



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: 1-1298-L

Luminaire: 92.70.410.00

Report No: 2024802-B020

Ballast type: AC

Test No: 2024802-C020

Voltage(V): 34.830

LampCAT: Fortimo_SLM_C_1204

Current(A): 0.321

Lamp flux(lm): 1868.0

Power (W): 11.180

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1710.89, Efficiency(%): 91.59% , Luminous Efficacy(lm/W): 153.03

Central intensity(cd): 7775.504, Maximum intensity(cd): 7775.504

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.8

[C90/270]Total=18.8

Field angle(10%Imax): [C0/180]Total=51.4

[C90/270]Total=51.4

Maximum s/h(1/2): C0_180=0.32 C90_270=0.32

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.59%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.685%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/02
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	7775.504	0.000	0	0.00%	0.00%
1.0	7730.954	7.420	7.42	0.40%	0.43%
2.0	7528.905	21.902	29.322	1.17%	1.71%
3.0	7202.862	35.234	64.555	1.89%	3.77%
4.0	6801.690	46.878	111.433	2.51%	6.51%
5.0	6284.936	56.298	167.731	3.01%	9.80%
6.0	5738.921	63.189	230.92	3.38%	13.50%
7.0	5167.595	67.697	298.616	3.62%	17.45%
8.0	4623.482	70.073	368.689	3.75%	21.55%
9.0	4062.837	70.398	439.087	3.77%	25.66%
10.0	3602.338	69.367	508.454	3.71%	29.72%
11.0	3225.233	68.221	576.676	3.65%	33.71%
12.0	2850.177	66.413	643.089	3.56%	37.59%
13.0	2553.688	64.130	707.219	3.43%	41.34%
14.0	2314.477	62.312	769.531	3.34%	44.98%
15.0	2090.702	60.476	830.007	3.24%	48.51%
16.0	1897.358	58.436	888.443	3.13%	51.93%
17.0	1734.446	56.557	945	3.03%	55.23%
18.0	1557.152	54.271	999.272	2.91%	58.41%
19.0	1436.091	52.076	1051.348	2.79%	61.45%
20.0	1293.011	49.950	1101.298	2.67%	64.37%
21.0	1207.904	48.023	1149.321	2.57%	67.18%
22.0	1107.363	46.526	1195.847	2.49%	69.90%
23.0	1009.652	44.421	1240.268	2.38%	72.49%
24.0	923.192	42.259	1282.527	2.26%	74.96%
25.0	832.921	39.930	1322.457	2.14%	77.30%
26.0	756.125	37.510	1359.966	2.01%	79.49%
27.0	680.631	35.151	1395.117	1.88%	81.54%
28.0	608.590	32.640	1427.757	1.75%	83.45%
29.0	530.880	29.812	1457.569	1.60%	85.19%
30.0	464.508	26.875	1484.444	1.44%	86.76%
31.0	394.456	23.904	1508.348	1.28%	88.16%
32.0	333.915	20.867	1529.215	1.12%	89.38%
33.0	282.934	18.173	1547.388	0.97%	90.44%
34.0	226.482	15.416	1562.804	0.83%	91.34%
35.0	180.176	12.629	1575.433	0.68%	92.08%
36.0	160.271	10.840	1586.273	0.58%	92.72%
37.0	111.654	8.869	1595.142	0.47%	93.23%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	92.853	6.826	1601.968	0.37%	93.63%
39.0	79.964	5.899	1607.867	0.32%	93.98%
40.0	70.776	5.257	1613.124	0.28%	94.29%
41.0	63.753	4.790	1617.915	0.26%	94.57%
42.0	57.323	4.399	1622.314	0.24%	94.82%
43.0	52.136	4.055	1626.368	0.22%	95.06%
44.0	47.637	3.766	1630.134	0.20%	95.28%
45.0	43.680	3.509	1633.643	0.19%	95.48%
46.0	40.205	3.281	1636.924	0.18%	95.68%
47.0	37.440	3.088	1640.012	0.17%	95.86%
48.0	34.865	2.923	1642.935	0.16%	96.03%
49.0	32.670	2.773	1645.708	0.15%	96.19%
50.0	30.929	2.652	1648.36	0.14%	96.34%
51.0	29.371	2.551	1650.911	0.14%	96.49%
52.0	28.105	2.466	1653.378	0.13%	96.64%
53.0	26.935	2.394	1655.772	0.13%	96.78%
54.0	26.006	2.333	1658.105	0.12%	96.91%
55.0	25.179	2.285	1660.39	0.12%	97.05%
56.0	24.462	2.243	1662.633	0.12%	97.18%
57.0	23.899	2.211	1664.844	0.12%	97.31%
58.0	23.321	2.184	1667.028	0.12%	97.44%
59.0	22.670	2.150	1669.178	0.12%	97.56%
60.0	22.107	2.115	1671.294	0.11%	97.69%
61.0	21.427	2.078	1673.371	0.11%	97.81%
62.0	20.622	2.026	1675.397	0.11%	97.93%
63.0	19.781	1.965	1677.362	0.11%	98.04%
64.0	18.991	1.902	1679.265	0.10%	98.15%
65.0	18.054	1.833	1681.098	0.10%	98.26%
66.0	17.118	1.755	1682.853	0.09%	98.36%
67.0	16.291	1.680	1684.533	0.09%	98.46%
68.0	15.479	1.609	1686.142	0.09%	98.55%
69.0	14.755	1.542	1687.685	0.08%	98.64%
70.0	14.126	1.483	1689.168	0.08%	98.73%
71.0	13.555	1.431	1690.599	0.08%	98.81%
72.0	12.992	1.380	1691.979	0.07%	98.89%
73.0	12.473	1.332	1693.311	0.07%	98.97%
74.0	12.041	1.289	1694.599	0.07%	99.05%
75.0	11.602	1.249	1695.848	0.07%	99.12%

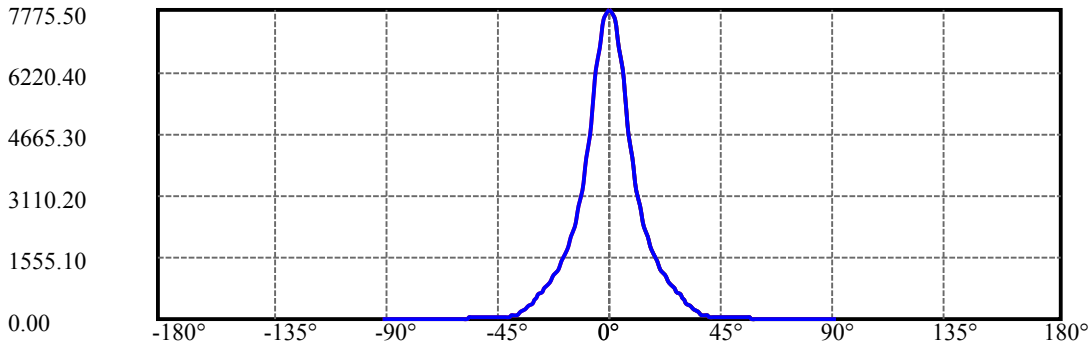
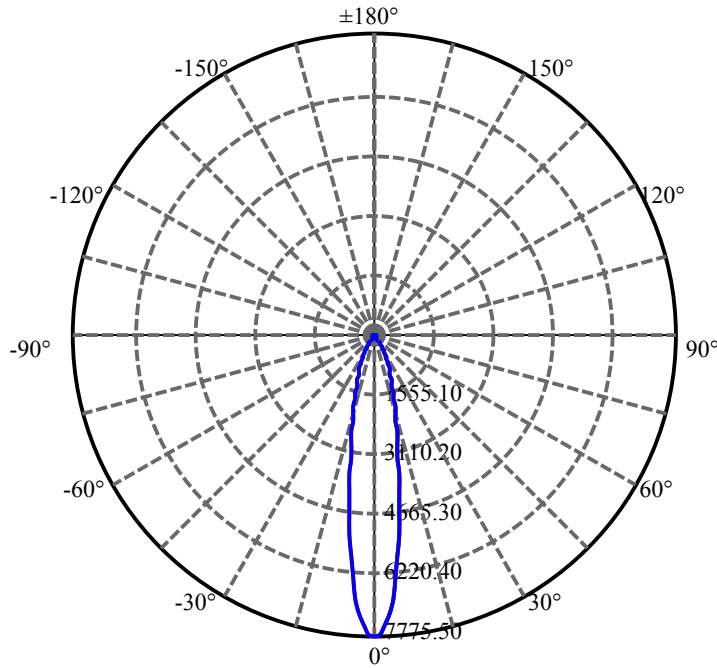
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.229	1.212	1697.06	0.06%	99.19%
77.0	10.893	1.179	1698.24	0.06%	99.26%
78.0	10.541	1.147	1699.387	0.06%	99.33%
79.0	10.212	1.115	1700.502	0.06%	99.39%
80.0	9.920	1.085	1701.588	0.06%	99.46%
81.0	9.612	1.056	1702.644	0.06%	99.52%
82.0	9.356	1.029	1703.673	0.06%	99.58%
83.0	9.049	1.001	1704.673	0.05%	99.64%
84.0	8.786	0.972	1705.645	0.05%	99.69%
85.0	8.500	0.943	1706.588	0.05%	99.75%
86.0	8.193	0.912	1707.501	0.05%	99.80%
87.0	7.893	0.880	1708.381	0.05%	99.85%
88.0	7.688	0.854	1709.235	0.05%	99.90%
89.0	7.557	0.836	1710.07	0.04%	99.95%
90.0	7.462	0.823	1710.894	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1484.44	79.47%	86.76%
0-40	1613.12	86.36%	94.29%
0-60	1671.29	89.47%	97.69%
0-90	1710.07	91.55%	99.95%
0-120	1710.07	91.55%	99.95%
0-180	1710.89	91.59%	100.00%
60-90	38.78	2.08%	2.27%
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%
0-26.25	1368.72	73.27%	80.00%

ZONAL LUMEN SUMMARY

0-10	508.45
10-20	592.84
20-30	383.15
30-40	128.68
40-50	35.24
50-60	22.93
60-70	17.87
70-80	12.42
80-90	8.48
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



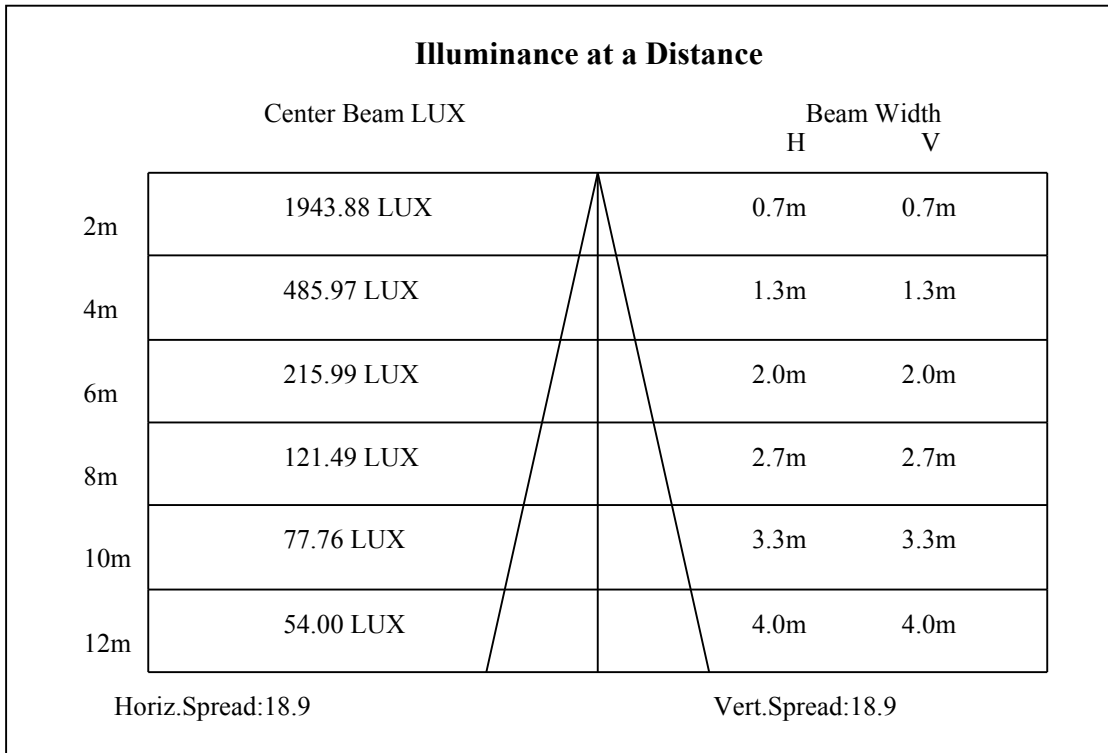
C0(Max): —————

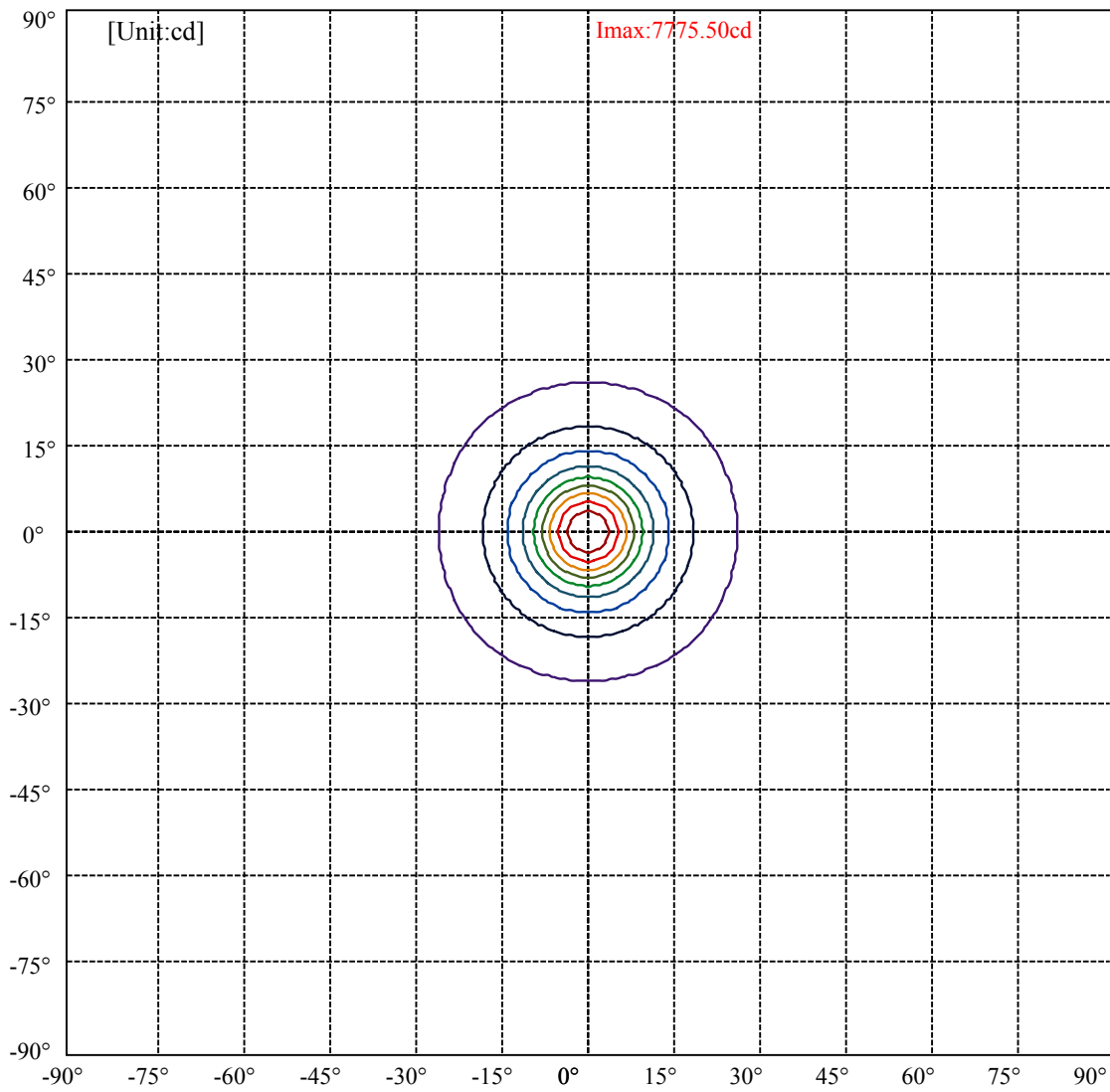
C0/C180: —————

C90/C270: —————

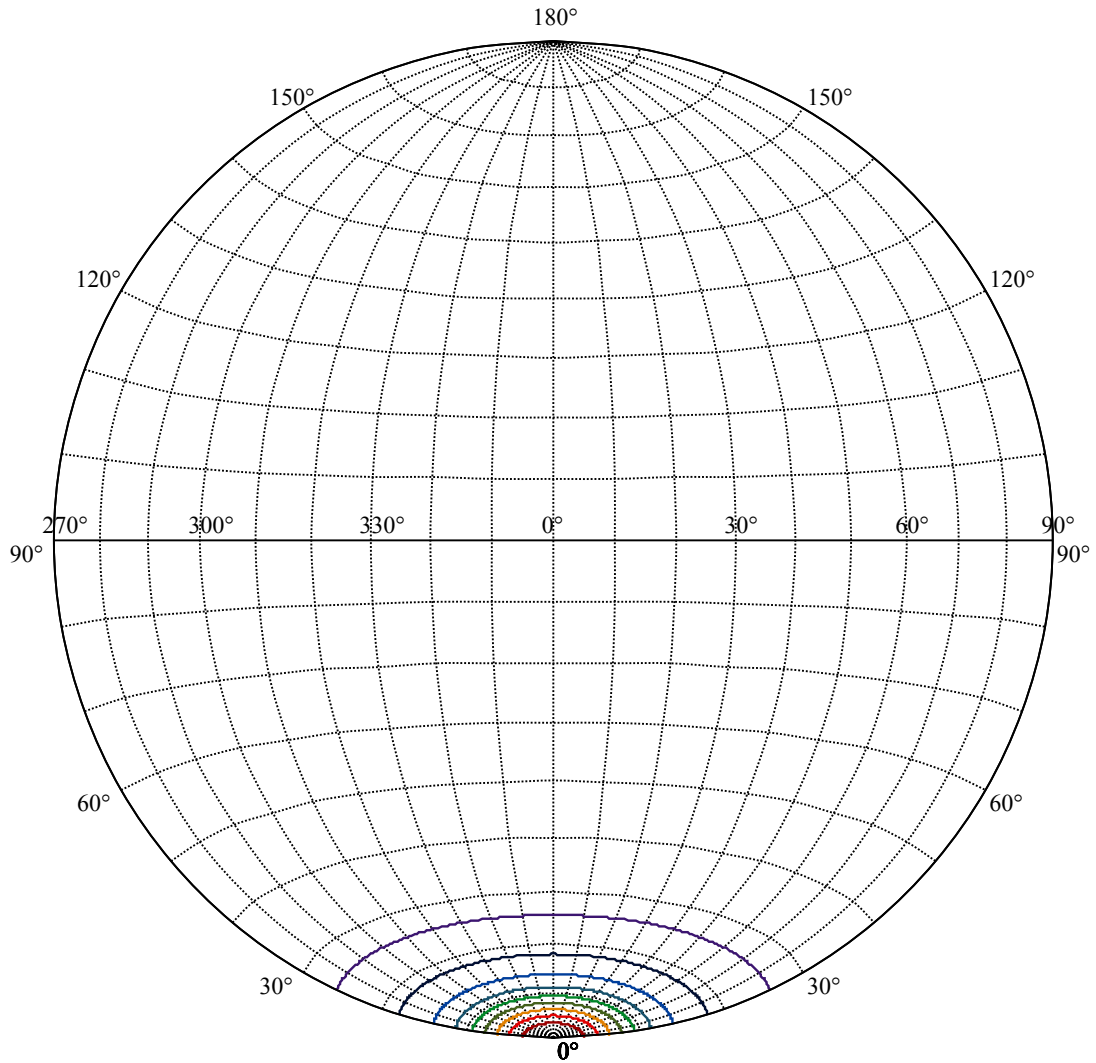
Field angle(10%Imax):C0/180Left:25.7 Right:25.7
:C90/270Left:25.7 Right:25.7

Beam Angle(50%Imax):C0/180Left:9.4 Right:9.4
:C90/270Left:9.4 Right:9.4





(10%Imax) 777.55	—
(20%Imax) 1555.1	—
(30%Imax) 2332.65	—
(40%Imax) 3110.2	—
(50%Imax) 3887.75	—
(60%Imax) 4665.3	—
(70%Imax) 5442.85	—
(80%Imax) 6220.4	—
(90%Imax) 6997.95	—



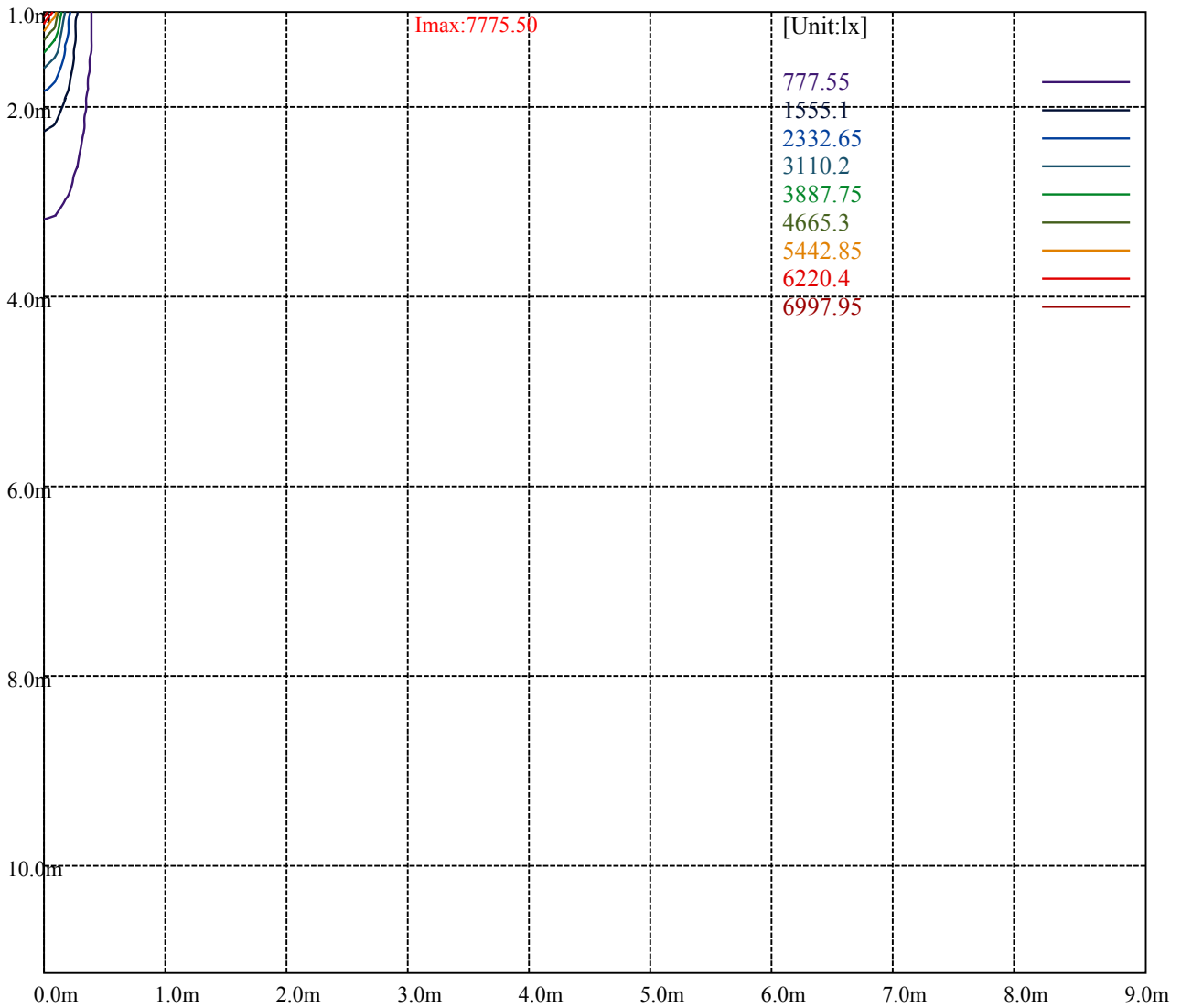
House

[Unit:cd]

Road

Imax:7775.50

(10%Imax)	777.55	—
(20%Imax)	1555.1	—
(30%Imax)	2332.65	—
(40%Imax)	3110.2	—
(50%Imax)	3887.75	—
(60%Imax)	4665.3	—
(70%Imax)	5442.85	—
(80%Imax)	6220.4	—
(90%Imax)	6997.95	—



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

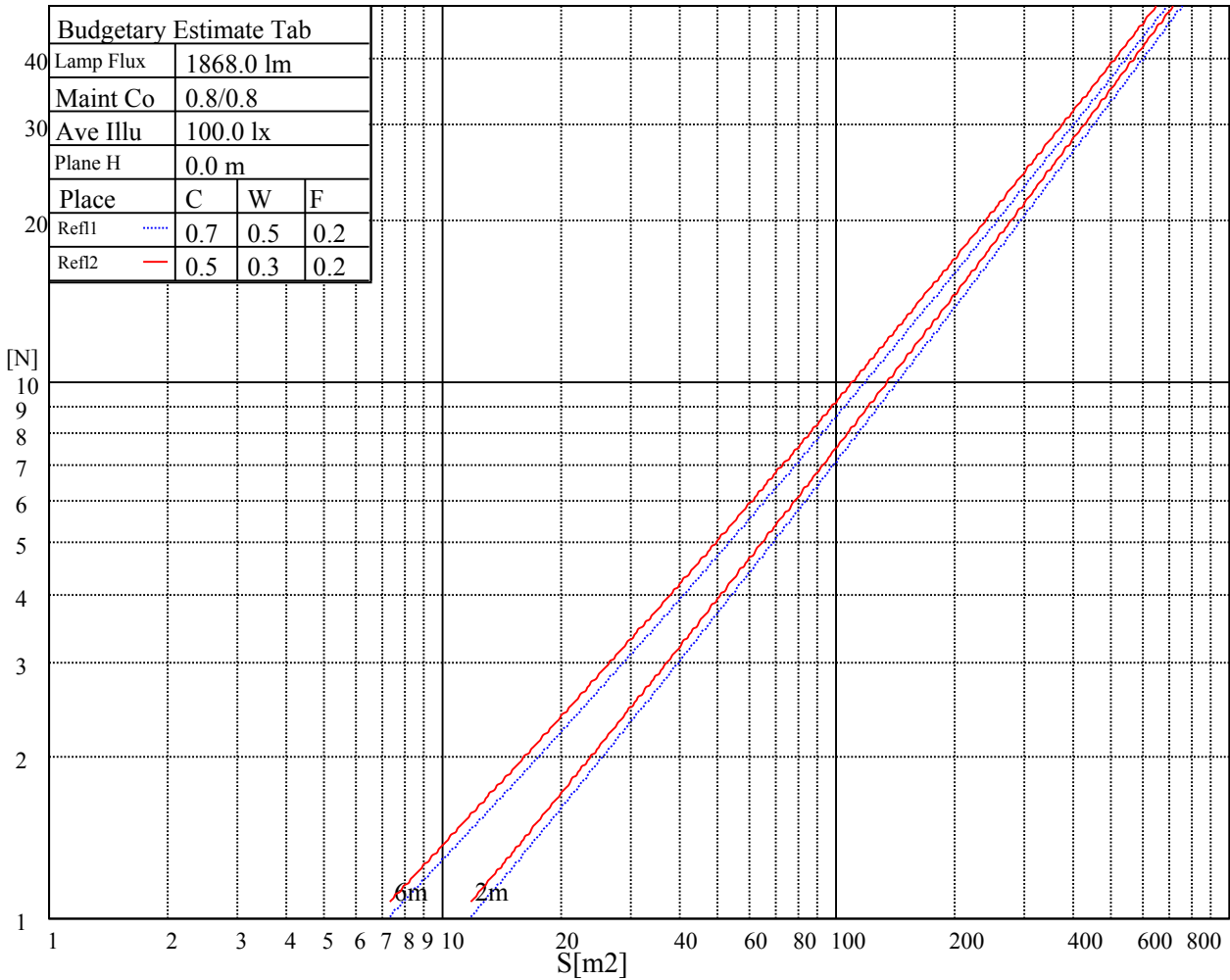
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

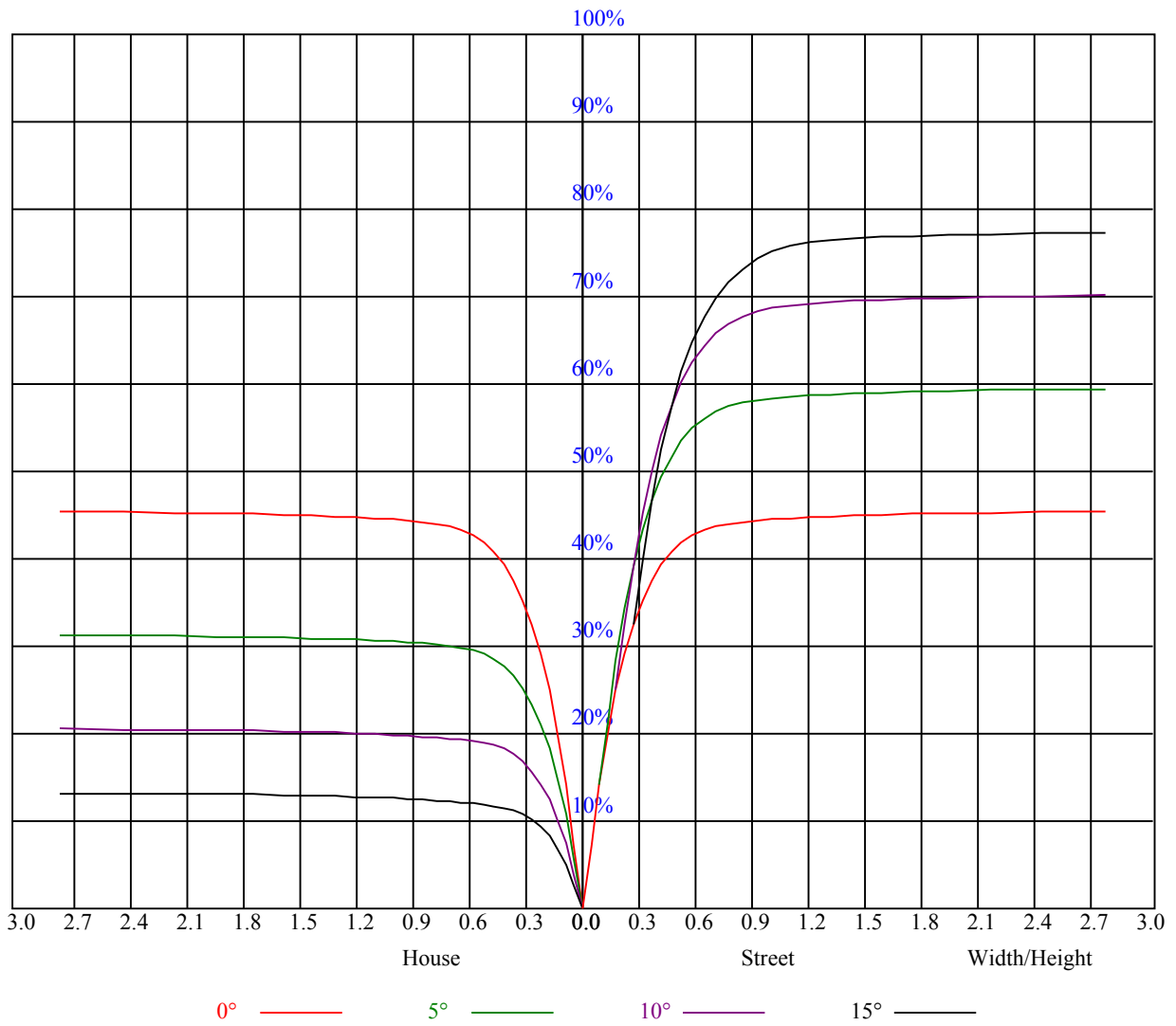


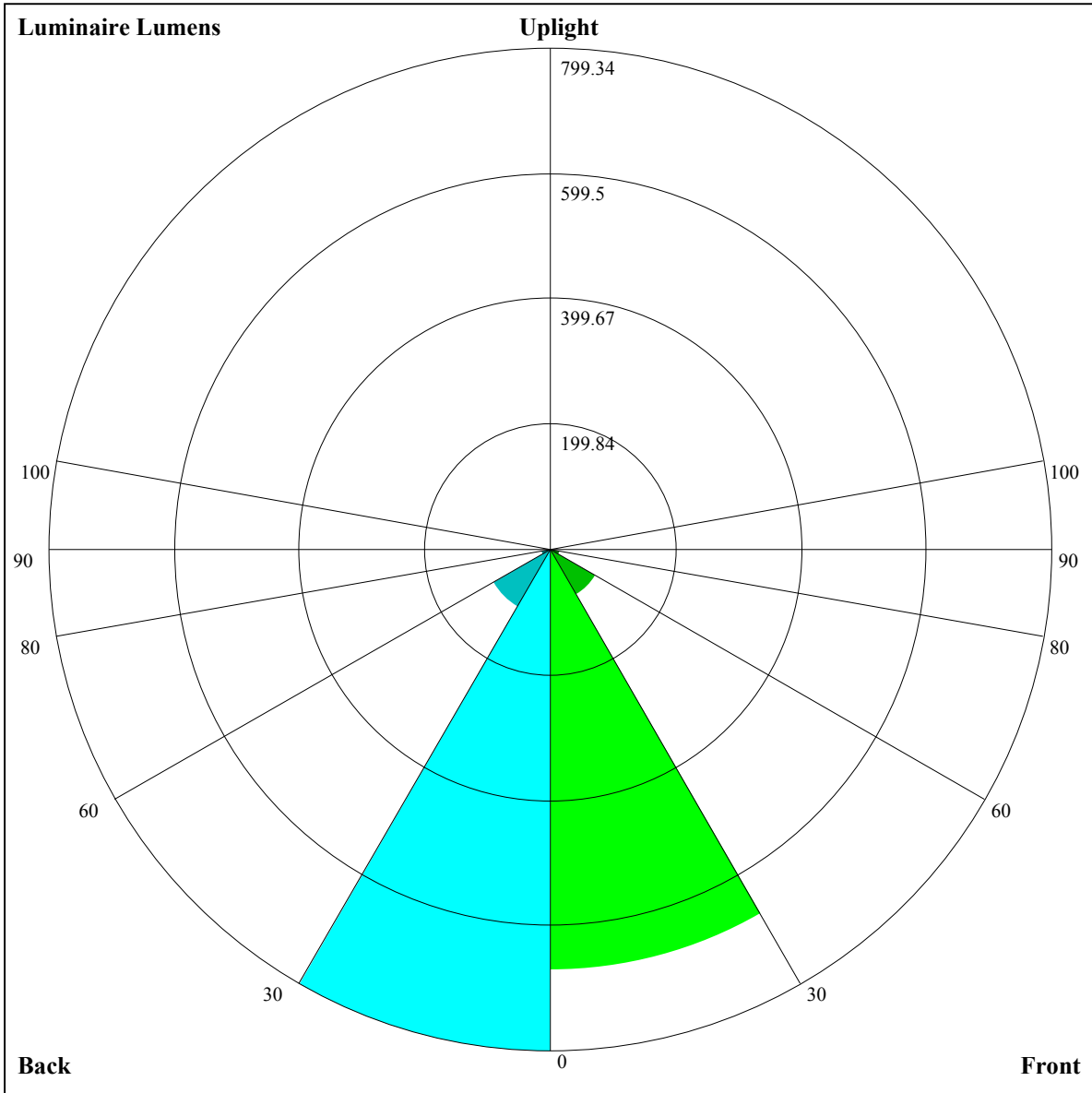
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.09	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	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.87	0.85	0.84	0.83
3	0.91	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.77	0.81	0.78	0.77	0.75
5	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.73	0.70	0.69
7	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
8	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
10	0.69	0.64	0.62	0.68	0.64	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60





Luminaire Lumens:

FL=670.69,FM=82.93,FH=15.12,FVH=4.57

BL=799.34,BM=104.64,BH=15.57,BVH=4.74

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	7639.00	7255.09	6686.84	6175.35	5624.07	4941.70	4425.53	3955.59	3543.60
45.0	7896.50	7803.45	7577.55	7154.43	6732.49	6253.19	5726.49	5035.33	4507.46
90.0	7916.40	7885.38	7693.43	7394.96	7002.86	6534.10	5866.94	5303.37	4743.31
135.0	7650.12	7993.65	8144.05	8169.80	8043.98	7705.72	7295.47	6789.25	6209.30
180.0	7639.00	7981.36	8125.32	8110.11	7950.93	7565.26	7129.85	6602.57	6001.54
225.0	7896.50	7878.36	7674.11	7373.89	6836.66	6283.03	5713.61	4958.67	4385.15
270.0	7916.40	7816.32	7577.55	7148.58	6701.47	6192.32	5487.13	4911.27	4223.63
315.0	7650.12	7234.02	6752.38	6095.76	5521.07	4804.17	4266.35	3784.71	3373.88
360.0	7639.00	7255.09	6686.84	6175.35	5624.07	4941.70	4425.53	3955.59	3543.60
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3125.75	2845.42	2600.21	2370.80	2125.01	1954.71	1796.11	1623.47	1495.31
45.0	4003.00	3466.35	3107.60	2800.95	2473.22	2257.27	2062.98	1855.81	1705.40
90.0	4079.66	3635.48	3246.30	2836.64	2567.44	2331.59	2074.10	1890.34	1727.64
135.0	5466.65	4869.13	4322.53	3712.73	3296.63	2960.13	2617.18	2383.09	2133.20
180.0	5248.94	4663.72	4135.84	3558.81	3169.64	2848.93	2525.89	2309.94	2112.14
225.0	3877.76	3341.69	2989.39	2696.78	2457.42	2202.26	2024.35	1860.49	1711.26
270.0	3743.74	3324.72	2971.83	2608.99	2361.44	2140.81	1946.52	1739.35	1588.94
315.0	2957.20	2672.20	2428.16	2215.72	1978.70	1820.11	1678.48	1516.38	1401.67
360.0	3125.75	2845.42	2600.21	2370.80	2125.01	1954.71	1796.11	1623.47	1495.31
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1280.53	1146.57	1146.57	1047.55	930.74	849.92	778.88	694.43	626.19
45.0	1581.34	1463.12	1333.79	1238.39	1142.42	1051.12	942.86	866.19	805.33
90.0	1580.75	1413.38	1150.73	1150.73	1073.65	949.47	858.76	781.16	695.36
135.0	1965.24	1810.16	1674.39	1519.89	1401.67	1294.58	1188.65	1059.90	965.09
180.0	1900.28	1744.03	1601.23	1450.83	1342.56	1227.28	1130.71	1008.40	923.54
225.0	1545.64	1425.08	1157.28	1157.28	1085.53	976.10	894.93	827.45	759.21
270.0	1459.61	1342.56	1207.38	1112.57	999.62	910.67	832.83	736.86	675.41
315.0	1143.82	1143.82	1072.72	985.99	882.69	818.09	757.92	688.99	598.86
360.0	1280.53	1146.57	1146.57	1047.55	930.74	849.92	778.88	694.43	626.19
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	554.09	484.62	403.22	340.89	280.26	224.78	163.16	125.12	93.58
45.0	725.74	656.68	567.73	499.26	433.71	352.95	306.72	306.72	182.36
90.0	629.41	548.59	485.33	425.46	357.40	305.96	258.73	216.77	172.17
135.0	878.48	805.33	714.62	642.05	554.85	485.21	420.84	343.59	299.11
180.0	852.15	788.36	706.43	631.52	547.24	477.60	405.03	326.03	310.23
225.0	671.19	597.92	527.40	459.93	377.88	315.32	257.50	205.18	151.40
270.0	606.35	527.93	464.73	401.52	347.10	306.72	306.72	176.85	141.57
315.0	527.64	459.28	377.59	315.44	257.21	202.78	144.78	111.60	91.00
360.0	554.09	484.62	403.22	340.89	280.26	224.78	163.16	125.12	93.58
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	80.23	72.22	64.08	58.52	53.78	49.69	45.47	42.37	39.56
45.0	141.98	107.74	91.76	81.76	73.80	65.19	59.58	54.78	49.45
90.0	142.62	120.26	104.35	90.83	82.46	75.08	67.24	61.98	57.59
135.0	299.11	174.51	125.71	101.13	86.20	76.96	67.18	60.28	54.37
180.0	310.23	157.37	123.25	97.26	85.09	75.03	66.48	57.76	51.85
225.0	120.61	96.62	84.57	74.50	63.91	56.94	51.15	46.47	41.55
270.0	108.85	93.05	84.27	76.96	68.65	62.97	57.06	53.14	49.33
315.0	78.54	71.46	64.84	58.76	52.32	48.16	44.42	40.32	37.40
360.0	80.23	72.22	64.08	58.52	53.78	49.69	45.47	42.37	39.56

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	37.04	34.47	32.71	30.84	29.55	28.38	27.45	26.63	25.93
45.0	45.76	42.43	38.86	36.34	33.71	31.84	30.26	28.85	27.39
90.0	52.55	49.04	46.12	43.01	40.67	38.86	37.45	35.99	34.53
135.0	49.45	44.18	40.44	36.64	33.88	31.49	28.97	27.39	26.04
180.0	46.94	41.84	38.51	35.58	32.60	30.61	28.32	27.04	25.81
225.0	38.22	35.23	32.83	30.37	28.62	27.10	25.75	24.35	23.53
270.0	45.12	42.31	39.85	37.69	35.17	33.30	31.78	30.55	28.91
315.0	34.35	32.13	30.20	28.44	27.15	25.87	24.99	24.05	23.35
360.0	37.04	34.47	32.71	30.84	29.55	28.38	27.45	26.63	25.93
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.22	24.87	24.58	24.23	23.70	23.00	22.36	21.42	20.54
45.0	26.39	25.40	24.58	23.70	23.17	22.59	21.89	21.24	20.60
90.0	33.12	31.95	30.55	29.73	28.85	27.62	26.57	25.40	24.46
135.0	24.99	23.82	23.12	22.53	22.00	21.48	21.36	21.19	20.72
180.0	24.81	23.76	23.17	22.65	22.12	21.65	21.30	21.01	20.60
225.0	22.71	22.12	21.48	21.13	20.78	20.19	19.78	19.43	18.67
270.0	28.15	27.21	26.16	25.52	24.70	24.23	23.70	22.71	21.30
315.0	22.65	22.30	22.06	21.71	21.24	20.60	19.90	19.02	18.08
360.0	25.22	24.87	24.58	24.23	23.70	23.00	22.36	21.42	20.54
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.37	18.38	17.62	16.62	15.80	14.92	14.28	13.69	13.11
45.0	19.37	18.67	17.85	16.68	15.98	15.33	14.69	13.93	13.52
90.0	23.35	22.30	20.89	19.72	18.61	17.62	16.50	15.74	15.04
135.0	20.37	19.96	19.02	18.20	17.21	16.33	15.57	14.86	14.10
180.0	20.25	19.78	18.84	18.26	17.44	16.44	15.74	15.10	14.46
225.0	18.02	17.09	16.33	15.57	14.92	14.22	13.64	13.11	12.76
270.0	20.19	19.31	18.32	17.03	16.15	15.27	14.51	13.93	13.23
315.0	17.32	16.44	15.57	14.86	14.22	13.69	13.11	12.64	12.23
360.0	19.37	18.38	17.62	16.62	15.80	14.92	14.28	13.69	13.11
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.47	12.00	11.65	11.18	10.89	10.65	10.36	10.07	9.71
45.0	12.99	12.58	12.06	11.65	11.29	10.89	10.59	10.18	9.89
90.0	14.40	13.52	12.93	12.29	11.94	11.53	11.06	10.71	10.36
135.0	13.52	13.05	12.70	12.17	11.82	11.53	11.12	10.77	10.48
180.0	13.75	13.28	12.76	12.35	11.82	11.47	11.12	10.83	10.53
225.0	12.35	11.88	11.53	11.18	10.83	10.48	10.18	9.89	9.60
270.0	12.64	12.11	11.70	11.29	10.89	10.59	10.24	9.89	9.60
315.0	11.82	11.35	11.00	10.71	10.36	10.01	9.66	9.36	9.19
360.0	12.47	12.00	11.65	11.18	10.89	10.65	10.36	10.07	9.71
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.48	9.25	9.01	8.78	8.43	8.02	7.61	7.37	7.32
45.0	9.60	9.25	8.95	8.72	8.49	8.19	7.84	7.67	7.43
90.0	9.95	9.71	9.31	8.90	8.60	8.25	7.96	7.67	7.55
135.0	10.18	9.95	9.60	9.31	9.01	8.72	8.37	8.08	7.90
180.0	10.18	9.95	9.66	9.36	9.13	8.78	8.54	8.31	8.08
225.0	9.31	9.01	8.72	8.54	8.25	7.96	7.72	7.61	7.43
270.0	9.31	9.01	8.66	8.43	8.13	7.90	7.61	7.43	7.37
315.0	8.90	8.72	8.49	8.25	7.96	7.72	7.49	7.37	7.37
360.0	9.48	9.25	9.01	8.78	8.43	8.02	7.61	7.37	7.32

Intensity data(cd)

C/γ(°)	90.0
0.0	7.32
45.0	7.32
90.0	7.43
135.0	7.72
180.0	7.90
225.0	7.32
270.0	7.32
315.0	7.37
360.0	7.32