



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.412.00

Report No: 2024322-B009

Ballast type: AC

Test No: 2024322-C009

Voltage(V): 34.710

LampCAT: Fortimo\_SLM\_C\_1208

Current(A): 0.577

Lamp flux(lm): 3486.0

Power (W): 20.027

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2877.74, Efficiency(%): 82.55% , Luminous Efficacy(lm/W): 143.69

Central intensity(cd): 5172.863, Maximum intensity(cd): 5172.863

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.4

[C90/270]Total=44.4

Field angle(10%Imax): [C0/180]Total=67.8

[C90/270]Total=67.8

Maximum s/h(1/2): C0\_180=0.71 C90\_270=0.71

Maximum s/h(1/4): C0\_180=0.70 C90\_270=0.70

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.55%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.753%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/3/22  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5172.862	0.000	0	0.00%	0.00%
1.0	5168.107	4.948	4.948	0.14%	0.17%
2.0	5152.745	14.813	19.761	0.42%	0.69%
3.0	5124.654	24.580	44.342	0.71%	1.54%
4.0	5079.665	34.157	78.499	0.98%	2.73%
5.0	5023.264	43.462	121.961	1.25%	4.24%
6.0	4950.038	52.412	174.373	1.50%	6.06%
7.0	4868.765	60.945	235.318	1.75%	8.18%
8.0	4777.250	69.035	304.353	1.98%	10.58%
9.0	4674.763	76.603	380.957	2.20%	13.24%
10.0	4567.081	83.635	464.592	2.40%	16.14%
11.0	4440.526	90.005	554.596	2.58%	19.27%
12.0	4317.702	95.740	650.336	2.75%	22.60%
13.0	4173.298	100.767	751.103	2.89%	26.10%
14.0	4028.162	104.978	856.081	3.01%	29.75%
15.0	3876.516	108.519	964.6	3.11%	33.52%
16.0	3722.163	111.342	1075.942	3.19%	37.39%
17.0	3544.401	113.160	1189.102	3.25%	41.32%
18.0	3371.467	114.028	1303.13	3.27%	45.28%
19.0	3190.120	114.158	1417.288	3.27%	49.25%
20.0	2997.142	113.244	1530.532	3.25%	53.19%
21.0	2809.797	111.505	1642.037	3.20%	57.06%
22.0	2625.670	109.228	1751.265	3.13%	60.86%
23.0	2431.449	106.112	1857.377	3.04%	64.54%
24.0	2235.325	102.032	1959.409	2.93%	68.09%
25.0	2048.565	97.406	2056.816	2.79%	71.47%
26.0	1859.172	92.243	2149.058	2.65%	74.68%
27.0	1627.167	85.294	2234.352	2.45%	77.64%
28.0	1351.167	75.405	2309.757	2.16%	80.26%
29.0	1258.512	68.277	2378.034	1.96%	82.64%
30.0	1099.718	63.672	2441.706	1.83%	84.85%
31.0	937.018	56.679	2498.385	1.63%	86.82%
32.0	782.512	49.263	2547.648	1.41%	88.53%
33.0	637.252	41.827	2589.474	1.20%	89.98%
34.0	510.726	34.741	2624.216	1.00%	91.19%
35.0	414.932	28.748	2652.963	0.82%	92.19%
36.0	327.755	23.647	2676.61	0.68%	93.01%
37.0	265.707	19.355	2695.966	0.56%	93.68%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	216.570	16.098	2712.064	0.46%	94.24%
39.0	158.245	12.793	2724.857	0.37%	94.69%
40.0	111.639	9.413	2734.27	0.27%	95.01%
41.0	90.161	7.186	2741.456	0.21%	95.26%
42.0	75.896	6.033	2747.489	0.17%	95.47%
43.0	66.079	5.259	2752.748	0.15%	95.66%
44.0	58.939	4.719	2757.466	0.14%	95.82%
45.0	54.265	4.351	2761.817	0.12%	95.97%
46.0	50.827	4.110	2765.927	0.12%	96.11%
47.0	47.703	3.919	2769.846	0.11%	96.25%
48.0	45.406	3.764	2773.61	0.11%	96.38%
49.0	43.548	3.653	2777.263	0.10%	96.51%
50.0	41.917	3.563	2780.826	0.10%	96.63%
51.0	40.461	3.485	2784.311	0.10%	96.75%
52.0	39.137	3.416	2787.727	0.10%	96.87%
53.0	38.018	3.356	2791.083	0.10%	96.99%
54.0	36.862	3.300	2794.383	0.09%	97.10%
55.0	35.860	3.246	2797.63	0.09%	97.22%
56.0	34.799	3.193	2800.823	0.09%	97.33%
57.0	33.877	3.140	2803.963	0.09%	97.44%
58.0	32.904	3.088	2807.051	0.09%	97.54%
59.0	32.056	3.037	2810.088	0.09%	97.65%
60.0	31.163	2.987	2813.074	0.09%	97.75%
61.0	30.278	2.932	2816.006	0.08%	97.85%
62.0	29.481	2.880	2818.886	0.08%	97.95%
63.0	28.574	2.823	2821.709	0.08%	98.05%
64.0	27.798	2.766	2824.476	0.08%	98.15%
65.0	26.957	2.710	2827.185	0.08%	98.24%
66.0	26.116	2.648	2829.833	0.08%	98.34%
67.0	25.355	2.588	2832.421	0.07%	98.43%
68.0	24.660	2.534	2834.955	0.07%	98.51%
69.0	24.104	2.488	2837.443	0.07%	98.60%
70.0	23.607	2.450	2839.893	0.07%	98.68%
71.0	23.211	2.420	2842.313	0.07%	98.77%
72.0	22.707	2.388	2844.7	0.07%	98.85%
73.0	22.158	2.346	2847.047	0.07%	98.93%
74.0	21.573	2.299	2849.346	0.07%	99.01%
75.0	21.068	2.253	2851.599	0.06%	99.09%

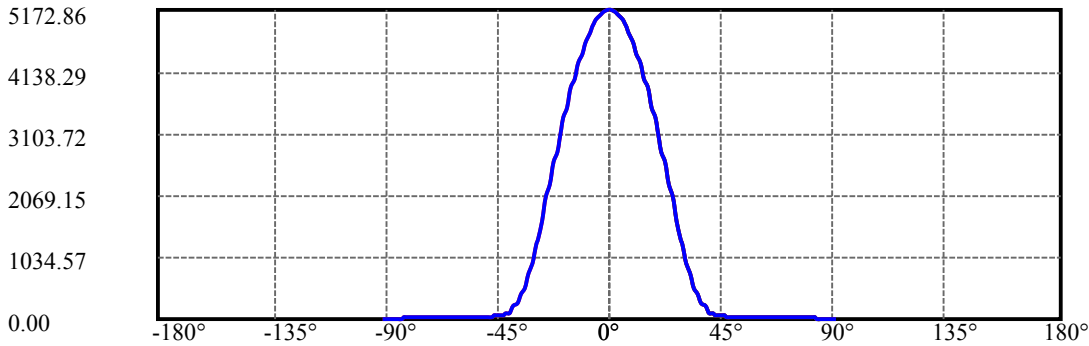
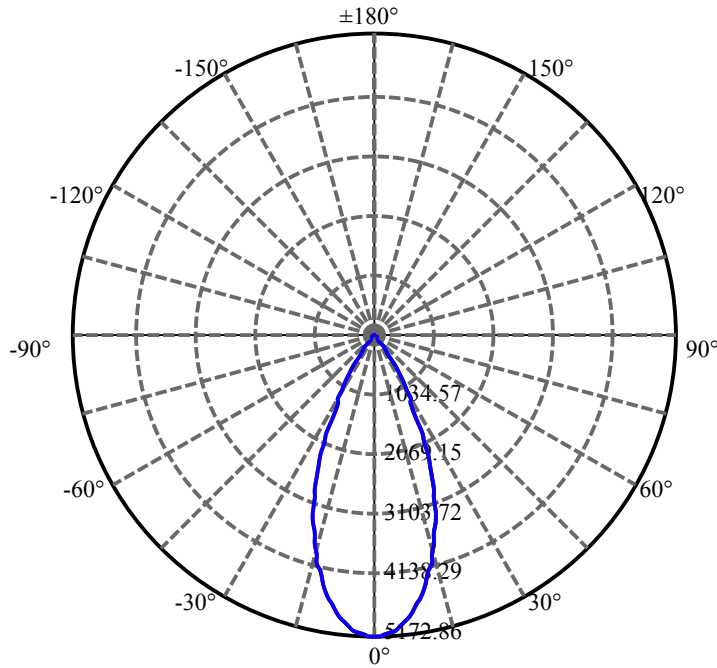
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	20.556	2.210	2853.808	0.06%	99.17%
77.0	20.007	2.163	2855.971	0.06%	99.24%
78.0	19.415	2.110	2858.081	0.06%	99.32%
79.0	18.793	2.053	2860.134	0.06%	99.39%
80.0	18.113	1.990	2862.124	0.06%	99.46%
81.0	17.462	1.924	2864.048	0.06%	99.52%
82.0	16.723	1.854	2865.901	0.05%	99.59%
83.0	15.874	1.772	2867.673	0.05%	99.65%
84.0	14.762	1.669	2869.342	0.05%	99.71%
85.0	13.658	1.551	2870.893	0.04%	99.76%
86.0	12.875	1.450	2872.344	0.04%	99.81%
87.0	12.495	1.388	2873.732	0.04%	99.86%
88.0	12.239	1.355	2875.087	0.04%	99.91%
89.0	12.063	1.332	2876.419	0.04%	99.95%
90.0	11.990	1.319	2877.738	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2441.71	70.04%	84.85%
0-40	2734.27	78.44%	95.01%
0-60	2813.07	80.70%	97.75%
0-90	2876.42	82.51%	99.95%
0-120	2876.42	82.51%	99.95%
0-180	2877.74	82.55%	100.00%
60-90	63.34	1.82%	2.20%
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%
0-27.90	2302.19	66.04%	80.00%

ZONAL LUMEN SUMMARY

0-10	464.59
10-20	1065.94
20-30	911.17
30-40	292.56
40-50	46.56
50-60	32.25
60-70	26.82
70-80	22.23
80-90	14.30
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: —————

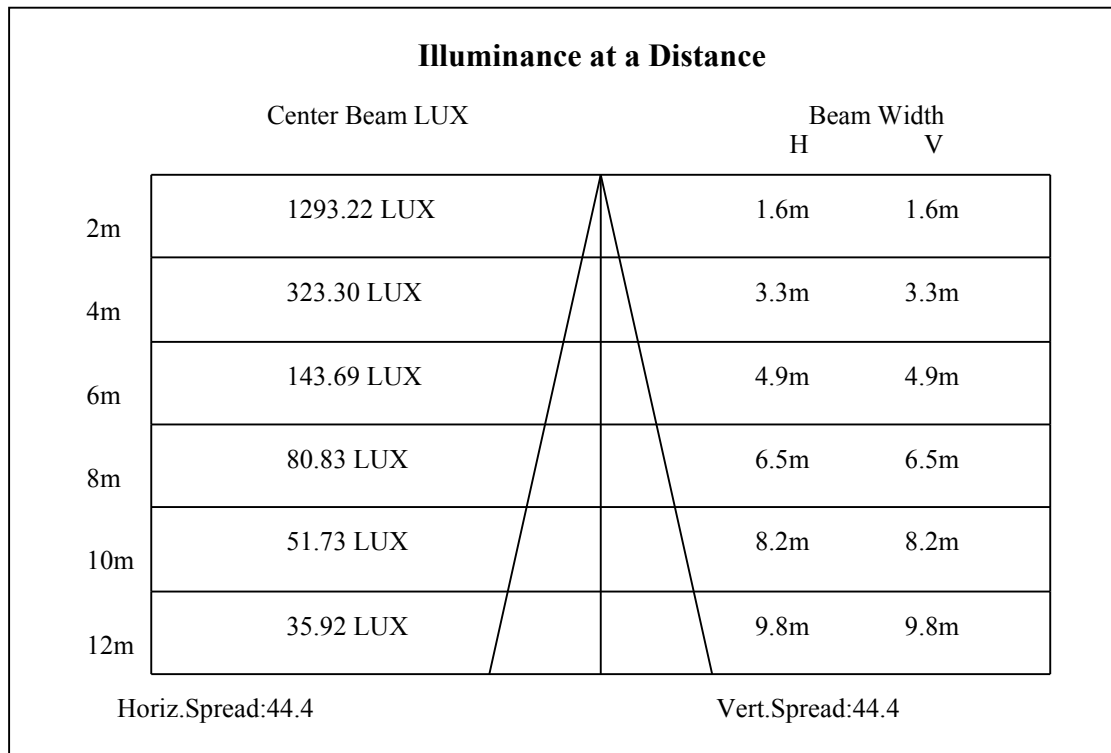
C90/C270: —————

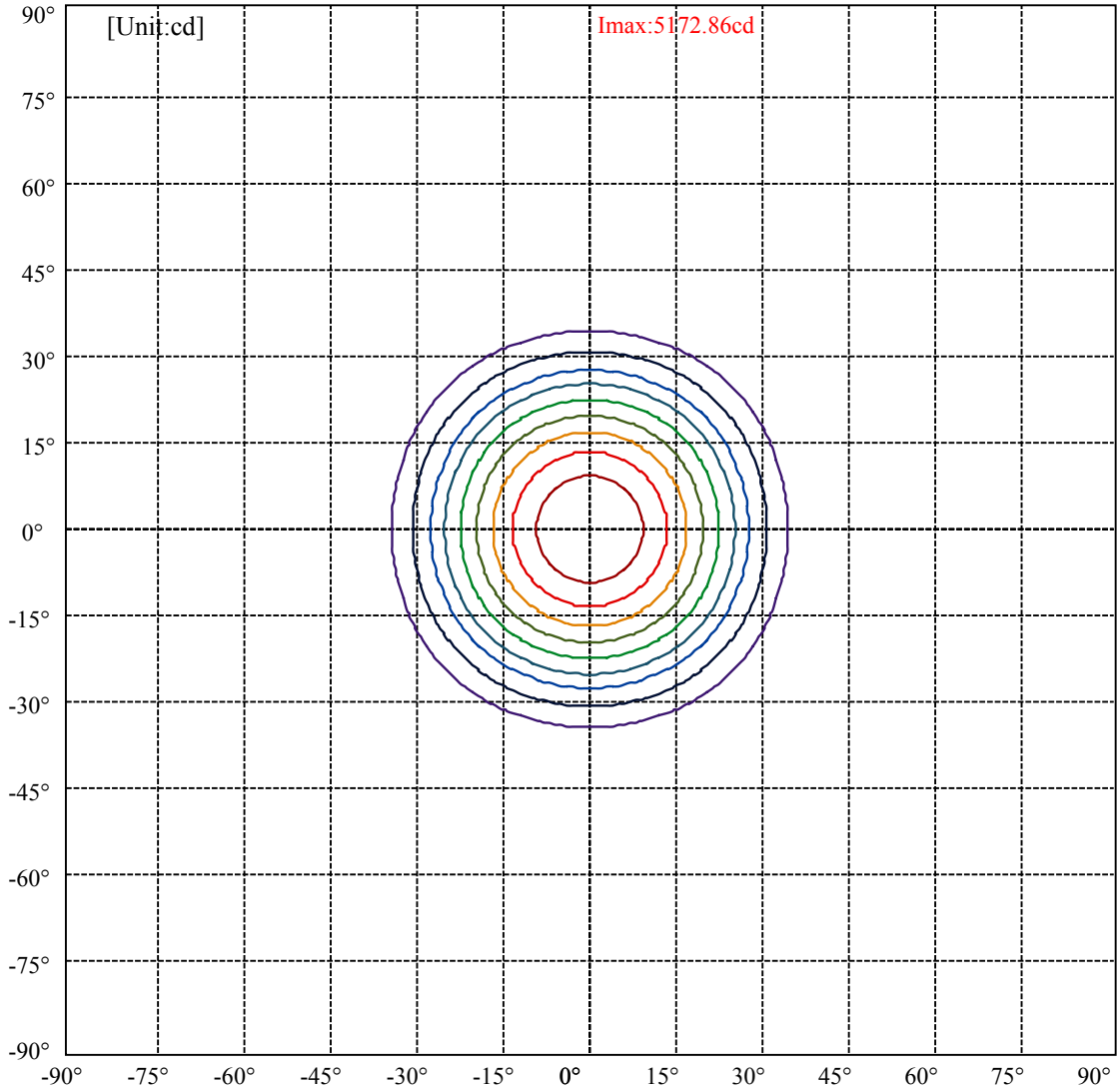
Field angle(10%Imax):C0/180Left:33.9 Right:33.9

:C90/270Left:33.9 Right:33.9

Beam Angle(50%Imax):C0/180Left:22.2 Right:22.2

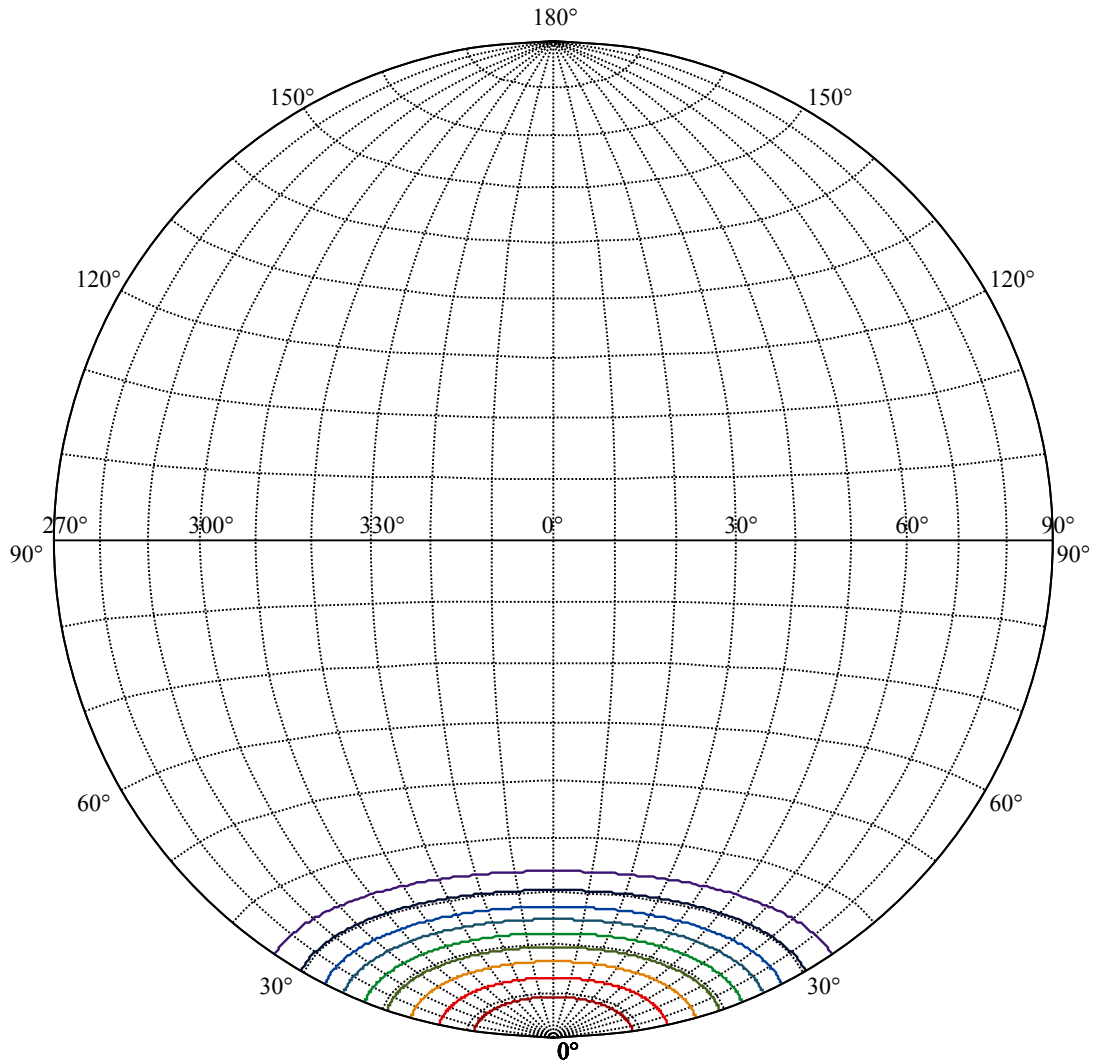
:C90/270Left:22.2 Right:22.2





(10%Imax) 517.286	—
(20%Imax) 1034.57	—
(30%Imax) 1551.86	—
(40%Imax) 2069.15	—
(50%Imax) 2586.43	—
(60%Imax) 3103.72	—
(70%Imax) 3621	—
(80%Imax) 4138.29	—
(90%Imax) 4655.58	—





House

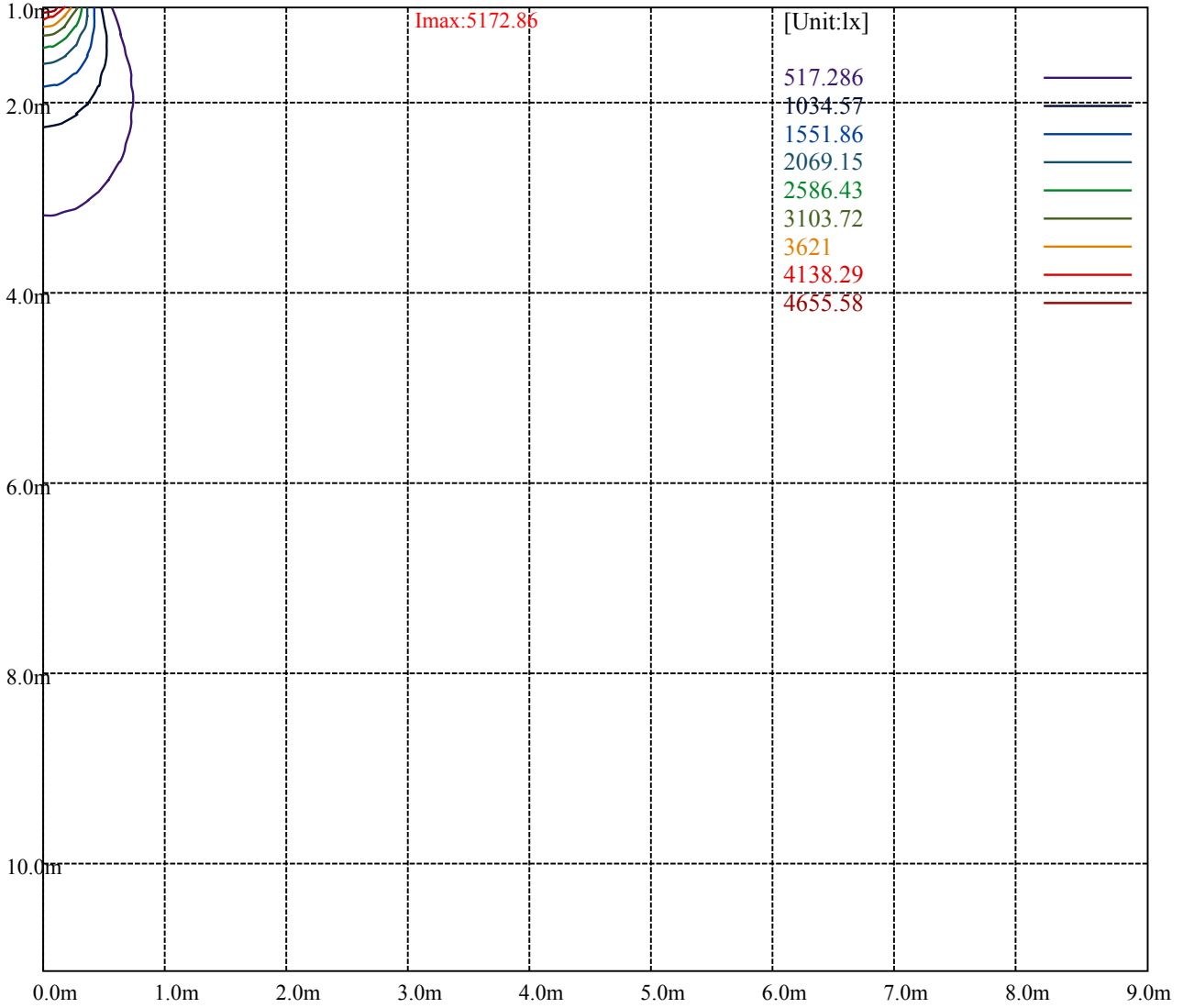
[Unit:cd]

Road

Imax:5172.86

(10%Imax)	517.286	—
(20%Imax)	1034.57	—
(30%Imax)	1551.86	—
(40%Imax)	2069.15	—
(50%Imax)	2586.43	—
(60%Imax)	3103.72	—
(70%Imax)	3621	—
(80%Imax)	4138.29	—
(90%Imax)	4655.58	—





Luminance Table

$\gamma$	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

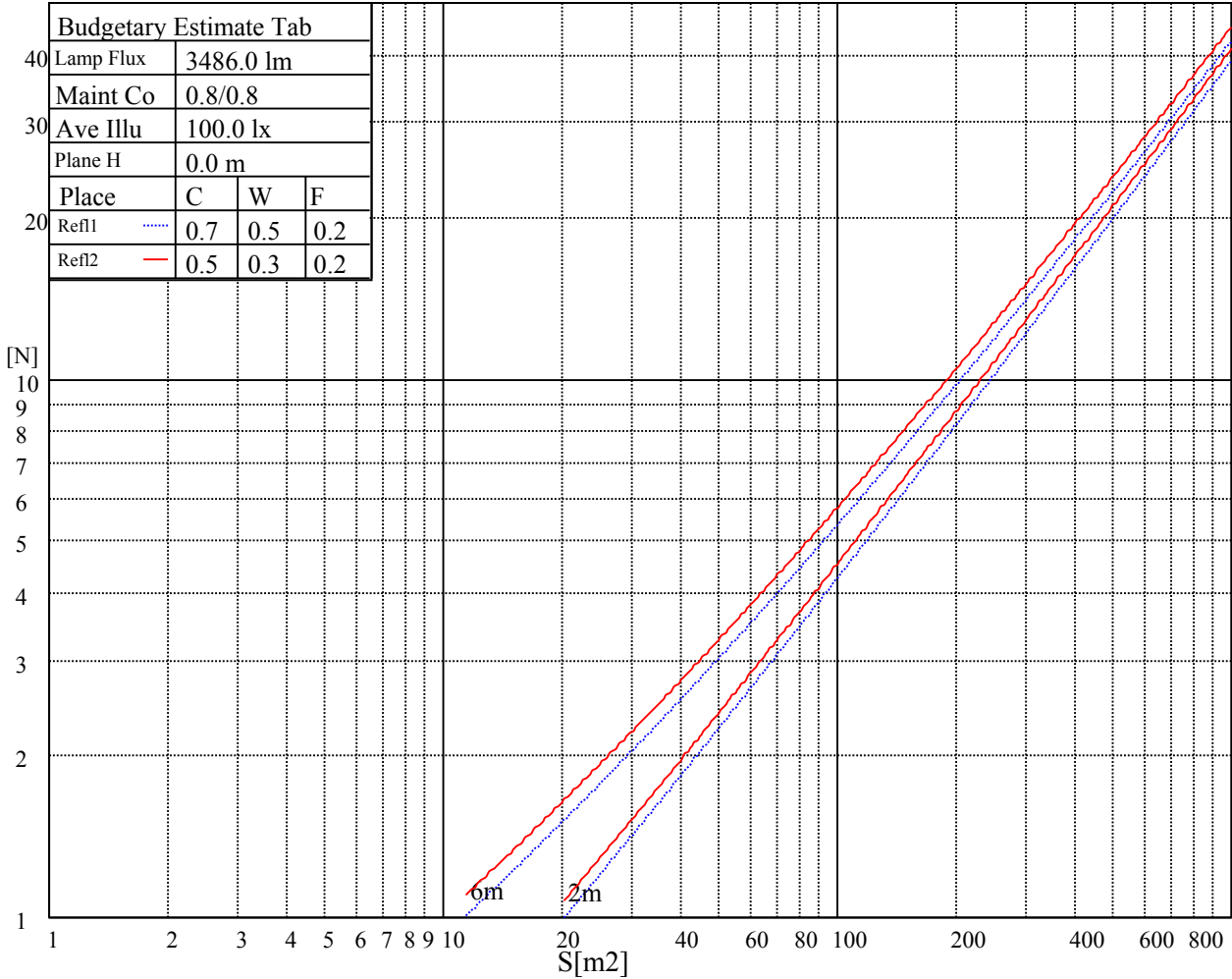
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

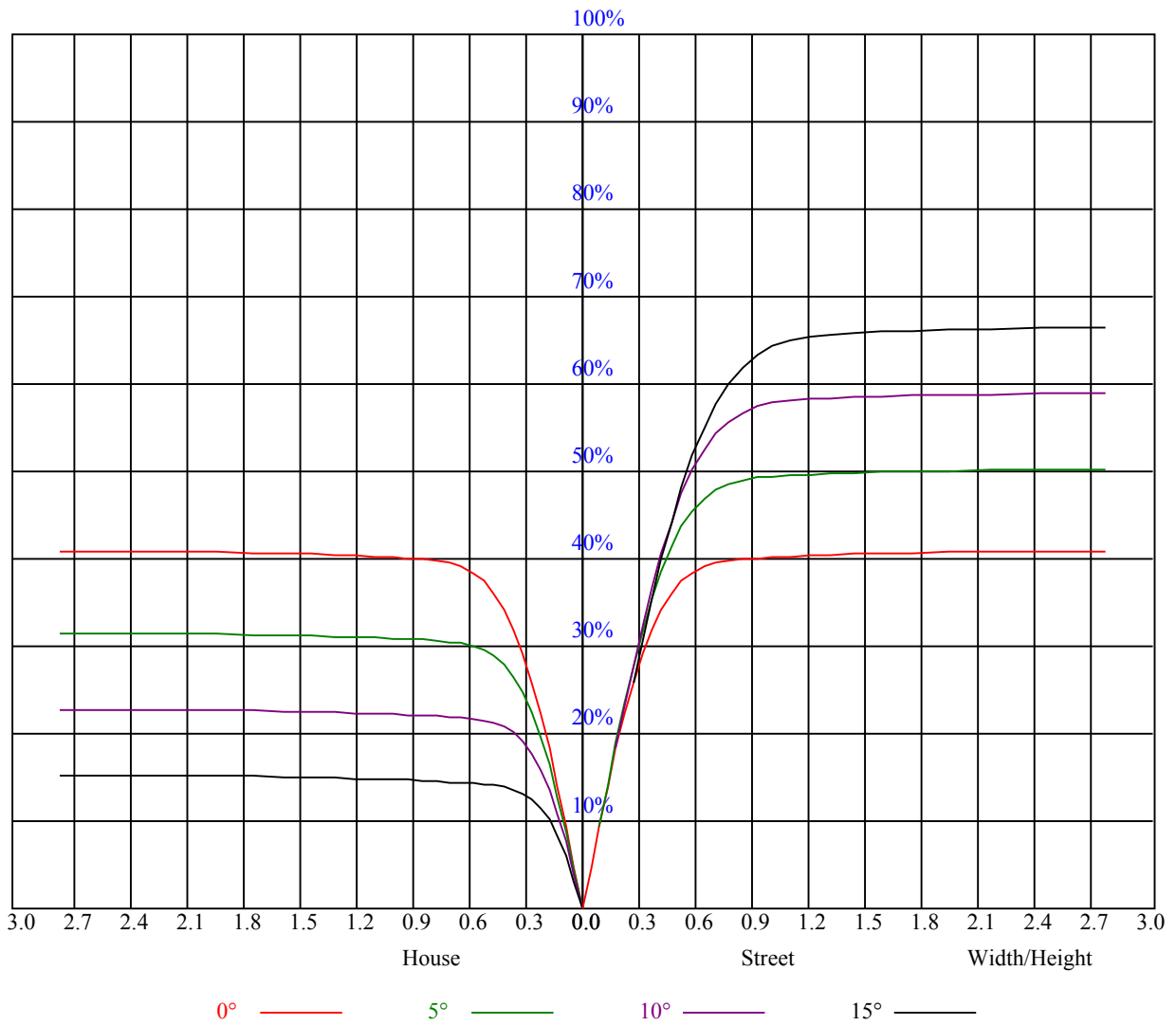


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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				

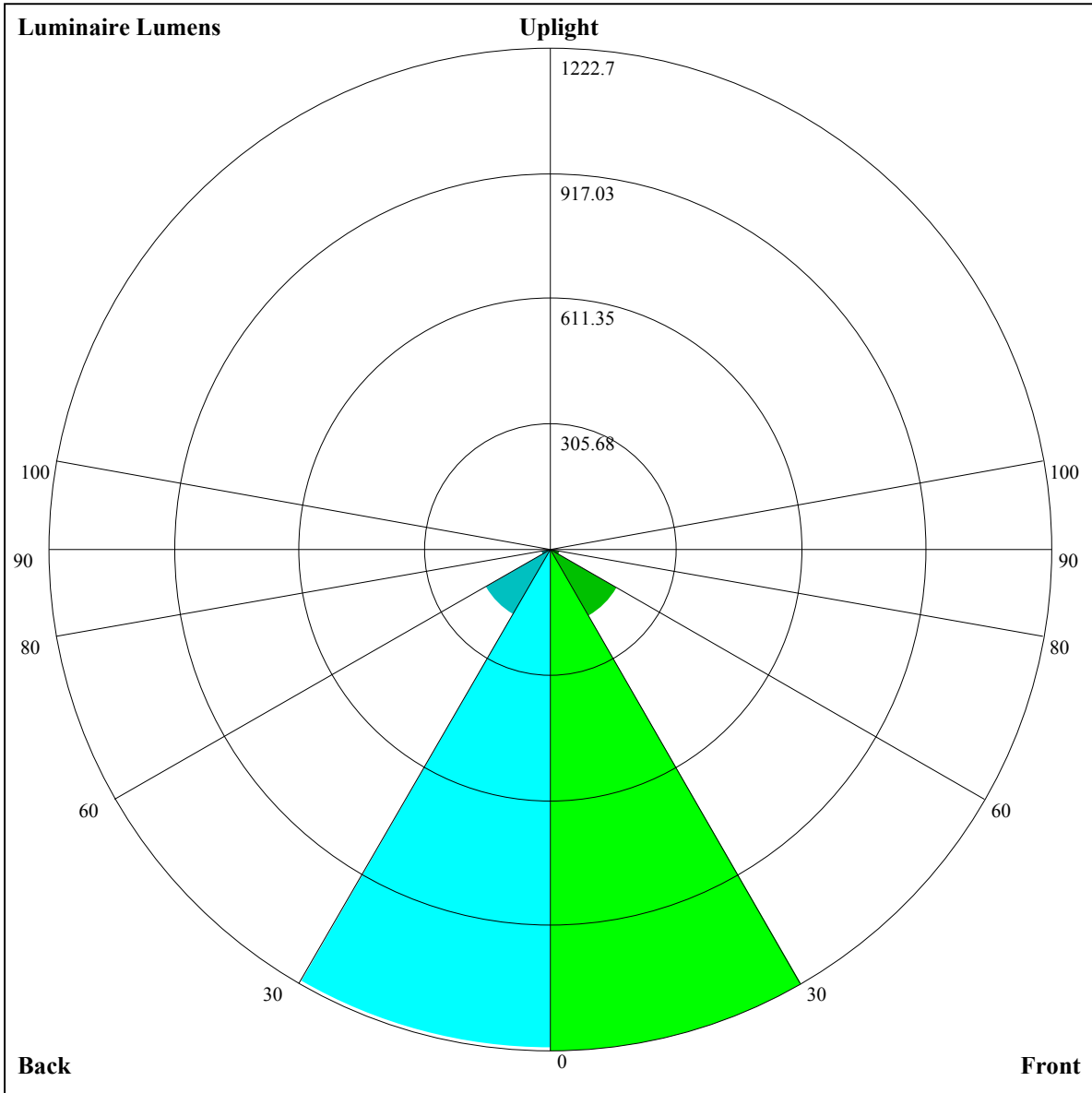
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOF=20 CU															
0	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.79	0.82	0.80	0.78	0.79	0.78	0.76	0.77	0.76	0.74	0.73
3	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.72	0.68	0.65	0.72	0.68	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
6	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.52	0.50	0.56	0.52	0.50	0.55	0.52	0.49	0.55	0.52	0.49	0.48







Luminaire Lumens:

FL=1222.7,FM=189.96,FH=24.79,FVH=7.87

BL=1214.52,BM=185.35,BH=24.03,BVH=7.76

UL=0,UH=0

BUG Rating:B3-U0-G0

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	5181.64	5178.13	5161.74	5130.73	5073.96	5013.68	4945.21	4869.13	4764.96
45.0	5171.11	5176.96	5178.71	5168.18	5143.60	5093.27	5038.85	4956.33	4882.01
90.0	5173.45	5170.52	5158.82	5133.65	5084.49	5030.65	4949.31	4870.30	4784.27
135.0	5165.25	5168.77	5161.16	5145.36	5111.41	5069.86	5014.85	4946.97	4852.74
180.0	5181.64	5177.54	5161.74	5138.33	5091.52	5044.70	4980.91	4886.69	4800.07
225.0	5171.11	5150.62	5122.53	5068.69	5015.44	4946.97	4847.48	4758.52	4657.86
270.0	5173.45	5168.18	5152.96	5128.39	5088.00	5023.63	4956.91	4880.84	4794.22
315.0	5165.25	5154.14	5124.29	5083.91	5028.90	4963.35	4866.79	4781.35	4681.86
360.0	5181.64	5178.13	5161.74	5130.73	5073.96	5013.68	4945.21	4869.13	4764.96
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4671.32	4565.98	4426.12	4306.73	4146.96	4007.68	3863.13	3711.56	3517.85
45.0	4798.90	4705.85	4581.20	4471.18	4350.62	4221.87	4053.91	3910.53	3759.54
90.0	4665.47	4557.79	4440.16	4319.02	4159.25	4021.14	3873.08	3721.50	3526.04
135.0	4765.55	4670.74	4564.81	4426.70	4303.80	4173.88	3997.73	3852.01	3699.85
180.0	4684.20	4577.10	4464.74	4343.01	4182.08	4044.55	3902.34	3751.94	3562.91
225.0	4552.52	4439.58	4290.93	4163.35	3990.71	3843.82	3697.51	3503.22	3342.28
270.0	4678.35	4574.18	4431.38	4311.41	4183.83	4015.29	3871.32	3722.09	3537.74
315.0	4581.79	4445.43	4324.87	4200.22	4069.13	3897.07	3753.11	3604.46	3408.99
360.0	4671.32	4565.98	4426.12	4306.73	4146.96	4007.68	3863.13	3711.56	3517.85
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3353.98	3184.85	2967.73	2790.41	2606.65	2425.82	2247.91	2031.37	1856.98
45.0	3567.59	3407.82	3238.69	3022.75	2847.76	2668.68	2437.52	2259.03	2081.70
90.0	3368.03	3197.73	3018.06	2799.19	2616.60	2387.78	2208.11	2033.72	1816.01
135.0	3505.56	3344.03	3126.92	2944.91	2762.32	2589.68	2364.37	2180.02	1996.85
180.0	3397.87	3222.31	2997.00	2817.33	2640.59	2419.38	2246.15	2070.58	1848.20
225.0	3169.64	2945.50	2762.91	2587.92	2412.36	2239.71	2010.89	1832.40	1655.66
270.0	3369.20	3194.22	3017.48	2843.08	2630.06	2450.40	2272.49	2058.29	1874.53
315.0	3239.86	3024.50	2848.35	2672.78	2489.02	2270.15	2095.16	1923.11	1743.44
360.0	3353.98	3184.85	2967.73	2790.41	2606.65	2425.82	2247.91	2031.37	1856.98
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1671.46	1145.58	1145.58	1065.75	916.11	776.48	617.53	503.88	404.51
45.0	1853.47	1669.12	1490.63	1313.89	1148.27	953.39	808.84	648.49	534.95
90.0	1640.44	1155.59	1155.59	1073.71	918.45	774.31	615.42	505.81	408.78
135.0	1813.67	1588.94	1415.13	1240.74	1074.53	880.24	739.78	585.28	479.94
180.0	1664.44	1492.97	1322.08	1103.21	933.49	787.19	647.90	503.94	410.30
225.0	1142.13	1142.13	1099.64	899.72	751.25	618.23	478.60	387.95	311.40
270.0	1704.82	1483.60	1308.04	1091.50	930.57	780.75	644.98	505.11	411.47
315.0	1526.91	1131.42	1131.42	1009.22	823.47	689.51	544.96	445.36	358.10
360.0	1671.46	1145.58	1145.58	1065.75	916.11	776.48	617.53	503.88	404.51
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	318.95	248.25	179.49	139.52	111.90	92.00	74.73	65.25	57.53
45.0	434.88	325.44	305.55	305.55	139.75	112.71	93.58	79.47	67.30
90.0	323.40	236.26	181.60	141.21	107.56	89.25	73.56	65.19	59.22
135.0	390.40	310.23	310.23	169.13	131.62	100.48	83.98	72.39	64.26
180.0	329.54	311.40	231.05	143.73	107.51	88.43	75.20	64.20	58.46
225.0	230.40	178.26	138.00	109.26	89.25	72.92	64.32	58.52	53.26
270.0	329.54	310.81	228.00	140.04	110.20	85.38	72.57	63.73	56.47
315.0	264.93	205.00	158.65	117.51	95.33	80.12	69.23	59.87	55.01
360.0	318.95	248.25	179.49	139.52	111.90	92.00	74.73	65.25	57.53

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	53.26	50.04	46.94	45.00	43.37	41.55	40.32	39.15	38.10
45.0	60.80	56.06	52.49	49.04	46.94	45.00	43.37	41.61	40.38
90.0	54.84	51.32	47.99	45.82	44.07	42.14	40.79	39.56	38.45
135.0	57.29	53.26	50.04	46.82	44.77	43.01	41.14	39.85	38.74
180.0	54.13	50.80	47.52	45.47	43.66	42.14	40.50	39.33	38.04
225.0	50.15	47.64	45.06	43.31	41.49	40.20	39.09	37.75	36.69
270.0	52.38	49.16	46.12	44.18	42.49	41.02	39.44	38.27	37.22
315.0	51.27	48.34	45.47	43.60	41.61	40.26	39.03	37.57	36.52
360.0	53.26	50.04	46.94	45.00	43.37	41.55	40.32	39.15	38.10
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.87	35.87	35.00	34.12	33.01	32.25	31.43	30.43	29.61
45.0	38.98	37.92	36.93	35.76	34.82	33.94	33.07	31.95	31.19
90.0	37.16	36.11	34.88	33.94	33.01	31.95	31.19	30.37	29.55
135.0	37.45	36.46	35.52	34.65	33.42	32.60	31.72	30.84	29.90
180.0	36.93	35.99	34.82	33.88	33.01	32.19	31.08	30.26	29.44
225.0	35.76	34.82	33.65	32.83	31.95	31.13	30.14	29.38	28.62
270.0	36.17	35.05	34.12	33.18	32.19	31.37	30.61	29.67	28.97
315.0	35.58	34.65	33.47	32.66	31.84	31.02	30.08	29.32	28.56
360.0	36.87	35.87	35.00	34.12	33.01	32.25	31.43	30.43	29.61
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	28.73	27.97	27.21	26.34	25.69	25.28	24.99	24.93	24.99
45.0	30.31	29.61	28.68	27.86	27.15	26.34	25.87	25.57	25.63
90.0	28.68	27.92	27.15	26.16	25.40	24.70	23.99	23.17	22.65
135.0	29.03	28.32	27.33	26.57	25.63	24.93	24.23	23.41	22.82
180.0	28.68	27.68	26.92	26.10	25.22	24.46	23.82	23.29	22.94
225.0	27.56	26.80	25.87	25.16	24.46	23.94	23.76	23.47	22.82
270.0	28.03	27.27	26.45	25.69	24.93	23.99	23.35	22.71	22.12
315.0	27.56	26.80	26.04	25.05	24.35	23.64	22.82	22.30	21.71
360.0	28.73	27.97	27.21	26.34	25.69	25.28	24.99	24.93	24.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	24.99	24.76	24.05	23.41	22.71	21.83	20.78	19.84	18.61
45.0	25.75	25.63	25.22	24.58	24.11	23.47	22.53	21.59	20.60
90.0	22.00	21.30	20.78	20.37	19.96	19.55	19.14	18.67	18.08
135.0	22.12	21.48	20.83	20.42	20.01	19.66	19.20	18.67	18.20
180.0	22.30	21.65	20.95	20.31	19.61	19.20	18.73	18.32	17.73
225.0	22.12	21.19	20.54	19.90	19.37	18.73	18.26	17.67	17.21
270.0	21.30	20.72	20.13	19.78	19.31	18.84	18.38	17.91	17.32
315.0	21.07	20.54	20.07	19.78	19.37	18.79	18.32	17.67	17.15
360.0	24.99	24.76	24.05	23.41	22.71	21.83	20.78	19.84	18.61
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	17.73	16.74	16.04	14.63	13.69	12.99	12.52	12.23	12.06
45.0	19.37	18.20	17.09	16.15	14.57	13.52	12.93	12.52	12.29
90.0	17.56	16.85	16.04	14.81	13.75	12.87	12.58	12.35	12.11
135.0	17.56	17.09	16.33	15.51	14.28	13.17	12.64	12.41	12.17
180.0	17.26	16.62	15.92	14.63	13.58	12.70	12.41	12.11	11.94
225.0	16.74	16.04	14.86	13.75	12.76	12.47	12.17	12.00	12.00
270.0	16.85	16.33	15.68	14.63	13.58	12.76	12.41	12.23	12.00
315.0	16.62	15.92	15.04	13.99	13.05	12.52	12.29	12.06	11.94
360.0	17.73	16.74	16.04	14.63	13.69	12.99	12.52	12.23	12.06

Intensity data(cd)

C/ $\gamma$ ( $^{\circ}$ )	90.0
0.0	12.00
45.0	12.06
90.0	12.00
135.0	12.00
180.0	11.94
225.0	12.00
270.0	12.00
315.0	11.94
360.0	12.00