



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: 2-2688-L

Luminaire: 92.70.412.00

Report No: 2024320-B011

Ballast type: AC

Test No: 2024320-C011

Voltage(V): 35.160

LampCAT: Fortimo\_SLM\_C\_1205

Current(A): 0.451

Lamp flux(lm): 2717.0

Power (W): 15.857

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2224.92, Efficiency(%): 81.89% , Luminous Efficacy(lm/W): 140.31

Central intensity(cd): 5380.252, Maximum intensity(cd): 5397.150

Angle of maximum intensity: C=0.0  $\gamma$ =2.0

Beam Angle(50%Imax): [C0/180]Total=35.2

[C90/270]Total=35.2

Field angle(10%Imax): [C0/180]Total=61.2

[C90/270]Total=61.2

Maximum s/h(1/2): C0\_180=0.58 C90\_270=0.58

Maximum s/h(1/4): C0\_180=0.58 C90\_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 81.89%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.827%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/3/20  
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	5380.251	0.000	0	0.00%	0.00%
1.0	5388.518	5.153	5.153	0.19%	0.23%
2.0	5397.150	15.481	20.633	0.57%	0.93%
3.0	5378.788	25.773	46.406	0.95%	2.09%
4.0	5346.528	35.901	82.307	1.32%	3.70%
5.0	5288.078	45.750	128.056	1.68%	5.76%
6.0	5197.515	55.105	183.161	2.03%	8.23%
7.0	5057.646	63.654	246.815	2.34%	11.09%
8.0	4888.516	71.183	317.997	2.62%	14.29%
9.0	4689.320	77.623	395.62	2.86%	17.78%
10.0	4485.881	83.032	478.653	3.06%	21.51%
11.0	4282.296	87.612	566.265	3.22%	25.45%
12.0	4051.205	91.097	657.362	3.35%	29.55%
13.0	3822.309	93.439	750.801	3.44%	33.75%
14.0	3571.028	94.634	845.435	3.48%	38.00%
15.0	3319.089	94.591	940.025	3.48%	42.25%
16.0	3085.584	93.846	1033.872	3.45%	46.47%
17.0	2838.473	92.253	1126.125	3.40%	50.61%
18.0	2611.625	89.860	1215.986	3.31%	54.65%
19.0	2384.704	86.926	1302.911	3.20%	58.56%
20.0	2165.830	83.287	1386.199	3.07%	62.30%
21.0	1966.049	79.340	1465.539	2.92%	65.87%
22.0	1770.730	75.092	1540.631	2.76%	69.24%
23.0	1564.145	69.975	1610.606	2.58%	72.39%
24.0	1328.636	63.247	1673.853	2.33%	75.23%
25.0	1251.460	58.666	1732.519	2.16%	77.87%
26.0	1106.587	55.662	1788.18	2.05%	80.37%
27.0	965.387	50.691	1838.872	1.87%	82.65%
28.0	832.907	45.529	1884.401	1.68%	84.70%
29.0	708.298	40.322	1924.723	1.48%	86.51%
30.0	602.270	35.385	1960.108	1.30%	88.10%
31.0	498.912	30.644	1990.752	1.13%	89.48%
32.0	416.541	26.227	2016.979	0.97%	90.65%
33.0	339.306	22.268	2039.247	0.82%	91.65%
34.0	274.207	18.567	2057.813	0.68%	92.49%
35.0	244.288	16.103	2073.916	0.59%	93.21%
36.0	196.058	14.021	2087.937	0.52%	93.84%
37.0	136.335	10.841	2098.777	0.40%	94.33%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	108.164	8.161	2106.938	0.30%	94.70%
39.0	86.921	6.659	2113.597	0.25%	95.00%
40.0	71.193	5.514	2119.112	0.20%	95.24%
41.0	60.849	4.702	2123.814	0.17%	95.46%
42.0	53.453	4.153	2127.966	0.15%	95.64%
43.0	48.003	3.758	2131.725	0.14%	95.81%
44.0	44.060	3.475	2135.199	0.13%	95.97%
45.0	40.988	3.268	2138.468	0.12%	96.11%
46.0	38.603	3.113	2141.58	0.11%	96.25%
47.0	36.650	2.993	2144.573	0.11%	96.39%
48.0	34.762	2.887	2147.46	0.11%	96.52%
49.0	33.299	2.795	2150.255	0.10%	96.64%
50.0	31.866	2.717	2152.972	0.10%	96.77%
51.0	30.629	2.644	2155.616	0.10%	96.89%
52.0	29.473	2.579	2158.195	0.09%	97.00%
53.0	28.296	2.513	2160.708	0.09%	97.11%
54.0	27.308	2.451	2163.159	0.09%	97.22%
55.0	26.269	2.392	2165.551	0.09%	97.33%
56.0	25.326	2.331	2167.882	0.09%	97.44%
57.0	24.265	2.267	2170.149	0.08%	97.54%
58.0	23.358	2.202	2172.352	0.08%	97.64%
59.0	22.399	2.139	2174.491	0.08%	97.73%
60.0	21.595	2.078	2176.569	0.08%	97.83%
61.0	20.754	2.021	2178.59	0.07%	97.92%
62.0	19.949	1.961	2180.551	0.07%	98.01%
63.0	19.342	1.911	2182.462	0.07%	98.09%
64.0	18.661	1.865	2184.327	0.07%	98.18%
65.0	18.113	1.820	2186.147	0.07%	98.26%
66.0	17.630	1.783	2187.93	0.07%	98.34%
67.0	17.374	1.760	2189.691	0.06%	98.42%
68.0	17.242	1.754	2191.444	0.06%	98.50%
69.0	17.425	1.769	2193.213	0.07%	98.57%
70.0	17.769	1.807	2195.02	0.07%	98.66%
71.0	18.179	1.858	2196.878	0.07%	98.74%
72.0	18.391	1.901	2198.78	0.07%	98.83%
73.0	18.435	1.926	2200.705	0.07%	98.91%
74.0	18.332	1.933	2202.638	0.07%	99.00%
75.0	18.120	1.926	2204.564	0.07%	99.09%

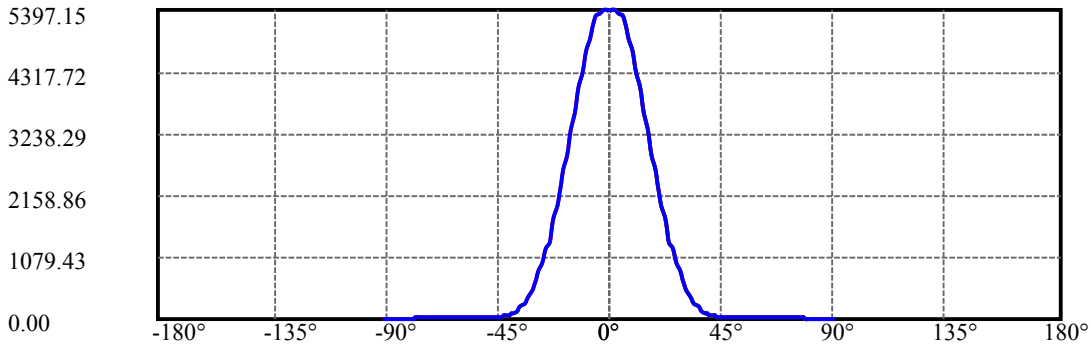
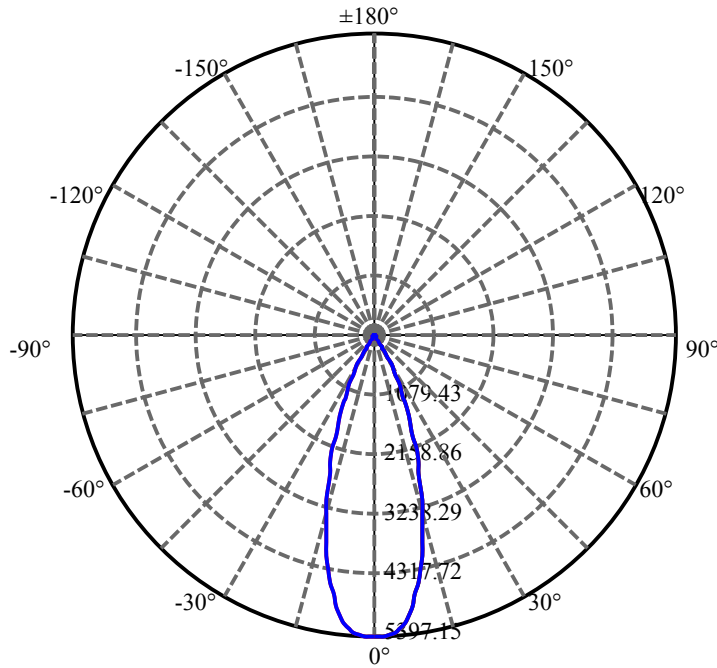
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.725	1.903	2206.467	0.07%	99.17%
77.0	17.001	1.851	2208.318	0.07%	99.25%
78.0	16.152	1.775	2210.093	0.07%	99.33%
79.0	15.172	1.683	2211.776	0.06%	99.41%
80.0	13.767	1.560	2213.336	0.06%	99.48%
81.0	12.282	1.409	2214.745	0.05%	99.54%
82.0	11.390	1.284	2216.029	0.05%	99.60%
83.0	10.980	1.216	2217.245	0.04%	99.66%
84.0	10.710	1.182	2218.426	0.04%	99.71%
85.0	10.476	1.156	2219.583	0.04%	99.76%
86.0	10.022	1.120	2220.703	0.04%	99.81%
87.0	9.707	1.080	2221.783	0.04%	99.86%
88.0	9.576	1.056	2222.839	0.04%	99.91%
89.0	9.473	1.044	2223.883	0.04%	99.95%
90.0	9.393	1.034	2224.918	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1960.11	72.14%	88.10%
0-40	2119.11	77.99%	95.24%
0-60	2176.57	80.11%	97.83%
0-90	2223.88	81.85%	99.95%
0-120	2223.88	81.85%	99.95%
0-180	2224.92	81.89%	100.00%
60-90	47.31	1.74%	2.13%
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%
0-25.85	1779.93	65.51%	80.00%

ZONAL LUMEN SUMMARY

0-10	478.65
10-20	907.55
20-30	573.91
30-40	159.00
40-50	33.86
50-60	23.60
60-70	18.45
70-80	18.32
80-90	10.55
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: —————

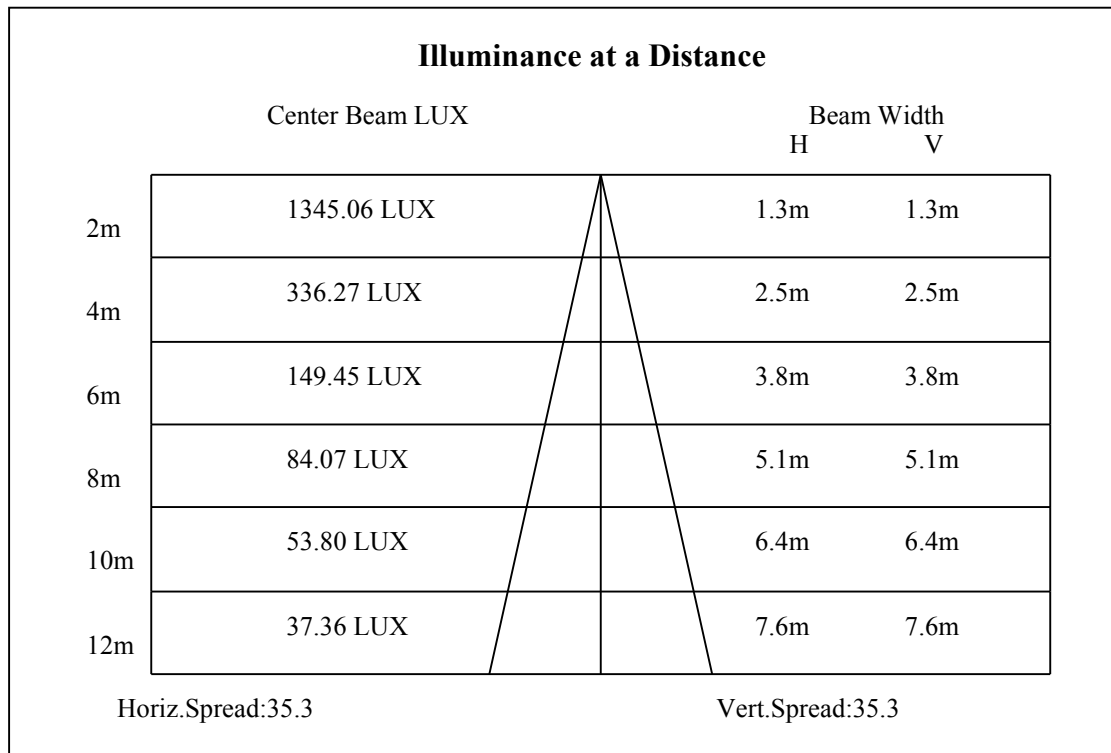
C90/C270: —————

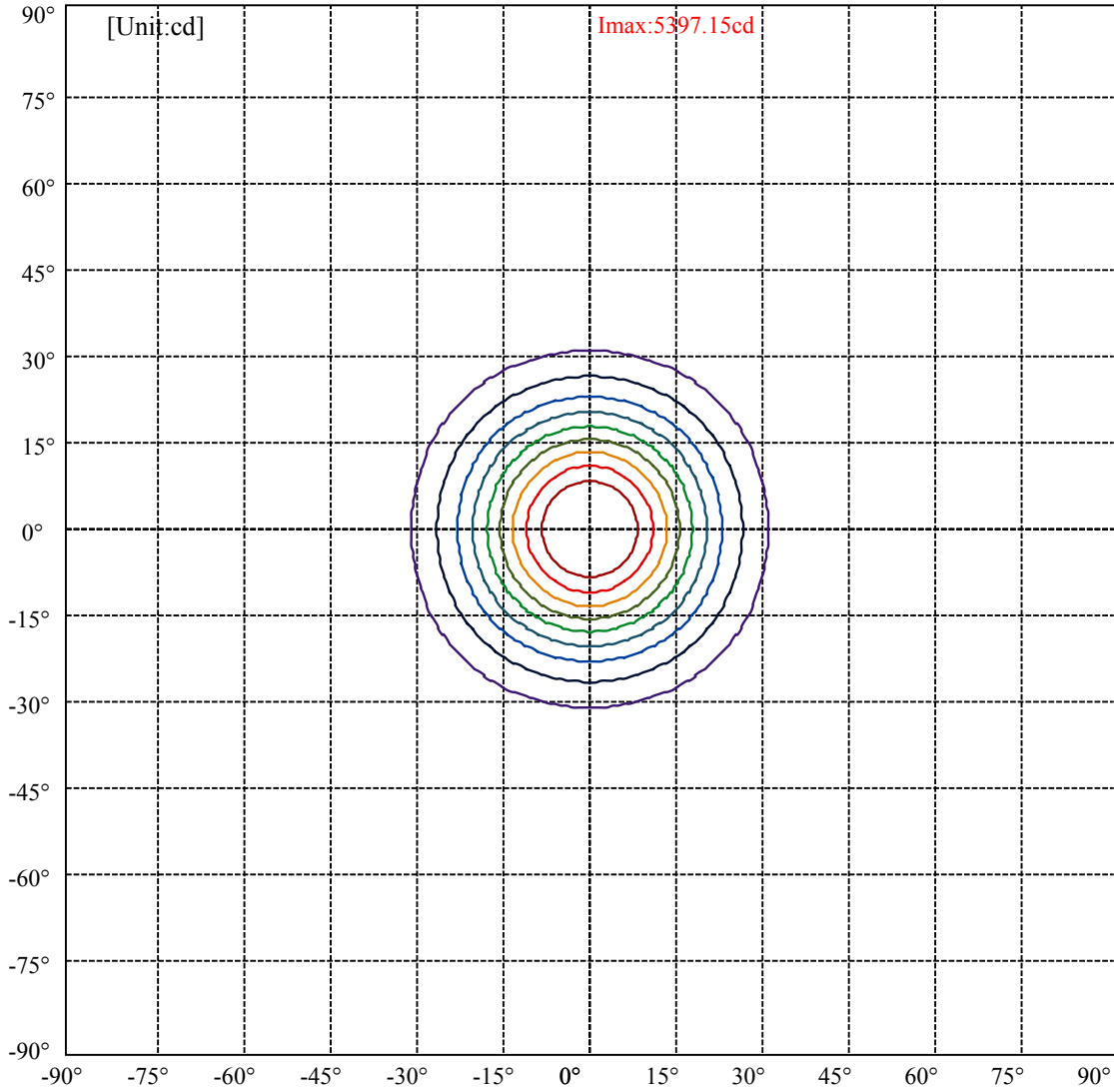
Field angle(10%Imax):C0/180Left:32.6 Right:28.6

:C90/270Left:32.6 Right:28.6

Beam Angle(50%Imax):C0/180Left:19.6 Right:15.6

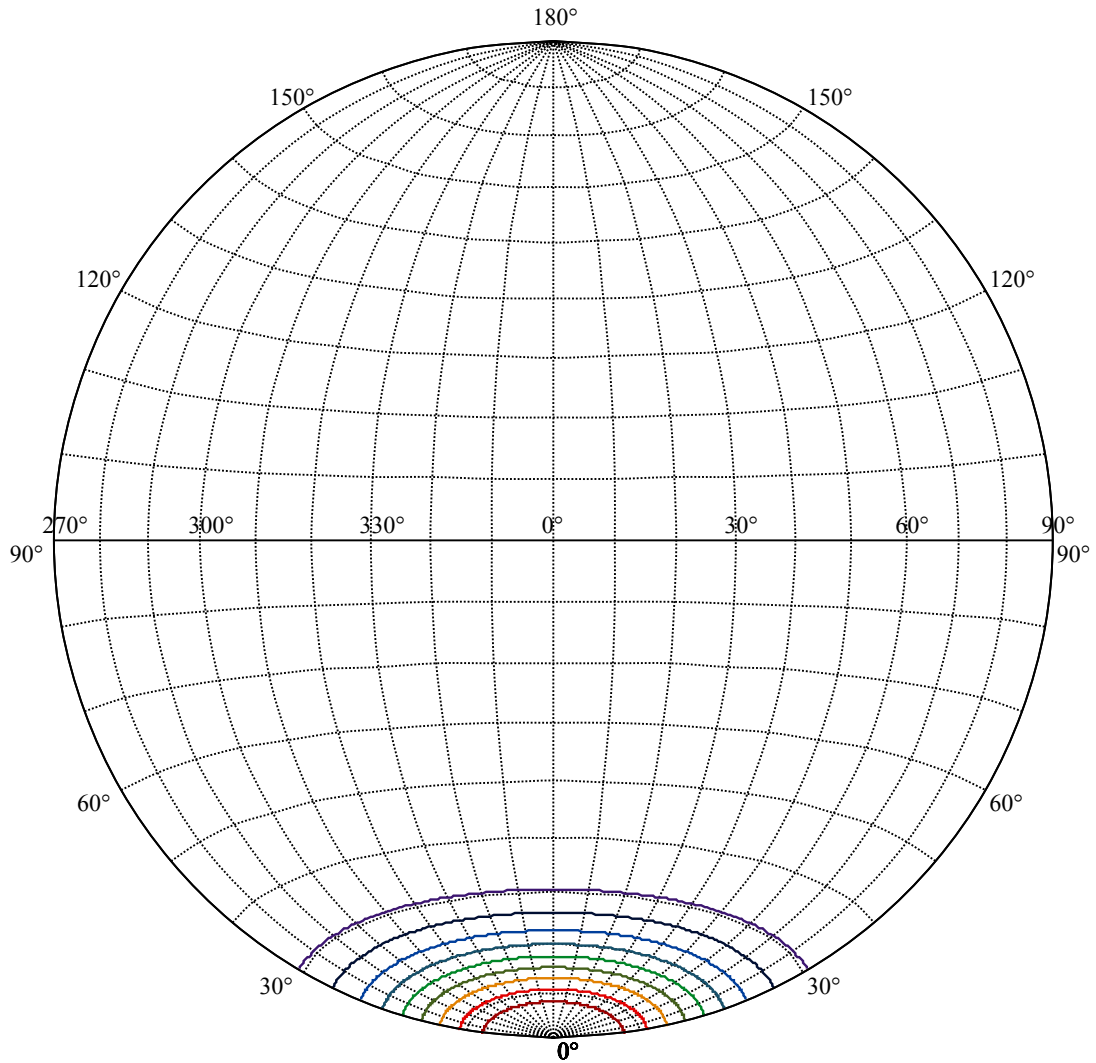
:C90/270Left:19.6 Right:15.6





(10%Imax) 539.715	—
(20%Imax) 1079.43	—
(30%Imax) 1619.15	—
(40%Imax) 2158.86	—
(50%Imax) 2698.58	—
(60%Imax) 3238.29	—
(70%Imax) 3778.01	—
(80%Imax) 4317.72	—
(90%Imax) 4857.44	—





House

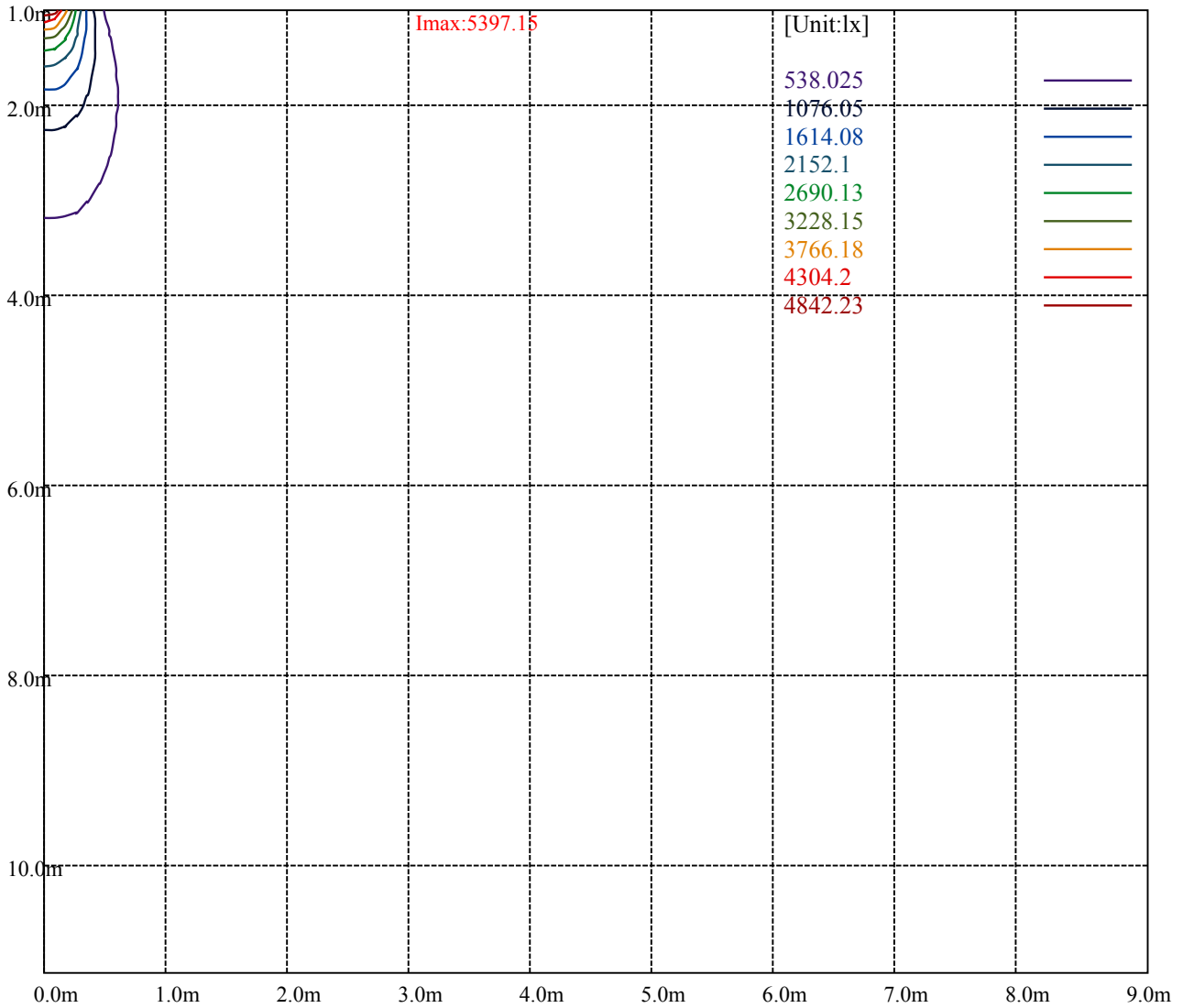
[Unit:cd]

Road

**Imax:5397.15**

(10%Imax) 539.715	—
(20%Imax) 1079.43	—
(30%Imax) 1619.15	—
(40%Imax) 2158.86	—
(50%Imax) 2698.58	—
(60%Imax) 3238.29	—
(70%Imax) 3778.01	—
(80%Imax) 4317.72	—
(90%Imax) 4857.44	—





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

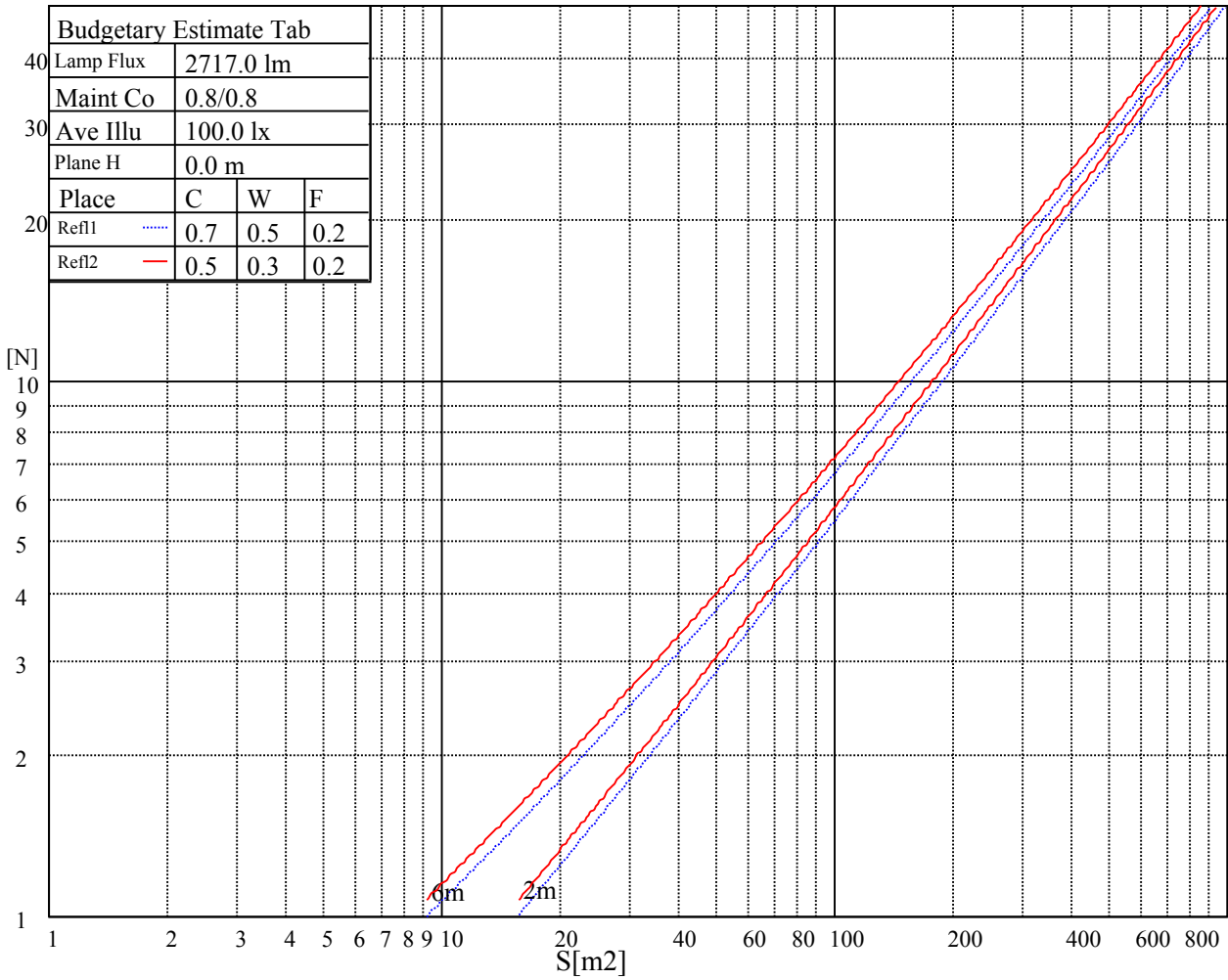
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

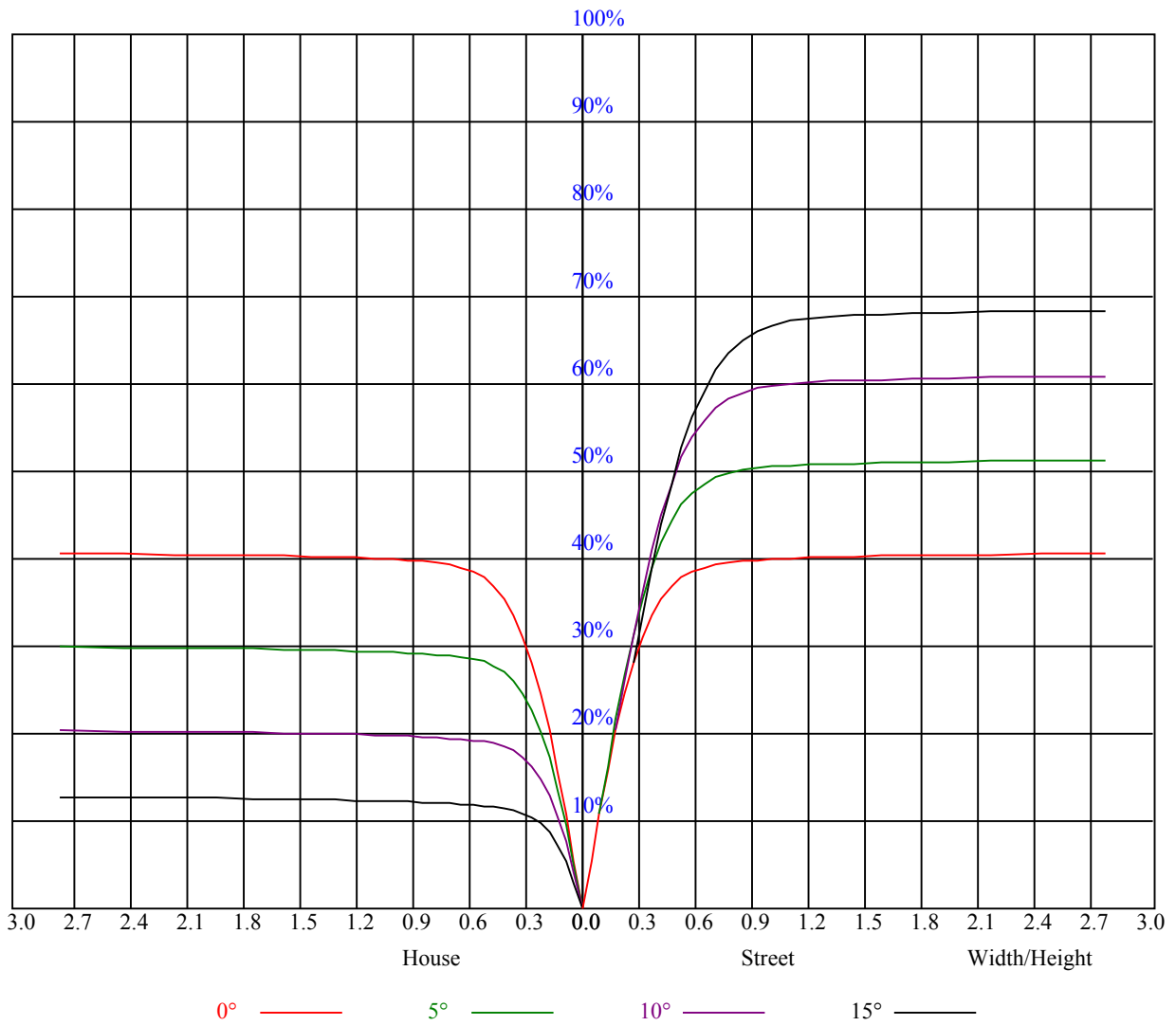


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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
	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
8H	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
12H	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				

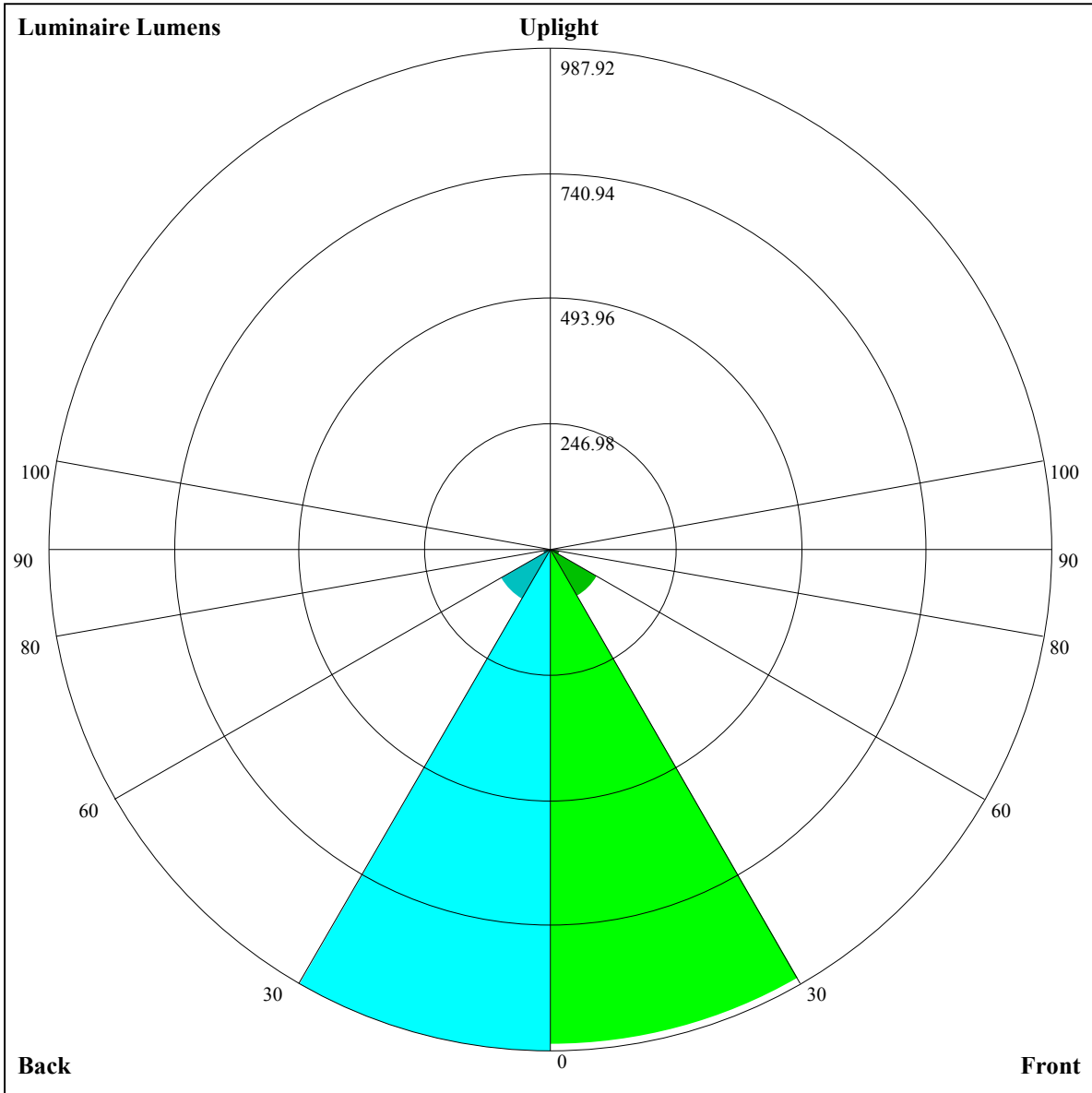
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOFC=20 CU															
0	0.97	0.97	0.97	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.84	0.84	0.84	0.82
1	0.91	0.89	0.88	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.79	0.77
2	0.86	0.83	0.80	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.75	0.73
3	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.73	0.71	0.70
4	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.70	0.68	0.72	0.69	0.68	0.66
5	0.74	0.69	0.66	0.73	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.65	0.63
6	0.70	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.66	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56
9	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54
10	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.57	0.55	0.52	0.52







Luminaire Lumens:

FL=973.97,FM=107.93,FH=18.55,FVH=5.92

BL=987.92,BM=112.23,BH=17.17,BVH=5.71

UL=0,UH=0

BUG Rating:B2-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	5382.96	5406.37	5411.05	5385.88	5339.65	5257.72	5143.60	4994.95	4818.80
45.0	5374.18	5386.47	5413.39	5417.49	5384.71	5347.26	5289.91	5156.48	5007.24
90.0	5401.69	5431.53	5444.41	5408.71	5370.67	5287.57	5173.45	5027.73	4822.90
135.0	5363.06	5386.47	5418.66	5414.56	5385.30	5347.26	5269.42	5165.25	5018.36
180.0	5382.96	5382.37	5387.64	5389.40	5366.57	5330.87	5247.77	5137.16	4981.49
225.0	5372.42	5378.86	5380.03	5336.73	5302.20	5228.46	5126.04	4930.58	4745.06
270.0	5401.69	5373.59	5363.06	5354.28	5341.99	5308.05	5246.02	5121.95	4974.47
315.0	5363.06	5362.48	5358.96	5323.27	5281.13	5197.44	5083.91	4927.07	4739.80
360.0	5382.96	5406.37	5411.05	5385.88	5339.65	5257.72	5143.60	4994.95	4818.80
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4592.32	4410.90	4211.34	3932.19	3703.36	3413.09	3183.68	2958.37	2697.95
45.0	4832.26	4661.96	4441.33	4250.55	4041.62	3813.97	3523.70	3289.02	3001.68
90.0	4651.43	4426.12	4222.46	4006.51	3777.10	3488.00	3253.91	3026.26	2809.14
135.0	4847.48	4626.85	4449.52	4210.75	4003.58	3780.03	3492.10	3256.84	3032.69
180.0	4759.11	4568.91	4379.88	4179.74	3902.92	3675.86	3444.69	3216.46	2939.06
225.0	4547.26	4350.62	4100.73	3887.71	3658.30	3363.93	3136.86	2917.99	2648.79
270.0	4795.98	4542.57	4352.38	4103.07	3880.69	3654.20	3418.94	3134.52	2905.70
315.0	4488.73	4299.12	4100.73	3839.13	3610.90	3379.15	3098.82	2885.22	2672.78
360.0	4592.32	4410.90	4211.34	3932.19	3703.36	3413.09	3183.68	2958.37	2697.95
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2489.02	2282.44	2085.80	1853.47	1679.65	1516.38	1142.89	1142.89	1041.99
45.0	2789.83	2586.17	2323.99	2120.91	1927.20	1748.13	1543.30	1385.87	1236.64
90.0	2549.30	2342.71	2138.47	1945.35	1720.03	1552.08	1140.60	1140.60	1073.89
135.0	2819.67	2562.17	2353.25	2148.42	1953.54	1729.98	1563.19	1405.77	1217.91
180.0	2722.53	2453.32	2235.03	2041.91	1816.60	1643.37	1477.75	1332.62	1150.03
225.0	2434.59	2173.58	1973.44	1790.85	1621.72	1317.40	1138.20	1138.20	1002.37
270.0	2682.73	2478.49	2215.14	2014.99	1843.52	1667.36	1463.12	1305.70	1138.32
315.0	2405.33	2198.75	2001.53	1812.50	1603.58	1338.47	1160.03	1160.03	991.55
360.0	2489.02	2282.44	2085.80	1853.47	1679.65	1516.38	1142.89	1142.89	1041.99
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	910.55	761.20	652.64	556.43	450.92	374.60	307.01	235.49	189.09
45.0	1096.18	927.64	805.91	694.72	572.99	487.55	409.13	320.76	304.96
90.0	911.20	789.47	676.75	578.38	468.94	389.99	319.94	246.38	198.10
135.0	1076.87	941.69	790.70	680.68	559.53	477.02	401.52	331.30	300.28
180.0	1019.52	889.60	775.48	633.86	541.98	458.29	365.24	300.86	300.86
225.0	846.94	731.77	626.78	533.67	432.77	359.85	282.08	230.46	186.34
270.0	996.70	874.38	723.98	618.64	525.59	438.98	346.51	298.52	298.52
315.0	865.14	747.51	614.14	521.79	438.57	346.04	283.01	229.88	176.15
360.0	910.55	761.20	652.64	556.43	450.92	374.60	307.01	235.49	189.09
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	151.63	121.96	93.99	77.60	65.95	57.82	50.74	46.58	43.48
45.0	304.96	157.43	126.53	101.95	80.00	67.83	59.05	52.90	47.40
90.0	159.18	128.52	99.08	81.52	68.53	57.29	50.97	46.41	42.14
135.0	300.28	164.86	132.26	100.66	82.17	69.00	59.40	51.44	46.94
180.0	185.81	149.88	120.79	93.75	77.60	65.66	57.41	50.21	46.12
225.0	142.27	115.00	93.05	76.31	61.98	54.37	48.98	45.06	41.38
270.0	183.00	139.63	112.42	91.53	72.10	60.98	53.49	47.29	43.72
315.0	141.33	113.42	87.20	72.04	61.21	53.84	47.58	44.13	41.32
360.0	151.63	121.96	93.99	77.60	65.95	57.82	50.74	46.58	43.48

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	40.38	38.33	36.58	34.76	33.42	32.19	30.84	29.79	28.79
45.0	44.13	41.61	39.39	36.99	35.41	33.59	32.25	31.02	29.67
90.0	39.56	37.34	35.52	33.59	32.25	30.96	29.85	28.68	27.62
135.0	42.66	40.20	38.04	35.70	34.24	32.77	31.49	30.02	28.97
180.0	42.90	39.85	37.75	35.99	34.47	32.77	31.54	30.43	29.03
225.0	39.03	36.99	34.94	33.47	32.13	30.61	29.55	28.38	27.10
270.0	40.26	37.98	36.05	34.41	32.60	31.31	30.14	29.09	27.80
315.0	38.98	36.52	34.94	33.18	31.89	30.72	29.38	28.38	27.39
360.0	40.38	38.33	36.58	34.76	33.42	32.19	30.84	29.79	28.79
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.86	26.74	25.81	24.81	23.94	22.94	22.18	21.19	20.54
45.0	28.62	27.62	26.63	25.52	24.52	23.58	22.71	21.71	20.83
90.0	26.69	25.63	24.70	23.47	22.59	21.77	20.83	20.07	19.37
135.0	27.97	26.92	25.81	24.87	23.88	22.71	21.89	21.13	20.07
180.0	27.92	26.69	25.81	24.81	23.88	22.77	22.00	21.19	20.42
225.0	26.10	25.22	24.23	23.06	22.24	21.48	20.72	19.78	19.14
270.0	26.80	25.87	25.05	23.94	23.00	22.00	21.24	20.48	19.55
315.0	26.51	25.46	24.58	23.64	22.82	21.95	21.19	20.48	19.66
360.0	27.86	26.74	25.81	24.81	23.94	22.94	22.18	21.19	20.54
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.01	19.37	18.96	18.67	18.67	18.73	18.96	19.43	20.37
45.0	20.19	19.43	19.02	18.73	18.84	19.20	20.07	21.54	22.65
90.0	18.79	18.02	17.50	16.97	16.50	15.98	15.51	15.04	14.57
135.0	19.43	18.84	18.08	17.56	17.09	16.85	16.91	17.38	18.14
180.0	19.72	18.96	18.38	17.67	17.21	16.85	16.56	16.68	17.03
225.0	18.49	17.85	17.26	16.80	16.80	17.09	17.85	18.26	18.20
270.0	18.96	18.38	17.79	17.09	16.68	16.21	15.80	15.22	14.86
315.0	19.14	18.43	17.91	17.56	17.21	17.03	17.73	18.61	19.61
360.0	20.01	19.37	18.96	18.67	18.67	18.73	18.96	19.43	20.37
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	21.07	21.65	21.83	21.71	21.65	21.01	19.90	18.26	15.68
45.0	23.00	22.77	22.82	22.94	22.06	21.30	20.78	19.49	18.61
90.0	14.28	13.87	13.46	13.17	12.87	12.52	12.17	11.88	11.65
135.0	18.61	18.90	18.73	18.61	18.26	16.97	15.57	14.86	13.75
180.0	17.79	18.14	17.91	17.67	17.38	16.80	15.98	15.10	13.28
225.0	17.85	17.73	17.67	16.97	16.50	15.92	15.27	14.40	11.94
270.0	14.51	14.10	13.75	13.40	13.05	12.76	12.52	12.17	11.88
315.0	20.01	20.31	20.48	20.48	20.01	18.73	17.03	15.22	13.34
360.0	21.07	21.65	21.83	21.71	21.65	21.01	19.90	18.26	15.68
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.05	11.70	11.12	10.89	10.71	10.36	9.77	9.60	9.48
45.0	15.80	12.52	11.29	10.83	10.59	10.48	10.01	9.66	9.60
90.0	11.35	11.06	10.83	10.59	10.30	9.83	9.66	9.48	9.31
135.0	11.82	11.24	10.94	10.59	10.48	10.07	9.77	9.54	9.48
180.0	12.00	11.35	10.94	10.71	10.24	9.89	9.71	9.95	9.95
225.0	11.06	10.71	10.53	10.30	9.95	9.71	9.54	9.54	9.36
270.0	11.65	11.35	11.12	10.94	10.83	9.95	9.66	9.48	9.31
315.0	11.53	11.18	11.06	10.83	10.71	9.89	9.54	9.36	9.31
360.0	13.05	11.70	11.12	10.89	10.71	10.36	9.77	9.60	9.48

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.36
90.0	9.31
135.0	9.31
180.0	9.36
225.0	9.36
270.0	9.31
315.0	9.31
360.0	9.83