



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: 2-2679-L

Luminaire: 92.70.411.00

Report No: 2024407-B014

Ballast type: AC

Test No: 2024407-C014

Voltage(V): 34.890

LampCAT: Fortimo\_SLM\_C\_1205

Current(A): 0.401

Lamp flux(lm): 2388.0

Power (W): 13.990

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2032.03, Efficiency(%): 85.09% , Luminous Efficacy(lm/W): 145.25

Central intensity(cd): 7098.691, Maximum intensity(cd): 7098.691

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

Beam Angle(50%Imax): [C0/180]Total=22.8

[C90/270]Total=22.8

Field angle(10%Imax): [C0/180]Total=60.2

[C90/270]Total=60.2

Maximum s/h(1/2): C0\_180=0.38 C90\_270=0.38

Maximum s/h(1/4): C0\_180=0.45 C90\_270=0.45

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.09%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.912%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/4/07  
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	7098.691	0.000	0	0.00%	0.00%
1.0	7027.513	6.759	6.759	0.28%	0.33%
2.0	6844.704	19.911	26.67	0.83%	1.31%
3.0	6568.404	32.080	58.75	1.34%	2.89%
4.0	6234.241	42.855	101.604	1.79%	5.00%
5.0	5864.306	52.047	153.651	2.18%	7.56%
6.0	5497.370	59.709	213.36	2.50%	10.50%
7.0	5123.338	65.923	279.283	2.76%	13.74%
8.0	4745.868	70.632	349.915	2.96%	17.22%
9.0	4395.464	74.086	424	3.10%	20.87%
10.0	4032.625	76.271	500.271	3.19%	24.62%
11.0	3702.923	77.294	577.565	3.24%	28.42%
12.0	3353.764	77.140	654.705	3.23%	32.22%
13.0	3071.466	76.251	730.956	3.19%	35.97%
14.0	2801.970	75.179	806.136	3.15%	39.67%
15.0	2552.298	73.506	879.642	3.08%	43.29%
16.0	2329.473	71.532	951.173	3.00%	46.81%
17.0	2130.570	69.455	1020.628	2.91%	50.23%
18.0	1960.562	67.454	1088.082	2.82%	53.55%
19.0	1805.258	65.518	1153.599	2.74%	56.77%
20.0	1670.291	63.612	1217.212	2.66%	59.90%
21.0	1544.906	61.738	1278.95	2.59%	62.94%
22.0	1417.005	59.521	1338.471	2.49%	65.87%
23.0	1295.513	56.916	1395.387	2.38%	68.67%
24.0	1215.732	54.905	1450.292	2.30%	71.37%
25.0	1157.217	53.956	1504.247	2.26%	74.03%
26.0	1076.931	52.737	1556.985	2.21%	76.62%
27.0	997.874	50.761	1607.745	2.13%	79.12%
28.0	910.969	48.328	1656.073	2.02%	81.50%
29.0	810.500	45.038	1701.111	1.89%	83.71%
30.0	715.577	41.204	1742.315	1.73%	85.74%
31.0	611.655	36.935	1779.25	1.55%	87.56%
32.0	520.828	32.444	1811.695	1.36%	89.16%
33.0	427.024	27.924	1839.619	1.17%	90.53%
34.0	344.449	23.347	1862.966	0.98%	91.68%
35.0	276.446	19.283	1882.248	0.81%	92.63%
36.0	228.691	16.084	1898.332	0.67%	93.42%
37.0	157.886	12.608	1910.94	0.53%	94.04%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	105.589	8.794	1919.734	0.37%	94.47%
39.0	80.929	6.366	1926.101	0.27%	94.79%
40.0	70.264	5.273	1931.374	0.22%	95.05%
41.0	63.219	4.753	1936.127	0.20%	95.28%
42.0	57.337	4.380	1940.507	0.18%	95.50%
43.0	52.334	4.063	1944.57	0.17%	95.70%
44.0	47.996	3.787	1948.356	0.16%	95.88%
45.0	44.192	3.543	1951.899	0.15%	96.06%
46.0	40.893	3.327	1955.227	0.14%	96.22%
47.0	37.959	3.136	1958.363	0.13%	96.37%
48.0	35.252	2.960	1961.323	0.12%	96.52%
49.0	32.948	2.801	1964.123	0.12%	96.66%
50.0	30.936	2.664	1966.787	0.11%	96.79%
51.0	29.108	2.540	1969.327	0.11%	96.91%
52.0	27.571	2.432	1971.759	0.10%	97.03%
53.0	26.342	2.345	1974.105	0.10%	97.15%
54.0	25.267	2.275	1976.379	0.10%	97.26%
55.0	24.477	2.220	1978.6	0.09%	97.37%
56.0	23.906	2.186	1980.786	0.09%	97.48%
57.0	23.643	2.174	1982.96	0.09%	97.59%
58.0	23.621	2.186	1985.146	0.09%	97.69%
59.0	23.724	2.213	1987.359	0.09%	97.80%
60.0	23.841	2.247	1989.606	0.09%	97.91%
61.0	23.731	2.270	1991.877	0.10%	98.02%
62.0	23.248	2.264	1994.14	0.09%	98.14%
63.0	22.341	2.217	1996.357	0.09%	98.24%
64.0	21.002	2.127	1998.484	0.09%	98.35%
65.0	19.466	2.003	2000.487	0.08%	98.45%
66.0	17.827	1.861	2002.348	0.08%	98.54%
67.0	16.401	1.721	2004.069	0.07%	98.62%
68.0	15.267	1.604	2005.673	0.07%	98.70%
69.0	14.470	1.517	2007.19	0.06%	98.78%
70.0	13.899	1.457	2008.647	0.06%	98.85%
71.0	13.482	1.415	2010.062	0.06%	98.92%
72.0	13.109	1.383	2011.445	0.06%	98.99%
73.0	12.904	1.360	2012.805	0.06%	99.05%
74.0	12.699	1.346	2014.151	0.06%	99.12%
75.0	12.458	1.329	2015.48	0.06%	99.19%

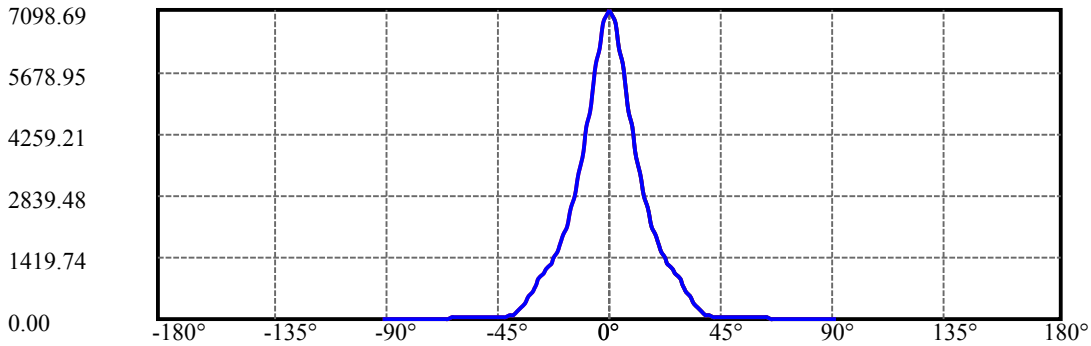
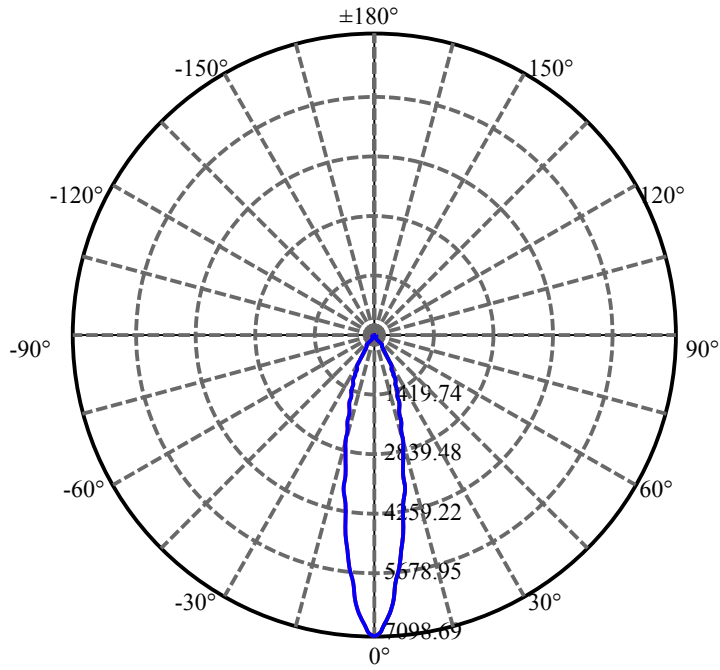
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.129	1.305	2016.786	0.05%	99.25%
77.0	11.800	1.276	2018.061	0.05%	99.31%
78.0	11.390	1.241	2019.303	0.05%	99.37%
79.0	11.046	1.205	2020.508	0.05%	99.43%
80.0	10.739	1.174	2021.683	0.05%	99.49%
81.0	10.439	1.145	2022.828	0.05%	99.55%
82.0	10.132	1.116	2023.944	0.05%	99.60%
83.0	9.846	1.086	2025.03	0.05%	99.66%
84.0	9.620	1.060	2026.09	0.04%	99.71%
85.0	9.400	1.038	2027.128	0.04%	99.76%
86.0	9.188	1.016	2028.144	0.04%	99.81%
87.0	9.012	0.996	2029.14	0.04%	99.86%
88.0	8.837	0.978	2030.118	0.04%	99.91%
89.0	8.698	0.961	2031.079	0.04%	99.95%
90.0	8.661	0.952	2032.031	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1742.32	72.96%	85.74%
0-40	1931.37	80.88%	95.05%
0-60	1989.61	83.32%	97.91%
0-90	2031.08	85.05%	99.95%
0-120	2031.08	85.05%	99.95%
0-180	2032.03	85.09%	100.00%
60-90	41.47	1.74%	2.04%
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%
0-27.37	1625.63	68.07%	80.00%

ZONAL LUMEN SUMMARY

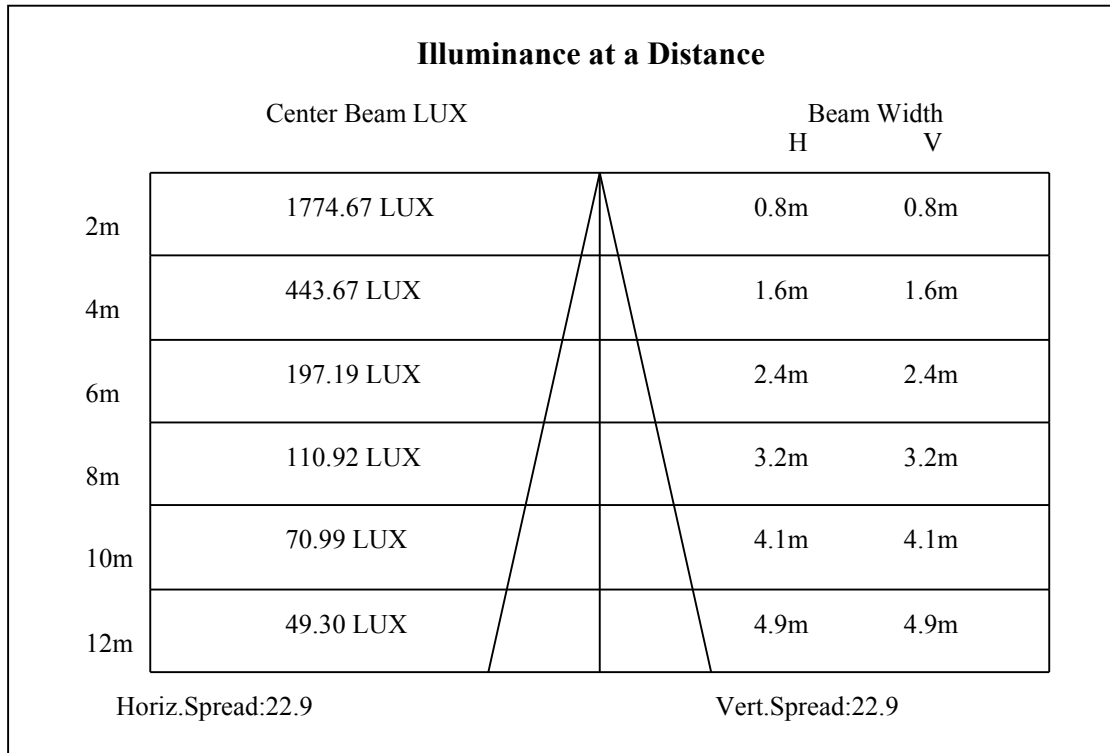
0-10	500.27
10-20	716.94
20-30	525.10
30-40	189.06
40-50	35.41
50-60	22.82
60-70	19.04
70-80	13.04
80-90	9.40
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

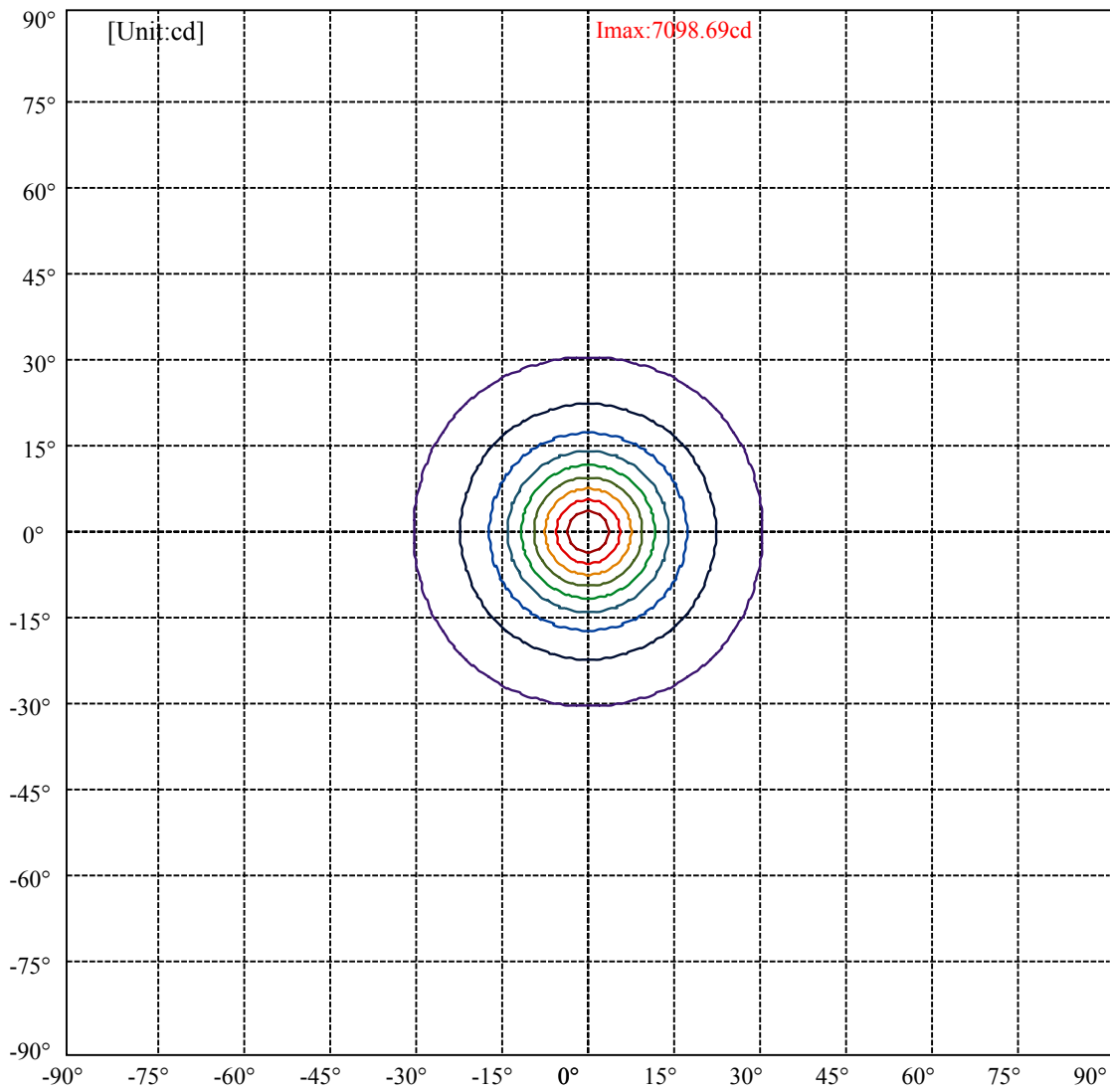


C0(Max): ———  
C0/C180: ———  
C90/C270: ———

Field angle(10%Imax):C0/180Left:30.1 Right:30.1  
:C90/270Left:30.1 Right:30.1

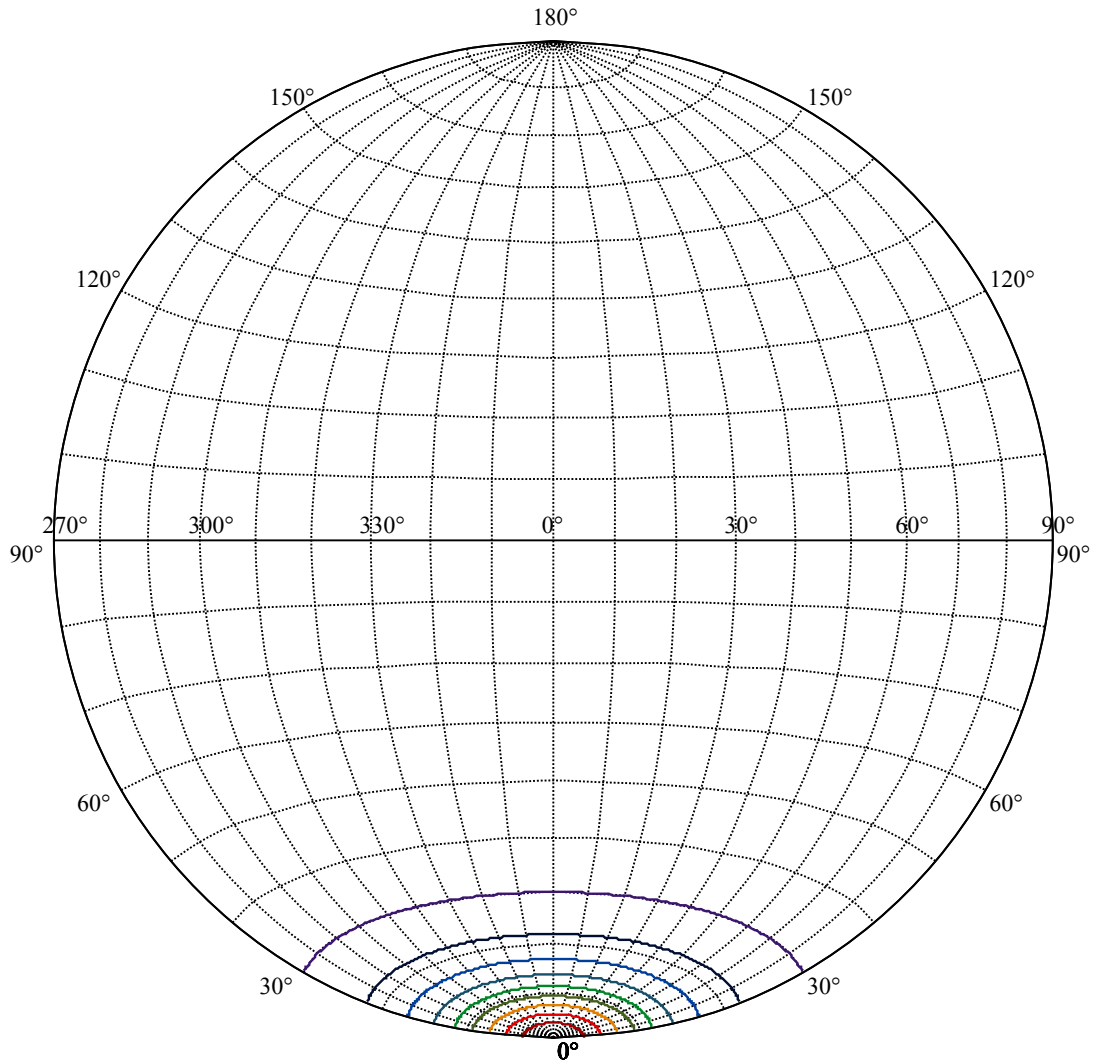
Beam Angle(50%Imax):C0/180Left:11.4 Right:11.4  
:C90/270Left:11.4 Right:11.4





(10%Imax) 709.869	—
(20%Imax) 1419.74	—
(30%Imax) 2129.61	—
(40%Imax) 2839.48	—
(50%Imax) 3549.35	—
(60%Imax) 4259.21	—
(70%Imax) 4969.08	—
(80%Imax) 5678.95	—
(90%Imax) 6388.82	—





House

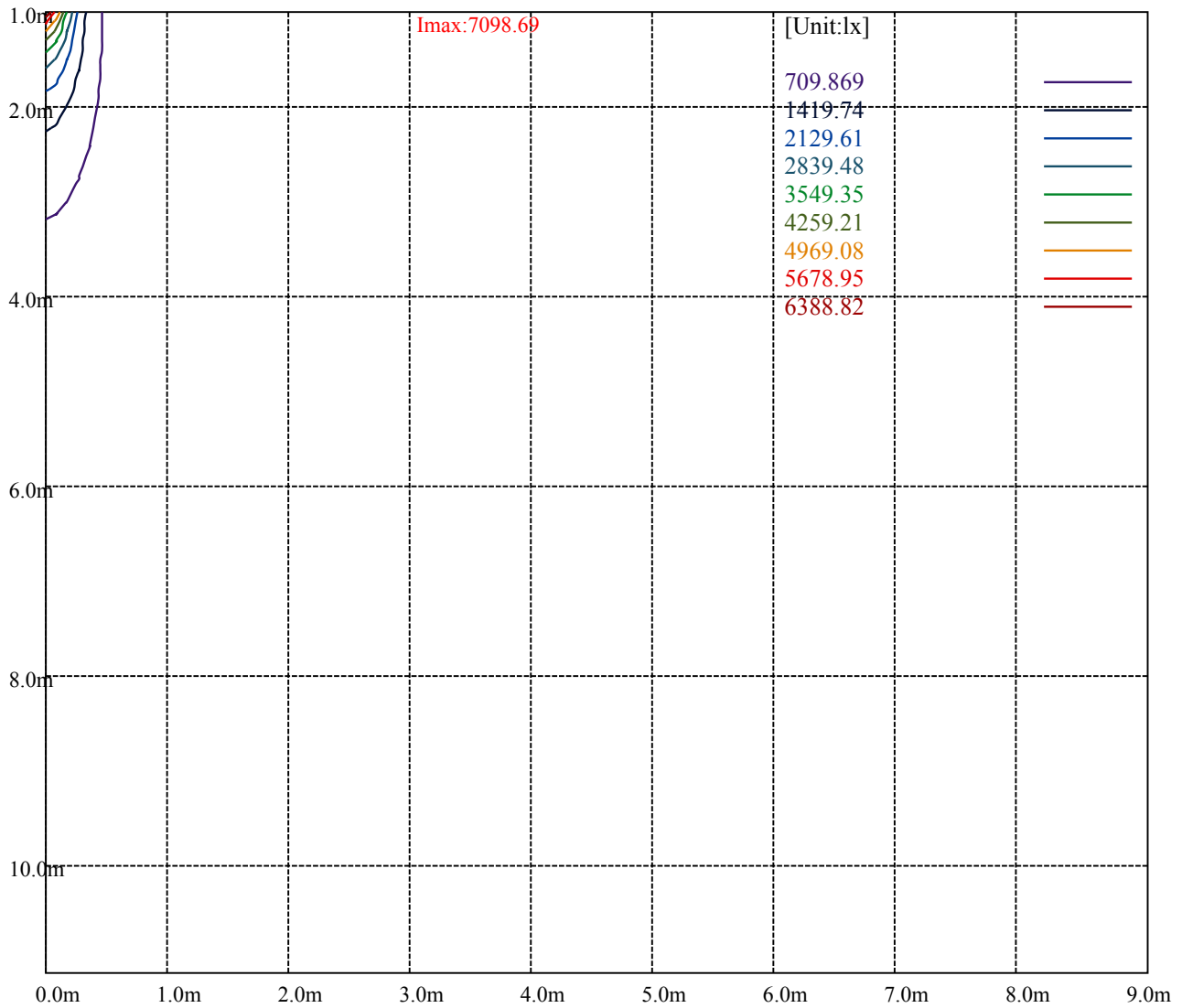
[Unit:cd]

Road

Imax:7098.69

(10%Imax)	709.869	—
(20%Imax)	1419.74	—
(30%Imax)	2129.61	—
(40%Imax)	2839.48	—
(50%Imax)	3549.35	—
(60%Imax)	4259.21	—
(70%Imax)	4969.08	—
(80%Imax)	5678.95	—
(90%Imax)	6388.82	—





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

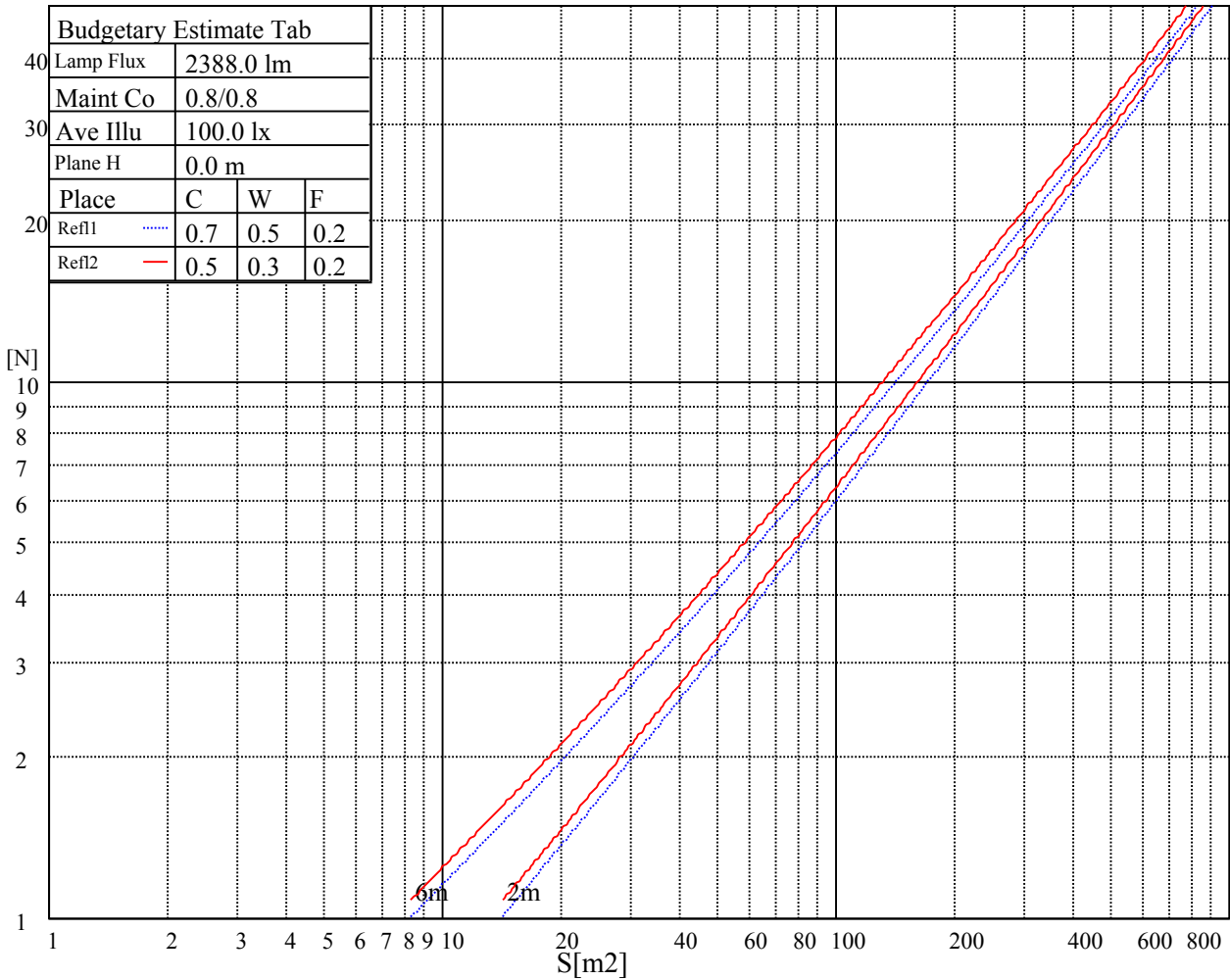
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

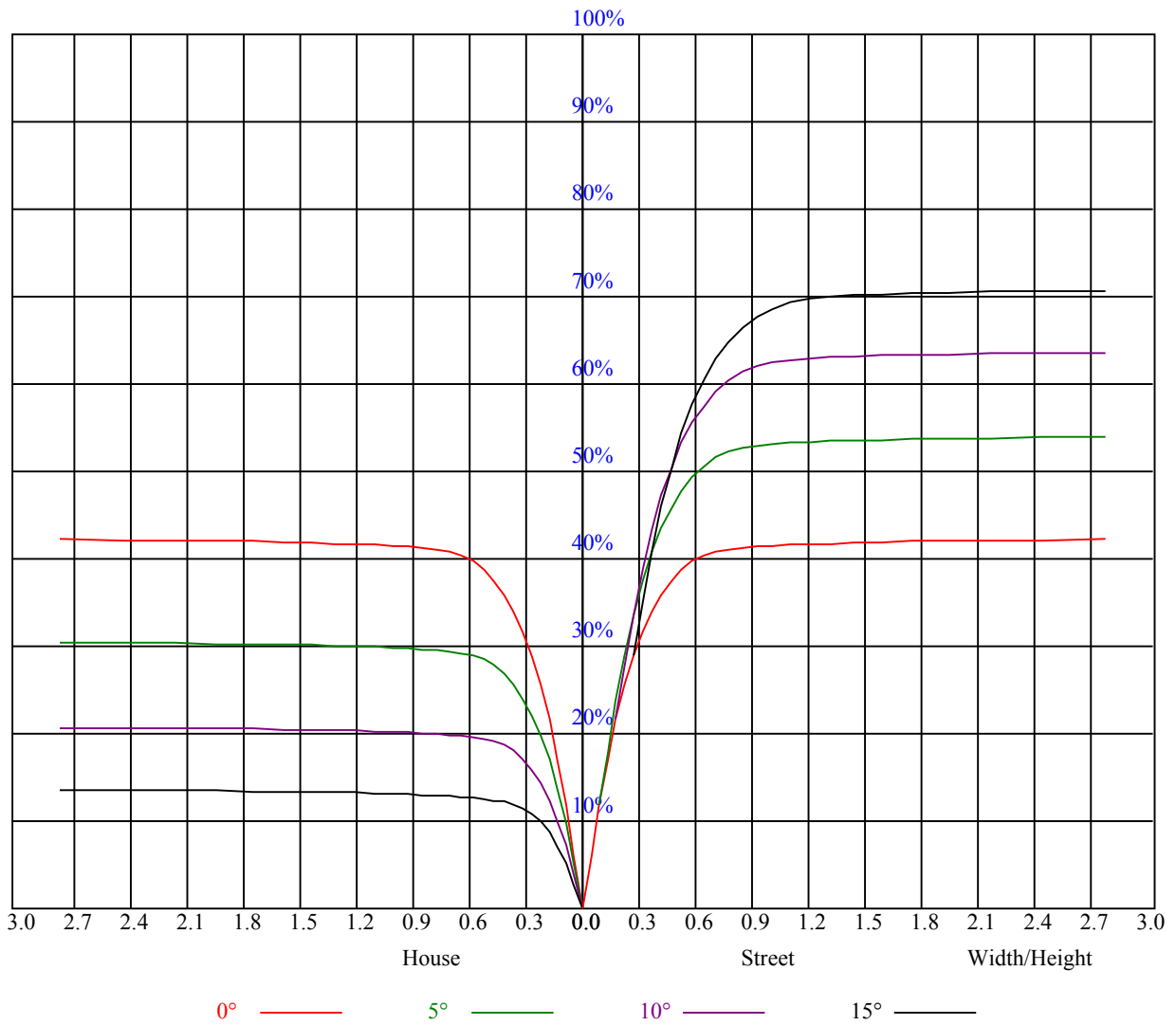


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

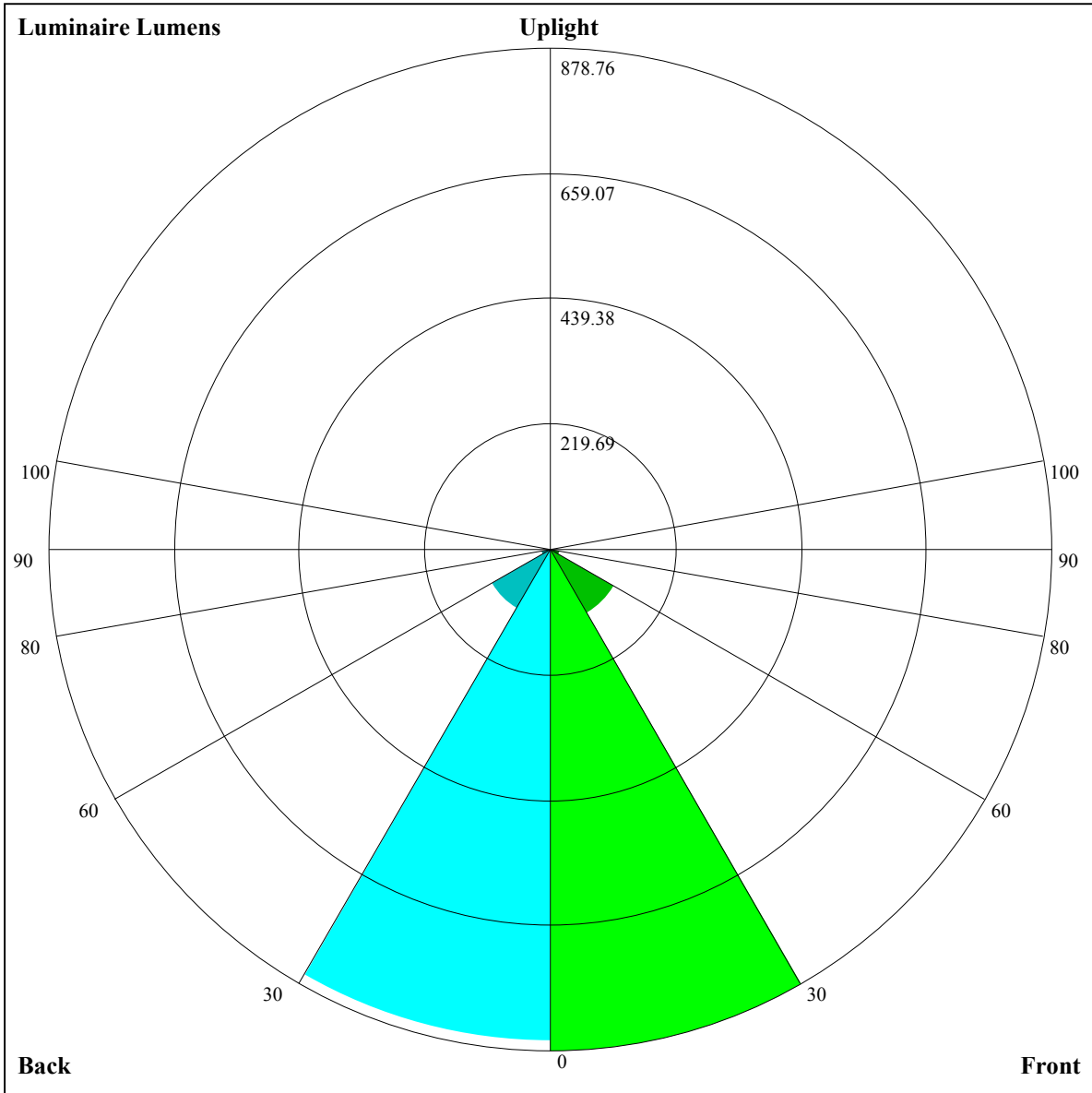
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.01	1.01	1.01	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	0.86	0.85	0.84	0.84	0.83	0.82	0.80
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	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
7	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.61	0.60
8	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	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
10	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







Luminaire Lumens:

FL=878.76,FM=128.43,FH=16.04,FVH=5.18

BL=862.5,BM=120.96,BH=15.99,BVH=5.17

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	7127.51	7009.30	6809.15	6541.70	6141.99	5798.47	5445.58	5100.29	4666.64
45.0	7070.16	7121.08	7044.41	6865.33	6542.29	6224.51	5886.84	5454.94	5119.61
90.0	7100.01	6984.72	6718.44	6443.39	6133.80	5792.62	5377.69	5036.50	4700.59
135.0	7104.69	7093.57	6968.33	6747.12	6376.67	6040.75	5698.98	5347.26	4915.36
180.0	7127.51	7075.43	6917.42	6607.25	6297.66	5868.11	5514.63	5145.94	4791.30
225.0	7070.16	6868.84	6601.98	6294.74	5959.40	5516.39	5170.52	4728.09	4375.20
270.0	7100.01	7105.28	6977.11	6681.57	6381.94	5979.30	5634.60	5286.98	4856.84
315.0	7089.47	6961.90	6720.78	6366.14	6040.17	5694.30	5250.11	4886.69	4541.40
360.0	7127.51	7009.30	6809.15	6541.70	6141.99	5798.47	5445.58	5100.29	4666.64
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4325.46	3997.73	3683.46	3316.53	3046.15	2804.46	2526.47	2328.08	2109.21
45.0	4779.01	4355.30	4021.14	3634.31	3340.52	3068.98	2814.99	2532.91	2333.35
90.0	4365.25	3949.16	3636.65	3266.20	2997.00	2745.93	2469.71	2269.56	2096.33
135.0	4575.93	4242.94	3909.95	3531.31	3244.55	2975.34	2670.44	2449.81	2208.70
180.0	4364.08	4028.75	3702.19	3385.00	3052.59	2796.26	2566.27	2323.40	2139.64
225.0	4042.79	3645.43	3351.64	3070.73	2812.65	2528.23	2316.96	2132.62	1966.41
270.0	4516.24	4169.20	3832.11	3433.57	3146.23	2865.32	2632.99	2368.46	2170.66
315.0	4194.95	3872.49	3486.24	3192.46	2932.04	2631.23	2420.55	2230.94	2020.26
360.0	4325.46	3997.73	3683.46	3316.53	3046.15	2804.46	2526.47	2328.08	2109.21
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1957.64	1823.62	1700.72	1560.27	1454.93	1356.02	1157.28	1157.28	1082.37
45.0	2156.03	1993.33	1821.86	1693.70	1584.26	1476.00	1357.20	1267.07	1169.92
90.0	1902.04	1767.44	1641.61	1526.33	1399.33	1160.56	1160.56	1141.89	1051.59
135.0	2039.57	1890.34	1724.72	1605.92	1494.72	1395.82	1281.12	1198.60	1123.11
180.0	1975.19	1792.02	1663.85	1518.13	1416.30	1318.57	1233.13	1154.71	1064.58
225.0	1782.07	1653.32	1537.44	1406.94	1165.01	1165.01	1126.97	1058.26	982.94
270.0	1999.19	1814.84	1682.00	1566.12	1435.03	1336.71	1254.20	1158.80	1087.41
315.0	1872.78	1707.16	1590.11	1481.85	1386.46	1155.41	1155.41	1121.12	1053.52
360.0	1957.64	1823.62	1700.72	1560.27	1454.93	1356.02	1157.28	1157.28	1082.37
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1010.27	928.87	825.93	732.41	639.24	523.25	435.35	332.64	259.90
45.0	1096.77	1018.35	915.94	824.64	732.17	640.29	531.44	447.76	368.17
90.0	973.40	884.22	766.00	673.77	565.68	484.57	404.80	328.37	243.75
135.0	1049.37	946.37	849.81	758.51	642.64	553.68	470.58	371.09	298.52
180.0	987.92	904.82	815.28	701.16	600.50	509.79	400.94	320.76	302.03
225.0	878.48	785.25	693.67	600.27	490.77	410.94	334.28	265.52	190.26
270.0	1020.69	939.93	830.49	741.54	642.64	552.51	448.34	372.26	299.69
315.0	966.09	879.94	786.89	692.32	579.61	491.59	390.46	317.19	249.25
360.0	1010.27	928.87	825.93	732.41	639.24	523.25	435.35	332.64	259.90
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	199.27	149.41	101.65	79.12	69.52	63.15	56.01	51.21	47.34
45.0	311.98	311.98	150.05	107.56	83.98	71.81	65.37	59.46	53.20
90.0	186.63	136.01	99.25	77.83	70.87	64.55	58.76	52.79	48.81
135.0	298.52	155.44	112.89	88.31	77.13	68.65	62.62	57.35	52.85
180.0	220.69	129.69	97.73	76.49	69.12	62.97	57.53	51.91	48.05
225.0	138.46	93.99	75.26	67.48	60.10	55.01	50.68	46.94	42.90
270.0	299.69	162.63	117.57	81.46	68.71	62.38	55.54	50.97	47.05
315.0	174.28	123.95	90.30	69.17	62.68	57.24	52.20	48.05	43.77
360.0	199.27	149.41	101.65	79.12	69.52	63.15	56.01	51.21	47.34

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	43.83	40.03	37.28	34.41	32.30	30.49	28.50	27.21	26.10
45.0	49.04	44.54	41.32	38.45	35.82	33.01	31.02	29.32	27.86
90.0	44.36	41.20	38.33	35.23	33.07	31.13	29.50	27.74	26.57
135.0	47.99	44.54	41.38	38.04	35.52	33.36	30.96	29.38	27.92
180.0	44.77	41.67	38.27	35.82	33.12	31.25	29.61	27.74	26.51
225.0	39.97	37.34	35.00	32.42	30.61	29.03	27.21	26.04	25.16
270.0	42.78	39.85	37.10	34.82	32.19	30.43	28.73	27.27	25.81
315.0	40.79	37.98	35.00	32.83	30.96	28.79	27.33	25.87	24.81
360.0	43.83	40.03	37.28	34.41	32.30	30.49	28.50	27.21	26.10
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.11	24.23	23.76	23.47	23.47	23.70	23.88	23.88	23.35
45.0	26.39	25.40	24.64	24.05	23.82	23.88	23.99	24.11	23.94
90.0	25.57	24.87	24.17	23.99	23.99	23.99	23.99	23.70	22.94
135.0	26.45	25.52	24.76	24.05	23.82	23.70	23.76	23.70	23.41
180.0	25.46	24.64	23.88	23.58	23.53	23.53	23.70	23.58	23.17
225.0	24.23	23.76	23.53	23.64	23.76	23.99	23.88	23.47	22.65
270.0	24.87	23.94	23.47	23.29	23.35	23.58	23.82	23.88	23.53
315.0	24.05	23.47	23.06	23.06	23.23	23.41	23.70	23.53	23.00
360.0	25.11	24.23	23.76	23.47	23.47	23.70	23.88	23.88	23.35
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.59	21.30	19.61	18.02	16.33	15.22	14.46	13.93	13.40
45.0	23.23	22.24	20.95	19.14	17.56	16.27	15.22	14.34	13.81
90.0	21.89	20.25	18.73	17.26	16.09	14.86	14.22	13.81	13.40
135.0	22.82	21.59	20.31	18.84	17.15	16.04	15.16	14.40	13.99
180.0	22.18	20.89	19.49	17.67	16.44	15.22	14.51	14.05	13.64
225.0	21.30	19.84	17.85	16.44	15.39	14.46	13.93	13.40	13.05
270.0	22.71	21.54	20.01	17.97	16.56	15.39	14.34	13.75	13.40
315.0	22.00	20.37	18.79	17.26	15.68	14.69	13.93	13.52	13.17
360.0	22.59	21.30	19.61	18.02	16.33	15.22	14.46	13.93	13.40
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.05	12.82	12.52	12.29	11.94	11.70	11.35	11.06	10.77
45.0	13.40	13.11	12.76	12.47	12.11	11.88	11.65	11.29	11.00
90.0	13.05	12.93	12.70	12.47	12.11	11.70	11.24	10.94	10.65
135.0	13.69	13.87	13.99	13.64	13.05	12.58	11.94	11.47	11.00
180.0	13.17	12.87	12.58	12.35	12.00	11.76	11.47	11.12	10.83
225.0	12.76	12.41	12.17	11.88	11.65	11.29	11.00	10.71	10.48
270.0	12.93	12.64	12.41	12.17	11.94	11.76	11.24	10.94	10.71
315.0	12.82	12.58	12.47	12.41	12.23	11.70	11.24	10.83	10.48
360.0	13.05	12.82	12.52	12.29	11.94	11.70	11.35	11.06	10.77
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.48	10.18	9.89	9.66	9.42	9.31	9.13	8.95	8.78
45.0	10.71	10.36	10.07	9.83	9.60	9.42	9.19	8.95	8.78
90.0	10.24	10.01	9.71	9.54	9.31	9.07	9.01	8.78	8.66
135.0	10.71	10.42	10.01	9.83	9.54	9.25	9.01	8.84	8.72
180.0	10.59	10.24	9.95	9.66	9.48	9.19	9.01	8.84	8.72
225.0	10.18	9.89	9.66	9.48	9.19	9.07	8.84	8.78	8.66
270.0	10.36	10.07	9.83	9.54	9.31	9.13	9.01	8.78	8.66
315.0	10.24	9.89	9.66	9.42	9.36	9.07	8.90	8.78	8.60
360.0	10.48	10.18	9.89	9.66	9.42	9.31	9.13	8.95	8.78

Intensity data(cd)

C/γ(°)	90.0
0.0	8.78
45.0	8.66
90.0	8.60
135.0	8.60
180.0	8.72
225.0	8.66
270.0	8.66
315.0	8.60
360.0	8.78