



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: 2-2684-L

Luminaire: 92.70.411.00

Report No: 2024408-B002

Ballast type: AC

Test No: 2024408-C002

Voltage(V): 34.830

LampCAT: Fortimo\_SLM\_C\_1205

Current(A): 0.401

Lamp flux(lm): 2378.0

Power (W): 13.966

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2030.93, Efficiency(%): 85.41% , Luminous Efficacy(lm/W): 145.42

Central intensity(cd): 4989.833, Maximum intensity(cd): 4989.833

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

Beam Angle(50%Imax): [C0/180]Total=33.4

[C90/270]Total=33.4

Field angle(10%Imax): [C0/180]Total=65.2

[C90/270]Total=65.2

Maximum s/h(1/2): C0\_180=0.55 C90\_270=0.55

Maximum s/h(1/4): C0\_180=0.56 C90\_270=0.56

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.41%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.076%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/08  
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	4989.833	0.000	0	0.00%	0.00%
1.0	4974.252	4.768	4.768	0.20%	0.23%
2.0	4936.358	14.225	18.992	0.60%	0.94%
3.0	4877.616	23.472	42.464	0.99%	2.09%
4.0	4799.489	32.392	74.856	1.36%	3.69%
5.0	4699.415	40.864	115.72	1.72%	5.70%
6.0	4586.247	48.799	164.519	2.05%	8.10%
7.0	4446.744	56.068	220.586	2.36%	10.86%
8.0	4290.782	62.533	283.119	2.63%	13.94%
9.0	4117.116	68.141	351.261	2.87%	17.30%
10.0	3912.653	72.666	423.927	3.06%	20.87%
11.0	3706.508	76.131	500.058	3.20%	24.62%
12.0	3499.046	78.767	578.825	3.31%	28.50%
13.0	3274.392	80.384	659.209	3.38%	32.46%
14.0	3050.983	80.964	740.173	3.40%	36.44%
15.0	2845.349	80.947	821.121	3.40%	40.43%
16.0	2628.523	80.208	901.328	3.37%	44.38%
17.0	2426.255	78.716	980.045	3.31%	48.26%
18.0	2224.060	76.674	1056.718	3.22%	52.03%
19.0	2030.936	74.028	1130.747	3.11%	55.68%
20.0	1840.079	70.850	1201.597	2.98%	59.16%
21.0	1664.804	67.301	1268.898	2.83%	62.48%
22.0	1453.494	62.664	1331.561	2.64%	65.56%
23.0	1314.554	58.081	1389.642	2.44%	68.42%
24.0	1212.564	55.252	1444.894	2.32%	71.14%
25.0	1129.455	53.252	1498.147	2.24%	73.77%
26.0	1040.435	51.220	1549.367	2.15%	76.29%
27.0	962.483	49.002	1598.369	2.06%	78.70%
28.0	891.071	46.928	1645.297	1.97%	81.01%
29.0	817.632	44.705	1690.002	1.88%	83.21%
30.0	732.833	41.862	1731.864	1.76%	85.27%
31.0	644.933	38.341	1770.205	1.61%	87.16%
32.0	553.155	34.324	1804.529	1.44%	88.85%
33.0	459.233	29.825	1834.354	1.25%	90.32%
34.0	370.243	25.102	1859.457	1.06%	91.56%
35.0	298.311	20.763	1880.219	0.87%	92.58%
36.0	242.729	17.227	1897.446	0.72%	93.43%
37.0	179.649	13.776	1911.222	0.58%	94.11%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	116.313	9.879	1921.101	0.42%	94.59%
39.0	78.910	6.664	1927.764	0.28%	94.92%
40.0	64.294	4.994	1932.759	0.21%	95.17%
41.0	58.259	4.364	1937.123	0.18%	95.38%
42.0	54.185	4.085	1941.208	0.17%	95.58%
43.0	50.629	3.883	1945.091	0.16%	95.77%
44.0	47.469	3.703	1948.793	0.16%	95.96%
45.0	44.594	3.538	1952.331	0.15%	96.13%
46.0	42.187	3.394	1955.725	0.14%	96.30%
47.0	39.832	3.262	1958.987	0.14%	96.46%
48.0	37.806	3.139	1962.126	0.13%	96.61%
49.0	35.896	3.027	1965.152	0.13%	96.76%
50.0	34.016	2.915	1968.067	0.12%	96.90%
51.0	32.290	2.805	1970.873	0.12%	97.04%
52.0	30.717	2.704	1973.576	0.11%	97.18%
53.0	29.144	2.604	1976.18	0.11%	97.30%
54.0	27.718	2.506	1978.686	0.11%	97.43%
55.0	26.357	2.414	1981.1	0.10%	97.55%
56.0	25.070	2.324	1983.424	0.10%	97.66%
57.0	23.753	2.232	1985.656	0.09%	97.77%
58.0	22.604	2.144	1987.8	0.09%	97.88%
59.0	21.536	2.064	1989.864	0.09%	97.98%
60.0	20.490	1.985	1991.849	0.08%	98.08%
61.0	19.561	1.911	1993.76	0.08%	98.17%
62.0	18.683	1.843	1995.603	0.08%	98.26%
63.0	17.849	1.777	1997.38	0.07%	98.35%
64.0	17.074	1.714	1999.094	0.07%	98.43%
65.0	16.416	1.657	2000.751	0.07%	98.51%
66.0	15.779	1.606	2002.357	0.07%	98.59%
67.0	15.091	1.552	2003.91	0.07%	98.67%
68.0	14.565	1.502	2005.412	0.06%	98.74%
69.0	14.089	1.462	2006.874	0.06%	98.82%
70.0	13.614	1.423	2008.297	0.06%	98.89%
71.0	13.138	1.383	2009.679	0.06%	98.95%
72.0	12.758	1.347	2011.026	0.06%	99.02%
73.0	12.392	1.315	2012.341	0.06%	99.08%
74.0	12.019	1.283	2013.624	0.05%	99.15%
75.0	11.690	1.253	2014.877	0.05%	99.21%

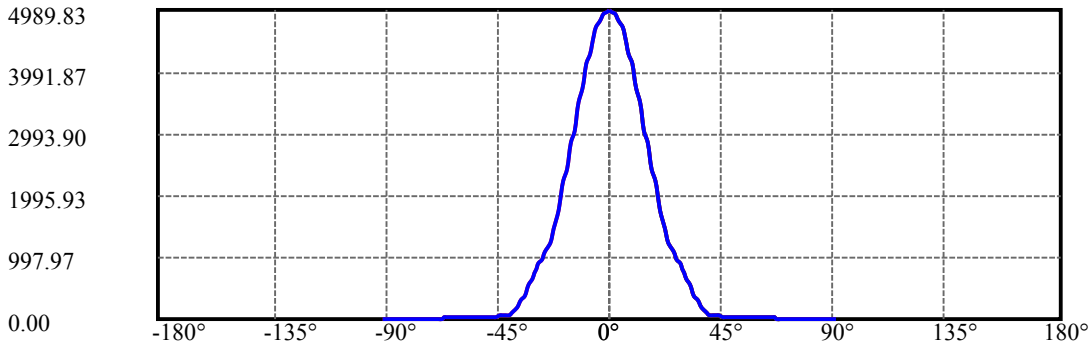
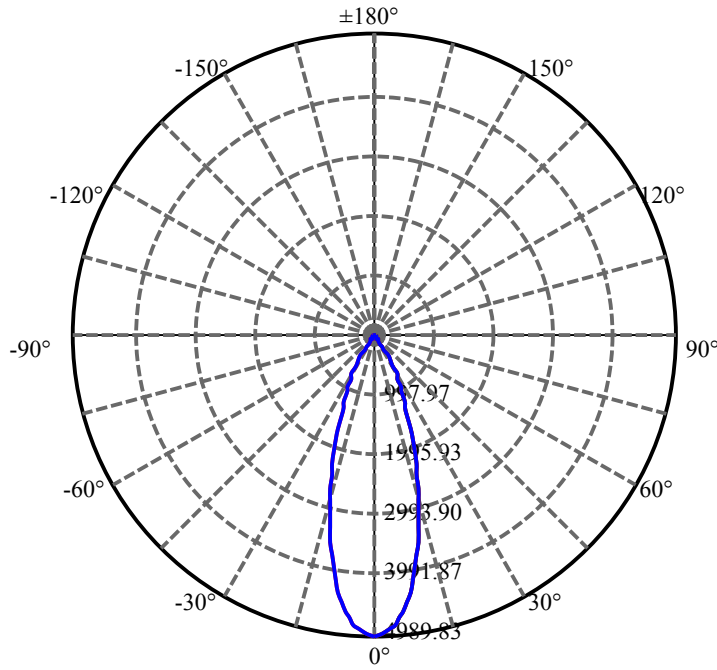
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.405	1.226	2016.103	0.05%	99.27%
77.0	11.141	1.202	2017.305	0.05%	99.33%
78.0	10.878	1.179	2018.484	0.05%	99.39%
79.0	10.651	1.157	2019.64	0.05%	99.44%
80.0	10.388	1.134	2020.775	0.05%	99.50%
81.0	10.146	1.110	2021.885	0.05%	99.55%
82.0	9.949	1.090	2022.975	0.05%	99.61%
83.0	9.700	1.068	2024.043	0.04%	99.66%
84.0	9.415	1.041	2025.084	0.04%	99.71%
85.0	9.173	1.015	2026.099	0.04%	99.76%
86.0	9.005	0.994	2027.092	0.04%	99.81%
87.0	8.844	0.977	2028.069	0.04%	99.86%
88.0	8.749	0.964	2029.033	0.04%	99.91%
89.0	8.647	0.953	2029.987	0.04%	99.95%
90.0	8.617	0.947	2030.933	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1731.86	72.83%	85.27%
0-40	1932.76	81.28%	95.17%
0-60	1991.85	83.76%	98.08%
0-90	2029.99	85.37%	99.95%
0-120	2029.99	85.37%	99.95%
0-180	2030.93	85.41%	100.00%
60-90	38.14	1.60%	1.88%
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%
0-27.56	1624.75	68.32%	80.00%

ZONAL LUMEN SUMMARY

0-10	423.93
10-20	777.67
20-30	530.27
30-40	200.89
40-50	35.31
50-60	23.78
60-70	16.45
70-80	12.48
80-90	9.21
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



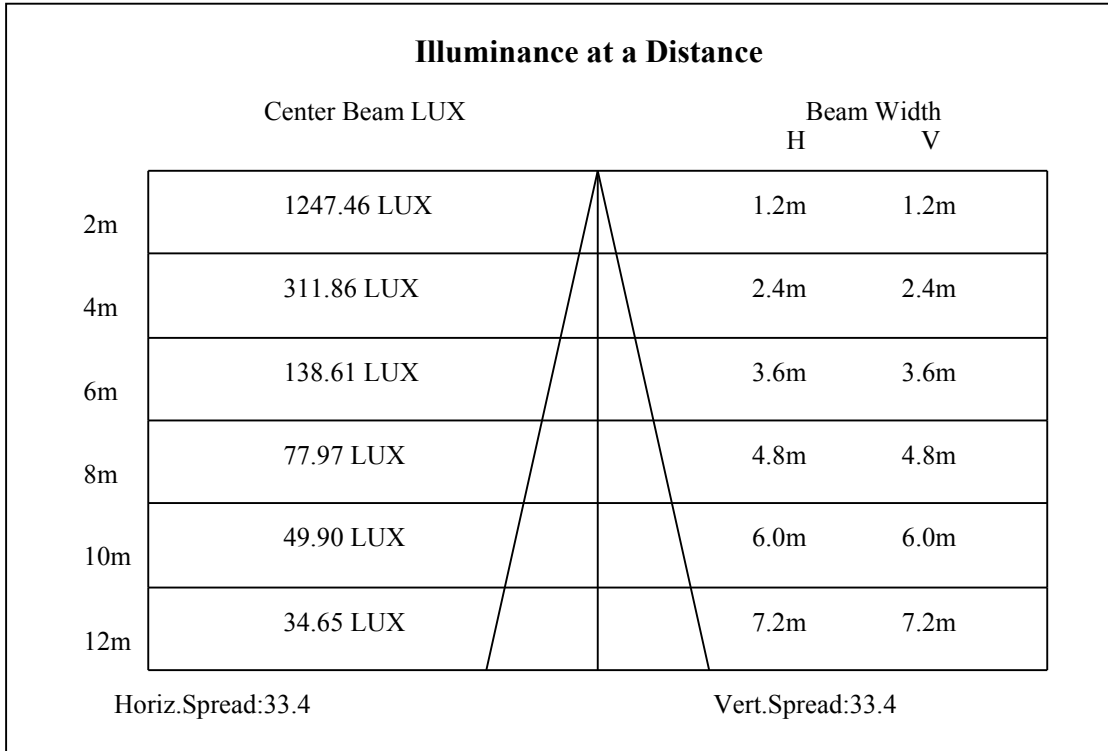
C0(Max): —————

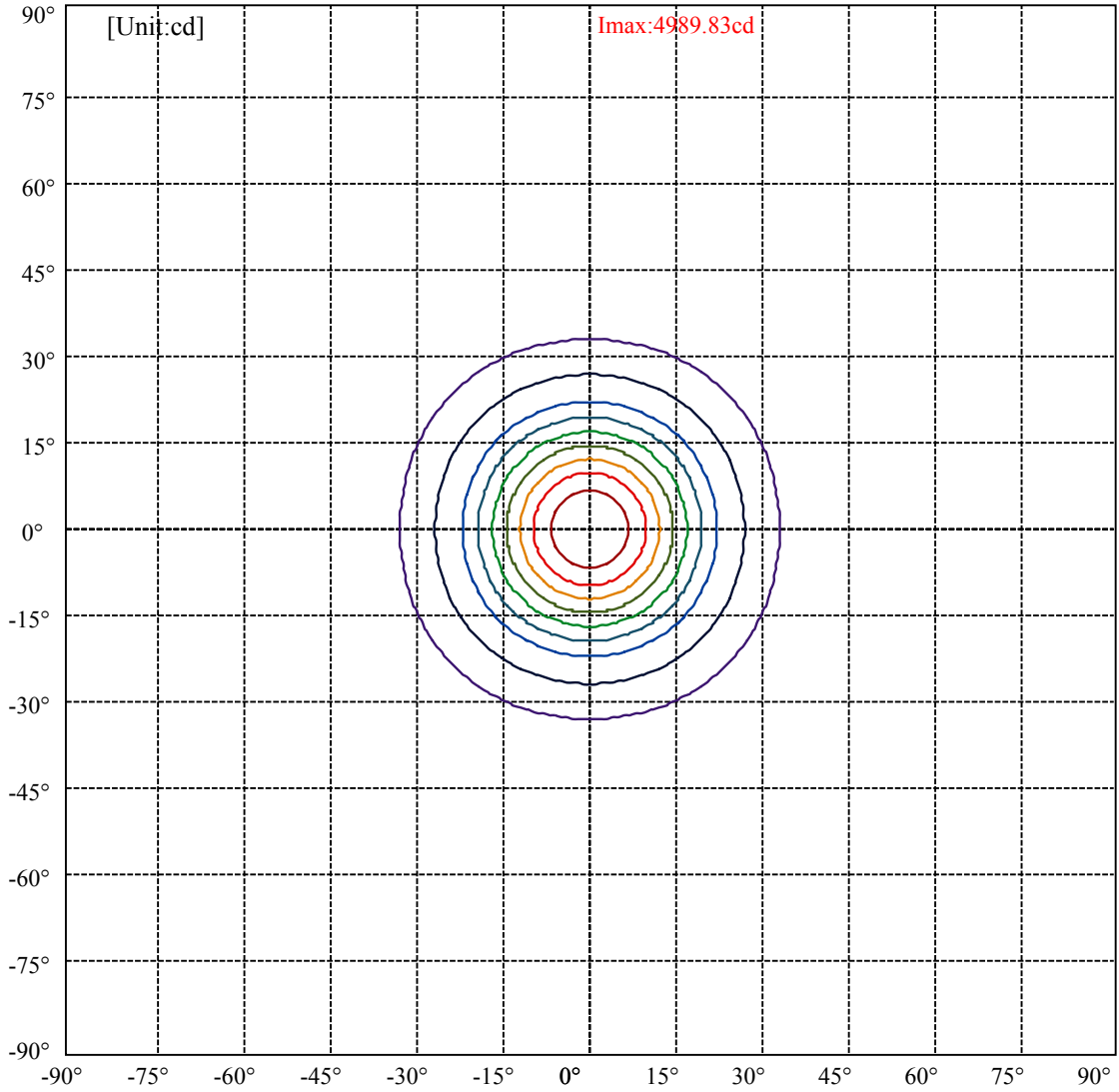
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:32.6 Right:32.6  
:C90/270Left:32.6 Right:32.6

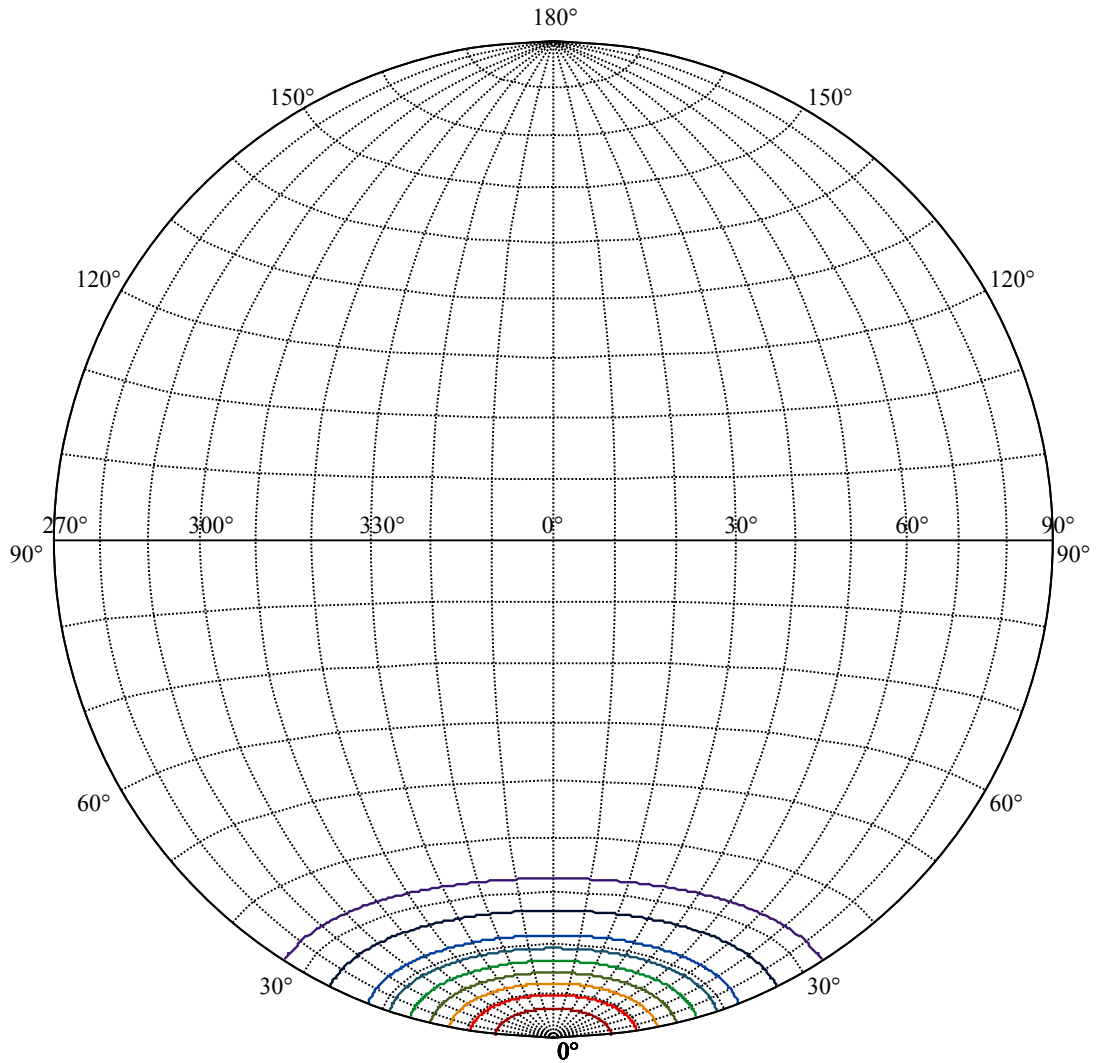
Beam Angle(50%Imax):C0/180Left:16.7 Right:16.7  
:C90/270Left:16.7 Right:16.7





(10%Imax) 498.983	—
(20%Imax) 997.967	—
(30%Imax) 1496.95	—
(40%Imax) 1995.93	—
(50%Imax) 2494.92	—
(60%Imax) 2993.9	—
(70%Imax) 3492.88	—
(80%Imax) 3991.87	—
(90%Imax) 4490.85	—





House

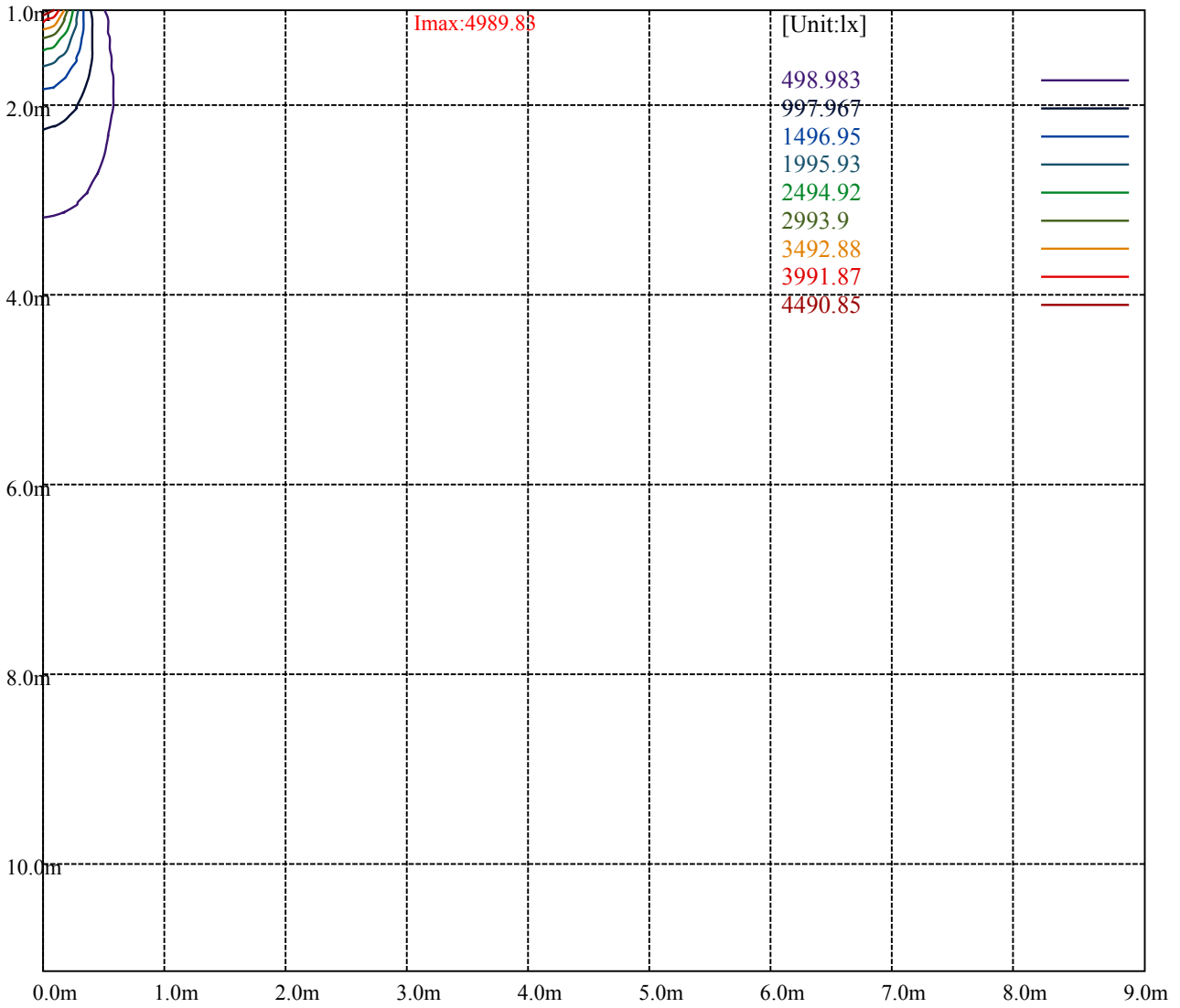
[Unit:cd]

Road

Imax:4989.83

(10%Imax)	498.983	—
(20%Imax)	997.967	—
(30%Imax)	1496.95	—
(40%Imax)	1995.93	—
(50%Imax)	2494.92	—
(60%Imax)	2993.9	—
(70%Imax)	3492.88	—
(80%Imax)	3991.87	—
(90%Imax)	4490.85	—





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

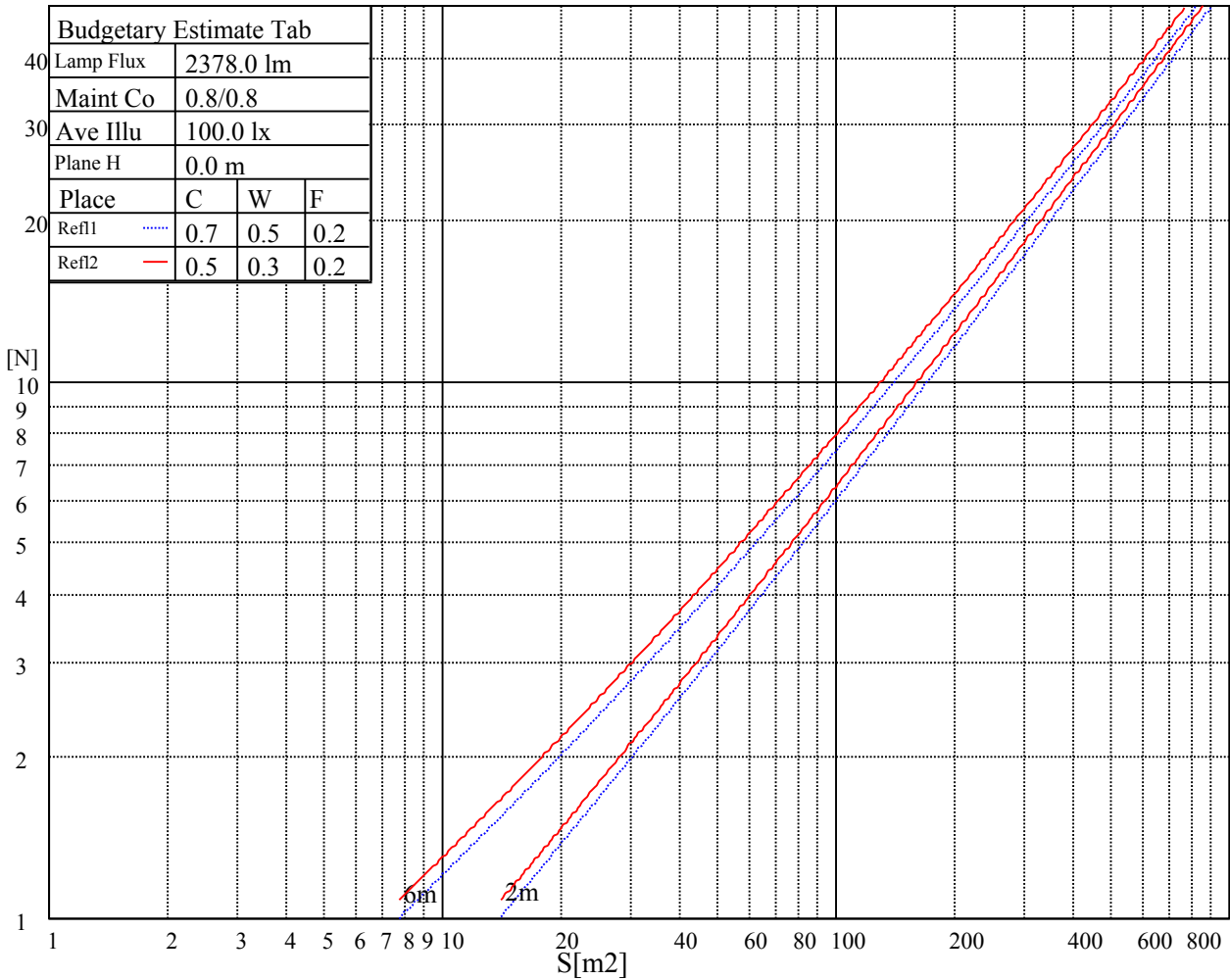
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

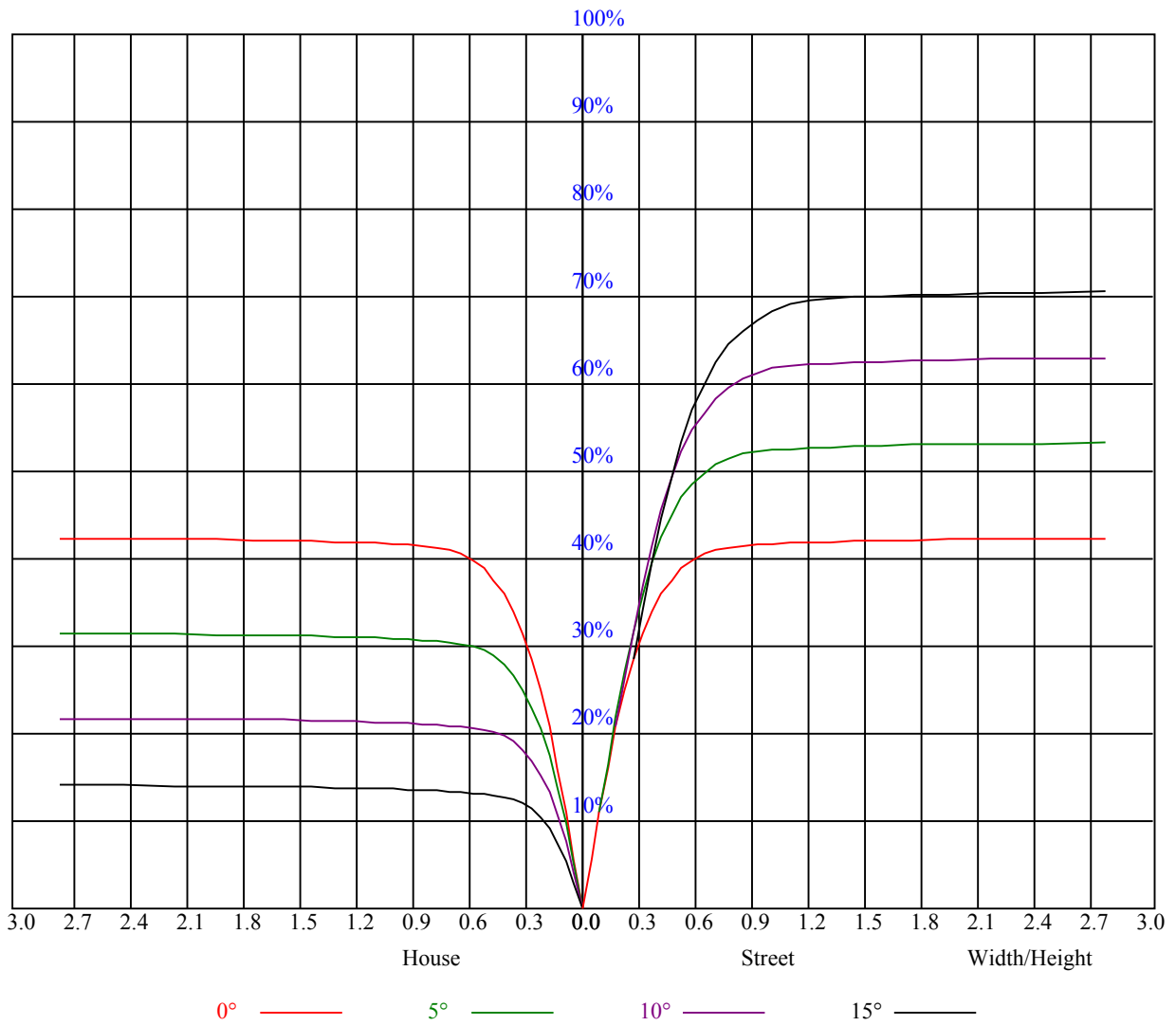


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

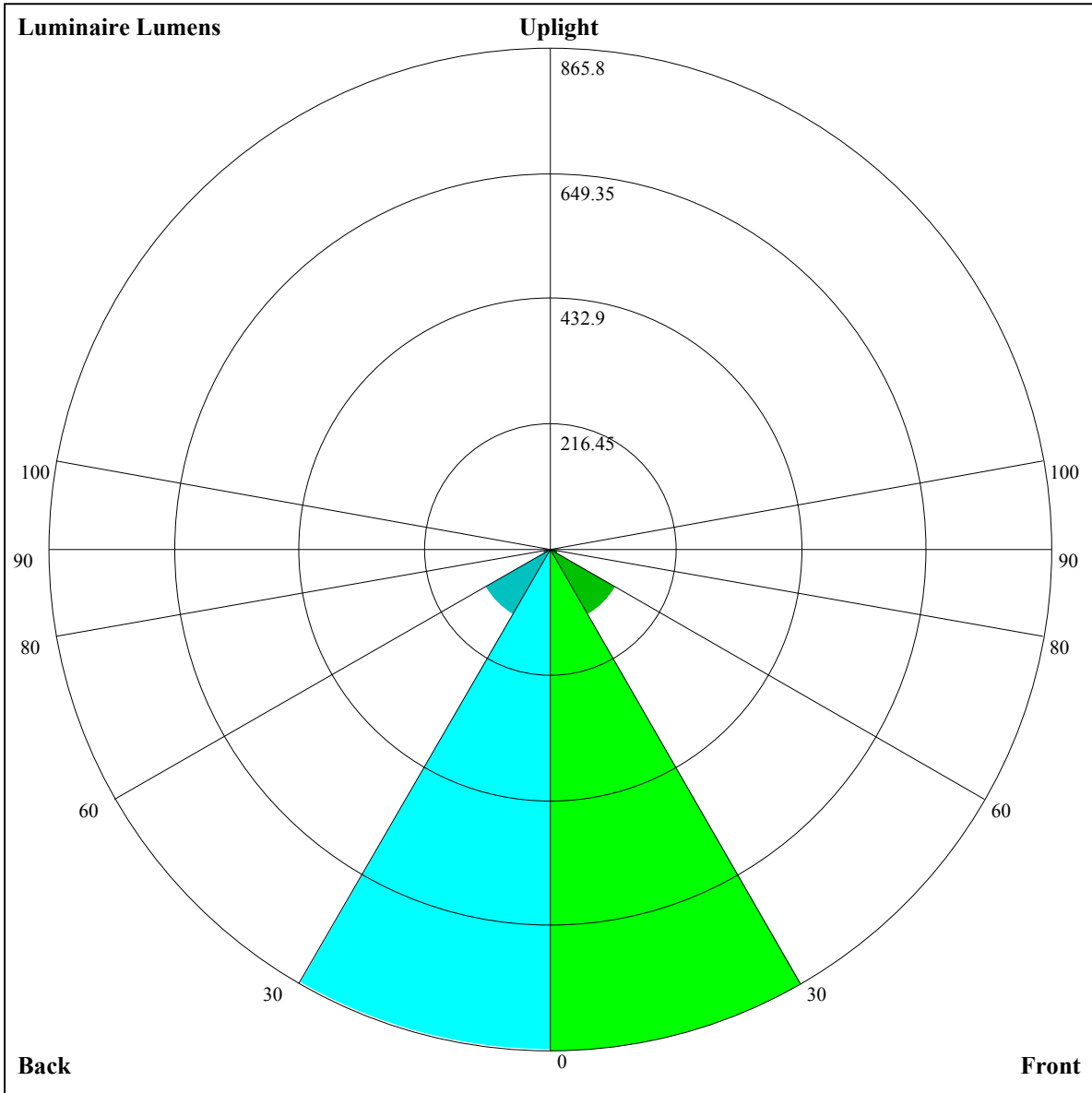
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.78	0.76
3	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.75	0.74	0.72
4	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.69	0.67	0.71	0.69	0.67	0.65
6	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.68	0.66	0.64	0.62
7	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
8	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
9	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
10	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53







Luminaire Lumens:

FL=865.8,FM=130.39,FH=14.52,FVH=5.1

BL=865.18,BM=131.49,BH=14.44,BVH=5.08

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	4999.64	4976.23	4937.02	4877.91	4797.73	4680.10	4572.42	4446.01	4298.54
45.0	4985.01	4995.54	4982.66	4944.04	4887.27	4815.29	4727.51	4598.17	4474.10
90.0	4987.35	4967.45	4929.99	4872.64	4803.00	4689.47	4584.13	4459.47	4272.79
135.0	4987.35	4987.35	4967.45	4927.07	4849.23	4773.15	4676.01	4565.98	4405.63
180.0	4999.64	4989.10	4945.79	4890.20	4818.80	4705.85	4597.59	4471.18	4327.21
225.0	4985.01	4937.60	4884.93	4789.54	4692.39	4576.52	4443.09	4252.89	4082.59
270.0	4987.35	4983.25	4953.40	4901.32	4812.95	4728.09	4622.17	4460.06	4308.48
315.0	4987.35	4957.50	4889.61	4818.22	4734.53	4626.85	4467.08	4320.19	4156.91
360.0	4999.64	4976.23	4937.02	4877.91	4797.73	4680.10	4572.42	4446.01	4298.54
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4093.71	3906.44	3706.87	3501.46	3239.86	3037.38	2787.49	2590.26	2402.41
45.0	4334.23	4173.88	3950.91	3759.54	3551.20	3286.10	3076.59	2871.76	2625.38
90.0	4105.41	3873.66	3673.52	3469.27	3213.53	3009.87	2812.06	2623.04	2434.01
135.0	4259.91	4093.71	3865.47	3671.76	3471.03	3265.61	3061.37	2813.82	2617.18
180.0	4127.65	3947.40	3756.03	3556.47	3300.14	3094.14	2892.83	2649.96	2460.34
225.0	3896.49	3652.45	3447.62	3245.13	3043.81	2799.19	2610.16	2425.23	2195.24
270.0	4146.96	3923.41	3722.67	3466.35	3259.76	3048.50	2847.76	2615.43	2422.30
315.0	3972.57	3730.28	3528.97	3322.38	3115.80	2867.08	2674.54	2438.69	2253.17
360.0	4093.71	3906.44	3706.87	3501.46	3239.86	3037.38	2787.49	2590.26	2402.41
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2175.93	1998.02	1820.69	1610.60	1456.68	1148.68	1148.68	1082.02	1003.08
45.0	2439.28	2256.69	2036.64	1862.83	1694.28	1540.96	1370.07	1251.27	1150.61
90.0	2210.45	2032.54	1861.66	1695.46	1504.09	1285.21	1153.24	1130.83	1049.07
135.0	2384.85	2202.26	1981.63	1808.99	1644.54	1497.06	1334.37	1227.86	1133.05
180.0	2274.83	2038.40	1862.24	1701.31	1511.11	1367.73	1251.85	1156.46	1049.37
225.0	2007.38	1830.64	1619.38	1468.39	1145.52	1145.52	1101.51	1020.69	950.35
270.0	2232.69	2047.18	1866.93	1658.00	1504.09	1363.63	1221.42	1130.13	1025.37
315.0	2067.07	1841.76	1671.46	1512.87	1167.64	1167.64	1119.36	1036.37	962.58
360.0	2175.93	1998.02	1820.69	1610.60	1456.68	1148.68	1148.68	1082.02	1003.08
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	934.78	872.86	787.19	709.53	626.60	518.57	433.77	332.47	255.68
45.0	1062.83	970.36	907.16	845.12	748.56	663.12	556.02	472.34	390.99
90.0	959.13	897.21	832.95	733.17	648.14	560.82	479.71	381.68	310.87
135.0	1048.20	958.07	896.62	830.49	752.07	644.98	560.12	455.36	375.77
180.0	980.90	914.77	855.66	760.27	680.68	595.82	480.53	394.50	313.74
225.0	872.28	803.87	722.23	634.91	527.23	442.61	364.77	275.06	210.39
270.0	957.49	891.94	799.48	716.37	628.00	535.54	433.13	358.80	303.21
315.0	884.27	819.49	739.78	632.80	548.18	463.79	365.82	291.73	225.84
360.0	934.78	872.86	787.19	709.53	626.60	518.57	433.77	332.47	255.68
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	189.03	135.13	87.02	67.65	61.68	57.76	53.08	49.92	47.05
45.0	296.18	296.18	212.73	108.85	72.92	62.27	58.05	54.31	50.97
90.0	242.87	179.02	124.36	77.66	62.56	57.12	53.26	49.92	46.00
135.0	301.45	301.45	149.99	101.24	74.62	62.44	58.05	54.07	50.68
180.0	313.74	158.95	103.12	75.61	63.79	59.40	54.66	51.32	48.11
225.0	141.10	98.67	74.44	63.91	58.35	54.37	50.91	47.81	44.65
270.0	303.21	160.82	100.89	73.21	61.51	57.59	53.72	49.69	46.88
315.0	154.27	106.98	77.95	63.15	58.93	55.13	51.73	47.99	45.41
360.0	189.03	135.13	87.02	67.65	61.68	57.76	53.08	49.92	47.05

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	43.95	41.73	39.68	37.28	35.52	33.83	31.84	30.37	28.97
45.0	47.17	44.77	41.96	39.91	38.10	35.82	34.12	32.60	30.67
90.0	43.60	41.43	38.92	37.16	35.46	33.77	31.89	30.49	29.14
135.0	46.70	44.30	41.96	39.39	37.45	35.58	33.47	31.89	30.08
180.0	45.59	42.72	40.56	38.57	36.23	34.47	32.83	30.84	29.32
225.0	42.25	40.03	37.57	35.76	34.00	32.01	30.49	29.09	27.39
270.0	44.42	41.67	39.62	37.81	35.99	33.94	32.48	30.96	29.50
315.0	43.07	40.85	38.39	36.58	34.41	32.71	31.19	29.50	28.09
360.0	43.95	41.73	39.68	37.28	35.52	33.83	31.84	30.37	28.97
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.33	26.04	24.87	23.70	22.30	21.30	20.37	19.49	18.55
45.0	29.26	27.97	26.69	25.16	23.99	22.82	21.83	20.60	19.66
90.0	27.80	26.16	24.99	23.58	22.41	21.48	20.25	19.31	18.61
135.0	28.68	27.27	25.98	24.46	23.35	22.24	21.24	20.31	19.14
180.0	27.92	26.28	25.05	23.88	22.71	21.48	20.48	19.55	18.79
225.0	26.10	24.99	23.53	22.36	21.36	20.42	19.31	18.55	17.79
270.0	27.86	26.57	25.34	23.88	22.77	21.54	20.60	19.66	18.67
315.0	26.80	25.57	24.11	23.00	21.95	21.01	19.84	19.02	18.26
360.0	27.33	26.04	24.87	23.70	22.30	21.30	20.37	19.49	18.55
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.79	16.91	16.33	15.74	14.92	14.46	14.05	13.58	12.99
45.0	18.84	17.91	17.21	16.56	15.80	15.22	14.69	14.16	13.69
90.0	17.67	16.97	16.39	15.80	15.04	14.51	14.10	13.64	13.05
135.0	18.38	17.67	16.85	16.27	15.51	14.92	14.46	13.87	13.40
180.0	17.85	17.09	16.44	15.68	15.10	14.46	14.05	13.64	13.17
225.0	17.09	16.27	15.68	14.98	14.46	14.05	13.46	13.05	12.70
270.0	17.85	17.15	16.56	15.92	15.16	14.63	14.22	13.75	13.23
315.0	17.32	16.62	15.86	15.27	14.75	14.28	13.69	13.23	12.87
360.0	17.79	16.91	16.33	15.74	14.92	14.46	14.05	13.58	12.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.64	12.35	12.00	11.59	11.35	11.12	10.83	10.59	10.36
45.0	13.23	12.87	12.47	12.06	11.76	11.47	11.18	11.00	10.65
90.0	12.76	12.41	11.94	11.70	11.41	11.12	10.89	10.65	10.36
135.0	12.99	12.70	12.23	11.88	11.59	11.35	11.00	10.83	10.59
180.0	12.70	12.41	12.06	11.70	11.35	11.12	10.89	10.65	10.42
225.0	12.35	11.94	11.65	11.35	11.12	10.83	10.59	10.36	10.12
270.0	12.87	12.41	12.06	11.76	11.41	11.18	10.94	10.71	10.42
315.0	12.52	12.06	11.76	11.47	11.24	10.94	10.71	10.42	10.18
360.0	12.64	12.35	12.00	11.59	11.35	11.12	10.83	10.59	10.36
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.12	10.01	9.77	9.42	9.13	9.01	8.84	8.72	8.60
45.0	10.48	10.24	10.01	9.83	9.42	9.19	9.07	8.90	8.78
90.0	10.18	10.01	9.77	9.36	9.19	9.01	8.84	8.72	8.66
135.0	10.36	10.12	9.83	9.60	9.36	9.07	8.95	8.78	8.72
180.0	10.12	9.95	9.71	9.36	9.13	9.01	8.78	8.72	8.54
225.0	9.83	9.66	9.31	9.07	9.01	8.84	8.72	8.54	8.66
270.0	10.12	9.83	9.66	9.42	9.13	9.01	8.84	8.90	8.60
315.0	9.95	9.77	9.54	9.25	9.01	8.90	8.72	8.72	8.60
360.0	10.12	10.01	9.77	9.42	9.13	9.01	8.84	8.72	8.60

Intensity data(cd)

C/γ(°)	90.0
0.0	8.54
45.0	8.60
90.0	8.54
135.0	8.54
180.0	8.60
225.0	8.60
270.0	8.78
315.0	8.72
360.0	8.54