



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: 2-2678-L

Luminaire: 92.70.412.00

Report No: 2024308-B011

Ballast type: AC

Test No: 2024308-C011

Voltage(V): 34.580

LampCAT: BRIDGELUX V13B LES13

Current(A): 0.450

Lamp flux(lm): 2653.0

Power (W): 15.561

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2250.77, Efficiency(%): 84.84% , Luminous Efficacy(lm/W): 144.64

Central intensity(cd): 8973.899, Maximum intensity(cd): 8973.899

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=21.8

[C90/270]Total=21.8

Field angle(10%Imax): [C0/180]Total=55.2

[C90/270]Total=55.2

Maximum s/h(1/2): C0_180=0.37 C90_270=0.37

Maximum s/h(1/4): C0_180=0.40 C90_270=0.40

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.84%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.943%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/8
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	8973.899	0.000	0	0.00%	0.00%
1.0	8943.686	8.573	8.573	0.32%	0.38%
2.0	8820.131	25.496	34.07	0.96%	1.51%
3.0	8611.059	41.690	75.759	1.57%	3.37%
4.0	8287.137	56.564	132.323	2.13%	5.88%
5.0	7887.428	69.582	201.905	2.62%	8.97%
6.0	7397.083	80.324	282.229	3.03%	12.54%
7.0	6868.259	88.545	370.774	3.34%	16.47%
8.0	6229.925	93.741	464.515	3.53%	20.64%
9.0	5637.677	96.180	560.696	3.63%	24.91%
10.0	5017.631	96.427	657.122	3.63%	29.20%
11.0	4458.668	94.688	751.81	3.57%	33.40%
12.0	3931.161	91.713	843.523	3.46%	37.48%
13.0	3478.197	87.930	931.453	3.31%	41.38%
14.0	3083.975	83.995	1015.448	3.17%	45.12%
15.0	2755.956	80.173	1095.622	3.02%	48.68%
16.0	2463.856	76.485	1172.106	2.88%	52.08%
17.0	2226.840	73.047	1245.153	2.75%	55.32%
18.0	2010.599	69.866	1315.019	2.63%	58.43%
19.0	1832.325	66.859	1381.878	2.52%	61.40%
20.0	1664.658	64.005	1445.883	2.41%	64.24%
21.0	1490.912	60.593	1506.476	2.28%	66.93%
22.0	1390.985	57.913	1564.389	2.18%	69.50%
23.0	1276.288	55.967	1620.356	2.11%	71.99%
24.0	1180.772	53.720	1674.076	2.02%	74.38%
25.0	1109.426	52.074	1726.15	1.96%	76.69%
26.0	1034.202	50.601	1776.751	1.91%	78.94%
27.0	952.966	48.617	1825.367	1.83%	81.10%
28.0	865.767	46.046	1871.414	1.74%	83.15%
29.0	777.003	42.980	1914.393	1.62%	85.06%
30.0	683.301	39.428	1953.821	1.49%	86.81%
31.0	597.251	35.636	1989.457	1.34%	88.39%
32.0	509.314	31.702	2021.159	1.19%	89.80%
33.0	425.985	27.554	2048.713	1.04%	91.02%
34.0	358.523	23.742	2072.455	0.89%	92.08%
35.0	294.588	20.283	2092.738	0.76%	92.98%
36.0	220.213	16.391	2109.129	0.62%	93.71%
37.0	167.279	12.638	2121.767	0.48%	94.27%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	142.612	10.344	2132.111	0.39%	94.73%
39.0	87.762	7.863	2139.974	0.30%	95.08%
40.0	67.411	5.412	2145.386	0.20%	95.32%
41.0	56.723	4.420	2149.806	0.17%	95.51%
42.0	51.471	3.931	2153.737	0.15%	95.69%
43.0	47.286	3.658	2157.395	0.14%	95.85%
44.0	44.214	3.453	2160.849	0.13%	96.00%
45.0	41.441	3.292	2164.141	0.12%	96.15%
46.0	39.173	3.153	2167.293	0.12%	96.29%
47.0	36.957	3.028	2170.321	0.11%	96.43%
48.0	35.238	2.918	2173.24	0.11%	96.56%
49.0	33.490	2.822	2176.062	0.11%	96.68%
50.0	32.100	2.735	2178.797	0.10%	96.80%
51.0	30.944	2.667	2181.464	0.10%	96.92%
52.0	30.073	2.618	2184.082	0.10%	97.04%
53.0	29.349	2.585	2186.667	0.10%	97.15%
54.0	28.778	2.562	2189.229	0.10%	97.27%
55.0	28.405	2.553	2191.782	0.10%	97.38%
56.0	28.054	2.551	2194.333	0.10%	97.49%
57.0	27.754	2.552	2196.885	0.10%	97.61%
58.0	27.337	2.548	2199.432	0.10%	97.72%
59.0	26.876	2.535	2201.967	0.10%	97.83%
60.0	26.233	2.509	2204.476	0.09%	97.94%
61.0	25.326	2.460	2206.936	0.09%	98.05%
62.0	24.236	2.388	2209.324	0.09%	98.16%
63.0	22.897	2.292	2211.617	0.09%	98.26%
64.0	21.441	2.176	2213.792	0.08%	98.36%
65.0	19.963	2.049	2215.841	0.08%	98.45%
66.0	18.639	1.926	2217.767	0.07%	98.53%
67.0	17.586	1.822	2219.589	0.07%	98.61%
68.0	16.723	1.738	2221.327	0.07%	98.69%
69.0	16.160	1.677	2223.004	0.06%	98.77%
70.0	15.691	1.636	2224.64	0.06%	98.84%
71.0	15.355	1.605	2226.245	0.06%	98.91%
72.0	15.048	1.581	2227.826	0.06%	98.98%
73.0	14.733	1.557	2229.383	0.06%	99.05%
74.0	14.353	1.529	2230.912	0.06%	99.12%
75.0	13.980	1.497	2232.409	0.06%	99.18%

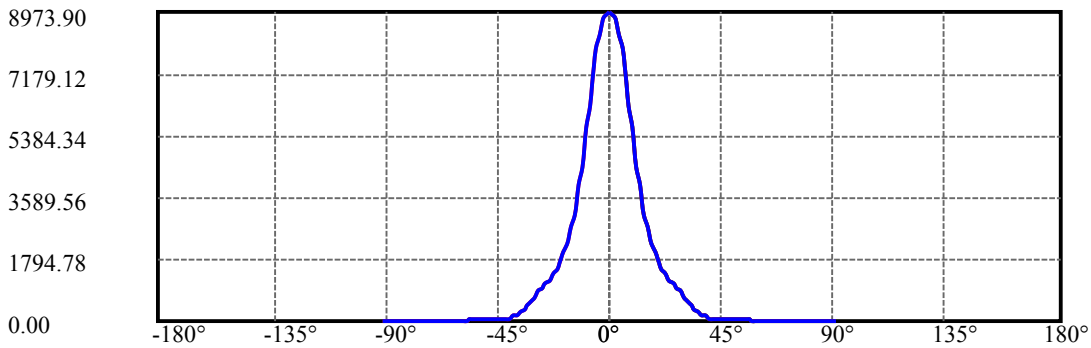
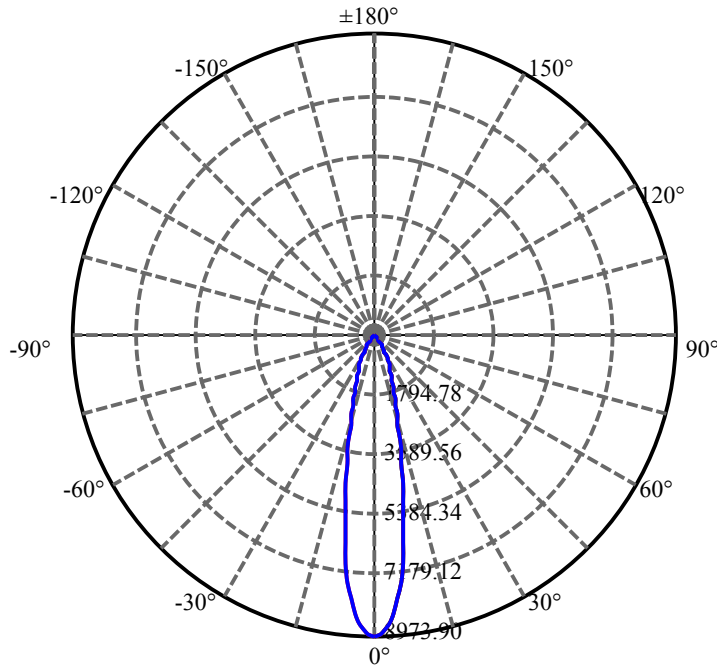
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.628	1.466	2233.875	0.06%	99.25%
77.0	13.343	1.438	2235.313	0.05%	99.31%
78.0	12.860	1.403	2236.715	0.05%	99.38%
79.0	12.538	1.365	2238.08	0.05%	99.44%
80.0	12.136	1.330	2239.41	0.05%	99.50%
81.0	11.697	1.289	2240.699	0.05%	99.55%
82.0	11.222	1.243	2241.942	0.05%	99.61%
83.0	10.827	1.199	2243.141	0.05%	99.66%
84.0	10.527	1.163	2244.304	0.04%	99.71%
85.0	10.205	1.131	2245.435	0.04%	99.76%
86.0	9.978	1.103	2246.539	0.04%	99.81%
87.0	9.759	1.080	2247.619	0.04%	99.86%
88.0	9.598	1.060	2248.679	0.04%	99.91%
89.0	9.517	1.048	2249.727	0.04%	99.95%
90.0	9.459	1.040	2250.767	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1953.82	73.65%	86.81%
0-40	2145.39	80.87%	95.32%
0-60	2204.48	83.09%	97.94%
0-90	2249.73	84.80%	99.95%
0-120	2249.73	84.80%	99.95%
0-180	2250.77	84.84%	100.00%
60-90	45.25	1.71%	2.01%
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%
0-26.49	1800.61	67.87%	80.00%

ZONAL LUMEN SUMMARY

0-10	657.12
10-20	788.76
20-30	507.94
30-40	191.56
40-50	33.41
50-60	25.68
60-70	20.16
70-80	14.77
80-90	10.32
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



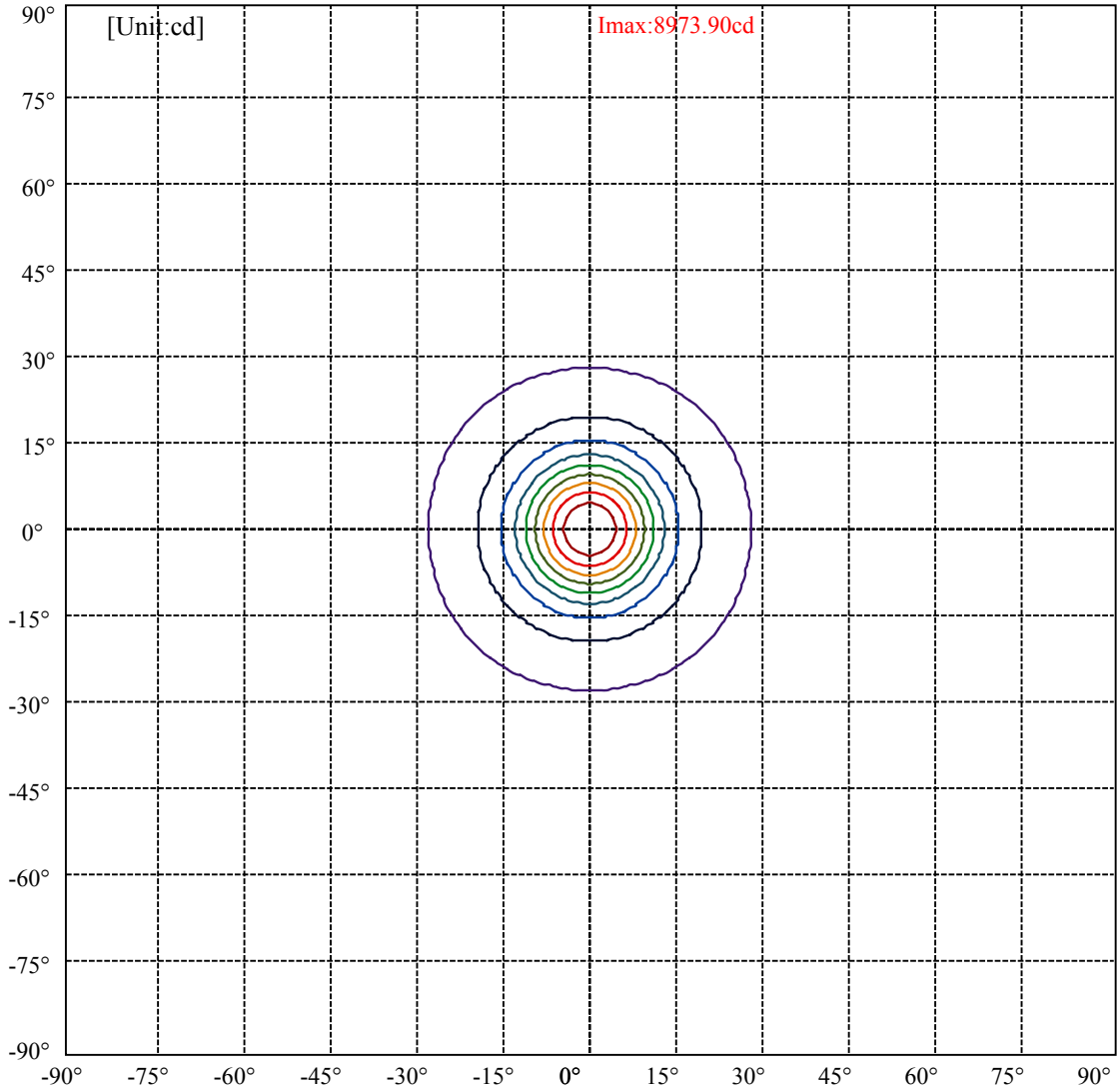
C0(Max): —————

C0/C180: —————

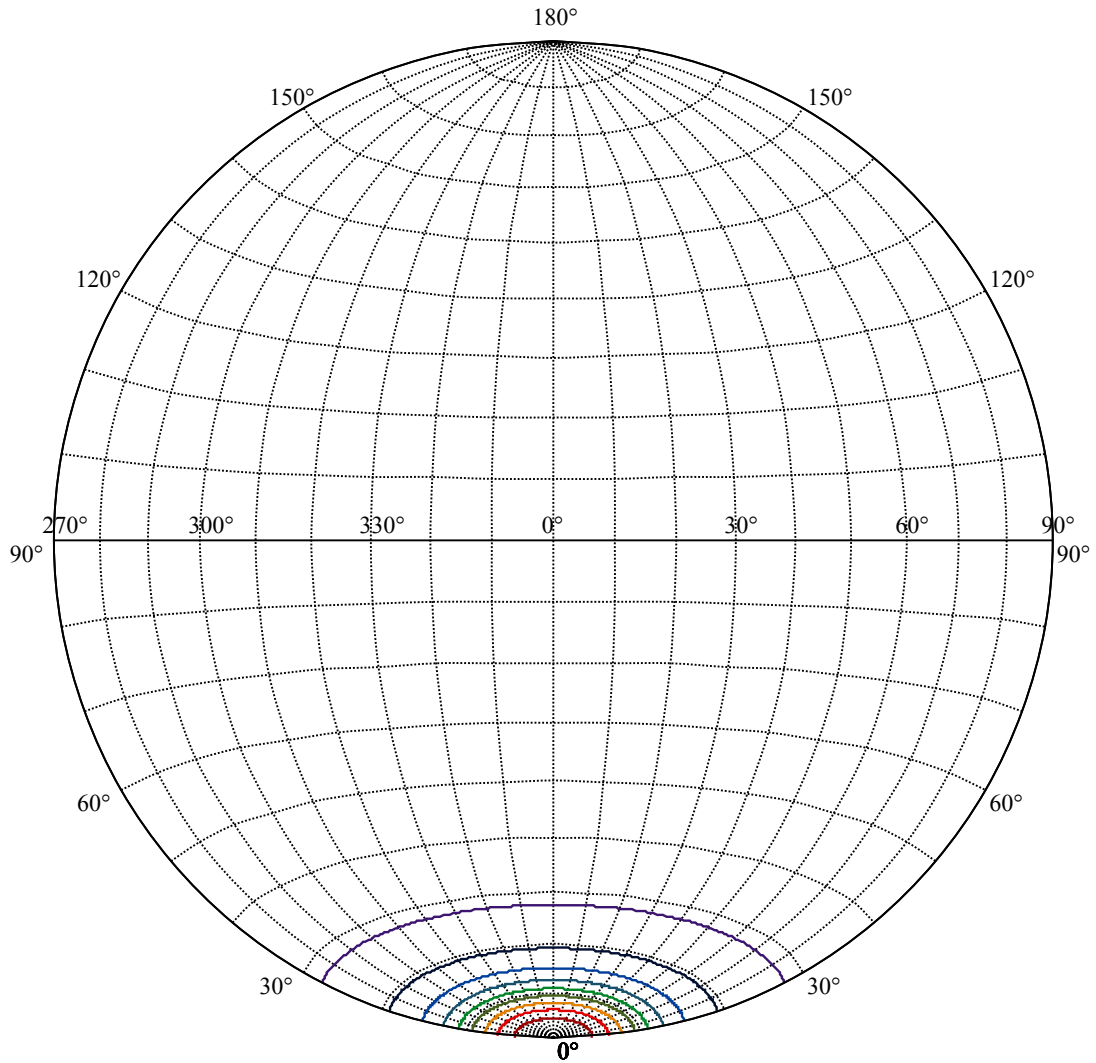
C90/C270: —————

Field angle(10%Imax):C0/180Left:27.6 Right:27.6
:C90/270Left:27.6 Right:27.6

Beam Angle(50%Imax):C0/180Left:10.9 Right:10.9
:C90/270Left:10.9 Right:10.9



(10%Imax) 897.39	—
(20%Imax) 1794.78	—
(30%Imax) 2692.17	—
(40%Imax) 3589.56	—
(50%Imax) 4486.95	—
(60%Imax) 5384.34	—
(70%Imax) 6281.73	—
(80%Imax) 7179.12	—
(90%Imax) 8076.51	—



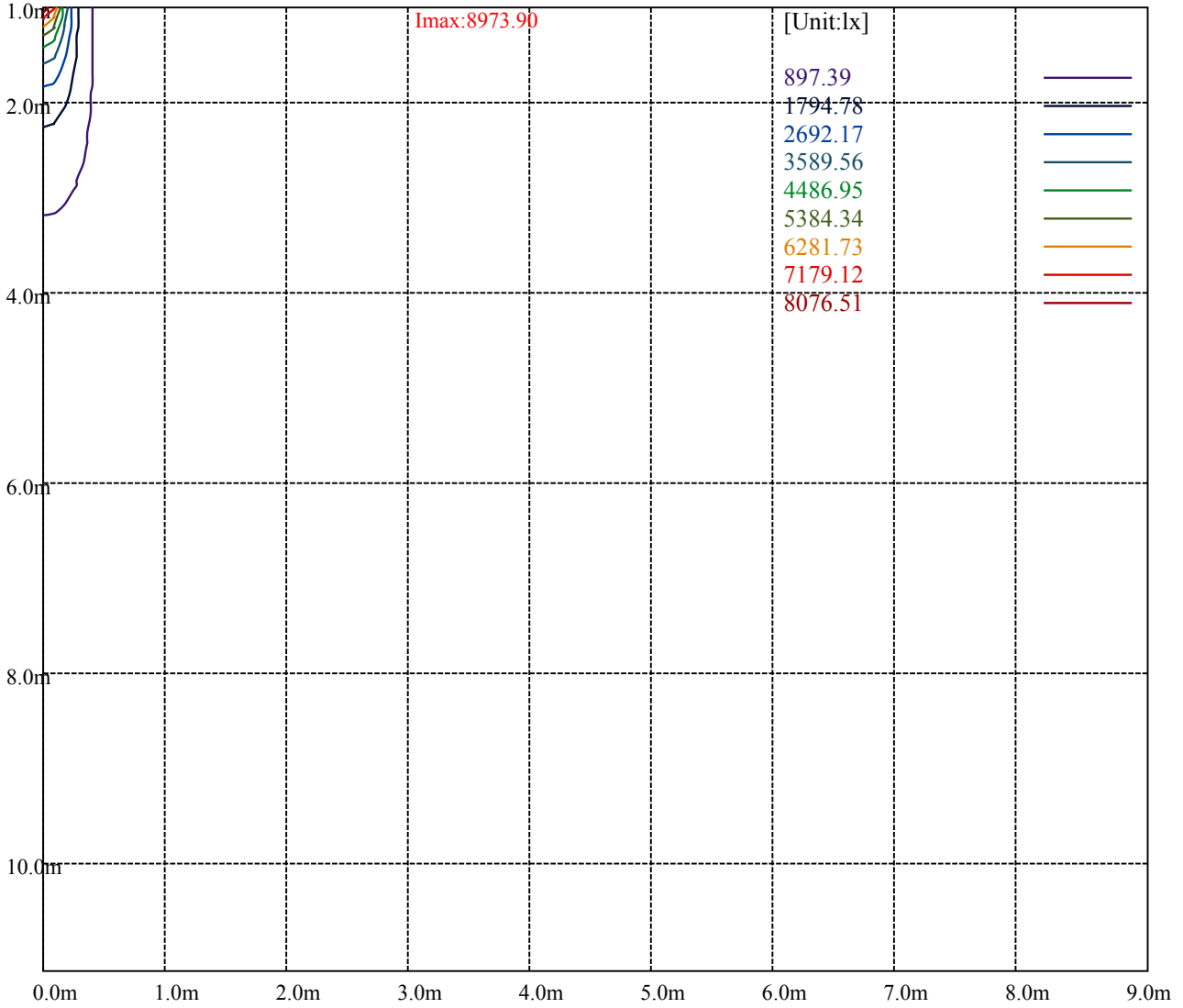
House

[Unit:cd]

Road

Imax:8973.90

(10%Imax) 897.39	—
(20%Imax) 1794.78	—
(30%Imax) 2692.17	—
(40%Imax) 3589.56	—
(50%Imax) 4486.95	—
(60%Imax) 5384.34	—
(70%Imax) 6281.73	—
(80%Imax) 7179.12	—
(90%Imax) 8076.51	—



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

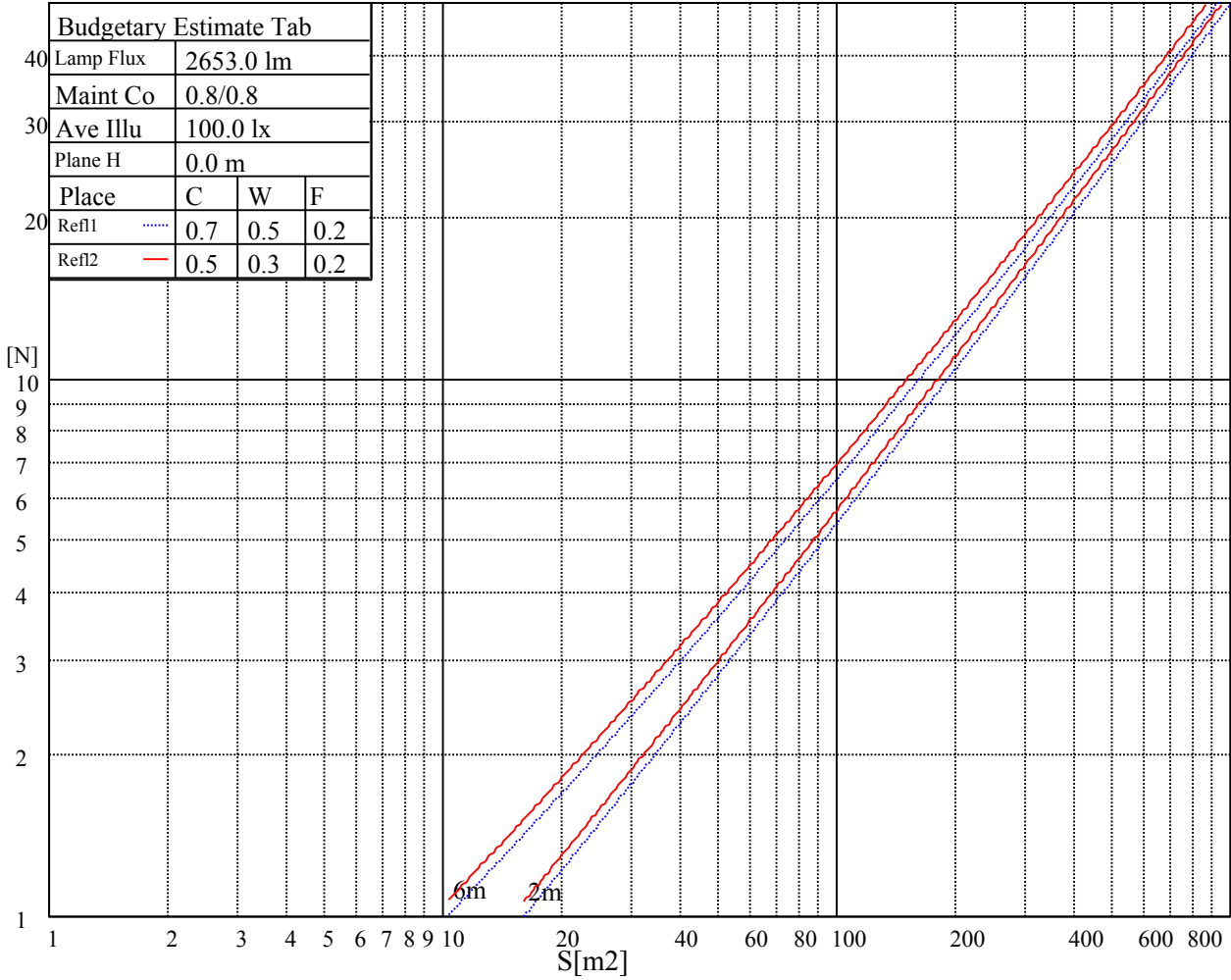
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

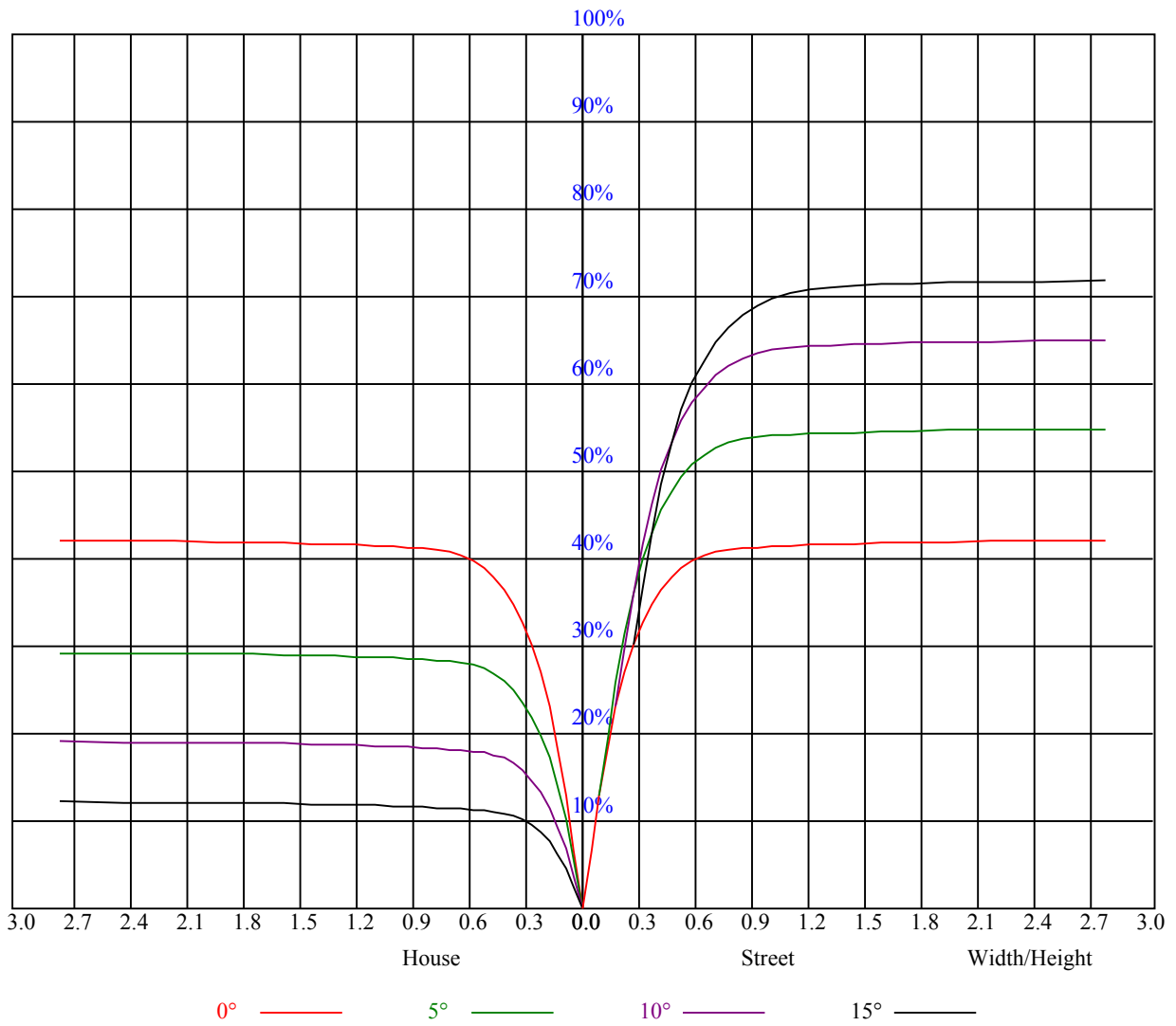


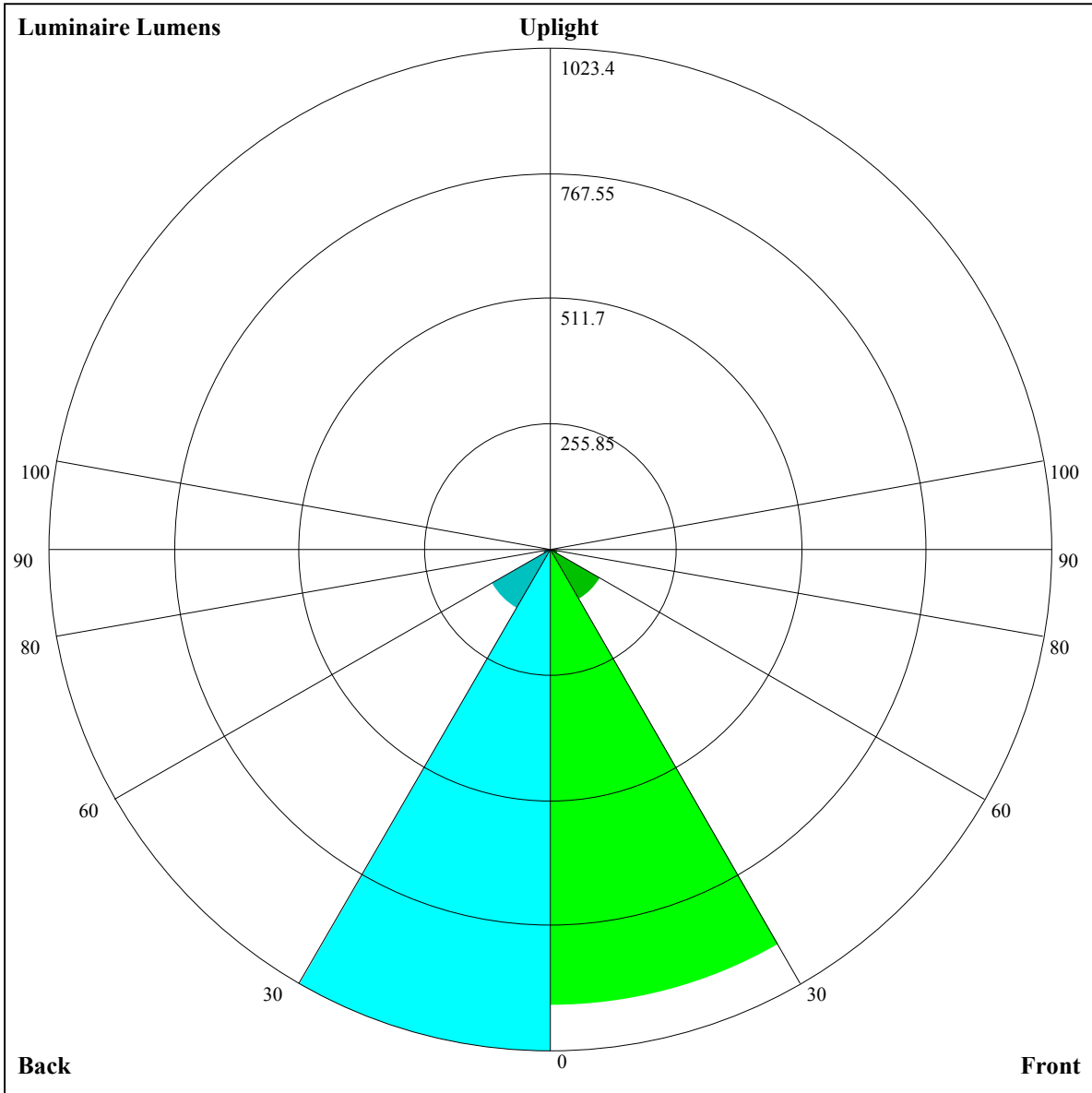
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	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	0.80	0.81	0.79	0.78	0.77
3	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.58
10	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56





Luminaire Lumens:

FL=931.85,FM=116.9,FH=17.25,FVH=5.61

BL=1023.4,BM=138.32,BH=17.64,BVH=5.75

UL=0,UH=0

BUG Rating:B3-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	8908.35	8695.33	8412.67	8019.98	7417.20	6878.79	6305.27	5724.73	4970.96
45.0	9014.28	8914.79	8779.60	8521.52	8027.00	7546.53	6999.35	6416.47	5688.45
90.0	8927.08	8804.18	8478.80	8097.23	7636.66	6959.55	6358.53	5769.21	5027.73
135.0	9045.88	8978.00	8825.84	8622.18	8295.04	7745.51	7236.37	6668.11	5938.34
180.0	8908.35	9021.89	9061.10	9025.98	8899.58	8728.10	8375.80	7971.41	7471.04
225.0	9014.28	9069.88	9000.82	8821.15	8645.59	8374.63	7862.56	7373.89	6806.81
270.0	8927.08	9013.69	9066.95	9000.23	8835.79	8671.34	8402.72	7908.79	7413.69
315.0	9045.88	9051.73	8935.27	8780.19	8540.25	8194.96	7636.07	7113.47	6522.39
360.0	8908.35	8695.33	8412.67	8019.98	7417.20	6878.79	6305.27	5724.73	4970.96

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4388.08	3894.15	3472.78	3025.09	2729.55	2470.29	2192.31	2002.11	1832.98
45.0	5095.03	4522.09	3896.49	3473.95	3111.11	2726.04	2466.78	2244.40	2002.11
90.0	4460.64	3956.18	3425.97	3068.98	2767.59	2445.13	2223.91	2027.28	1854.05
135.0	5346.09	4757.94	4219.53	3656.54	3273.81	2941.98	2655.81	2350.91	2141.98
180.0	6927.95	6199.35	5608.85	5002.56	4301.46	3813.97	3397.87	2967.15	2688.58
225.0	6217.49	5473.08	4884.35	4333.65	3853.18	3345.20	2999.34	2702.63	2388.36
270.0	6727.81	6140.24	5556.77	4810.02	4257.57	3777.10	3353.98	2923.84	2641.76
315.0	5938.34	5198.03	4604.61	4078.49	3531.31	3152.08	2757.64	2492.53	2264.88
360.0	4388.08	3894.15	3472.78	3025.09	2729.55	2470.29	2192.31	2002.11	1832.98

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1649.22	1519.30	1405.18	1160.68	1160.68	1125.68	1056.57	955.32	866.89
45.0	1832.40	1680.24	1511.11	1394.06	1293.41	1206.79	1118.42	1045.27	959.83
90.0	1662.10	1527.50	1407.52	1155.12	1155.12	1120.88	1052.29	949.29	869.82
135.0	1915.50	1758.66	1615.86	1459.02	1351.34	1257.71	1159.97	1091.50	1017.76
180.0	2444.54	2176.51	1982.22	1809.57	1633.42	1504.67	1388.80	1293.41	1190.41
225.0	2171.24	1982.22	1776.22	1630.50	1501.75	1363.63	1150.96	1150.96	1118.19
270.0	2394.21	2174.17	1930.72	1765.68	1626.40	1468.39	1356.61	1244.25	1169.34
315.0	2015.57	1840.01	1688.43	1552.66	1405.77	1162.55	1162.55	1145.40	1081.38
360.0	1649.22	1519.30	1405.18	1160.68	1160.68	1125.68	1056.57	955.32	866.89

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	778.93	691.79	586.51	504.29	426.39	334.51	268.09	207.81	142.62
45.0	873.21	762.02	676.58	572.41	493.40	419.66	330.13	297.35	297.35
90.0	780.69	679.33	591.43	495.45	412.82	344.52	272.83	212.67	145.37
135.0	932.91	825.23	739.20	654.93	573.58	472.34	396.84	325.44	307.89
180.0	1120.18	1050.54	970.95	865.02	778.41	667.22	589.38	508.03	406.79
225.0	1037.37	962.17	880.41	793.33	685.42	601.03	518.68	441.73	349.73
270.0	1102.62	1038.83	941.10	863.27	777.24	688.28	585.87	503.35	420.25
315.0	997.81	916.23	829.85	717.72	630.76	546.95	446.06	371.79	286.70
360.0	778.93	691.79	586.51	504.29	426.39	334.51	268.09	207.81	142.62

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	101.42	75.14	62.91	57.82	53.26	49.04	46.23	43.66	41.20
45.0	145.02	94.22	71.28	62.79	57.82	52.38	49.22	46.58	44.13
90.0	104.99	75.55	63.79	57.53	52.90	49.33	45.82	43.31	40.38
135.0	225.08	123.48	78.13	61.98	56.24	50.45	46.76	43.83	41.14
180.0	328.95	299.69	299.69	133.78	92.29	66.95	57.41	51.15	46.99
225.0	283.31	206.23	149.70	107.27	70.93	60.57	55.19	49.28	46.23
270.0	348.27	295.60	295.60	144.20	94.40	69.00	59.81	53.67	49.45
315.0	224.67	168.31	119.80	76.72	61.45	56.06	51.32	46.82	44.18
360.0	101.42	75.14	62.91	57.82	53.26	49.04	46.23	43.66	41.20

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	38.45	36.52	34.82	33.42	31.84	31.02	30.14	29.55	29.14
45.0	41.20	39.09	36.81	35.11	33.71	32.19	31.37	30.72	30.02
90.0	38.27	36.46	34.53	33.24	32.01	31.25	30.55	29.90	29.61
135.0	38.39	36.46	34.59	33.01	31.31	30.20	29.32	28.56	28.09
180.0	44.13	41.67	38.98	37.04	34.76	33.12	31.49	30.49	29.50
225.0	43.60	41.14	38.27	36.34	34.59	33.01	31.31	30.20	29.20
270.0	45.65	43.01	40.67	38.51	36.46	34.18	32.66	31.43	30.26
315.0	41.84	39.03	36.99	35.23	33.24	31.84	30.72	29.73	28.97
360.0	38.45	36.52	34.82	33.42	31.84	31.02	30.14	29.55	29.14
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.68	28.32	27.97	27.45	26.63	25.63	24.64	23.35	21.65
45.0	29.55	29.14	28.85	28.44	27.80	27.15	26.22	24.93	23.58
90.0	29.09	28.97	28.62	28.15	27.45	26.63	25.46	23.94	22.53
135.0	27.68	27.51	27.33	27.10	26.92	26.45	25.87	24.76	23.76
180.0	28.79	28.27	27.86	27.68	27.45	27.39	27.27	26.86	26.39
225.0	28.68	28.09	27.80	27.62	27.39	27.15	26.69	26.16	25.22
270.0	29.26	28.79	28.21	27.92	27.68	27.45	27.21	26.69	25.93
315.0	28.50	28.15	27.80	27.68	27.39	27.15	26.51	25.93	24.81
360.0	28.68	28.32	27.97	27.45	26.63	25.63	24.64	23.35	21.65
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.01	18.67	17.15	16.39	15.68	15.10	14.75	14.40	13.99
45.0	22.18	20.19	19.02	18.49	18.96	19.37	19.49	19.20	19.02
90.0	20.89	19.02	17.62	16.80	16.27	15.92	15.86	15.98	15.98
135.0	22.36	21.01	19.37	17.67	16.50	15.57	15.04	14.63	14.16
180.0	25.28	24.46	23.12	21.42	19.61	17.97	16.74	16.04	15.57
225.0	24.11	22.47	21.13	19.43	17.79	16.50	15.86	15.16	14.92
270.0	24.87	23.82	22.30	20.48	18.73	17.38	16.21	15.33	14.81
315.0	23.47	21.89	20.01	18.43	17.15	15.98	15.33	14.81	14.40
360.0	20.01	18.67	17.15	16.39	15.68	15.10	14.75	14.40	13.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.69	13.40	13.05	12.70	12.41	12.17	11.88	11.47	11.12
45.0	18.84	18.32	16.97	15.92	15.22	14.92	13.52	13.23	12.29
90.0	15.45	15.04	14.75	14.10	13.69	12.93	12.41	12.00	11.53
135.0	13.81	13.52	13.17	12.93	12.70	12.47	12.11	11.88	11.65
180.0	15.68	15.98	16.21	16.33	15.98	16.04	15.57	15.10	14.63
225.0	14.46	13.99	13.69	13.46	13.23	12.93	12.70	12.47	12.23
270.0	14.40	13.99	13.69	13.34	13.05	12.82	12.52	12.29	12.00
315.0	14.05	13.64	13.28	13.05	12.76	12.47	12.17	11.88	11.65
360.0	13.69	13.40	13.05	12.70	12.41	12.17	11.88	11.47	11.12
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.89	10.59	10.36	10.12	9.83	9.66	9.54	9.42	9.48
45.0	11.41	11.00	10.53	10.30	10.01	9.77	9.60	9.48	9.42
90.0	11.18	10.83	10.48	10.07	9.77	9.60	9.54	9.42	9.42
135.0	11.35	11.06	10.83	10.65	10.01	9.71	9.60	9.48	9.42
180.0	13.69	12.29	11.35	11.00	10.71	10.53	10.12	9.83	9.71
225.0	11.88	11.53	11.12	10.71	10.48	10.24	9.83	9.71	9.54
270.0	11.82	11.47	11.18	10.89	10.59	10.30	10.07	9.77	9.60
315.0	11.35	11.00	10.77	10.48	10.24	10.01	9.77	9.66	9.54
360.0	10.89	10.59	10.36	10.12	9.83	9.66	9.54	9.42	9.48

Intensity data(cd)

C/γ(°)	90.0
0.0	9.48
45.0	9.42
90.0	9.42
135.0	9.36
180.0	9.60
225.0	9.48
270.0	9.48
315.0	9.42
360.0	9.48