439.452	—
(20%Imax)	878.904	—
(30%Imax)	1318.36	—
(40%Imax)	1757.81	—
(50%Imax)	2197.26	—
(60%Imax)	2636.71	—
(70%Imax)	3076.17	—
(80%Imax)	3515.62	—
(90%Imax)	3955.07	—



- (10%E_{max}) 109.863
- (20%E_{max}) 219.726
- (30%E_{max}) 329.59
- (40%E_{max}) 439.4525
- (50%E_{max}) 549.315
- (60%E_{max}) 659.1775
- (70%E_{max}) 769.04
- (80%E_{max}) 878.905
- (90%E_{max}) 988.7675



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

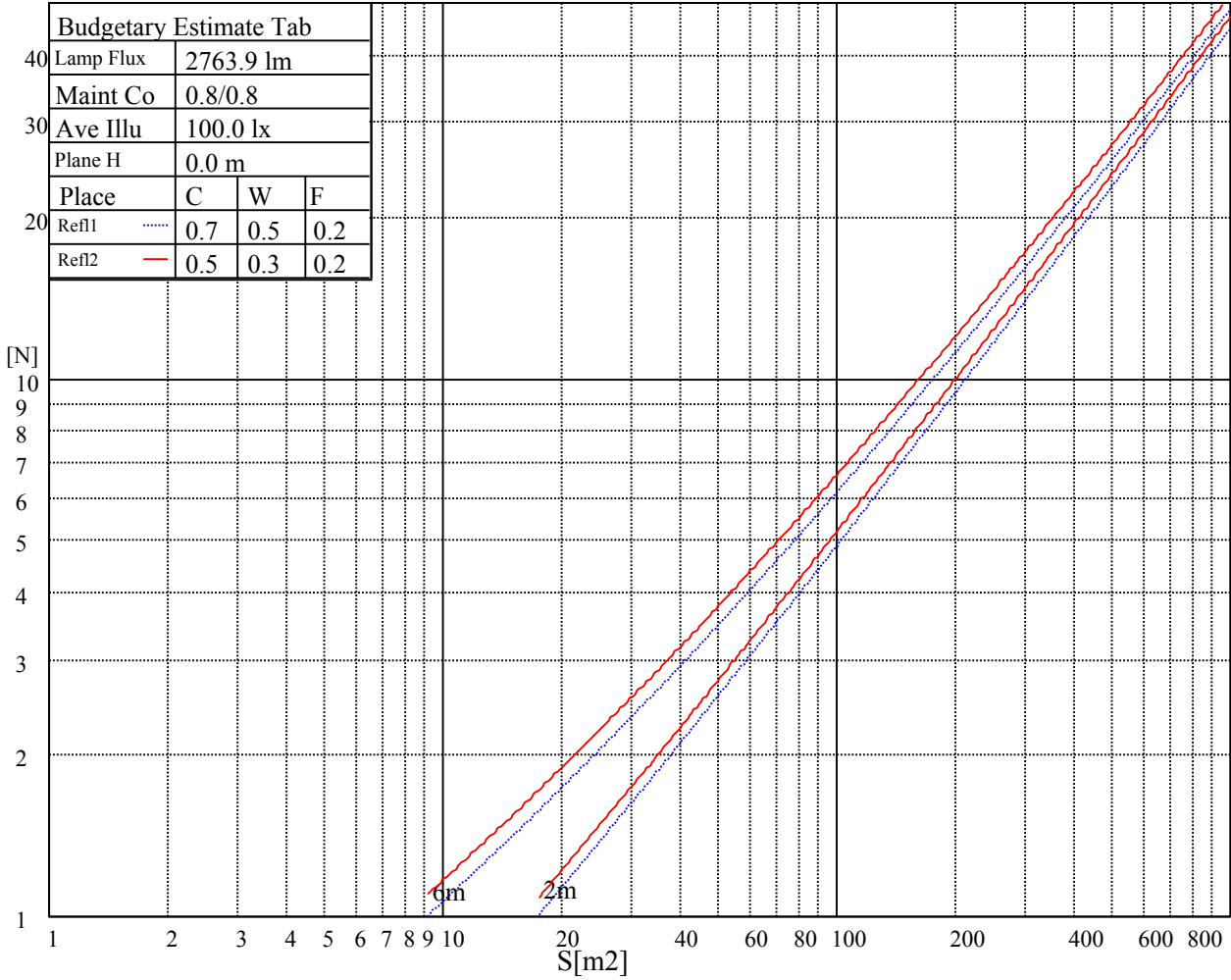
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

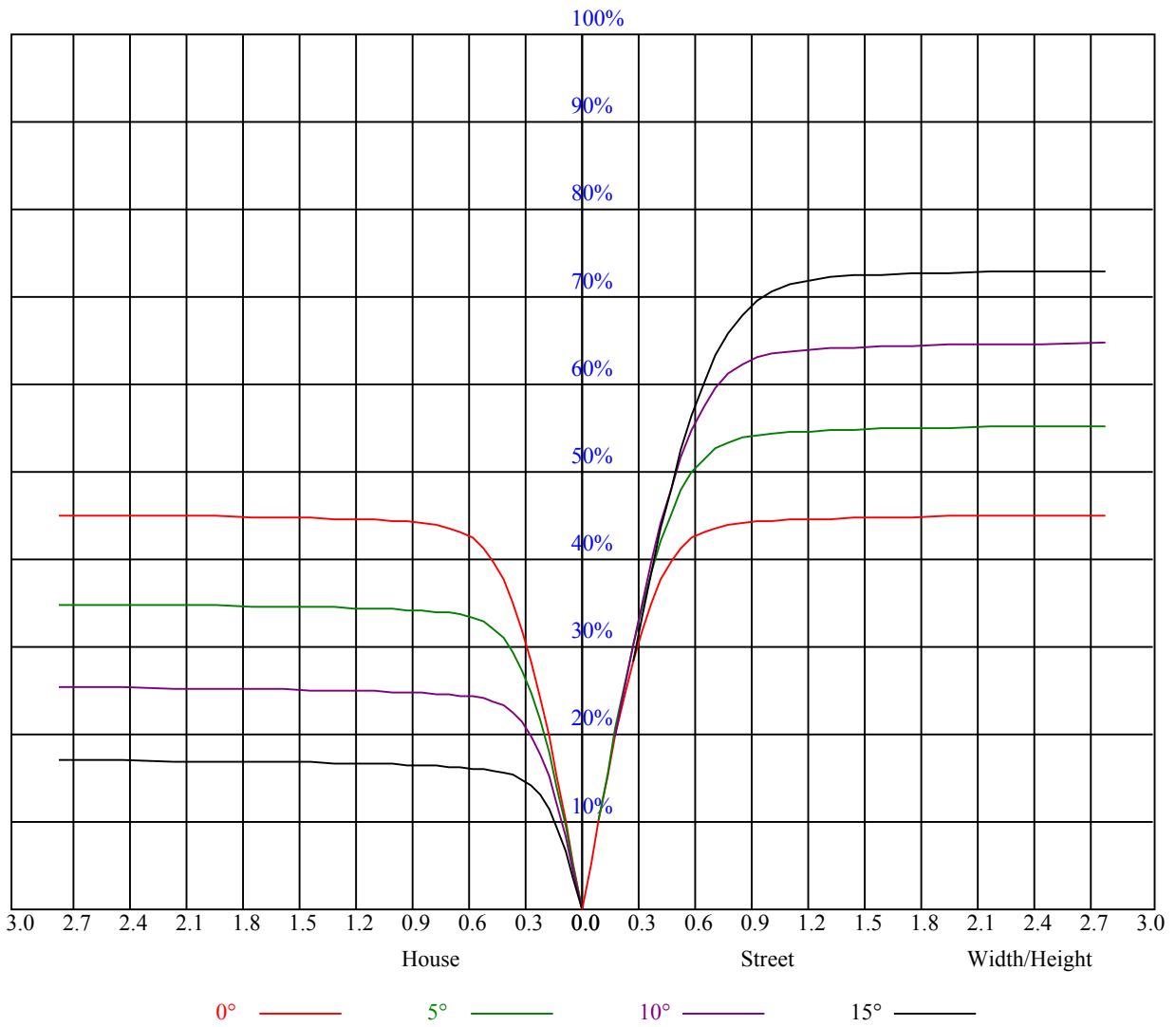


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	0.82	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	0.76	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	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	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	0.63	0.59	0.57	0.55
10	0.62	0.58	0.55	0.62	0.58	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	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	4377.92	4353.01	4324.22	4259.46	4172.00	4107.24	4043.03	3969.96	3899.66
45.0	4403.38	4396.74	4370.17	4334.19	4282.15	4216.84	4139.34	4067.38	3982.69
90.0	4383.45	4349.69	4335.29	4263.89	4194.14	4130.49	4029.19	3963.32	3898.00
135.0	4413.34	4384.01	4349.13	4323.12	4252.26	4183.07	4116.09	4020.33	3957.78
180.0	4377.92	4402.83	4385.11	4346.36	4320.90	4250.60	4183.63	4119.41	4026.97
225.0	4403.38	4374.04	4340.28	4304.30	4237.32	4182.52	4098.93	4028.08	3959.44
270.0	4383.45	4411.13	4384.01	4360.20	4312.60	4252.82	4206.32	4116.09	4049.67
315.0	4413.34	4377.92	4370.72	4328.10	4272.19	4203.00	4134.91	4038.05	3974.39
360.0	4377.92	4353.01	4324.22	4259.46	4172.00	4107.24	4043.03	3969.96	3899.66
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3827.70	3730.83	3646.70	3558.68	3435.80	3338.93	3225.45	3101.46	2949.24
45.0	3923.46	3847.63	3775.12	3669.94	3584.70	3498.35	3402.59	3286.34	3182.83
90.0	3826.59	3724.74	3646.70	3568.65	3482.29	3371.03	3274.72	3167.33	3026.18
135.0	3895.79	3802.24	3724.74	3616.25	3536.54	3444.10	3349.45	3213.28	3097.03
180.0	3965.53	3878.63	3798.36	3717.55	3635.07	3533.22	3445.21	3345.57	3239.85
225.0	3863.68	3787.85	3707.58	3614.59	3529.35	3437.46	3311.25	3206.63	3090.39
270.0	3984.35	3914.05	3813.86	3728.62	3644.48	3538.20	3445.21	3342.80	3217.70
315.0	3901.32	3804.45	3728.06	3642.82	3555.92	3440.78	3339.48	3236.52	3115.30
360.0	3827.70	3730.83	3646.70	3558.68	3435.80	3338.93	3225.45	3101.46	2949.24
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2810.86	2668.04	2521.36	2336.48	2178.72	2014.32	1803.97	1642.34	1300.81
45.0	3072.68	2916.58	2780.96	2641.47	2461.02	2313.78	2115.06	1951.77	1781.28
90.0	2902.74	2736.68	2594.42	2449.40	2299.39	2098.45	1934.61	1774.08	1603.59
135.0	2975.81	2840.19	2665.83	2514.71	2365.81	2214.70	2022.07	1859.88	1652.30
180.0	3093.16	2974.15	2838.53	2662.51	2522.46	2379.65	2188.13	2021.51	1856.01
225.0	2984.11	2821.37	2684.10	2539.62	2390.17	2194.22	2033.14	1868.18	1656.18
270.0	3105.34	2972.49	2807.53	2674.69	2538.52	2392.38	2199.20	2039.78	1875.38
315.0	2966.95	2835.21	2699.04	2524.12	2375.22	2220.23	2012.10	1848.26	1682.20
360.0	2810.86	2668.04	2521.36	2336.48	2178.72	2014.32	1803.97	1642.34	1300.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1098.22	1098.22	939.41	765.37	641.16	530.40	414.16	336.33	271.07
45.0	1606.36	1389.38	1215.57	1044.52	886.76	711.29	587.86	483.24	374.19
90.0	1085.26	1085.26	1043.42	884.66	705.54	581.10	475.10	364.39	291.55
135.0	1482.37	1311.33	1104.30	945.44	801.52	670.33	533.61	441.17	361.46
180.0	1655.07	1486.24	1316.31	1124.23	955.96	815.36	688.60	541.36	448.36
225.0	1482.92	1080.45	1080.45	915.05	764.43	603.08	495.86	406.30	314.52
270.0	1709.87	1493.44	1316.86	1144.16	941.56	784.36	612.76	506.49	414.04
315.0	1466.87	1083.33	1083.33	963.04	774.95	645.48	531.78	437.18	338.38
360.0	1098.22	1098.22	939.41	765.37	641.16	530.40	414.16	336.33	271.07
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	217.54	164.62	131.85	107.72	89.34	73.01	63.82	55.41	50.04
45.0	302.23	285.62	285.62	144.69	117.96	93.44	79.49	68.80	60.72
90.0	233.59	177.91	143.14	111.65	92.72	78.71	68.25	60.22	52.70
135.0	291.71	291.71	172.70	137.94	111.54	87.96	74.56	64.82	56.07
180.0	365.33	290.05	290.05	171.21	137.83	106.00	87.62	71.79	63.05
225.0	254.57	205.97	166.56	129.14	107.22	90.28	77.55	65.65	58.56
270.0	336.55	287.29	287.29	164.46	133.07	103.73	86.96	74.78	65.65
315.0	272.51	218.04	165.51	132.96	108.22	85.47	72.79	61.94	55.58
360.0	217.54	164.62	131.85	107.72	89.34	73.01	63.82	55.41	50.04

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	45.78	41.29	38.42	35.98	33.82	31.50	30.00	28.67	27.51
45.0	53.19	48.60	44.67	41.40	37.86	35.59	33.54	31.77	29.78
90.0	48.05	44.17	40.85	37.36	35.04	32.60	30.89	29.45	27.84
135.0	50.93	45.61	42.12	39.13	36.64	33.88	31.94	30.39	28.95
180.0	56.63	51.53	46.39	42.79	39.69	37.14	34.37	32.44	30.78
225.0	52.92	47.27	43.67	39.85	37.36	35.15	33.21	31.05	29.67
270.0	57.40	52.20	47.55	42.73	39.69	37.25	34.54	32.60	30.56
315.0	50.32	45.89	41.40	38.53	36.09	33.99	31.66	30.17	28.78
360.0	45.78	41.29	38.42	35.98	33.82	31.50	30.00	28.67	27.51
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.24	25.30	24.41	23.53	22.86	22.20	21.48	20.98	20.43
45.0	28.51	27.12	26.07	25.08	24.08	23.30	22.69	22.03	21.37
90.0	26.74	25.74	24.63	23.86	23.08	22.47	21.75	21.15	20.65
135.0	27.34	26.29	25.35	24.36	23.58	22.92	22.14	21.53	21.03
180.0	29.34	27.79	26.68	25.46	24.58	23.86	23.03	22.36	21.81
225.0	28.40	27.23	26.18	25.02	24.24	23.30	22.64	22.03	21.31
270.0	29.17	27.95	26.79	25.52	24.63	23.86	23.14	22.25	21.64
315.0	27.62	26.24	25.30	24.41	23.53	22.81	22.03	21.48	20.92
360.0	26.24	25.30	24.41	23.53	22.86	22.20	21.48	20.98	20.43
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.93	19.43	18.99	18.54	18.05	17.66	17.27	16.94	16.44
45.0	20.87	20.43	19.87	19.37	18.88	18.49	18.05	17.60	17.21
90.0	20.26	19.60	19.21	18.76	18.27	17.88	17.44	16.99	16.66
135.0	20.48	19.98	19.54	19.04	18.65	18.32	17.88	17.38	16.99
180.0	21.20	20.59	20.15	19.65	19.26	18.71	18.32	17.93	17.44
225.0	20.76	20.26	19.65	19.21	18.76	18.32	17.82	17.44	17.05
270.0	21.15	20.54	19.93	19.48	18.93	18.43	18.10	17.55	17.16
315.0	20.37	19.76	19.32	18.93	18.49	17.99	17.60	17.21	16.77
360.0	19.93	19.43	18.99	18.54	18.05	17.66	17.27	16.94	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	15.61	15.28	14.95	14.50	14.12	13.78	13.34	13.01
45.0	16.72	16.33	15.83	15.50	15.11	14.67	14.23	13.89	13.51
90.0	16.27	15.83	15.44	15.06	14.67	14.23	13.84	13.51	13.06
135.0	16.61	16.27	15.83	15.44	15.00	14.61	14.28	13.78	13.40
180.0	16.99	16.66	16.16	15.78	15.28	14.95	14.56	14.17	13.67
225.0	16.61	16.16	15.78	15.28	14.89	14.50	14.00	13.67	13.28
270.0	16.83	16.44	15.94	15.55	15.17	14.78	14.28	13.95	13.56
315.0	16.38	16.00	15.61	15.22	14.83	14.34	13.95	13.56	13.17
360.0	16.11	15.61	15.28	14.95	14.50	14.12	13.78	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	12.68	12.34	12.18	11.85	11.68	11.24	10.96	10.68	10.63
45.0	13.12	12.84	12.45	12.07	11.79	11.35	11.13	10.85	10.63
90.0	12.73	12.34	12.01	11.73	11.40	11.24	11.02	10.68	10.46
135.0	13.12	12.68	12.34	12.07	11.73	11.46	11.24	10.96	10.63
180.0	13.34	12.95	12.57	12.29	11.96	11.57	11.35	11.02	10.85
225.0	12.90	12.57	12.23	11.96	11.57	11.29	11.07	10.74	10.52
270.0	13.12	12.84	12.40	12.12	11.79	11.62	11.18	10.96	10.74
315.0	12.90	12.51	12.23	11.90	11.68	11.46	11.13	10.90	10.63
360.0	12.68	12.34	12.18	11.85	11.68	11.24	10.96	10.68	10.63

Intensity data(cd)

C/ γ (°)	90.0
0.0	10.57
45.0	10.46
90.0	10.52
135.0	10.63
180.0	10.57
225.0	10.52
270.0	10.52
315.0	10.52
360.0	10.57