



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: 2024803-B019

Ballast type: AC

Test No: 2024803-C019

Voltage(V): 34.440

LampCAT: Fortimo_SLM_C_1204

Current(A): 0.288

Lamp flux(lm): 1684.0

Power (W): 9.918

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1549.71, Efficiency(%): 92.03% , Luminous Efficacy(lm/W): 156.25

Central intensity(cd): 7452.753, Maximum intensity(cd): 7452.753

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.4

[C90/270]Total=18.4

Field angle(10%Imax): [C0/180]Total=50.2

[C90/270]Total=50.2

Maximum s/h(1/2): C0_180=0.31 C90_270=0.31

Maximum s/h(1/4): C0_180=0.36 C90_270=0.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.03%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.936%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/3
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	7452.753	0.000	0	0.00%	0.00%
1.0	7375.722	7.095	7.095	0.42%	0.46%
2.0	7177.185	20.888	27.983	1.24%	1.81%
3.0	6855.604	33.562	61.545	1.99%	3.97%
4.0	6456.626	44.560	106.105	2.65%	6.85%
5.0	5957.430	53.405	159.51	3.17%	10.29%
6.0	5407.611	59.726	219.236	3.55%	14.15%
7.0	4859.694	63.729	282.965	3.78%	18.26%
8.0	4328.895	65.761	348.726	3.91%	22.50%
9.0	3819.164	66.036	414.761	3.92%	26.76%
10.0	3374.466	65.100	479.861	3.87%	30.96%
11.0	2993.411	63.628	543.489	3.78%	35.07%
12.0	2643.886	61.624	605.113	3.66%	39.05%
13.0	2351.493	59.283	664.396	3.52%	42.87%
14.0	2114.842	57.169	721.564	3.39%	46.56%
15.0	1910.745	55.265	776.829	3.28%	50.13%
16.0	1719.450	53.193	830.022	3.16%	53.56%
17.0	1527.371	50.562	880.584	3.00%	56.82%
18.0	1396.669	48.211	928.795	2.86%	59.93%
19.0	1268.512	46.369	975.163	2.75%	62.93%
20.0	1180.062	44.816	1019.979	2.66%	65.82%
21.0	1087.575	43.543	1063.522	2.59%	68.63%
22.0	995.951	41.869	1105.392	2.49%	71.33%
23.0	909.988	39.992	1145.383	2.37%	73.91%
24.0	833.631	38.122	1183.505	2.26%	76.37%
25.0	755.152	36.125	1219.631	2.15%	78.70%
26.0	683.843	33.968	1253.598	2.02%	80.89%
27.0	617.676	31.842	1285.44	1.89%	82.95%
28.0	549.087	29.540	1314.98	1.75%	84.85%
29.0	485.291	27.062	1342.042	1.61%	86.60%
30.0	420.865	24.466	1366.508	1.45%	88.18%
31.0	358.926	21.700	1388.209	1.29%	89.58%
32.0	304.983	19.020	1407.229	1.13%	90.81%
33.0	256.753	16.549	1423.778	0.98%	91.87%
34.0	213.695	14.237	1438.015	0.85%	92.79%
35.0	173.241	12.017	1450.032	0.71%	93.57%
36.0	130.286	9.664	1459.696	0.57%	94.19%
37.0	96.665	7.402	1467.098	0.44%	94.67%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	74.960	5.729	1472.827	0.34%	95.04%
39.0	58.552	4.557	1477.384	0.27%	95.33%
40.0	47.279	3.691	1481.075	0.22%	95.57%
41.0	39.159	3.078	1484.153	0.18%	95.77%
42.0	33.819	2.651	1486.804	0.16%	95.94%
43.0	29.854	2.359	1489.163	0.14%	96.09%
44.0	27.257	2.156	1491.318	0.13%	96.23%
45.0	25.216	2.017	1493.335	0.12%	96.36%
46.0	23.497	1.905	1495.24	0.11%	96.49%
47.0	22.151	1.816	1497.056	0.11%	96.60%
48.0	21.046	1.746	1498.802	0.10%	96.72%
49.0	20.037	1.687	1500.489	0.10%	96.82%
50.0	19.254	1.638	1502.127	0.10%	96.93%
51.0	18.603	1.602	1503.729	0.10%	97.03%
52.0	18.076	1.574	1505.303	0.09%	97.13%
53.0	17.645	1.554	1506.856	0.09%	97.23%
54.0	17.359	1.543	1508.399	0.09%	97.33%
55.0	17.140	1.540	1509.939	0.09%	97.43%
56.0	17.008	1.543	1511.482	0.09%	97.53%
57.0	16.920	1.551	1513.034	0.09%	97.63%
58.0	16.818	1.560	1514.594	0.09%	97.73%
59.0	16.657	1.565	1516.159	0.09%	97.84%
60.0	16.496	1.566	1517.725	0.09%	97.94%
61.0	16.203	1.560	1519.285	0.09%	98.04%
62.0	15.772	1.541	1520.826	0.09%	98.14%
63.0	15.230	1.508	1522.334	0.09%	98.23%
64.0	14.645	1.466	1523.8	0.09%	98.33%
65.0	13.965	1.416	1525.216	0.08%	98.42%
66.0	13.277	1.359	1526.575	0.08%	98.51%
67.0	12.663	1.304	1527.879	0.08%	98.59%
68.0	12.041	1.251	1529.131	0.07%	98.67%
69.0	11.544	1.203	1530.334	0.07%	98.75%
70.0	11.090	1.162	1531.496	0.07%	98.82%
71.0	10.658	1.124	1532.621	0.07%	98.90%
72.0	10.285	1.089	1533.71	0.06%	98.97%
73.0	9.971	1.059	1534.769	0.06%	99.04%
74.0	9.678	1.033	1535.802	0.06%	99.10%
75.0	9.400	1.008	1536.81	0.06%	99.17%

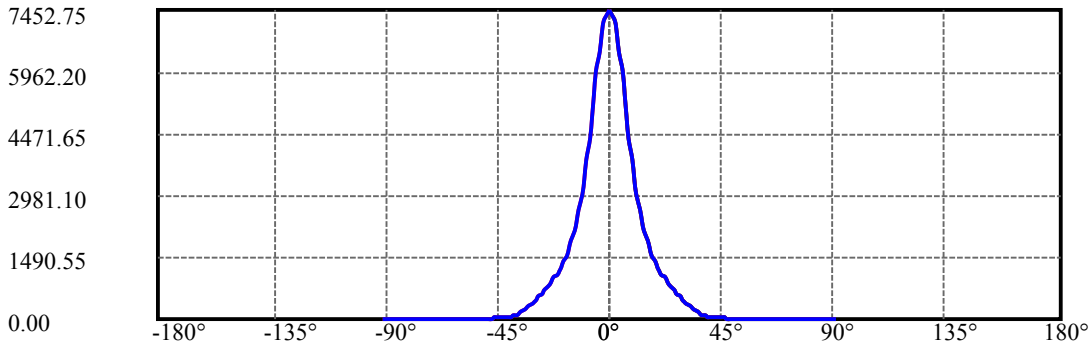
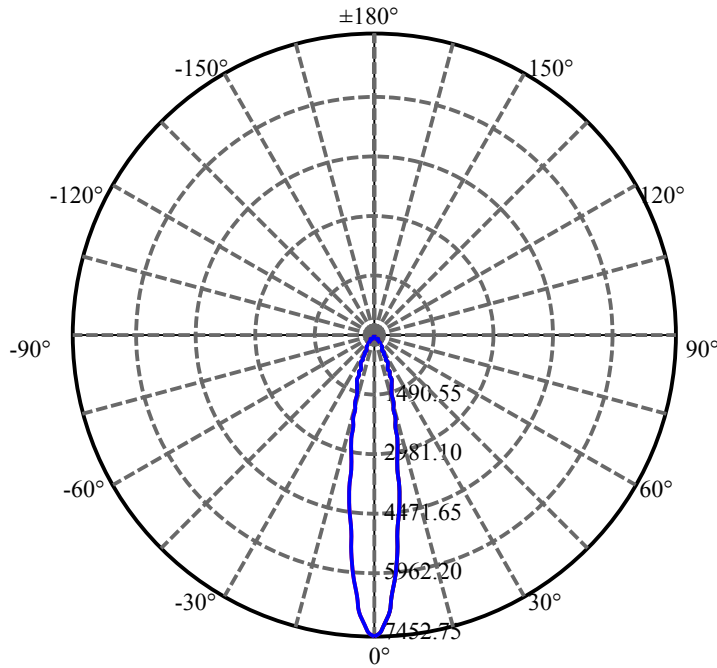
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.166	0.986	1537.795	0.06%	99.23%
77.0	8.947	0.966	1538.761	0.06%	99.29%
78.0	8.749	0.947	1539.708	0.06%	99.35%
79.0	8.552	0.930	1540.638	0.06%	99.41%
80.0	8.354	0.911	1541.549	0.05%	99.47%
81.0	8.179	0.894	1542.443	0.05%	99.53%
82.0	8.025	0.879	1543.322	0.05%	99.59%
83.0	7.842	0.863	1544.185	0.05%	99.64%
84.0	7.688	0.846	1545.031	0.05%	99.70%
85.0	7.506	0.829	1545.86	0.05%	99.75%
86.0	7.249	0.807	1546.666	0.05%	99.80%
87.0	7.030	0.781	1547.448	0.05%	99.85%
88.0	6.891	0.763	1548.211	0.05%	99.90%
89.0	6.825	0.752	1548.962	0.04%	99.95%
90.0	6.781	0.746	1549.708	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1366.51	81.15%	88.18%
0-40	1481.07	87.95%	95.57%
0-60	1517.72	90.13%	97.94%
0-90	1548.96	91.98%	99.95%
0-120	1548.96	91.98%	99.95%
0-180	1549.71	92.03%	100.00%
60-90	31.24	1.85%	2.02%
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%
0-25.59	1239.77	73.62%	80.00%

ZONAL LUMEN SUMMARY

0-10	479.86
10-20	540.12
20-30	346.53
30-40	114.57
40-50	21.05
50-60	15.60
60-70	13.77
70-80	10.05
80-90	7.41
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



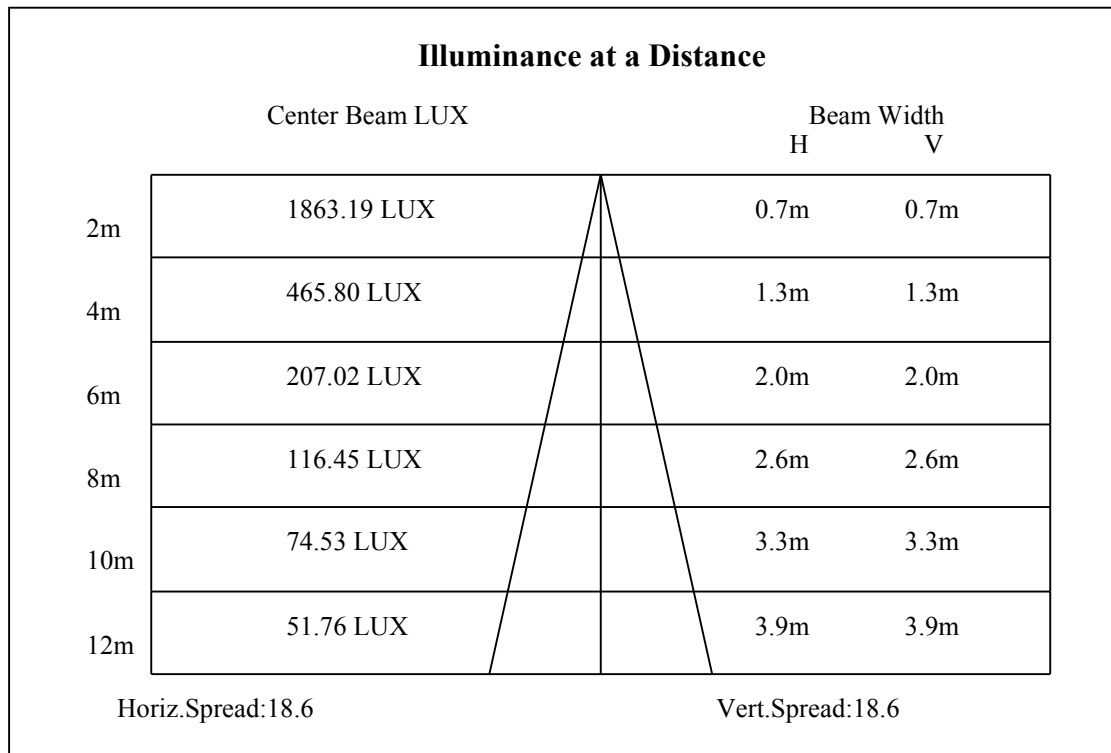
C0(Max): —————

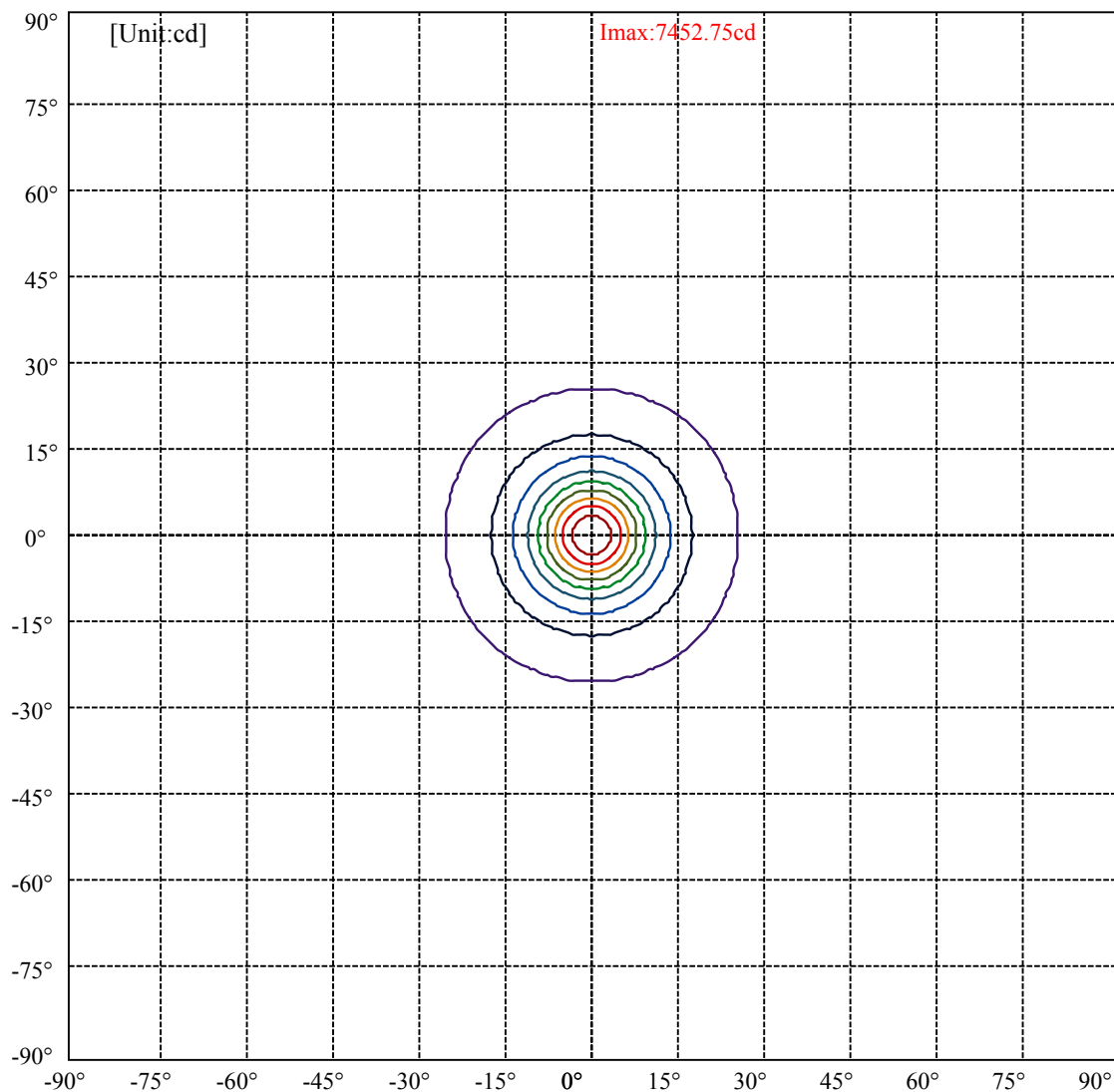
C0/C180: —————

C90/C270: —————

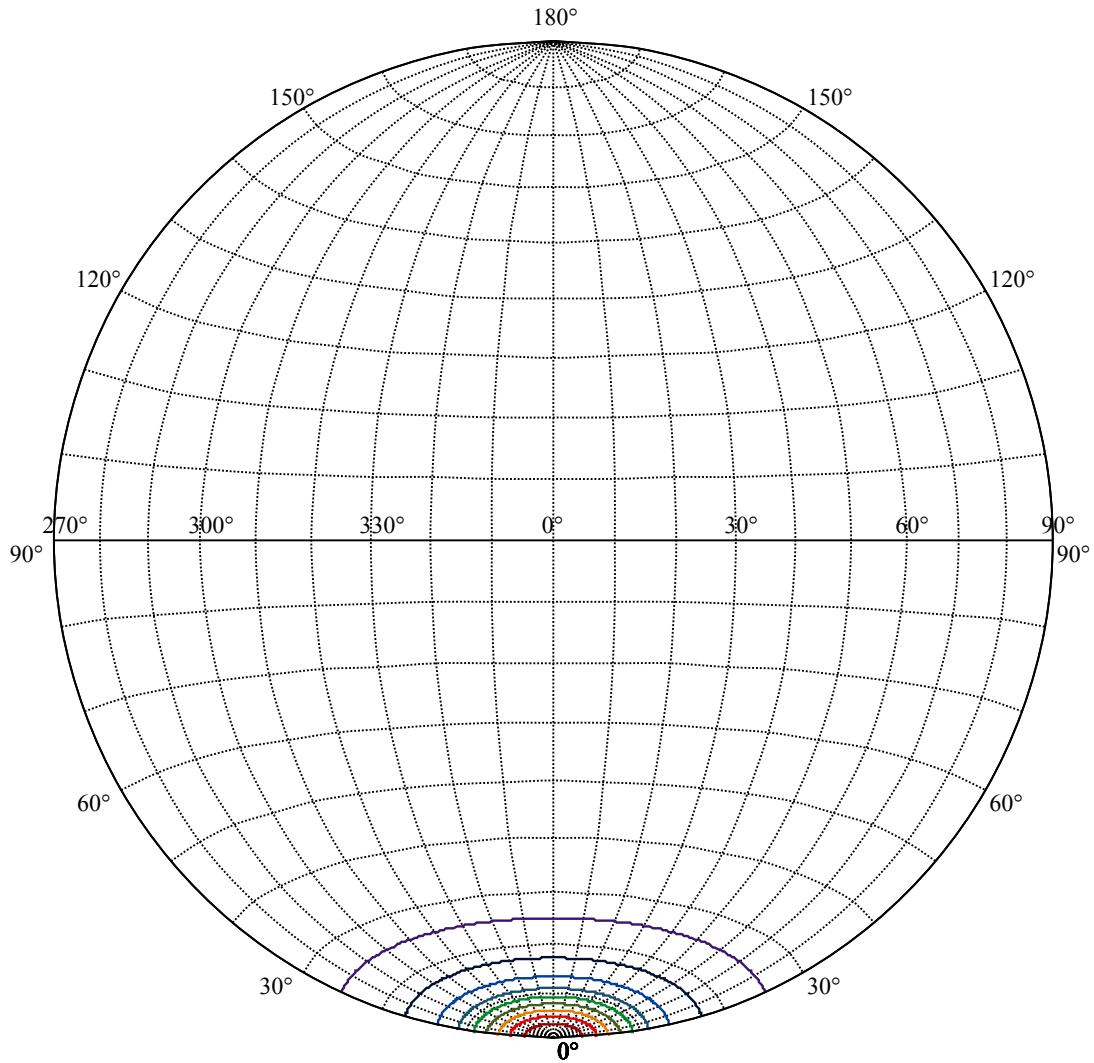
Field angle(10%Imax):C0/180Left:25.1 Right:25.1
:C90/270Left:25.1 Right:25.1

Beam Angle(50%Imax):C0/180Left:9.2 Right:9.2
:C90/270Left:9.2 Right:9.2





(10%Imax) 745.275	—
(20%Imax) 1490.55	—
(30%Imax) 2235.83	—
(40%Imax) 2981.1	—
(50%Imax) 3726.38	—
(60%Imax) 4471.65	—
(70%Imax) 5216.93	—
(80%Imax) 5962.2	—
(90%Imax) 6707.48	—



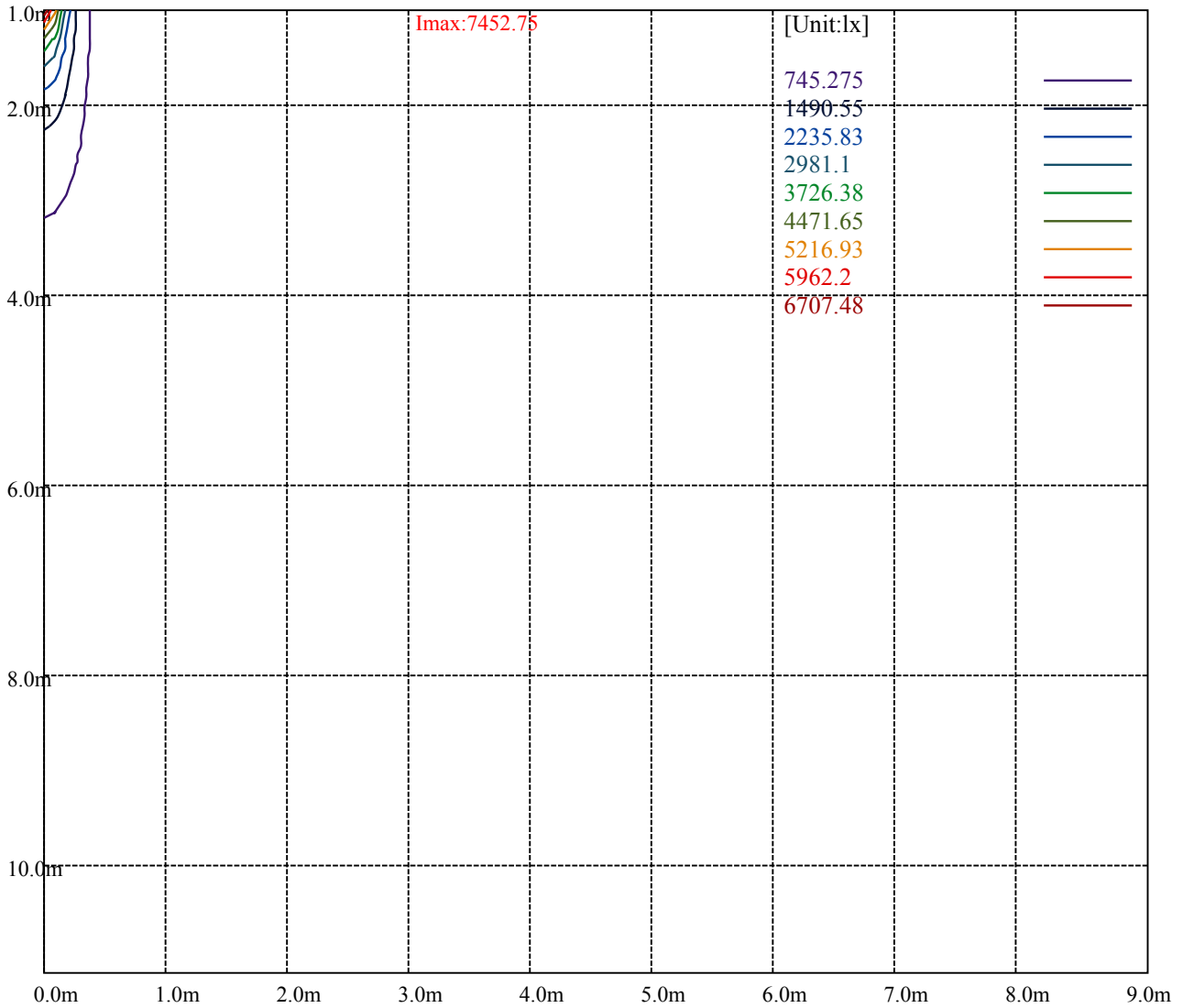
House

[Unit:cd]

Road

Imax:7452.75

(10%Imax)	745.275	—
(20%Imax)	1490.55	—
(30%Imax)	2235.83	—
(40%Imax)	2981.1	—
(50%Imax)	3726.38	—
(60%Imax)	4471.65	—
(70%Imax)	5216.93	—
(80%Imax)	5962.2	—
(90%Imax)	6707.48	—



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

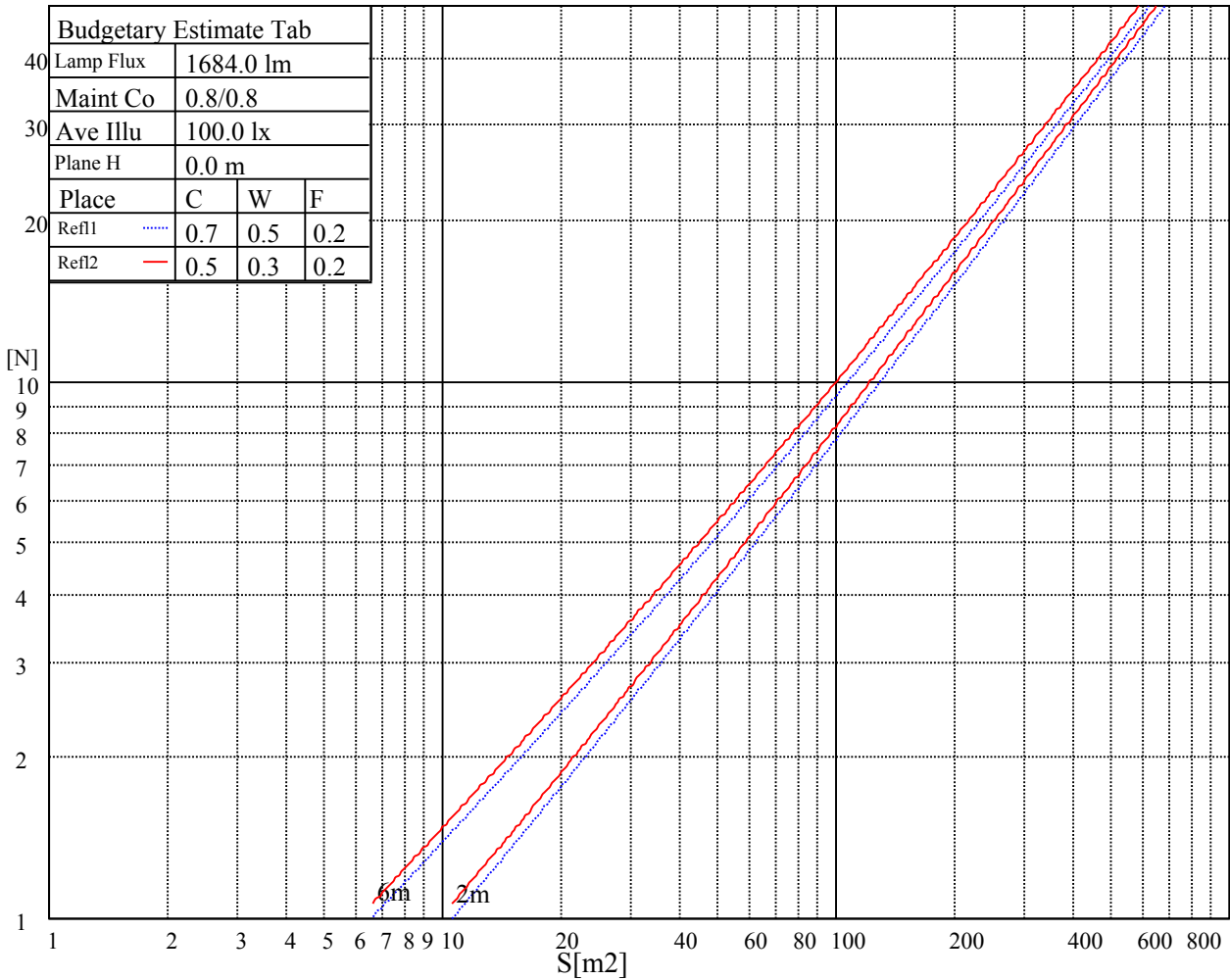
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

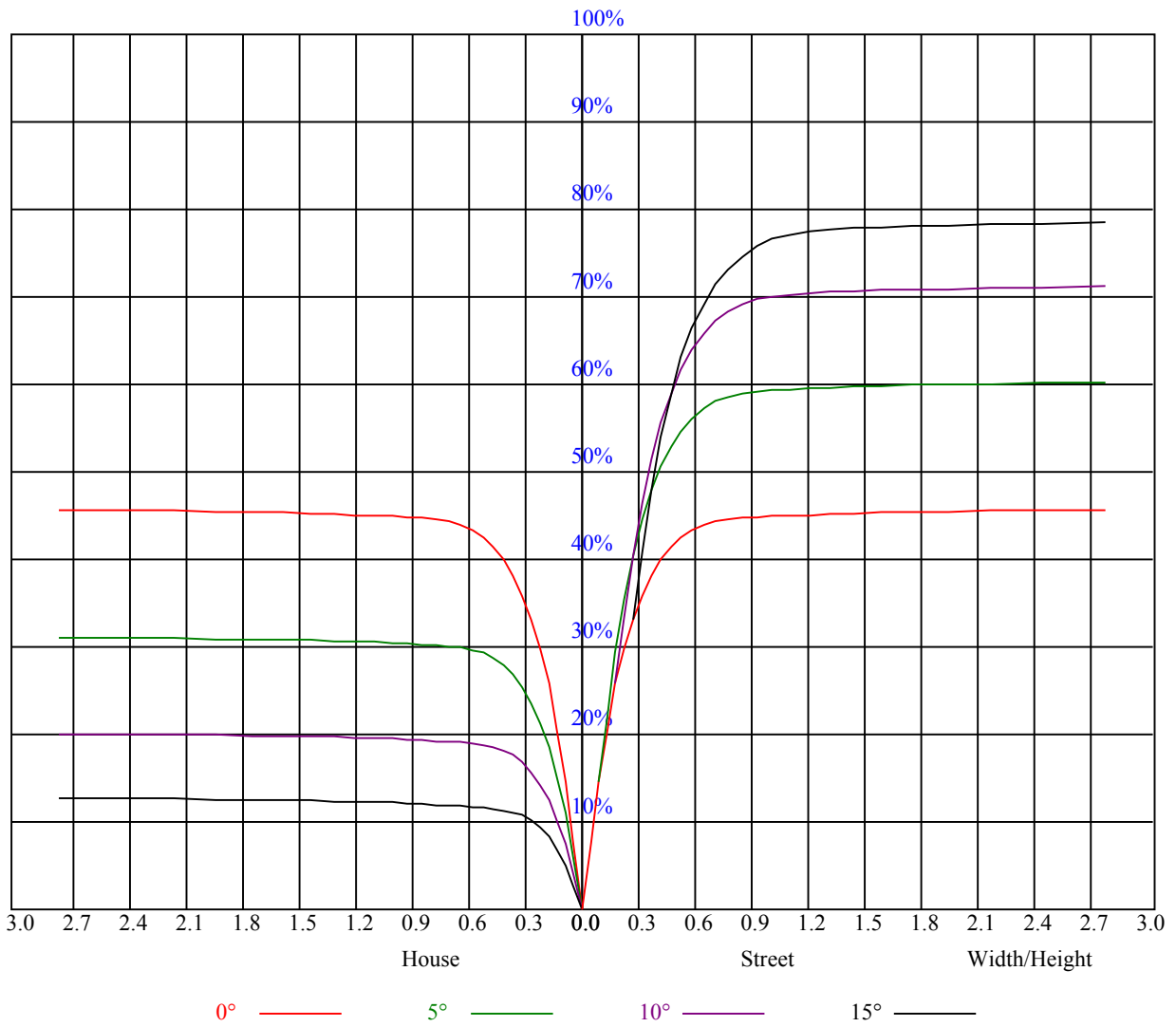


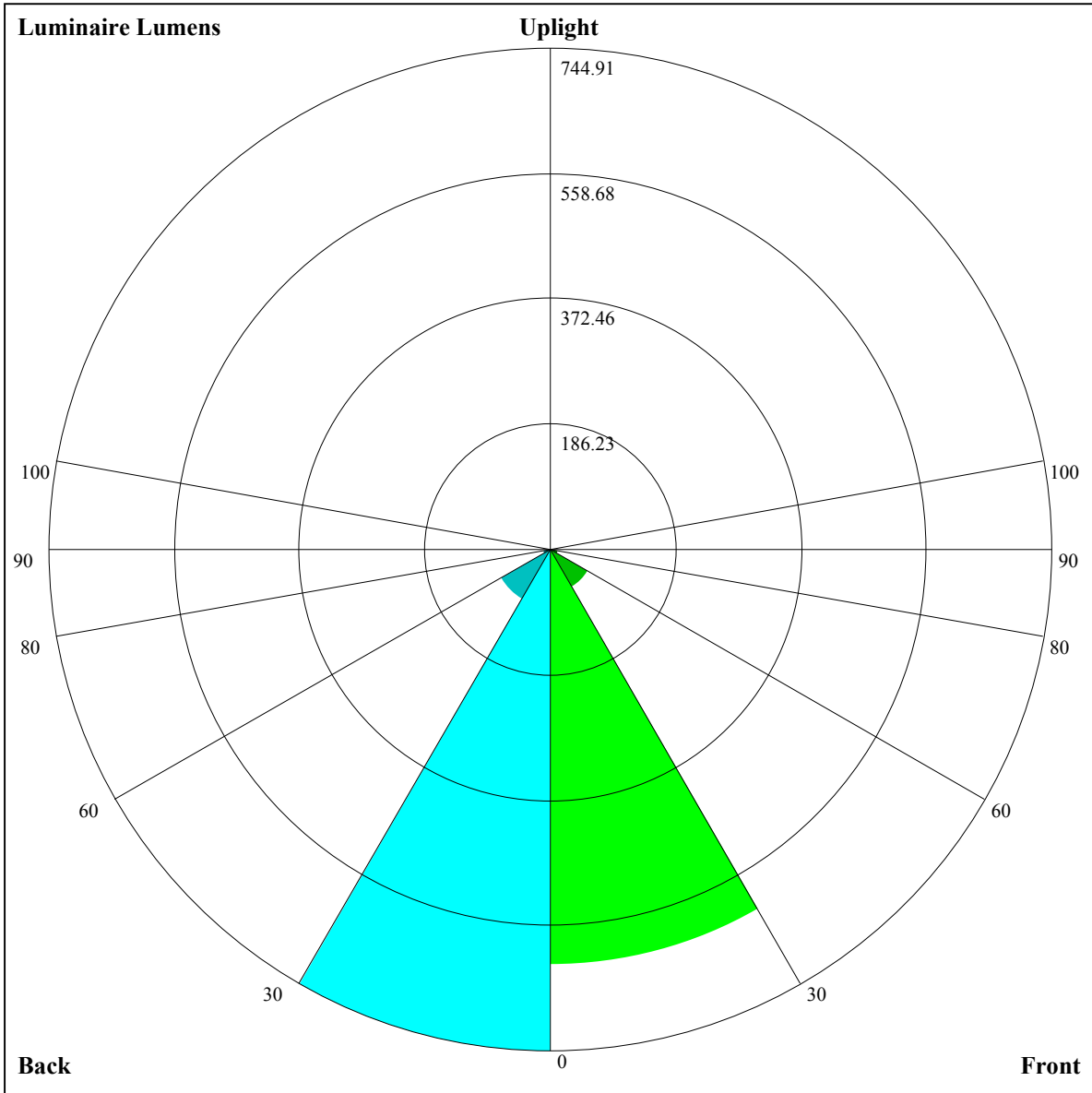
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.87	0.88	0.86	0.85	0.83
3	0.92	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.84	0.82	0.85	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.81	0.79	0.82	0.80	0.78	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.73
6	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.74	0.70	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62





Luminaire Lumens:

FL=616.16,FM=64.69,FH=11.53,FVH=3.99

BL=744.91,BM=86.51,BH=12.17,BVH=4.15

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	7343.46	6846.61	6383.11	5870.45	5346.09	4676.59	4182.66	3727.94	3317.70
45.0	7618.52	7421.88	7104.69	6585.01	6092.25	5556.77	5014.27	4369.93	3894.15
90.0	7499.72	7343.46	7006.37	6621.88	6164.82	5653.92	4998.47	4473.52	3862.54
135.0	7349.31	7574.04	7653.63	7579.89	7375.06	6937.90	6477.33	5958.82	5285.23
180.0	7343.46	7625.54	7800.52	7785.31	7623.78	7235.20	6795.69	6287.13	5732.92
225.0	7618.52	7658.90	7554.14	7324.15	6841.92	6369.65	5714.78	5144.19	4582.96
270.0	7499.72	7516.10	7396.72	7050.85	6691.52	6231.53	5727.66	5051.72	4526.77
315.0	7349.31	7019.25	6518.29	6027.29	5517.56	4997.88	4350.04	3864.30	3428.89
360.0	7343.46	6846.61	6383.11	5870.45	5346.09	4676.59	4182.66	3727.94	3317.70
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2881.71	2596.70	2342.13	2124.43	1886.24	1722.38	1536.27	1403.43	1157.81
45.0	3461.08	3085.36	2761.15	2419.96	2192.31	1947.10	1779.14	1625.81	1456.68
90.0	3433.57	3043.81	2641.76	2377.24	2152.52	1959.98	1749.88	1595.97	1462.54
135.0	4732.77	4201.39	3720.33	3196.56	2842.50	2551.05	2301.75	2038.98	1855.81
180.0	5026.56	4470.01	3948.57	3478.05	2985.29	2666.93	2397.73	2119.74	1924.86
225.0	4059.18	3485.66	3078.93	2741.84	2452.15	2163.64	1964.07	1789.68	1601.23
270.0	3916.97	3465.76	3068.39	2659.32	2391.87	2164.81	1967.58	1754.56	1606.50
315.0	3041.47	2647.03	2386.02	2153.69	1909.06	1742.86	1589.53	1427.42	1153.54
360.0	2881.71	2596.70	2342.13	2124.43	1886.24	1722.38	1536.27	1403.43	1157.81
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1157.81	1067.33	986.51	908.91	816.10	745.93	681.79	622.50	550.23
45.0	1343.15	1238.39	1118.42	1028.30	942.86	863.85	767.87	694.14	626.83
90.0	1163.08	1163.08	1117.66	1032.34	950.87	855.42	782.80	697.24	632.39
135.0	1661.51	1524.57	1402.84	1268.83	1174.02	1084.48	1000.79	901.31	829.32
180.0	1756.90	1561.44	1432.10	1295.75	1190.41	1099.70	1017.76	915.35	842.78
225.0	1464.29	1162.32	1162.32	1117.25	1029.06	930.98	857.30	787.13	722.05
270.0	1473.07	1345.49	1219.67	1128.37	1032.40	935.83	862.09	787.77	706.43
315.0	1153.54	1085.48	1000.97	920.85	831.90	763.72	698.64	635.79	560.70
360.0	1157.81	1067.33	986.51	908.91	816.10	745.93	681.79	622.50	550.23
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	491.24	431.31	371.56	301.92	252.35	196.81	158.83	126.35	93.46
45.0	561.87	484.62	426.69	371.68	308.47	297.35	244.16	175.33	143.50
90.0	568.84	490.89	429.96	371.09	299.81	249.89	205.12	165.56	122.90
135.0	757.34	690.62	610.45	550.76	488.72	410.30	351.78	295.60	295.60
180.0	773.73	707.60	639.71	563.04	500.43	438.98	364.65	308.47	295.01
225.0	643.69	582.53	521.67	459.99	385.49	328.31	274.41	215.89	173.75
270.0	643.81	565.97	503.94	441.32	381.04	308.47	295.01	295.01	166.85
315.0	500.89	439.15	378.35	307.13	255.10	209.74	160.06	127.34	94.86
360.0	491.24	431.31	371.56	301.92	252.35	196.81	158.83	126.35	93.46
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	73.33	58.17	44.65	37.28	32.48	29.20	26.10	24.29	22.82
45.0	116.11	88.19	70.81	57.41	47.81	39.97	35.70	32.48	29.90
90.0	95.68	74.73	59.17	45.82	39.03	34.00	29.85	27.56	24.99
135.0	186.22	139.75	109.14	84.57	66.07	50.68	42.19	36.46	32.60
180.0	234.32	155.38	113.71	86.79	66.13	51.27	41.08	33.12	29.03
225.0	137.06	99.49	76.31	55.65	44.13	36.28	31.19	27.27	25.11
270.0	124.24	97.32	76.61	61.27	47.93	40.44	35.29	30.84	28.38
315.0	75.32	60.28	49.28	39.62	34.65	31.43	29.14	26.80	25.22
360.0	73.33	58.17	44.65	37.28	32.48	29.20	26.10	24.29	22.82

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	21.59	20.31	19.49	18.61	18.14	17.67	17.38	17.26	17.15
45.0	27.45	25.75	24.05	22.88	21.89	20.83	20.13	19.43	18.90
90.0	23.41	22.06	20.89	19.66	18.84	18.14	17.56	17.03	16.74
135.0	29.55	27.74	26.04	24.70	23.29	22.30	21.24	20.54	19.96
180.0	26.22	23.70	22.18	20.95	19.66	18.73	18.02	17.38	16.91
225.0	23.29	21.71	20.25	19.31	18.49	17.91	17.32	16.91	16.50
270.0	26.28	24.23	22.77	21.48	20.01	19.14	18.32	17.67	16.91
315.0	23.94	22.47	21.54	20.78	19.96	19.31	18.84	18.38	18.08
360.0	21.59	20.31	19.49	18.61	18.14	17.67	17.38	17.26	17.15
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.09	17.03	17.03	16.97	16.80	16.33	15.98	15.45	14.63
45.0	18.61	18.26	18.08	17.97	17.85	17.67	17.38	16.97	16.44
90.0	16.56	16.50	16.50	16.50	16.56	16.56	16.33	15.86	15.51
135.0	19.31	18.96	18.67	18.43	18.14	17.97	17.91	17.79	17.50
180.0	16.62	16.27	16.09	16.04	15.98	15.98	16.09	16.15	16.15
225.0	16.33	16.27	16.21	16.27	16.27	16.39	16.33	16.09	15.80
270.0	16.50	16.15	15.86	15.68	15.68	15.57	15.57	15.45	15.10
315.0	17.85	17.67	17.62	17.50	17.26	16.80	16.39	15.86	15.04
360.0	17.09	17.03	17.03	16.97	16.80	16.33	15.98	15.45	14.63
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.05	13.46	12.76	12.23	11.65	11.24	10.83	10.53	10.24
45.0	15.68	14.86	14.16	13.28	12.64	12.11	11.65	11.06	10.65
90.0	14.92	14.16	13.40	12.76	12.23	11.59	11.18	10.83	10.36
135.0	17.03	16.62	15.92	15.10	14.40	13.52	12.87	12.23	11.59
180.0	15.92	15.63	15.22	14.57	14.05	13.28	12.76	12.23	11.70
225.0	15.33	14.69	13.93	13.28	12.47	11.82	11.18	10.77	10.36
270.0	14.75	14.22	13.64	12.93	12.29	11.70	11.24	10.77	10.42
315.0	14.16	13.52	12.70	12.06	11.59	11.06	10.65	10.30	9.95
360.0	14.05	13.46	12.76	12.23	11.65	11.24	10.83	10.53	10.24
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.89	9.66	9.42	9.19	8.90	8.72	8.54	8.31	8.19
45.0	10.24	9.89	9.60	9.25	9.07	8.84	8.60	8.43	8.19
90.0	10.07	9.77	9.42	9.19	8.95	8.72	8.54	8.31	8.13
135.0	11.06	10.65	10.24	9.83	9.60	9.36	9.13	8.90	8.66
180.0	11.35	11.06	10.77	10.48	10.24	10.01	9.77	9.60	9.36
225.0	9.95	9.66	9.36	9.13	8.90	8.66	8.54	8.37	8.19
270.0	10.12	9.77	9.54	9.25	9.07	8.84	8.60	8.43	8.19
315.0	9.60	9.31	9.07	8.90	8.60	8.43	8.25	8.08	7.90
360.0	9.89	9.66	9.42	9.19	8.90	8.72	8.54	8.31	8.19
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.02	7.90	7.72	7.55	7.43	7.08	6.91	6.73	6.67
45.0	8.02	7.90	7.72	7.55	7.43	7.20	6.91	6.73	6.67
90.0	7.96	7.78	7.61	7.49	7.32	7.02	6.85	6.73	6.61
135.0	8.49	8.31	8.08	7.90	7.72	7.49	7.20	7.02	6.91
180.0	9.19	8.95	8.72	8.54	8.37	8.13	7.78	7.55	7.67
225.0	7.96	7.84	7.67	7.55	7.32	7.08	6.91	6.85	6.73
270.0	8.08	7.90	7.72	7.55	7.37	7.14	6.96	6.85	6.73
315.0	7.72	7.61	7.49	7.37	7.08	6.85	6.73	6.67	6.61
360.0	8.02	7.90	7.72	7.55	7.43	7.08	6.91	6.73	6.67

Intensity data(cd)

C/γ(°)	90.0
0.0	6.67
45.0	6.61
90.0	6.61
135.0	6.85
180.0	7.61
225.0	6.67
270.0	6.61
315.0	6.61
360.0	6.67