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NT

Client:

LumCAT: 2-2646-L

Luminaire: 92.70.412.00

Report No: 20231031-B028

Ballast type: AC

Test No: 20231031-C028

Voltage(V): 34.660

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.576

Lamp flux(lm): 3260.6

Power (W): 19.964

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2978.54, Efficiency(%): 91.35% , Luminous Efficacy(lm/W): 149.20

Central intensity(cd): 5202.270, Maximum intensity(cd): 5202.270

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=46.8

[C90/270]Total=46.8

Field angle(10%Imax): [C0/180]Total=66.8

[C90/270]Total=66.8

Maximum s/h(1/2): C0_180=0.74 C90_270=0.74

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(%): 91.35%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.995%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/10/31
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	5202.270	0.000	0	0.00%	0.00%
1.0	5189.677	4.972	4.972	0.15%	0.17%
2.0	5146.086	14.835	19.807	0.45%	0.66%
3.0	5092.670	24.488	44.295	0.75%	1.49%
4.0	5032.057	33.891	78.186	1.04%	2.62%
5.0	4959.060	42.981	121.167	1.32%	4.07%
6.0	4878.036	51.697	172.863	1.59%	5.80%
7.0	4792.238	60.023	232.887	1.84%	7.82%
8.0	4702.842	67.954	300.841	2.08%	10.10%
9.0	4609.848	75.474	376.315	2.31%	12.63%
10.0	4521.836	82.638	458.954	2.53%	15.41%
11.0	4423.099	89.378	548.332	2.74%	18.41%
12.0	4319.518	95.569	643.901	2.93%	21.62%
13.0	4211.994	101.248	745.149	3.11%	25.02%
14.0	4102.255	106.422	851.571	3.26%	28.59%
15.0	3985.113	111.027	962.598	3.41%	32.32%
16.0	3844.653	114.728	1077.326	3.52%	36.17%
17.0	3706.339	117.589	1194.915	3.61%	40.12%
18.0	3545.952	119.575	1314.489	3.67%	44.13%
19.0	3384.734	120.580	1435.069	3.70%	48.18%
20.0	3207.810	120.662	1555.731	3.70%	52.23%
21.0	3025.005	119.683	1675.414	3.67%	56.25%
22.0	2850.226	118.065	1793.479	3.62%	60.21%
23.0	2673.717	115.907	1909.386	3.55%	64.10%
24.0	2500.460	113.126	2022.512	3.47%	67.90%
25.0	2300.842	109.171	2131.683	3.35%	71.57%
26.0	2098.524	103.848	2235.531	3.18%	75.05%
27.0	1876.971	97.261	2332.792	2.98%	78.32%
28.0	1572.084	87.323	2420.115	2.68%	81.25%
29.0	1316.890	75.584	2495.699	2.32%	83.79%
30.0	1173.732	67.246	2562.945	2.06%	86.05%
31.0	984.934	60.073	2623.018	1.84%	88.06%
32.0	771.733	50.326	2673.344	1.54%	89.75%
33.0	585.952	39.998	2713.342	1.23%	91.10%
34.0	438.414	31.000	2744.342	0.95%	92.14%
35.0	312.021	23.306	2767.648	0.71%	92.92%
36.0	246.317	17.778	2785.426	0.55%	93.52%
37.0	207.604	14.804	2800.23	0.45%	94.01%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	170.828	12.632	2812.862	0.39%	94.44%
39.0	131.748	10.328	2823.189	0.32%	94.78%
40.0	115.018	8.606	2831.796	0.26%	95.07%
41.0	101.200	7.699	2839.495	0.24%	95.33%
42.0	90.143	6.952	2846.447	0.21%	95.57%
43.0	80.913	6.336	2852.783	0.19%	95.78%
44.0	73.219	5.817	2858.601	0.18%	95.97%
45.0	66.964	5.387	2863.988	0.17%	96.15%
46.0	61.754	5.034	2869.022	0.15%	96.32%
47.0	57.270	4.734	2873.756	0.15%	96.48%
48.0	53.306	4.470	2878.226	0.14%	96.63%
49.0	49.562	4.224	2882.45	0.13%	96.77%
50.0	46.622	4.010	2886.46	0.12%	96.91%
51.0	43.978	3.833	2890.294	0.12%	97.04%
52.0	41.411	3.664	2893.958	0.11%	97.16%
53.0	39.170	3.505	2897.463	0.11%	97.28%
54.0	37.177	3.365	2900.828	0.10%	97.39%
55.0	35.482	3.243	2904.071	0.10%	97.50%
56.0	33.856	3.133	2907.205	0.10%	97.61%
57.0	32.493	3.034	2910.238	0.09%	97.71%
58.0	31.199	2.945	2913.183	0.09%	97.81%
59.0	29.981	2.860	2916.044	0.09%	97.90%
60.0	28.957	2.784	2918.828	0.09%	98.00%
61.0	27.960	2.716	2921.544	0.08%	98.09%
62.0	27.026	2.650	2924.194	0.08%	98.18%
63.0	26.161	2.587	2926.781	0.08%	98.26%
64.0	25.407	2.530	2929.311	0.08%	98.35%
65.0	24.625	2.476	2931.787	0.08%	98.43%
66.0	23.899	2.421	2934.208	0.07%	98.51%
67.0	23.249	2.371	2936.579	0.07%	98.59%
68.0	22.577	2.321	2938.9	0.07%	98.67%
69.0	21.962	2.272	2941.173	0.07%	98.75%
70.0	21.394	2.227	2943.399	0.07%	98.82%
71.0	20.820	2.182	2945.581	0.07%	98.89%
72.0	20.246	2.135	2947.716	0.07%	98.97%
73.0	19.727	2.090	2949.807	0.06%	99.04%
74.0	19.208	2.047	2951.853	0.06%	99.10%
75.0	18.647	2.000	2953.854	0.06%	99.17%

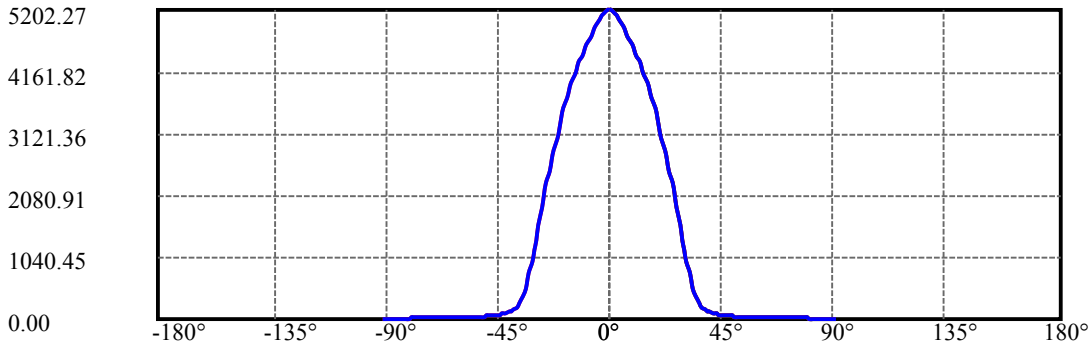
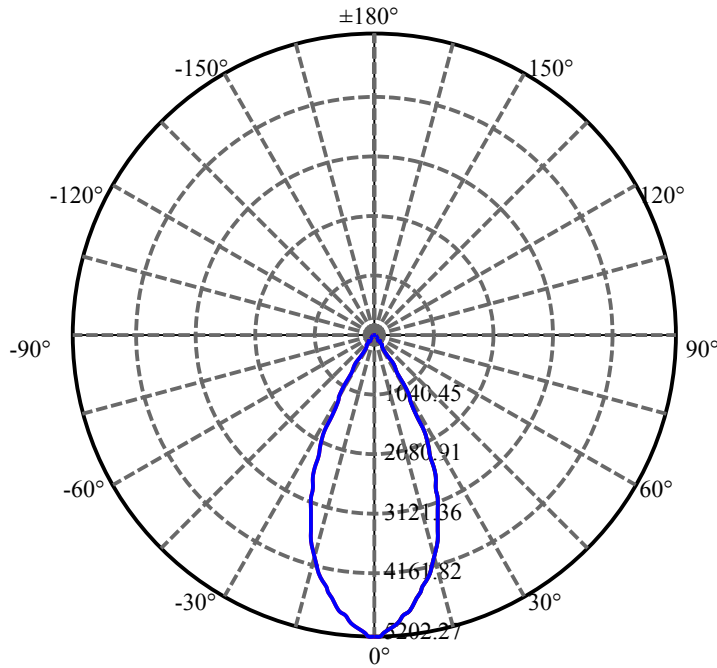
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.128	1.952	2955.806	0.06%	99.24%
77.0	17.575	1.904	2957.709	0.06%	99.30%
78.0	17.077	1.855	2959.564	0.06%	99.36%
79.0	16.578	1.808	2961.373	0.06%	99.42%
80.0	16.087	1.761	2963.134	0.05%	99.48%
81.0	15.617	1.714	2964.848	0.05%	99.54%
82.0	15.195	1.671	2966.519	0.05%	99.60%
83.0	14.752	1.628	2968.147	0.05%	99.65%
84.0	14.364	1.586	2969.733	0.05%	99.70%
85.0	13.998	1.548	2971.281	0.05%	99.76%
86.0	13.665	1.512	2972.793	0.05%	99.81%
87.0	13.354	1.479	2974.272	0.05%	99.86%
88.0	13.022	1.445	2975.717	0.04%	99.91%
89.0	12.821	1.417	2977.133	0.04%	99.95%
90.0	12.787	1.404	2978.537	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2562.95	78.60%	86.05%
0-40	2831.80	86.85%	95.07%
0-60	2918.83	89.52%	98.00%
0-90	2977.13	91.31%	99.95%
0-120	2977.13	91.31%	99.95%
0-180	2978.54	91.35%	100.00%
60-90	58.30	1.79%	1.96%
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%
0-27.57	2382.83	73.08%	80.00%

ZONAL LUMEN SUMMARY

0-10	458.95
10-20	1096.78
20-30	1007.21
30-40	268.85
40-50	54.66
50-60	32.37
60-70	24.57
70-80	19.73
80-90	14.00
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: —————

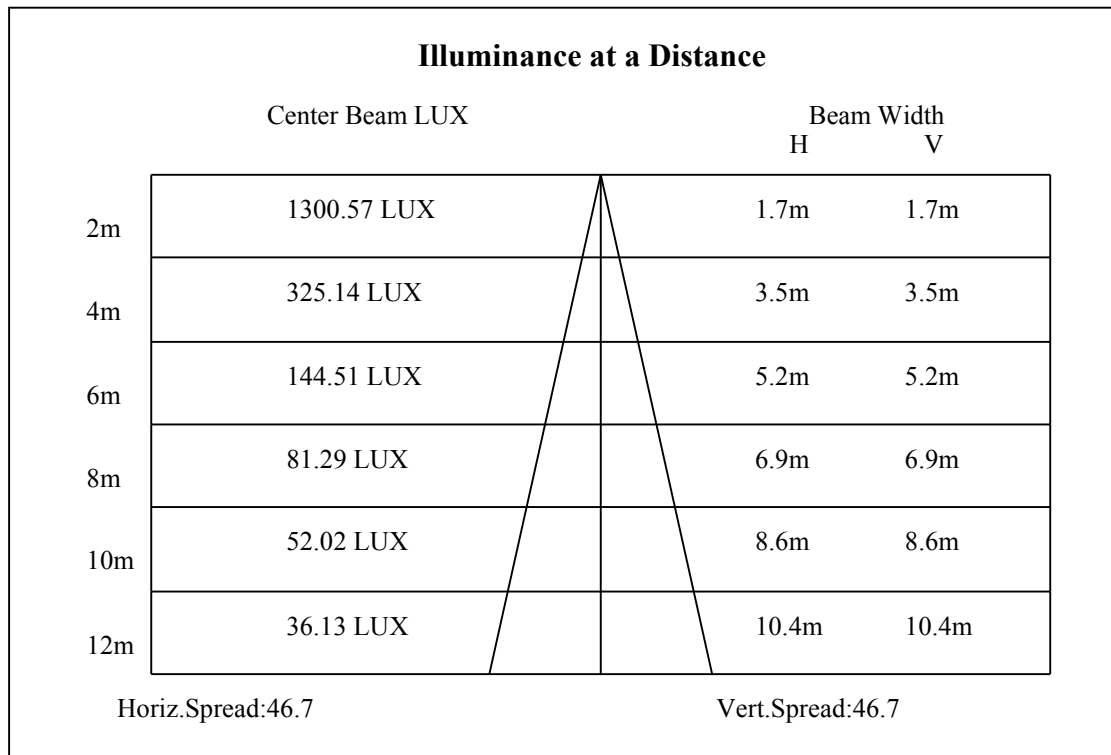
C90/C270: —————

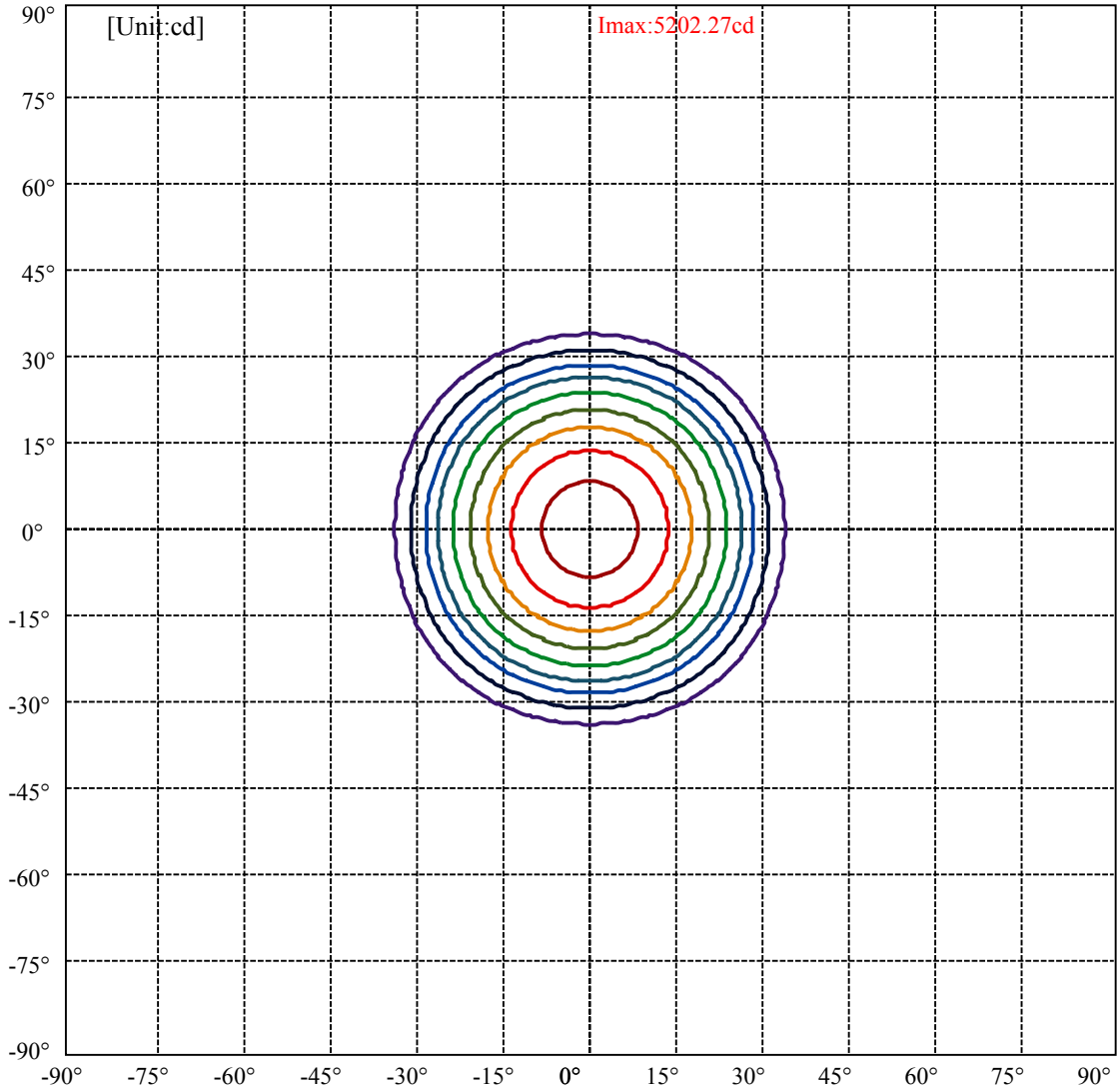
Field angle(10%Imax):C0/180Left:33.4 Right:33.4

:C90/270Left:33.4 Right:33.4

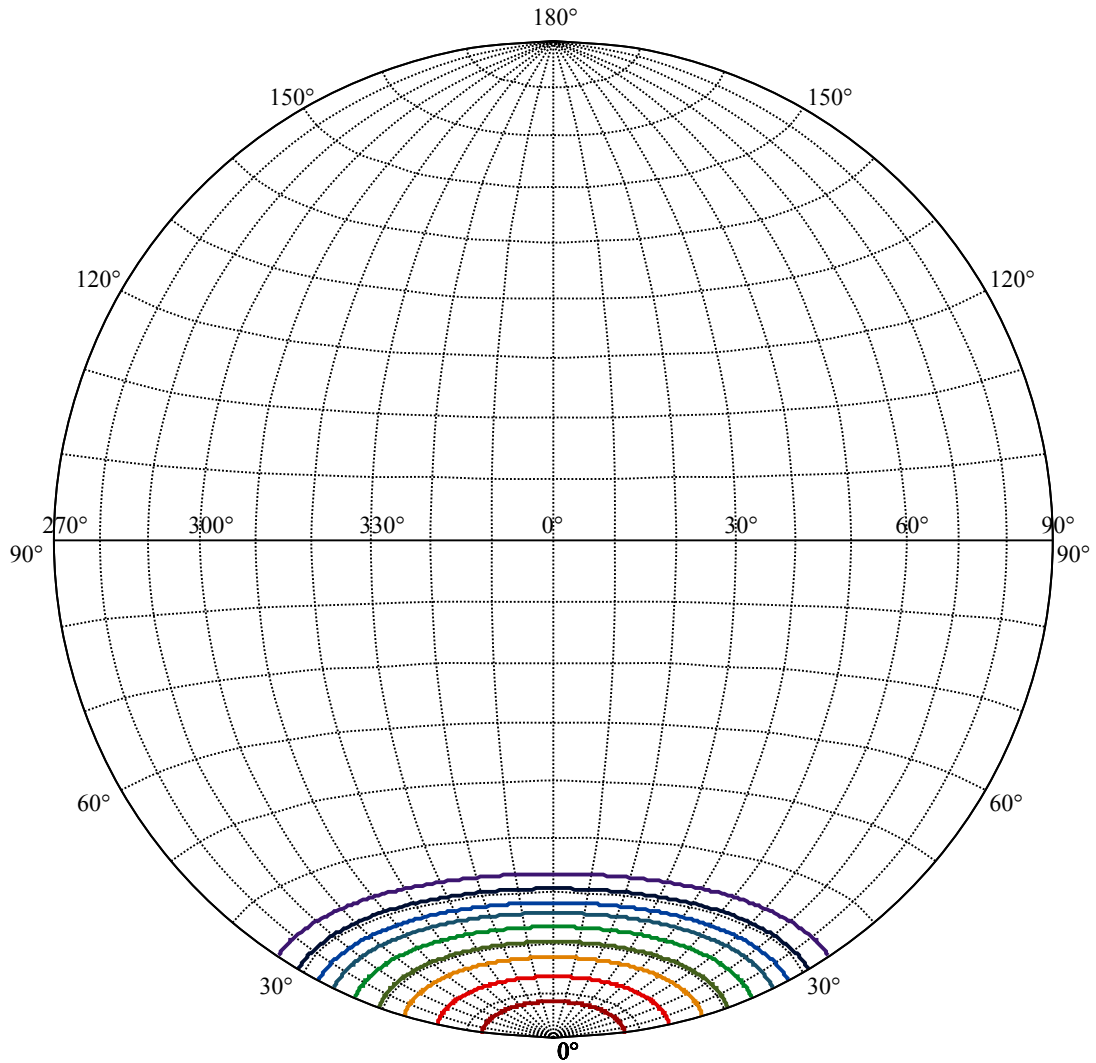
Beam Angle(50%Imax):C0/180Left:23.4 Right:23.4

:C90/270Left:23.4 Right:23.4





(10%Imax) 520.227	—
(20%Imax) 1040.45	—
(30%Imax) 1560.68	—
(40%Imax) 2080.91	—
(50%Imax) 2601.13	—
(60%Imax) 3121.36	—
(70%Imax) 3641.59	—
(80%Imax) 4161.82	—
(90%Imax) 4682.04	—



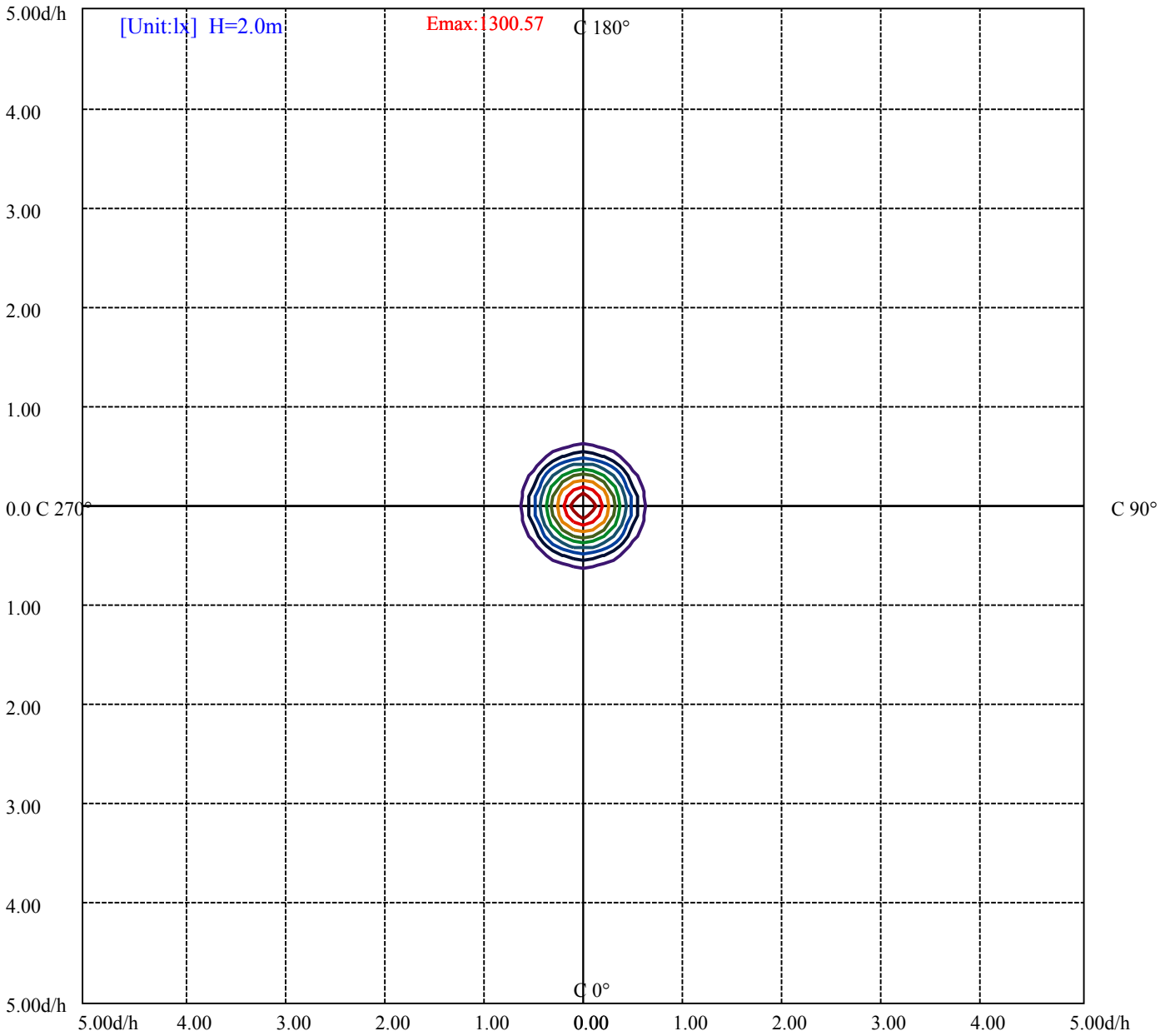
House

[Unit:cd]

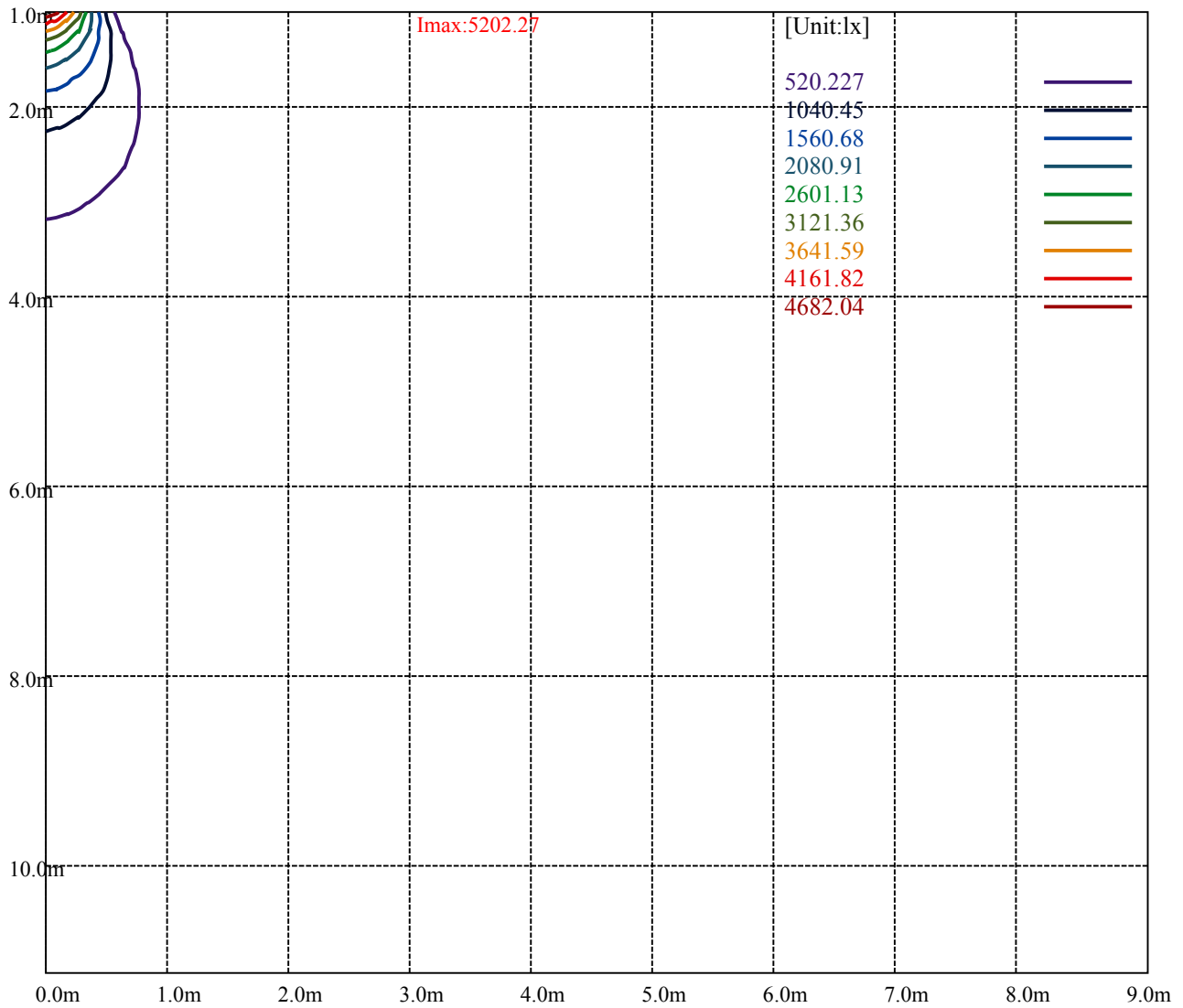
Road

Imax:5202.27

(10%Imax)	520.227	—
(20%Imax)	1040.45	—
(30%Imax)	1560.68	—
(40%Imax)	2080.91	—
(50%Imax)	2601.13	—
(60%Imax)	3121.36	—
(70%Imax)	3641.59	—
(80%Imax)	4161.82	—
(90%Imax)	4682.04	—



(10%Emax) 130.0567	—
(20%Emax) 260.1125	—
(30%Emax) 390.17	—
(40%Emax) 520.2275	—
(50%Emax) 650.2825	—
(60%Emax) 780.34	—
(70%Emax) 910.3975	—
(80%Emax) 1040.453	—
(90%Emax) 1170.51	—



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

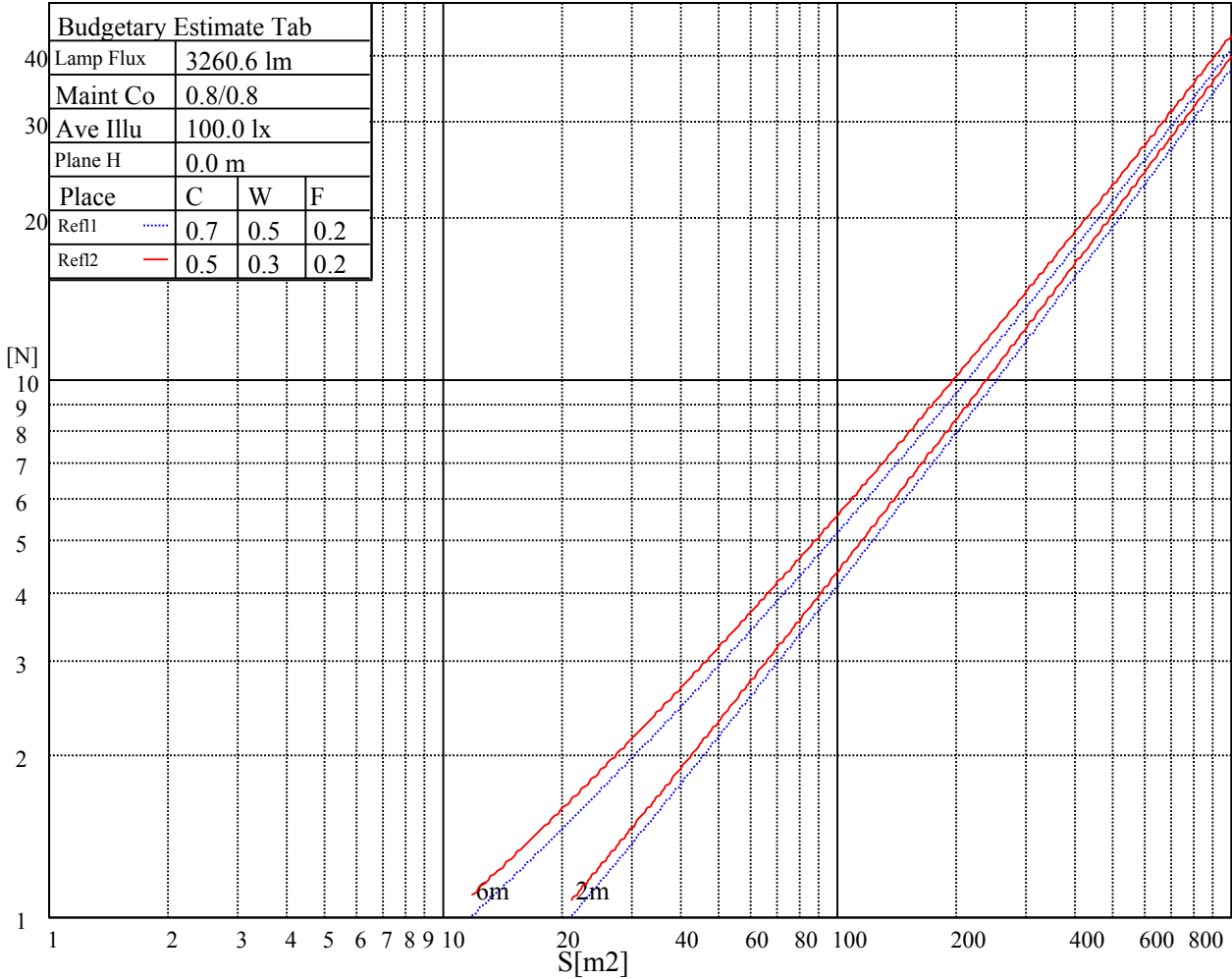
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

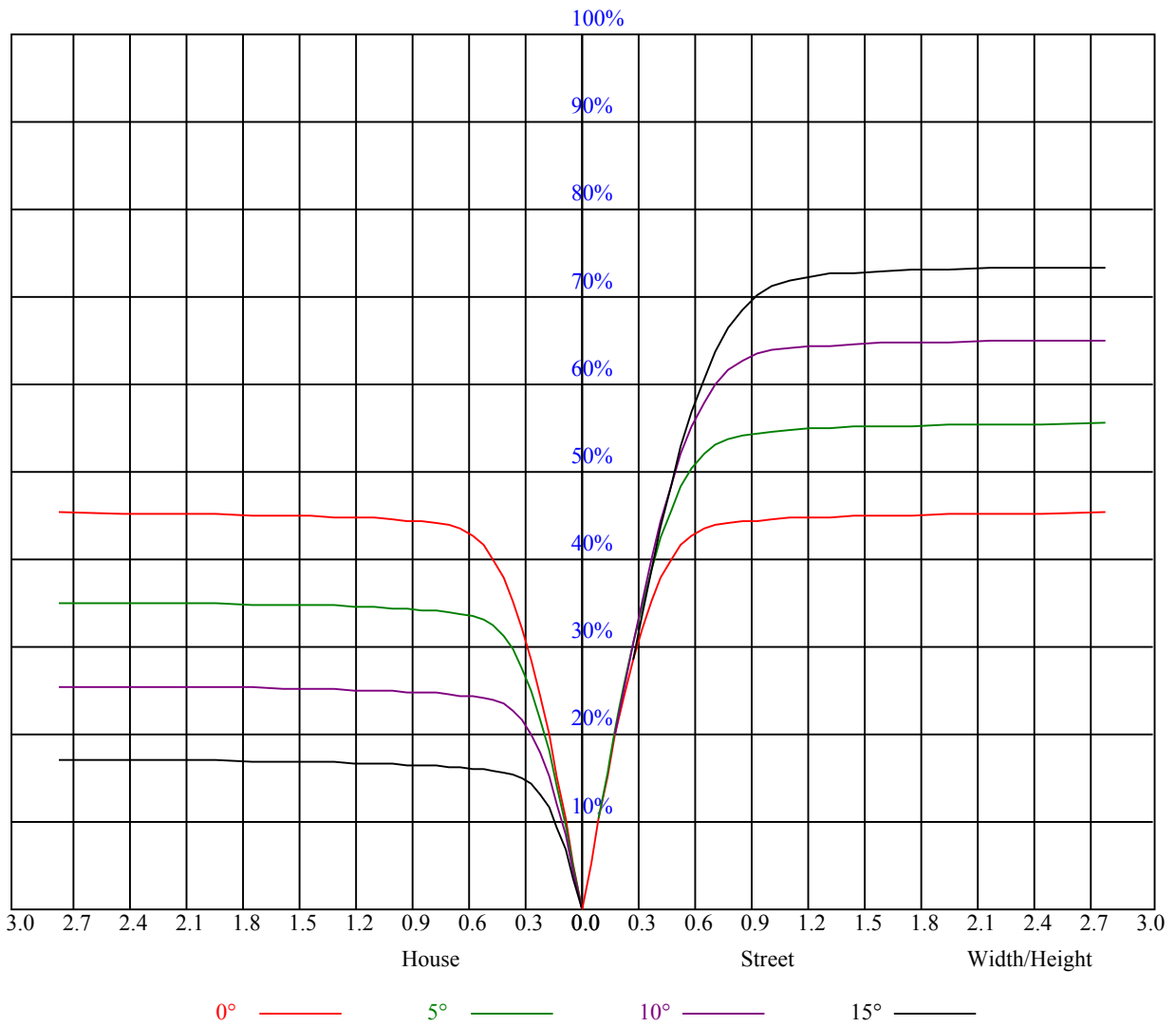


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.98	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	0.92	0.89	0.94	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.90	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.65
7	0.72	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	0.62
8	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	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	5180.54	5102.49	5036.62	4980.72	4890.49	4789.75	4716.13	4634.76	4540.10
45.0	5218.74	5189.40	5137.37	5049.36	4982.93	4909.86	4834.03	4723.88	4638.08
90.0	5193.27	5158.96	5074.26	5010.61	4939.76	4861.15	4757.64	4672.95	4566.67
135.0	5216.52	5204.35	5153.97	5112.46	5055.44	4964.11	4876.65	4799.71	4690.66
180.0	5180.54	5218.18	5223.72	5199.92	5158.40	5101.94	5030.54	4943.63	4871.67
225.0	5218.74	5223.72	5189.95	5147.33	5094.75	5023.89	4939.20	4861.71	4773.14
270.0	5193.27	5223.17	5214.31	5168.37	5129.06	5072.60	5023.34	4924.81	4844.55
315.0	5216.52	5197.15	5138.47	5072.60	5005.63	4949.17	4846.76	4776.46	4697.86
360.0	5180.54	5102.49	5036.62	4980.72	4890.49	4789.75	4716.13	4634.76	4540.10
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4449.32	4368.51	4277.17	4183.07	4043.58	3930.66	3800.58	3611.82	3464.03
45.0	4557.26	4472.57	4356.33	4251.16	4152.63	4027.53	3915.71	3791.17	3627.32
90.0	4473.12	4379.02	4248.94	4150.41	4045.24	3942.84	3788.40	3659.43	3524.92
135.0	4598.78	4512.98	4411.13	4283.82	4179.75	4068.49	3957.78	3810.54	3672.71
180.0	4766.50	4686.79	4598.78	4504.68	4375.15	4273.85	4158.72	4021.99	3900.21
225.0	4679.04	4584.94	4483.64	4388.99	4293.78	4170.34	4054.65	3937.86	3780.65
270.0	4742.70	4661.33	4584.94	4477.00	4376.81	4279.94	4181.96	4052.44	3942.28
315.0	4612.06	4508.55	4423.86	4317.03	4229.02	4124.40	4023.10	3871.98	3738.58
360.0	4449.32	4368.51	4277.17	4183.07	4043.58	3930.66	3800.58	3611.82	3464.03
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3258.11	3091.50	2916.58	2706.79	2545.71	2382.42	2214.14	1986.09	1785.15
45.0	3482.29	3322.88	3134.12	2978.58	2828.57	2673.58	2470.98	2296.07	2113.40
90.0	3382.66	3205.53	3043.34	2886.69	2687.97	2524.68	2353.08	2102.88	1886.45
135.0	3531.01	3348.89	3195.01	2997.40	2839.64	2684.10	2521.36	2306.03	2107.87
180.0	3728.62	3584.70	3424.73	3202.76	3025.63	2853.48	2679.11	2468.22	2291.64
225.0	3624.55	3467.35	3249.81	3070.46	2897.21	2671.36	2496.45	2315.99	2122.26
270.0	3812.76	3672.16	3482.29	3322.32	3151.28	2952.01	2783.73	2614.90	2398.47
315.0	3547.61	3384.87	3216.60	3035.04	2825.80	2648.12	2484.82	2316.55	2082.96
360.0	3258.11	3091.50	2916.58	2706.79	2545.71	2382.42	2214.14	1986.09	1785.15
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1572.04	1065.78	1065.78	924.02	745.11	540.42	399.76	289.39	204.42
45.0	1910.81	1645.11	1429.78	1222.76	968.69	779.93	566.27	423.46	311.64
90.0	1603.59	1057.92	1057.92	957.23	720.37	553.70	412.55	304.33	222.08
135.0	1894.75	1672.23	1403.21	1192.32	990.28	756.68	587.30	442.83	303.34
180.0	2101.78	1891.43	1675.55	1410.41	1199.51	991.94	759.45	590.62	411.28
225.0	1852.13	1637.91	1099.10	1099.10	998.91	762.39	589.52	407.13	294.54
270.0	2204.73	1941.80	1723.16	1503.40	1277.56	999.69	797.65	620.51	464.42
315.0	1875.93	1664.48	1080.61	1080.61	979.04	789.12	575.12	429.05	284.46
360.0	1572.04	1065.78	1065.78	924.02	745.11	540.42	399.76	289.39	204.42
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	169.88	145.52	122.61	108.71	96.92	87.13	77.11	70.58	65.04
45.0	288.95	210.79	152.00	131.80	116.30	100.47	89.95	81.31	72.57
90.0	184.66	157.87	137.22	117.40	104.73	91.39	82.64	75.23	67.59
135.0	282.30	212.17	155.16	134.95	119.12	103.18	92.50	83.47	76.06
180.0	299.46	299.46	214.33	150.06	131.13	116.02	103.40	90.39	81.87
225.0	220.20	171.76	147.19	127.98	109.71	97.59	87.90	79.49	71.07
270.0	312.75	289.50	289.50	158.75	132.68	116.63	100.63	90.23	81.59
315.0	212.34	173.75	148.62	124.32	109.54	97.20	87.02	76.61	69.97
360.0	169.88	145.52	122.61	108.71	96.92	87.13	77.11	70.58	65.04

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	60.28	55.35	51.87	48.10	45.39	42.90	40.24	38.36	36.59
45.0	66.70	61.77	56.52	52.92	48.93	46.05	43.51	41.24	38.69
90.0	62.44	58.01	54.25	50.04	47.05	44.50	42.12	39.47	37.59
135.0	68.25	63.16	58.73	54.91	50.59	47.66	45.00	41.96	40.02
180.0	74.78	68.75	62.44	58.18	53.69	50.48	47.55	44.39	42.12
225.0	65.48	60.67	56.57	52.14	48.99	45.50	43.01	40.80	38.30
270.0	73.12	67.31	62.38	58.23	53.64	50.32	47.33	44.73	41.68
315.0	64.65	59.01	55.41	51.92	48.21	45.56	43.07	40.35	38.36
360.0	60.28	55.35	51.87	48.10	45.39	42.90	40.24	38.36	36.59
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.54	33.10	31.77	30.61	29.50	28.34	27.46	26.63	25.74
45.0	36.92	35.20	33.71	32.11	30.94	29.89	28.84	27.68	26.90
90.0	35.87	33.99	32.55	31.33	29.89	28.89	28.01	26.96	26.18
135.0	37.75	36.09	34.76	33.38	31.77	30.72	29.72	28.78	27.68
180.0	39.63	37.86	36.20	34.76	33.38	31.88	30.78	29.67	28.78
225.0	36.53	34.98	33.21	31.88	30.72	29.67	28.45	27.51	26.68
270.0	39.52	37.64	35.48	33.99	32.60	31.05	29.95	28.89	27.73
315.0	36.64	34.98	33.16	31.88	30.78	29.39	28.45	27.57	26.51
360.0	34.54	33.10	31.77	30.61	29.50	28.34	27.46	26.63	25.74
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.02	24.36	23.58	22.97	22.25	21.70	21.15	20.65	20.15
45.0	25.91	25.19	24.58	23.75	23.14	22.53	21.98	21.31	20.76
90.0	25.41	24.74	23.91	23.30	22.75	22.14	21.42	20.87	20.37
135.0	26.85	26.07	25.41	24.47	23.86	23.03	22.42	21.86	21.09
180.0	27.62	26.79	25.79	25.08	24.36	23.53	22.92	22.31	21.64
225.0	25.91	25.02	24.30	23.69	22.92	22.36	21.64	21.15	20.59
270.0	26.85	26.02	25.24	24.36	23.75	23.08	22.47	21.81	21.26
315.0	25.74	25.08	24.19	23.58	22.97	22.25	21.70	21.20	20.70
360.0	25.02	24.36	23.58	22.97	22.25	21.70	21.15	20.65	20.15
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.54	19.10	18.60	18.16	17.55	17.10	16.61	16.05	15.61
45.0	20.26	19.76	19.21	18.65	18.21	17.55	17.05	16.61	16.05
90.0	19.71	19.26	18.60	18.10	17.60	16.99	16.50	16.05	15.61
135.0	20.54	20.04	19.54	18.82	18.27	17.77	17.21	16.61	16.11
180.0	21.09	20.54	20.04	19.37	18.88	18.32	17.82	17.33	16.66
225.0	20.09	19.48	18.99	18.49	18.05	17.44	16.99	16.55	16.11
270.0	20.70	20.09	19.60	18.99	18.49	17.93	17.38	16.94	16.50
315.0	20.04	19.54	19.10	18.60	17.99	17.49	17.05	16.50	16.05
360.0	19.54	19.10	18.60	18.16	17.55	17.10	16.61	16.05	15.61
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.11	14.83	14.45	14.06	13.73	13.40	13.12	12.73	12.73
45.0	15.61	15.17	14.72	14.39	14.00	13.67	13.34	13.06	12.62
90.0	15.11	14.78	14.39	14.06	13.67	13.45	13.12	12.68	12.95
135.0	15.72	15.17	14.72	14.34	13.95	13.67	13.34	13.01	12.73
180.0	16.16	15.67	15.11	14.72	14.34	13.95	13.67	13.34	13.06
225.0	15.61	15.17	14.72	14.34	14.00	13.62	13.34	13.06	12.73
270.0	16.05	15.55	15.11	14.67	14.28	13.95	13.56	13.23	12.95
315.0	15.55	15.22	14.78	14.34	14.00	13.62	13.34	13.06	12.79
360.0	15.11	14.83	14.45	14.06	13.73	13.40	13.12	12.73	12.73

Intensity data(cd)

C/ γ (°)	90.0
0.0	12.84
45.0	12.90
90.0	13.01
135.0	13.01
180.0	12.68
225.0	12.62
270.0	12.68
315.0	12.57
360.0	12.84